September 16, 2024

Ms. Ashley Mastin, Chief
Governmental Hazardous Waste Branch
Land Division
Alabama Department of Environmental Management
1400 Coliseum Blvd.
Montgomery, AL 36110-2400

RE: AHWMMA Permit Renewal Application - Revised
Alabama Wood Treating Corporation Site
AHWMMA Permit Number: ALD 058 221 326

Dear Ms. Mastin,

The Alabama State Port Authority (ASPA) received informal comments from the Department since submittal of the August 28, 2024 permit application for the Alabama Hazardous Waste Management and Minimization Act Permit Renewal Application for the Alabama Wood Treating Corporation (AWTC) site. ASPA is currently submitting a revised Permit Renewal Application and Response to Comments.

Should you have any questions or require additional information or clarification, please do not hesitate to contact Gretchen Barrera at 251-441-7086 or via email at Gretchen.Barrera@ALports.com.

Sincerely,

Gretchen Barrera, P.E.
Environmental Director

cc: Director, RCRA Division, USEPA Region 4
Maggie Weems, WSP

P.O. Box 1588 • Mobile, AL 36633
Office: 251.441.7200 • Fax: 251.441.7216
ALports.com

WSP USA Environment & Infrastructure Inc.
4000 Meadow Lake Drive, Suite 121
Birmingham, AL 35242
USA
T: 205-980-6402
www.wsp.com

August 28, 2024

Ms. Ashley T. Mastin, Chief
Governmental Hazardous Waste Branch
Land Division
Alabama Department of Environmental Management
1400 Coliseum Blvd.
Montgomery, AL 36110-2400

RE: Revised AHWMMA Post-Closure Permit Renewal Application
Alabama Wood Treating Corporation (AWTC) Site
AHWMMA Permit Number: ALD 058 221 326

Dear Ms. Mastin,

In response to comments received from the Alabama Department of Environmental Management (ADEM) dated June 27, 2024, WSP USA Environment & Infrastructure Inc. (WSP) is submitting this revised AHWMMA Post-Closure Permit Renewal Application for the Alabama Wood Treating Corporation (AWTC) site located in Mobile, Alabama, on behalf of the Alabama State Port Authority (ASPA). This document is being submitted in accordance with Alabama Department of Environmental Management (ADEM) Admin. Code Section 335-14-8-.02 to renew the existing Hazardous Waste Facility Permit issued to ASPA for the AWTC site on September 30, 2014. Please find enclosed the following documents:

- Response to Comments document and associated attachments.
- Alabama Wood Treating Corporation Site AHWMMA Post-Closure Permit Renewal Application, revised August 2024, to replace/supplement pages in the prior submittal.
    - Complete resubmittal of Part B text with new certification to replace prior Part B
    - Replacement pages for Tables 2, 3, 8C, 9, and 10 to replace the prior tables
    - Updated Figures 1 and 2C, which addressed a request in May 2024 to add AOCs 7-10, to replace prior Figures 1 and 2C
    - Appendix A – Complete resubmittal of Part A to replace prior Part A
    - Appendix B – Boring logs for wells 31-IR and 31-DR to be added to the previously submitted appendix
    - Appendix C – Statutory Warranty Deed for the removed Contiguous Property parcel to be added to the previously submitted appendix
    - Appendix F – Replacement pages for Tables F-1 through F-3 to replace the prior tables

Digital files have been provided for convenience. Should you have any questions or require additional information or clarification, please do not hesitate to contact me via email at maggie.weems@wsp.com.

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

Maggie P. Weems, AL PE #37591
AVP, Environmental Engineer

cc: Gretchen Barrera, ASPA
Robert Morris, EPA

August 28, 2024

Ms. Ashley Mastin, Chief
Governmental Hazardous Waste Branch
Land Division
Alabama Department of Environmental Management
1400 Coliseum Blvd.
Montgomery, AL 36110-2400

RE: AHWMMA Permit Renewal Application - Revised
Alabama Wood Treating Corporation Site
AHWMMA Permit Number: ALD 058 221 326

Dear Ms. Mastin,

The Alabama State Port Authority (ASPA) received the Notice of Deficiency dated June 27, 2024 regarding the Alabama Hazardous Waste Management and Minimization Act Permit Renewal Application for the Alabama Wood Treating Corporation (AWTC) site. ASPA is currently submitting a revised Permit Renewal Application and Response to Comments.

Should you have any questions or require additional information or clarification, please do not hesitate to contact Gretchen Barrera at 251-441-7086 or via email at Gretchen.Barrera@ALports.com.

Sincerely,

Gretchen Barrera, P.E.
Environmental Director

cc: Director, RCRA Division, USEPA Region 4
Maggie Weems, WSP

P.O. Box 1588 • Mobile, AL 36633
Office: 251.441.7200 • Fax: 251.441.7216
ALports.com

WSP USA Environment & Infrastructure Inc.
4000 Meadow Lake Drive, Suite 121
Birmingham, Alabama 35242
Phone: (205) 980-6402

LETTER OF TRANSMITTAL

TO: Ashley T. Mastin, Chief

Governmental Hazardous Waste Branch
Land Division
ADEM
1400 Coliseum Blvd
Montgomery, AL 36110-2400

DATE: September 5, 2024

PROJ. NAME: Alabama State Port Authority

SUBJECT: Revised AHWMMA Post-Closure Permit Renewal Application; USEPA ID Number ALD 058 221 326

WE TRANSMIT TO YOU: ☒ HEREWITH ☐ UNDER SEPARATE COVER

SUBJECT:	ACTION:	SENT BY:
☐ DRAWINGS	☐ FOR YOUR INFORMATION	☐ MAIL
☐ SPECIFICATIONS	☒ FOR YOUR COMMENT OR APPROVAL	☐ CERTIFIED MAIL
☐ CALCULATIONS	☐ RETURNED FOR CORRECTION: RESUBMIT	☒ EXPRESS
☐ REPORT	☐ APPROVED AS NOTED	☐ EMAIL
☐ COST ESTIMATE	☐ AS REQUESTED	☐ HAND DELIVERED
☒ AS NOTED		☐ FACSIMILE

COPIES	DATE	DESCRIPTION
2	August 2024	Hard Copies – Revised sections and replacement/supplement pages for AHWMMA Post-Closure Permit Renewal Application
2	August 2024	Digital Copy – Revised AHWMMA Post-Closure Permit Renewal Application

REMARKS:

Please find enclosed hard copy replacement/supplement pages and one digital copy of the revised, complete AHWMMA Post-Closure Permit Renewal Application for the Alabama Wood Treating Corporation site located in Mobile, Alabama. Please see the attached cover letter for replacement/supplement page details.

AHWMMA ID # ALD 058 221 326; EPA ID # ALD 058 221 326

CC: Gretchen Barrera, ASPA
Robert Morris, EPA

By: Maggie P. Weems, PE

WSP USA Environment & Infrastructure Inc.
4000 Meadow Lake Drive, Suite 121
Birmingham, Alabama 35242
Phone: (205) 980-6402

LETTER OF TRANSMITTAL

TO: Robert Morris, RCRA Division

USEPA Region 4
Atlanta Federal Center
61 Forsyth Street SW
Atlanta, Georgia 30303-3104

DATE: September 5, 2024

PROJ. NAME: Alabama State Port Authority

SUBJECT: Revised AHWMMA Post-Closure Permit Renewal Application; USEPA ID Number ALD 058 221 326

WE TRANSMIT TO YOU: ☒ HEREWITH ☐ UNDER SEPARATE COVER

SUBJECT:	ACTION:	SENT BY:
☐ DRAWINGS	☐ FOR YOUR INFORMATION	☐ MAIL
☐ SPECIFICATIONS	☒ FOR YOUR COMMENT OR APPROVAL	☐ CERTIFIED MAIL
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☒ AS NOTED		☐ FACSIMILE

COPIES	DATE	DESCRIPTION
1	August 2024	Hard Copies – Revised sections and replacement/supplement pages for AHWMMA Post-Closure Permit Renewal Application
1	August 2024	Digital Copy – Revised AHWMMA Post-Closure Permit Renewal Application

REMARKS:

Please find enclosed hard copy replacement/supplement pages and one digital copy of the revised, complete AHWMMA Post-Closure Permit Renewal Application for the Alabama Wood Treating Corporation site located in Mobile, Alabama. Please see the attached cover letter for replacement/supplement page details.

AHWMMA ID # ALD 058 221 326; EPA ID # ALD 058 221 326

CC: Gretchen Barrera, ASPA
Ashley T. Mastin, ADEM

By: Maggie P. Weems, PE

ALABAMA STATE PORT AUTHORITY
Office of Environmental Management

ALABAMA WOOD TREATING CORPORATION SITE
MOBILE, ALABAMA
FACILITY ID # ALD 058 221 326

AHWMMA PART B POST-CLOSURE
PERMIT RENEWAL APPLICATION

VOLUME I of II
(Text, Tables, and Figures)

Prepared by:

WSP USA Environment & Infrastructure Inc.
4000 Meadow Lake Drive, Suite 121
Birmingham, Alabama 35242

Prepared for:

Alabama State Port Authority
250 N. Water Street
Mobile, Alabama 36602

March 2024
Revised August 2024
Revised September 2024

WSP Project 7630233209

CERTIFICATION STATEMENT

CERTIFICATION STATEMENT

335-14-8-.02(2)(d)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: DocuSigned by: FF07744312D24EA... Date: Sep 16, 2024 | 12:52 PM EDT

Name: John C. Driscoll

Title: Director and Chief Executive Officer, Alabama State Port Authority

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AHWMMA POST-CLOSURE PERMIT APPLICATION CHECKLIST

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
AHWMMA POST-CLOSURE PERMIT APPLICATION
CHECKLIST

Facility Name: Alabama Wood Treating Corporation Site
Facility Identification Number: ALD 058 221 326
Facility Address: 68 Virginia Street, Mobile, AL 36603
Facility Phone Number: 251-441-7086
Application Revision Number: 0

Facility Contact: Gretchen Barrera
Permit Writer(s) :
Date Application Received:
Date Review Completed:

		AWTC	Contiguous Properties	
REQUIREMENT	**ADEM ADMIN. CODE RULE**	**LOCATION IN APPLICATION (SECTION/PAGE #)**		**COMMENTS/ DEFICIENCIES**
Signature	335-14-8-.02(2)(a)	Part A - Page 6; Certification Page Appendix A	Part A - Page 6; Certification Page Appendix A	
Certification Statement	335-14-8-.02(2)(d)	Certification Statement Section	Certification Statement Section	
Part A Application	335-14-8-.02(4)	Appendix A	Appendix A	
Must meet all the requirements of the given rule	335-14-8-.02(4)(a)-(n)	Appendix A	Appendix A	
General Facility Description	335-14-8-.02(5)(b)1.	Sections 2.1 and 2.2, pgs. 2-1 to 2-2	Section 7.1, pgs. 7-1 to 7-2	
Over all description of the facility and each hazardous waste producing process.	335-14-8-.02(5)(b)1.	Sections 2.1 – 2.4, pgs. 2-1 to 2-4 provide overall facility description; Sections 2.5.2 and 2.5.3, pgs. 2-5 to 2-9 addresses facility process and waste information	Section 7.4.2, pg. 7-3	
Description, including code number, of each hazardous waste generated at the facility	335-14-8-.02(19)(a)	Section 2.6, pgs. 2-11 to 2-14	Section 7.5, pg. 7-4 to 7-5	

		AWTC	Contiguous Properties	
REQUIREMENT	**ADEM ADMIN. CODE RULE**	**LOCATION IN APPLICATION (SECTION/PAGE #)**		**COMMENTS/ DEFICIENCIES**
Security Procedures	335-14-8-.02(5)(b)4.	Section 6.1, pg. 6-1 to 6-2	Section 8.2, pg. 8-5	
24 Hour surveillance system (e.g. continuous television monitoring or patrolling guards/facility personnel) that continuously controls or monitors entry onto the closed hazardous waste management unit, or	335-14-5-.02(5)(b)1.	Section 6.1, pg. 6-1 to 6-2	Section 8.2, pg. 8-5	
Physical barrier (e.g. fence or fence combined with a cliff) which completely encompasses the closed hazardous waste management unit and prevents unauthorized access	335-14-5-.02(5)(b)2.	Section 6.1, pg. 6-1 to 6-2; the location of fences and access controls are shown on Figure 5	Section 8.2, pgs. 8-5, Figure 24A – Figure 24C	
Inspection Schedule	335-14-8-.02(5)(b)5.	Section 6.2, pg. 6-2 to 6-4; Operations, Maintenance and Monitoring (OM&M) Manual [Appendix C of CMIP, provided as a standalone submittal]	Section 8.3. pgs. 8-5 to 8-6, OM&M Manual [Appendix C of CMIP provided as a standalone submittal]	
Written schedule for inspection monitoring equipment, safety and emergency equipment, security equipment, and each closed hazardous waste unit	335-14-5-.02(6)(b)1.	Section 6.2, pgs. 6-2 to 6-4; OM&M Manual	Section 8.3, pgs. 8-5 to 8-6, OM&M Manual	
Justification of Any Request for a Waiver(s) of the Preparedness and Prevention Requirements of ADEM Admin. Code R. 335-14-5-.03	335-14-8-.02(5)(b)5.	Sections 6.1-6.2, pgs. 6-1 to 6-3	Section 8.3, pg. 8-5	
Location Information	335-14-8-.02(5)(b)11.	Sections 2.1 and 2.2, pgs.2-1 to 2-2, Sections 2.10 and 2.11, pgs. 2-18 to 2-20	Section 7.1, pgs. 7-1 to 7-2, Sections 7.7 and 7.8, pgs. 7-7 to 7-9	

		AWTC	Contiguous Properties	
REQUIREMENT	**ADEM ADMIN. CODE RULE**	**LOCATION IN APPLICATION (SECTION/PAGE #)**		**COMMENTS/ DEFICIENCIES**
Documentation of the political jurisdiction in which the facility is located	335-14-8-.02(5)(b)11.(i)	Section 2.3, pgs. 2-2 to 2-3	Section 7.2, pg. 7-2	
Documentation of whether the facility is located in a 100-year floodplain	335-14-8-.02(5)(b)11.(iii)	Section 2.10, pg. 2-18	Section 7.7, pg. 7-7	
Post-Closure Plan	335-14-8-.02(5)(b)13.	Sections 5.8 and 5.9, pgs. 5-10 to 5-25; Section 6, pgs. 6-1 to 6-9; and OM&M Manual	Not Applicable	
Description of appropriate monitoring/maintenance activities and frequencies, including:	335-14-5-.07(9)(b)	Sections 5.8 and 5.9, pgs. 5-10 to 5-25; Section 6, pgs. 6-1 to 6-9; and OM&M Manual	Not Applicable	
Procedures for maintaining the integrity and the effective of the final cover system, and repairing the final cover system to correct the effects of subsistence, erosion, settling, or other events	335-14-5-.14(11)(d)1.	Section 6, pgs. 6-1 to 6-9; and OM&M Manual	Not Applicable	
Procedures for the monitoring, maintenance, and operation of any leak detection, collection, and/or removal systems	335-14-5-.14(11)(d)2-3.	Section 6, pgs. 6-1 to 6-9; and OM&M Manual	Not Applicable	
Procedures for maintaining the groundwater monitoring systems to ensure compliance with ADEM Admin. Code Rule 335-14-5-.06(8)(c)	335-14-5-.14(11)(d)4.	Sections 5.8 and 5.9, pgs. 5-10 to 5-25; Section 6, pgs. 6-1 to 6-9; and OM&M Manual	Not Applicable	
Maintenance of the run-on/run-off control systems	335-14-5-.14(11)(d)5.	Section 6, pgs. 6-1 to 6-9; and OM&M Manual	Not Applicable	

		AWTC	Contiguous Properties	
REQUIREMENT	**ADEM ADMIN. CODE RULE**	**LOCATION IN APPLICATION (SECTION/PAGE #)**		**COMMENTS/ DEFICIENCIES**
Protection of maintenance of surveyed bench marks	335-14-5-.14(11)(d)6.	Section 6, pgs. 6-1 to 6-9; and OM&M Manual	Not Applicable	
Documentation that the landfill and associated monitoring equipment will be visually inspected every seven days, and that such inspections will be documented on an inspection log.	335-14-5-.14(11)(d)7.	Not Applicable	Not Applicable	
Inclusion of the above items on the facility inspection schedule.	335-14-8-.02(5)(b)5.	Section 6, pgs. 6-1 to 6-9; and OM&M Manual	Not Applicable	
Post-Closure Notices	335-14-8-.02(5)(b)14.	Section 3, pgs. 3-1 to 3-2 and Appendix C	Not Applicable	
Documentation demonstrating that a survey plat indicating the locations of all hazardous waste units have been filed with the local land-use authority.	335-14-5-.07(7)	Section 3.3, pgs. 3-1 to 3-2 and Appendix C	Not Applicable	
Documentation demonstrating that the Permittee has provided to the local land-use authority and the Department a record of the type, location, and quantity of hazardous wastes or waste residues remaining in each hazardous waste unit at the facility	335-14-5-.07(10)(a)	Section 3.3, pgs. 3-1 to 3-2 and Appendix C	Not Applicable	

REQUIREMENT	ADEM ADMIN. CODE RULE	AWTC LOCATION IN APPLICATION (SECTION/PAGE #)	Contiguous Properties	COMMENTS/ DEFICIENCIES
Documentation demonstrating that a notation on the deed to the property that will in perpetuity notify any potential purchaser that: • the land was used to manage hazardous waste, • its use is restricted, and • the survey plat and record required by ADEM Admin. Code Rule 335-14-5-.07(7) has been filed with the local land-use authority and ADEM. •	335-14-5-.07(10)(b)1.	Section 3.3, pgs. 3-1 to 3-2 and Appendix C	Not Applicable	Section 4.4, pgs. 4-13 to 4-15, and Section 6, pgs. 6-1 to 6-9 provide information regarding additional institutional and engineering controls in place at the Facility
Post-Closure Cost Estimate and Financial Assurance	335-14-8-.02(5)(b)16.	Section 6.5, pgs. 6-8 to 6-9	Not Applicable	
Post Closure Costs should be based on: • third party costs • fully loaded labor rate • no salvage values • no operational credits (gas, crops, etc.) • most costly extent of operations and should address all costs associated with post-closure care, including: • inspection costs • administrative costs • maintenance and repair costs • transportation costs	335-14-5-.08(5)	Not Applicable	Not Applicable	
Post-Closure Financial Assurance should be one of the approved methods and use standard wording	335-14-5-.08(6)	Not Applicable	Not Applicable	
Topographic Map	335-14-8-.02(5)(b)19.	Section 2.11, pgs. 2-18 to 2-20; Figures 2-21	Section 7.8, pgs. 7-7 to 7-9 Figures 22-26	

		AWTC	Contiguous Properties	
REQUIREMENT	**ADEM ADMIN. CODE RULE**	**LOCATION IN APPLICATION (SECTION/PAGE #)**		**COMMENTS/ DEFICIENCIES**
The map must show a distance of 1000 feet beyond the facility boundary to a scale of not more than 1"=200', and clearly show, on multiple maps if necessary: • map scale and date • 100-year floodplain area • surface waters including intermittent streams • surrounding land uses • wind rose • map orientation • legal boundaries • access controls • injection and withdrawal wells (include off-site) • all facility structures • drainage and flood protection barriers • all hazardous waste units • proposed point of compliance • proposed groundwater monitoring wells • identification of uppermost aquifer • extent of any plume of contamination • locations of all solid waste management units	335-14-8-.02(5)(b)19. 335-14-8-.02(5)(c)3. 335-14-8-.02(5)(c)4.(i)-(ii) 335-14-8-.02(5)(d)1.(i)	Section 2.11, pgs. 2-18 to 2-20; Figures 2-21	Section 7.8, pgs. 7-7 to 7-9, Figures 22-26	
Groundwater Assessment Information	335-14-8-.02(5)(c)1.-2.	Section 5, pgs. 5-1 to 5-25; Appendix D	Section 8.4 to 8.5, pg. 8-6	
Summary of data obtained during interim status or the groundwater quality assessment (new applications) and/or during the previous permit period (renewals). One hardcopy and one electronic spreadsheet copy (if possible) of all individual constituent data of all wells and all sampling events should be provided.	335-14-8-.02(5)(c)1.	Section 5.7 – 5.9, pgs. 5-6 to 5-25; Appendix D	Section 8.4 to 8.5, pg. 8-6	

		AWTC	Contiguous Properties	
REQUIREMENT	**ADEM ADMIN. CODE RULE**	**LOCATION IN APPLICATION (SECTION/PAGE #)**		**COMMENTS/ DEFICIENCIES**
Identification of the uppermost aquifer and aquifers hydraulically interconnected beneath the facility, including: • Groundwater flow direction and rate • Basis for identification • Supporting data and calculations If possible, a graphical representation of the following items should be included with a thorough discussion in the application text: • Groundwater flow direction and rate • Uppermost aquifer boundaries • Uppermost aquifer Lithology • Hydraulic interconnections (if any)	335-14-8-.02(5)(c)2.	Section 2.12, pgs. 2-20 to 2-30; Figures 9 to 17	Section 7.9, pg. 7-9	
A description of any existing plume(s) of contamination, including: • 3-dimensional extent of the plume. • Concentrations of each Appendix IX constituent throughout the plume.	335-14-8-.02(5)(c)4. 335-14-8-.02(5)(c)4.(i) 335-14-8-.02(5)(c)4.(ii)	Section 5.7 – 5.9, pgs. 5-6 to 5-25; Figures 18 to 21; Appendix D	Not Applicable	
Groundwater Monitoring System	335-14-8-.02(5)(c)5.	Section 5, pgs. 5-1 to 5-25; Appendix D; OM&M Manual	Not Applicable	
Detailed plans and engineering report describing the monitoring well system: • Number of wells • Well locations • Well Design Specifications and Construction Diagrams • Boring Logs • Assurance of unaffected groundwater measurements	335-14-5-.06(8)	Section 5, subsections 5.1 to 5.3, pgs. 5-1 to 5-4; Appendix B (well logs)	Not Applicable	

		AWTC	Contiguous Properties	
REQUIREMENT	**ADEM ADMIN. CODE RULE**	**LOCATION IN APPLICATION (SECTION/PAGE #)**		**COMMENTS/ DEFICIENCIES**
Proposed Point of Compliance	335-14-5-.06(6)	Section 5.5, pgs. 5-5 to 5-6; Figures 8A and 8B	Not Applicable	
Detection Monitoring Plan (if no hazardous constituents have been detected in groundwater)	335-14-8-.02(5)(c)6.	Not Applicable	Not Applicable	
Proposed list of indicator parameters. List should include, at a minimum: • All Appendix VII constituents for each hazardous waste handled at the facility • Temperature, Specific Conductance, and pH	335-14-8-.02(5)(c)6.(i)	Not Applicable	Not Applicable	
Proposed sampling frequencies for each individual well and indicator parameter. (Optional: ADEM will specify frequency in the permit if no proposal is presented)		Not Applicable	Not Applicable	
Background concentrations or procedures to calculated them	335-14-8-.02(5)(c)6.(iii)	Not Applicable	Not Applicable	
Sampling and Analysis Plan; should included detailed discussion of methods/procedures for: • Sample collection • Groundwater surface elevation measurement • Sampling equipment decontamination • Sample preservation and shipment • Chain-of-Custody control • Field QA/QC • Field documentation of proper sampling procedures • Analytical methods • Laboratory QA/QC	335-14-8-.02(5)(c)6.(iv) 335-14-5-.06(8)(d)	Not Applicable	Not Applicable	

		AWTC	Contiguous Properties	
REQUIREMENT	**ADEM ADMIN. CODE RULE**	**LOCATION IN APPLICATION (SECTION/PAGE #)**		**COMMENTS/ DEFICIENCIES**
Statistical comparison procedures	335-14-8-.02(5)(c)6.(iv) 335-14-5-.06(8)(h)	Not Applicable	Not Applicable	
Compliance Monitoring Plan (if hazardous constituents have been detected in groundwater)	335-14-8-.02(5)(c)7.	Section 5.4, pgs. 5-4 to 5-5; Sections 5.8 to 5.9, pgs. 5-10 to 5-25; Section 6.3, pg. 6-4; Appendix D; OM&M Manual	Not Applicable	
Proposed list of hazardous constituents to be monitored for. List should include, at a minimum: • All Appendix VII constituents for each hazardous waste handled at the facility • Temperature, Specific Conductance, and pH • Any Appendix IX constituents which have been detected in the groundwater	335-14-8-.02(5)(c)7.(iii)	Sections 5.8 – 5.9, pgs. 5-10 to 5-25	Not Applicable	
Proposed concentration limits for each hazardous constituent to be monitored for	335-14-8-.02(5)(c)7.(iii) 335-14-5-.06(5)(a)	Section 5.4, pgs. 5-4 to 5-5; Sections 5.8 – 5.9, pgs. 5-10 to 5-25	Not Applicable	
Proposed sampling frequencies for each individual well and indicator parameter. (Optional: ADEM will specify frequency in the permit if no proposal is presented)		Sections 5.8 – 5.9, pgs. 5-10 to 5-25; Section 6.3, pg. 6.4; Table 9	Not Applicable	
Sampling and Analysis Plan; should included detailed discussion of methods/procedures for: • Sample collection • Groundwater surface elevation measurement • Sampling equipment decontamination • Sample preservation and shipment • Chain-of-Custody control	335-14-8-.02(5)(c)7.(vi) 335-14-5-.06(8)(d)	Sections 5.8 – 5.9, pgs. 5-10 to 5-25; OM&M Manual	Not Applicable	

		AWTC	Contiguous Properties	
REQUIREMENT	**ADEM ADMIN. CODE RULE**	**LOCATION IN APPLICATION (SECTION/PAGE #)**		**COMMENTS/ DEFICIENCIES**
• Field QA/QC • Field documentation of proper sampling procedures • Analytical methods • Laboratory QA/QC				
Statistical comparison procedures	335-14-8-.02(5)(c)7.(vi) 335-14-5-.06(8)(h)	Sections 5.8 – 5.9, pgs. 5-10 to 5-25	Not Applicable	
Corrective Action Plan (if hazardous constituents have been detected in groundwater above regulatory limits)	335-14-8-.02(5)(c)8. 335-14-5-.06(11)	Section 4, pgs. 4-1 to 4-16; Section 6, pgs. 6-1 to 6-9; and OM&M Manual	Not Applicable	Corrective action has been implemented as described in Section 4; OM&M is ongoing as described in Section 6 and OM&M Manual
Detailed plans and an engineering report describing the corrective action system	335-14-8-.02(5)(c)8.(iii)	Section 4, pgs. 4-1 to 4-16; Section 6, pgs. 6-1 to 6-9; and OM&M Manual	Not Applicable	
Detailed description of a groundwater monitoring program for the purposes of evaluating the corrective action effort. This program should contain all the components of a compliance monitoring program	335-14-8-.02(5)(c)8.(iv)	Section 5, pgs. 5-1 to 5-25; Appendix D and OM&M Manual	Not Applicable	
Solid Waste Management Information	335-14-8-.02(5)(d)	Section 2.8, pgs. 2-14 to 2-17; Figures 2B-2C, Figure 5; Table 2	Section 7.6, pgs. 7-5 to 7-7, Table 10	
Description of each unit: • Type of unit • Unit's designation • General dimensions and structural description (engineering drawing, if available) • Time period of operation • All types of wastes handled in the unit	335-14-8-.02(5)(d)1.(i)-(v)	Sections 2.7 to 2.9, pgs. 2-14 to 2-18; Figures 2B-2C; Table 2	Section 7.6, pgs. 7-5 to 7-7, Table 10	

REQUIREMENT	ADEM ADMIN. CODE RULE	AWTC LOCATION IN APPLICATION (SECTION/PAGE #)	Contiguous Properties	COMMENTS/ DEFICIENCIES
Any available information concerning releases from any solid waste management unit	335-14-8-.02(5)(d)2.	Sections 2.7 to 2.9, pgs. 2-14 to 2-18; Table 2	Section 7.6, pgs. 7-5 to 7-7, Table 10	
Results of all sampling and analysis conducted for each unit	335-14-8-.02(5)(d)3.	Sections 2.6.3, 2.7 to 2.9, pgs. 2-13 to 2-18; Table 2	Section 7.6, pgs. 7-5 to 7-7, Table 10 Section 8.1, pgs. 8-1 to 8-5	

PART B APPLICATION

Table of Contents

TABLES

LIST OF FIGURES

LIST OF APPENDICES

LIST OF ACRONYMS AND ABBREVIATIONS

Acronym/ Abbreviation	Definition
ACLs	Alternate Concentration Limits
ADEM	Alabama Department of Environmental Management
AHWMMA	Alabama Hazardous Waste Management and Minimization Act
AMSL	Above Mean Sea Level
AOC	Areas of Concern
ASD	Alabama State Docks
ASPA	Alabama State Port Authority
AWTC	Alabama Wood Treating Corporation
BAP	Benzo(a) Pyrene
bgs	Below Ground Surface
CCA	Copper/Chromium/Arsenate
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code Federal Regulations
CLOMR	Conditional Letter of Map Revision
cm/sec	Centimeter per Second
CMER	Corrective Measures Effectiveness Report
CMI	Corrective Measures Implementation
CMIP	Corrective Measures Implementation Work Plan
CMS	Corrective Measures Study
CSM	Conceptual Site Model
DNAPL	Dense Non-Aqueous Phase Liquids
ECs	Engineering Controls
FEMA	Federal Emergency Management Agency
FSAP	Field Sampling and Analysis Plan
ft	Feet
ft/day	Foot(feet) per day
ft/ft	Foot per foot
ft/year	Feet per year
GWPS	Groundwater Protection Standards
FSAP	Field Sampling and Analysis Plan
HHE	Human Heath and the Environment
HWM	Hazardous Waste Management
ICs	Institutional Controls
ICTF	Intermodal Container Transfer Facility
IM	Interim Measure
JTC	Joint Technical Committee
LF	Linear Feet
LNAPL	Light Nonaqueous Phase Liquids
MCL	Maximum Contaminant Level
MCT	Mobile Container Terminal a.k.a. APM Terminals

Acronym/ Abbreviation	Definition
mg/L	Milligrams Per Liter
mgd	Million Gallons Per Day
MRT	Mobile River Terminal
MSL	Mean Seal Level
MW	Monitoring Well
MWRS	Monitoring Well Recovery System
NAVD	North America Vertical Datum 1988
OM&M	Operation, Maintenance and Monitoring
PAH	Polynuclear aromatic hydrocarbons
PCB	Poly Chlorinated Bi-phenyls
PCP	Pentachlorophenol
PM Ag	PM Agricultural Products
POC	Point of Compliance
POE	Point of Exposure
POTW	Publicly-Owned Treatment Works
PSV	Preliminary Screening Value
RCC	Roller-Compacted Concrete
RCRA	Resource Conservation and Recovery Act
Reilly	Reilly Industries, Inc.
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
RPM	Radiation Portal Monitors
RSL	Regional Screening Level
RW	Recovery Well
RWS	Recovery Well System
Star	Star Enterprise-Texaco
SVOCs	Semi-Volatile Organic Compound
SWMU	Solid Waste Management Unit
TI	Technical Impracticability
TOC	Top of Casing
TPH	Total Petroleum Hydrocarbons
TWIC	Transportation Worker Identification Credential
µg/L	Micrograms per Liter
USEPA	United States Environmental Protection Agency
VSI	Visual Site Inspection
WMA	Waste Management Area

1.0 INTRODUCTION: PART B PERMIT APPLICATION REQUIREMENTS

Section 335-14-8-.02 of the Alabama Department of Environmental Management (ADEM's) Administrative Code establishes the permit requirements for the permit application process for Treatment, Storage, and Disposal Facilities. The general information requirements for the Part B portion of the permit application are specified in Section 335-14-8-.02(5) and those specifically for post-closure permits are specified in Section 335-14-8-.02(19).

The purpose of this submittal is to present the required technical information that will be used as background and serve as the basis for the renewal of the Post-Closure Care Permit for the Alabama Wood Treating Corporation (AWTC) facility. The Alabama State Port Authority (ASPA) AWTC facility in Mobile County, Mobile, Alabama (Figure 1) operates under Alabama Hazardous Waste Management and Minimization Act (AHWMMA) Post-Closure Care and Solid Waste Management Unit (SWMU) Corrective Action Permit number ALD 058 221 326 (Permit), issued on September 30, 2014, with the most recent amendment to the permit effective September 25, 2019. The AWTC facility ceased to operate in 1985; ASPA is the current property owner but never operated the AWTC facility. Redevelopment activities, which are substantially completed, include the construction and operation of the Mobile Container Terminal (MCT). This Resource Conservation and Recovery Act (RCRA) Hazardous Waste Facility Corrective Action Permit Application has been prepared to renew the AWTC facility's Permit. In accordance with the Permit, ASPA is submitting this renewal application at least 180 days prior to expiration of the existing Permit. The updated Part A Permit Application is provided in Appendix A. The remainder of this document (inclusive of attachment and appendices) serves as the AHWMMA Post-Closure Care and SWMU Corrective Action Permit Renewal Application.

Most of the information in this Application was summarized from ASPA reports and/or work plans previously approved or pending approval by ADEM. As appropriate, this Application refers the reader to those other documents. This Permit Renewal Application incorporates in summary detail the corrective action activities performed at the facility during the current Permit period and acknowledges development activities that have been performed during the life of the permit.

Sections 2 through 6 of this application have been prepared to address ongoing post-closure care and corrective action activities at SWMUs associated with operations at the former AWTC facility (Figure 1), as identified in the 1988 RCRA Facility Assessment (RFA).

Sections 7 and 8 of this application have been prepared to address contiguous properties SWMUs and Areas of Concern (AOCs), as identified as part of a Visual Site Inspection (VSI) and RFA in 2002, including an Addendum dated September 21, 2003 (2003 RFA Addendum 1); a VSI and RFA performed in August 2014 as part of issuance of the 2014 Permit (no additional AOCs or SWMUs identified); and a subsequent VSI and RFA in 2019 and 2020. With the exception of the Redline Property (SWMU-11), ADEM previously agreed that no further action was warranted within the parcels that were formerly designated at the contiguous properties identified in the 2002 RFA and 2003 RFA Addendum 1.

ADEM performed a VSI in May 2019 at McDuffie Coal Terminal, Former Mobile River Terminal, and Former Armstrong World Industries LLC. ADEM issued the RFA Addendum for Former Armstrong World Industries LLC in October 2019, which identified the facility as AOC-11. ADEM issued a DRAFT RFA Addendum in November 2019 for McDuffie Coal Terminal and Former Mobile River Terminal, which identified no SWMUs or AOCS at McDuffie Coal Terminal and no SWMUs and one AOC “AOC-12” at Former Mobile River Terminal. The Final RFA Addendum was issued in 2020. Section 7 additionally acknowledges AOCs 11 and 12, for which investigation is ongoing.

2.0 GENERAL DESCRIPTION OF THE FACILITY (335-14-8-.02(5)(b)(1))

A general description of the facility, including historical operations, current land use, and the RCRA/AHWMMA permitting history is provided in the following sections.

2.1 AWTC Site Property Description

The AWTC site is a former wood treating facility consisting of an approximately 14-acre tract of land situated in a heavily industrialized zone along the Mobile River. The site is located at the south end of Old Water Street and south of Virginia Street, approximately one-half mile east of Interstate 10, as shown in Figure 1. A plan view of the AWTC site during active operations is provided in Figure 2A. The site consisted of three parcels:

- A small rectangular segment on the west side of Old Water Street
- A large triangular segment on the east side of Old Water Street and north of the multiple railroad tracks
- A thin strip south and east of the railroad tracks and abutting the Mobile River

Geographical coordinates of the center of the facility are approximately latitude 30°40'08" North and longitude 88°02'20" West. The “Physical” Address of the facility is 68 Virginia Street, Mobile, Alabama 36603.

2.2 Facility Description

Under ADEM Administrative (Adm.) Code 335-14-1-.02-101, the following definition applies to the AWTC facility:

101. “Facility” or “hazardous waste management facility” or “HWM facility” means:

(i) All contiguous land, and structures, other appurtenances, and improvements on the land, used for treating, storing, or disposing of hazardous waste. A facility may consist of several treatment, storage, or disposal operational units (e.g., one or more landfills, surface impoundments, or combinations of them).

(ii) For the purpose of implementing corrective action under 335-14-5-.06(12), all contiguous property under the control of the owner or operator seeking a permit under Chapter 30 of Title 22, Code of Ala. 1975 (AHWMMA). This definition also applies to facilities implementing corrective action under §22-30-19 et seq., Code of Ala. 1975 and/or RCRA Section 3008(h).

To comply with ADEM Adm. Code 335-14-5-.06(12) and relative to the definition of facility, the ASPA has identified the facility boundary area as:

> (i) the areas where hazardous waste was treated, stored or disposed of and only those areas of contiguous property owned and controlled by ASPA that are required for corrective action;
>
> (ii) the original boundaries of the AWTC facility itself, plus those areas of contiguous property owned by ASPA required for implementing corrective action; and
>
> (iii) the original AWTC facility, plus offsite areas of the original AWTC facility that have been identified as AOCs or SWMUs or where hazardous waste in connection with the AWTC facility has been treated, stored or disposed of, plus any areas of contiguous property owned by ASPA required for implementing corrective action.

Through Section 335-14-5-.06(12), ADEM requires that "the owner/operator implement corrective action as necessary to protect human health and the environment for all releases of hazardous waste or constituents from any [SWMU] at the facility regardless of the time at which the waste was placed in such unit." Consistent with the permit, a SWMU includes “any unit which has been used for the treatment, storage or disposal of solid waste at any time, irrespective of whether the unit is or ever was intended for the management of solid waste.” The facility boundary is shown on Figure 2B. This defined area encompasses:

- The former operations areas of the AWTC facility
- The identified SWMUs and AOCs per the 1988 RFA
- The Waste Management Area (WMA) that circumscribes the several SWMUs (further defined in Section 2.9)
- The point of compliance (POC, defined in Section 5.5)
- The downgradient limit of the contaminant plume
- The point of exposure (POE, defined in Section 5.6, the location of potential contact between a receptor [human or ecological] and the chemicals of concern)

2.3 Documentation of Political Jurisdiction (335-14-8-.02(5)(b)(11)(i))

The entire AWTC facility lies within the political jurisdiction and incorporated boundaries of the City of Mobile, Mobile County, Alabama (see Figure 1). The site is located in Mobile County, State Senate District 35, House District 97.

2.4 Current and Future Land Use

The AWTC site has been in industrial land use since 1906. The site is bordered to the east by the Mobile River and is situated in an industrial zone primarily owned by ASPA. Other surrounding properties consist of active and inactive bulk storage terminals and rail lines. The historical site is bordered to the north and northwest by the demolished Star Enterprise-Texaco (Star) petroleum bulk storage terminals. Also to the west is the former Shell Oil petroleum bulk storage terminal that was operated by Radcliff/Economy Marine Services. This facility was also demolished as part of the planned economic redevelopment of the Port of Mobile. To the south, the property was bordered by the former PM Agricultural Products (PM Ag) and McKenzie Tank Lines, Inc. facilities. These parcels are now owned by ASPA (formerly known as the Alabama State Docks (ASD)) and have been redeveloped as part of the MCT. The eastern edge of the site is bounded by the Mobile River. Figure 2C shows the location of these former businesses in relation to the AWTC facility and shows a current depiction of the AWTC facility and surrounding area.

2.4.1 Current Site Status

The site was redeveloped and currently operates as the MCT. The first phase of the MCT opened in September 2008 as the Port of Mobile's newest, state-of-the-art marine terminal. The ASPA and Mobile Container Terminal LLC jointly invested in the new container terminal. The MCT is a joint venture between Alabama State Port Authority and APM Terminals, a division of A.P. Moller-Maersk. The 135-acre marine terminal provides containerized cargo shippers with access to global networks covering all possible trade routes to and from the Port of Mobile. Mobile Container Terminal LLC operates the terminal.

The site is paved with concrete and/or asphalt. The corrective action well network was constructed in well vaults and is protected from the site activities. Access is strictly controlled as part of the container port activities.

2.4.2 Surrounding Land Use

Mixed residential, commercial, and urban areas are located approximately one-half mile to the west. The nearest residence is approximately one-quarter mile northwest (e.g., upgradient) of the AWTC facility. Zoning at the AWTC facility and the adjacent properties is Heavy Industrial (I-2). The surrounding land use is shown on Figure 3.

2.4.3 Future Land Use

Consistent with the corrective action activities and the redevelopment activities that have been implemented, ASPA is committed to a future land use that is exclusively industrial. Figure 4 shows a representation of the completed and planned development activities within the facility boundary. The facility has plans and procedures in place to address reasonably foreseeable potential releases and potential pathways for exposure. The corrective action and the operation, maintenance, and monitoring (OM&M) activities are described in this Application and promote actions to protect human health and the environment. Institutional Controls (ICs) and Engineering Controls (ECs) to maintain current industrial use are already in place to limit exposure at the facility; they will continue to be maintained. On September 6, 2016 ASPA filed an Environmental Covenant for the AWTC facility as Book LR 7421, Page 507 with the Office of the Judge of Probate of Mobile County, Alabama. The covenant included an industrial or commercial land use only use restriction; prohibition of the use of groundwater as a potable source or for irrigation, industrial, and agricultural application purposes; and prohibition on covenant-specific construction or disturbance of certain areas without notification to and approval from ADEM. As part of corrective actions already implemented and as required in the covenant, fencing and signage is in place and maintained. Additionally, as part of the MCT development, the entire site is a restricted-access area controlled by Port security. These measures are described in more detail in the following sections of this Application.

2.5 Facility History

2.5.1 Ownership and Operation History

Wood treating operations were conducted at the AWTC facility from 1906 until 1985. The Owner/Operator history for the facility for that period is summarized in the following table and detailed below.

Owner	Period	Operator	Period
Illinois Central Railroad (now Canadian National Railway)	1906 to 1976 (70 years)	Reilly Industries	1906 to 1972 (66 years)
Alabama State Docks (now ASPA)	1976 to 1985 (9 years)	AWTC	1972 to 1985 (13 years)

The site owner from 1906 until 1976 was the Illinois Central Railroad (Illinois Central) or subsidiary or predecessor corporations to Illinois Central (now Canadian National Railway).

These corporations include the GM&O Railroad that merged with the Illinois Central Railroad in 1972. In 1976, the property was deeded to ASD (now ASPA) as part of a larger land acquisition. This deed was subject to the existing lease for the ongoing wood treating operation. Therefore, ASPA was owner of the site during the nine-year period from 1976 to 1985 while wood treating processes were conducted (as part of an in-place lease agreement of acquisition) and has maintained ownership to date. ASPA continues to be the owner of the facility.

The operation of the wood treating facility from its opening in 1906 until 1972 was conducted by subsidiary or predecessor corporations to Reilly Industries, Inc. (Reilly). These corporations include Republic Creosoting Company and Reilly Tar & Chemical Corporation. In 1972, the AWTC bought the facilities and equipment from Republic Creosoting and assumed operation of the wood treating activities. AWTC operated the creosote and pentachlorophenol wood treating facility until 1985. The AWTC no longer exists as a viable corporate entity.

2.5.2 Facility Process Information

Active wood treating operations were conducted at the AWTC facility for approximately 80 years. During that period, various facility configurations and operations existed on the site. Past facility configurations have been documented by review of Sanborn Fire Insurance Rate Maps from 1904 through 1980 and aerial photography from 1952 through 2001/2002. While new units were added during this period, the operational areas and facility layout remained generally consistent. Specific modifications, such as the addition of the surface impoundments during the AWTC operating period, can be documented from these sources.

The following activities were conducted at the facility during various periods from 1906 until 1985:

- Coal tar refining/creosote manufacturing
- Creosote product storage
- Creosote wood treating
- Pentachlorophenol wood treating

While both creosote and pentachlorophenol were used to treat various wood products, copper/chromium/arsenate (CCA) preservatives were never used at the AWTC facility. The relative proportion of creosote and pentachlorophenol use varied from year to year. However, over the period of operation, creosote was the principal preservative.

The AWTC site is near the confluence of the Mobile River with Mobile Bay at Choctaw Point and north of McDuffie Island (Figure 1). All wood treating operations were confined to the property north and east of Old Water Street (Figure 2A). The treating operations that were conducted at the facility were typical for wood treating facilities, where raw timber was placed on tramcars and subsequently moved into pressure cylinders. The timber was then subjected to vacuum, steam, and pressure cycles to impregnate the timber with preservative. When the treatment was complete, the pressure was released, and the finished timber was removed. As many as four pressure-treating cylinders were used for treating operations at the AWTC facility. The excess preservative was pumped under vacuum back into the preservative tank before the wood was removed from the cylinder. Once removed from the cylinders, the treated wood was moved onto the drip-track pad.

Preservative and condensed steam wastewater remaining in the treatment cylinders was collected in a sump beneath the cylinders and pumped to the oil/water separator, which was located south of the cylinder building. The recovered preservative was reused, and the wastewater was discharged directly to two baffled vats for separation of carry-over preservative before final discharge of the wastewater. The discharge was to a drainage ditch that led along the railroad tracks to the southwest, off-site to the west, and eventually to the Mobile River. The separated creosote was collected in the vats and periodically pumped into the working preservative tank for reuse.

In the early 1970s, two surface impoundments were constructed southwest of the plant site to receive wastewater previously discharged to the baffled vats and drainage ditch. The surface impoundments allowed the separation of wastewater from the preservative, which was periodically recovered for reuse. The unlined, soil-berm surface impoundments had an approximate depth of 6.5 feet and an area inside the berms of approximately 18,700 square feet. Operation of these surface impoundments was subject to RCRA permitting as Hazardous Waste Management Units. Closure of the surface impoundments was completed in 1990.

Once removed from the drip pad area, the treated wood products were transferred to one of two storage locations roughly 200 feet east and southeast of the former pressure treating area. The locations of these storage areas were situated on both sides of the railroad tracks. These areas were also used to store raw timbers.

Creosote was delivered to the former wood treating facility and unloaded near the docks area along the Mobile River, which is directly east of the plant operations areas. Creosote and pentachlorophenol could be received by rail or barge. A single rail spur formerly extended to this area. This rail track extended onto the pier that was present at the northern facility boundary. Remnants of the pier pilings were visible in the river prior to the redevelopment activities associated with the MCT. A second docking location was present in the middle of the eastern site boundary (e.g., approximately 150 feet south of the northern property line and former pier). This docking point was used to pump product from barges to the process area. This second unloading area, which was documented through aerial photographs, appears to have consisted of buoys for mooring points and surface hoses or pipes for product transfer onto shore. Both of these areas have been redeveloped as part of construction of the new wharf for the MCT.

The structures from the former treating operations are no longer present on the facility. The storage tanks, vats, pressure vessels, and associated building structures and foundations were dismantled and removed during site closure activities in 1986. With the exception of the area west of Ezra Trice Boulevard (SWMU-6 West), the entire AWTC facility has been redeveloped as the MCT. SWMU-6 West has also been capped with asphalt and fenced as part of the corrective measures.

Other industrial operations were active surrounding the former AWTC. Both the Star facilities and the former Shell facility were petroleum storage (oil products) and marketing terminals. These properties have documented groundwater contamination related to petroleum releases. The PM Ag facility was used primarily for the storage and formulation of animal feedstuffs but has also been used for the storage and transfer of other substances. The storage and on-site disposal of pulp and paper industry-related wastes have triggered RCRA activities at the facility, including active remediation. McKenzie Tank Lines was a storage and distribution terminal that handled several products under several facility operators. ADEM issued a draft administrative order to McKenzie in January 1998 citing past releases and demonstrated groundwater contamination. The draft order required the submission of a groundwater quality assessment report and a liquid-phase recovery plan. P&H Construction and Norden Industries were located in close proximity to the former AWTC site and are further discussed in Section 7. ASPA owns rail lines and adjacent rights-of-way that run along the western (SWMU-6 West) and southern border of the site.

2.5.3 RCRA Permitting History - Hazardous Waste Management

The AWTC submitted a RCRA Part B RCRA/Alabama AHWMMA permit application for the AWTC facility in November 1984. ADEM's review of the application ultimately resulted in the issuance of a RCRA Complaint and Compliance Order to AWTC to cease and desist from wood treating activities. The facility ceased operations in 1985 when the ASD (now ASPA) was successful in obtaining an order from the State Circuit Court to evict AWTC from the site. ASD also initiated civil actions against AWTC, Illinois Central, and Reilly Industries concerning potential environmental liabilities from past operation and ownership of the AWTC facility. As part of an agreement to stay that litigation, a committee of principal responsible parties was formed in 1986 to jointly address environmental concerns for the facility. This committee, called the Joint Technical Committee (JTC), was composed of representatives from ASPA, Reilly Industries, and Illinois Central. The agreement that formed the JTC required unanimity for all actions and prohibited unilateral communication by any of the participants with regulatory agencies.

The JTC managed site investigation and RCRA closure activities for the AWTC facility until the committee was dissolved in August 1997 with the withdrawal of ASPA. ASPA’s stated purpose for withdrawing from the JTC was to initiate open and direct communication with ADEM and to facilitate the timely initiation and completion of additional actions at the AWTC facility.

While under JTC management, a Closure Plan was prepared and implemented for closure of the regulated units (i.e., two surface impoundments). Closure of the regulated units was certified in 1990. In 1991, a Post-Closure Care Permit was jointly issued by ADEM and the United States Environmental Protection Agency (USEPA) Region IV. The permit was issued to address post-closure care of the closed surface impoundments and corrective action for groundwater contamination at the facility, including provisions requiring corrective action, if needed for SWMUs at the Facility. The AWTC facility operated under that Post-Closure Permit for 10 years. In March 2001, ASPA submitted a Permit Renewal Application to ADEM. ADEM and ASPA agreed that the best overall approach would be to wait until the Corrective Measures Study (CMS) and Corrective Measures Implementation (CMI) were completed so that the permit renewal would incorporate the approved corrective measures. Therefore, the March 2003 Revised Permit Renewal Application incorporated the corrective measures activities per the CMS (September 2001) and CMI Work Plan (CMIP) (February 2003). A renewed permit was issued by ADEM effective August 25, 2003 (2003 Permit).

Two permit modifications were issued prior to the September 30, 2014 permit renewal. Permit Modification 1, effective May 2, 2008, was issued to address changes to the final design of the RCRA concrete cap in place at SWMUs-2 and -7. This permit modification also incorporated changes to the CMIP to address changes in facility use and design associated with development activities to build the container terminal port. These activities included the addition of a roller-compacted concrete cover over a significant footprint of the former process areas of the AWTC facility, and construction of a wharf and sheet pile wall along the frontage of the Mobile River, near SWMU-8. Permit Modification 2, effective September 16, 2011, was issued to address a railroad track realignment in the area of SWMU-6 West, known as the Ezra Trice Bypass Rail Tracks project.

In February 2013, ASPA submitted a Permit Renewal Application to ADEM, which was then revised in October 2013 and July 2014 before the permit was renewed on September 30, 2014. The September 30, 2014 permit was amended effective on August 13, 2018 (Modification 1), August 24, 2018 (Modification 2), and September 25, 2019 (Modification 3). Permit Modification 1 was issued to reflect the addition of two newly acquired parcels associated with the contiguous properties, the addition of detected Appendix IX constituents, revision to the groundwater protection standards for specific constituents based on calculated alternate concentration limits, revision to the Contingency Plan updated to include personnel changes, and revision to groundwater tables to reflect the extension of the monitoring wells (9-I, 16-I, and 16-D) and piezometer (PZ-16-S) located at the MCT. Permit Modification 2 updated facility contact information, corrected grammatical errors/typos, and revised Section 4 of the permit application. Permit Modification 3 was issued to remove a sold parcel of contiguous property and correct minor errors on contiguous property maps. Documentation demonstrating this filing is included in Appendix C.

2.5.4 RCRA Corrective Action Process

Monitoring and investigation activities have been performed at the AWTC facility since 1985. An AWTC facility closure plan was approved by ADEM in October 1986, and closure of the former process area and surface impoundments was conducted from 1987 through 1990. Based on requirements of the 1991 Post-Closure Care Permit, ASPA was required to identify SWMUs and to implement corrective actions as necessary for those SWMUs.

For the AWTC facility, the RCRA Corrective Action Process consists of the following activities conducted in a controlled, stepwise approach under oversight and approval of the authorized regulatory agency:

- RCRA Facility Assessment (RFA)
- RCRA Facility Investigation (RFI)
- Corrective Measures Study (CMS)
- Corrective Measures Implementation (CMI)

In accordance with RCRA permit requirements, an RFA was conducted for the AWTC facility in 1988 to identify all SWMUs and other AOCs at the AWTC former wood treating facility. The RFA resulted in the identification of eight SWMUs (i.e., two regulated units and six other SWMUs) and one AOC as summarized below:

- SWMU-1 - Former Wastewater Pretreatment Plant Tanks,
- SWMU-2 - Surface Impoundment (SWMU-2 was one of two regulated units at the AWTC facility subject to the RCRA permitting program and was formally closed in 1990 in conjunction with the closure of the other regulated unit, SWMU-7.)
- SWMU-3 - Drum Storage Unit.
- SWMU-4 - Former Plant Operations and Storage Area.
- SWMU-5 - Wood Product Storage Area.
- SWMU-6 - Drainage Ditch to Mobile Bay.
- SWMU-7 - Overflow Impoundment Area, (SWMU-7 was one of two regulated units at the AWTC facility subject to the RCRA permitting program and was formally closed in 1990 in conjunction with the closure of the other regulated unit, SWMU-2.)
- SWMU-8 - Former Creosote Unloading Area
- AOC-1 - Mobile Drum Storage Unit

The formal RCRA Corrective Action Process was detailed in the *July 2005/Revised March 2011 Final Corrective Measures Implementation Report* (MACTEC, 2011) and associated CMI Addendum report submittals.

Sections 2.7 and 2.8 provide details and the status of the AWTC SWMUs. Details of the remaining components of the RCRA Corrective Action process are presented in Sections 3 through 6 of this application.

2.6 Waste Characteristics - Chemical and Physical Analysis of the Waste (335-14-8-.02(19)(a,b)); (335-14-8-.02(5)(b)(2,3))

2.6.1 Description of Hazardous Waste Generated

Creosote and pentachlorophenol were used as preservative agents, but CCA processes were not used at the AWTC facility.

2.6.1.1 Creosote

Creosote is produced as a distillate from coal tar and is a variable mixture of hundreds of compounds, primarily semi-volatile organic compounds (SVOCs). In wood preserving applications, creosote may be used either full-strength or diluted with petroleum. Undiluted creosote is denser than water and typically migrates vertically downward as a dense non-aqueous phase liquid (DNAPL). Polynuclear aromatic hydrocarbons (PAHs) are SVOCs that generally account for 85 percent (by weight) of the chemical constituents of undiluted creosote (USEPA, 1992). The predominant PAHs in creosote have two to four aromatic rings, but larger compounds are also present. Some major components (percent by weight) of creosote are as follows (USEPA, 1990, 1992):

Acenaphthene	Fluoranthene
Acenaphthylene	Fluorene
Anthracene	2-Methylnaphthalene
Carbazole	Naphthalene
Chrysene*	Phenanthrene
Dibenzofuran	Pyrene

All compounds listed above are PAHs, except for carbazole and dibenzofuran. In addition, many of the lower-concentration components of creosote are also PAHs. Those having substantial environmental significance are listed below:

Benz(a)anthracene*	Dibenz(a,h)anthracene*
Benzo(b)fluoranthene*	Benzo(g,h,i)perylene
Benzo(k)fluoranthene*	Indeno(1,2,3-cd)pyrene*
Benzo(a)pyrene*	

The USEPA Office of Health and Environmental Assessment has listed six of these lower-concentration PAH creosote components (*) as well as chrysene as probable human carcinogens (USEPA, 1993).

2.6.1.2 Pentachlorophenol

The pentachlorophenol solutions used in wood preserving are prepared by dissolving technical-grade pentachlorophenol (PCP) in oil to produce a solution that is 4 to 8 percent PCP. Unlike creosote, PCP is a specific, individual compound. However, commercial formulations include a significant quantity of non-PCP contamination. Even technical-grade PCP is a mixture of compounds and contains 85 to 90 percent PCP; 2 to 6 percent higher molecular weight chlorophenols; 4 to 8 percent 2,3,4,6-tetrachlorophenol; and about 0.1 percent polychlorinated dibenzodioxins and polychlorinated dibenzofurans (USEPA, 1990, 1992).

Pentachlorophenol is slightly soluble in water (2 milligram per 100 milliliters) but very soluble in oil. Consequently, PCP-oil solutions that leach into the ground often collect as light nonaqueous phase liquids (LNAPLs). Pentachlorophenol itself has a specific gravity of 2.0 (water = 1.0) and adheres strongly to soil. The extent of adsorption is influenced by organic content, pH, and soil type, with high organic content correlating most strongly with increased adsorption (USEPA, 1992). Pentachlorophenol contamination is often concentrated in near surface soils.

2.6.2 Hazardous Waste Codes

Hazardous wastes generated at the AWTC facility have included surface impoundment sludges, contaminated soil, and debris and have been manifested under three waste codes: K001, F032, and F034. The RFA also listed two other potential waste codes: U051 and F027. The regulatory definition of these codes is summarized below:

K001 – Bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote and/or pentachlorophenol.

F032 – Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that currently use or have previously used chlorophenolic formulations (except potentially cross-contaminated wastes that have had the F032 waste code deleted in accordance with 335-14-2-.04(6), or potentially cross-contaminated wastes that are

otherwise currently regulated as hazardous wastes [i.e., F034 or F035], and where the generator does not resume or initiate use of chlorophenolic formulations). This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.

F034 – Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use creosote formulations. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.

F027 – Discarded unused formulations containing tri-, tetra-, or pentachlorophenol or discarded unused formulations containing compounds derived from these chlorophenols. This listing does not include formulations containing hexachlorophene synthesized from pre-purified 2,4,5-trichlorophenol as the sole component.

U051 – Creosote - Waste has been generated at the AWTC facility during two distinct phases: closure and post-closure. Closure wastes were generated in 1989 and were manifested as K001 sludge and soil and debris contaminated with K001. Post-closure wastes have generally been soil and debris and have been manifested as either F032 or F034 wastes depending upon the presence of pentachlorophenol.

2.6.3 Analysis of Waste

Table 1 summarizes analytical data for selected parameters from three waste types at the AWTC facility. The data for the K001 sludge analysis was included in the 1989 Post-Closure Permit Application and is indicative of the chemical constituents in the surface impoundment sludge. The F034 soil analyses are from the creosote unloading area (SWMU-8) and the product storage area (SWMU-5). The F032 analysis is of highly contaminated near surface sediments in the drainage ditch (SWMU-6). This sample was collected and analyzed as part of the CMS to evaluate appropriate remedial action alternatives.

2.7 Regulated Units

There are two regulated units identified at the AWTC facility:

- SWMU-2 - Surface Impoundment

- SWMU-7 - Overflow Impoundment Area

These two surface impoundments were constructed by AWTC after acquisition of the operation from Reilly Industries in 1972. The impoundments were unlined and surrounded by soil berms. Formal closure of the two regulated units was completed in 1990. Both units are shown on the site topographic maps and Figure 5. Both units contained K001 sludge.

The primary surface impoundment, SWMU-2, had a surface area of approximately 18,700 square feet and a maximum depth of 6.5 feet from the top of the berm to the hard bottom of the impoundment. This elevation is seasonally below the shallow zone groundwater potentiometric surface. Prior to closure, SWMU-2 had a sludge depth of approximately 3.5 feet. The surface impoundment was utilized as a sludge settling pond prior to the discharge of wastewater to the adjacent drainage ditch (SWMU-6).

SWMU-7 was abandoned, excavated, and covered prior to the end of plant operations in 1985, but a soil pile from the contaminated berm was removed during the formal closure process. The estimated surface area of SWMU-7 is approximately 7,000 square feet. SWMU-7 managed overflow wastewaters and stormwater from SWMU-2. ASPA was not able to determine from existing documentation, the bottom of the overflow impoundment. Existing conditions from a topographic survey in approximately 1988 depict the vicinity of SWMU-7 from approximately elevation 6 feet (bottom) to approximately elevation 12 feet (top of berm). The topographic survey was performed after operations ceased.

2.8 Solid Waste Management Units (335-14-8-.02(5)(d))

In addition to the two regulated units (SWMU-2 and SWMU-7), six additional SWMUs and one AOC were identified in the 1988 RFA. These units are shown on the site topographic maps and Figure 5 and include:

- SWMU-1 - Former Wastewater Pretreatment Plant Tanks
- SWMU-3 - Drum Storage Unit
- SWMU-4 - Former Plant Operations and Storage Area
- SWMU-5 - Wood Product Storage Area
- SWMU-6 - Drainage Ditch to Mobile Bay
- SWMU-8 - Former Creosote Unloading Area
- AOC-1 - Mobile Drum Storage Unit

These areas are described below, with additional details and SWMUs status provided on Table 2.

SWMU-1, the Former Wastewater Pretreatment Plant Tanks, consisted primarily of four aboveground pretreatment tanks and associated equipment and was located in the western part of the facility near the office trailer. Three tanks were upright steel cylinders with a total volume capacity of approximately 2,280 cubic feet or 17,000 gallons. The tanks were used by AWTC for oil/water separation. The fourth tank was an upright steel cylinder with a total volume capacity of approximately 685 cubic feet or 5,000 gallons and was reportedly used by AWTC for fuel storage. The exact date of construction is not known but was after September 1979 based on aerial photos. The wastewater treatment system was used after 1985 to treat wastewater and stormwater from the surface impoundments until the impoundments were closed.

SWMU-3, the Drum Storage Unit, was located next to the wastewater treatment tank and was used to accumulate 55-gallon drums of spent activated carbon from the wastewater treatment operations. At the time of the 1988 RFA, less than one dozen drums were present. The drums were transported for off-site disposal by trailer (AOC-1). SWMU-3 had no permanent structures and consisted of only drums and wooden pallets. The period of operation presumably coincided with that of the wastewater treatment operation.

SWMU-4, the Former Plant Operations and Storage Area, was located in the north-central part of the facility and is approximately 163,000 square feet in area. SWMU-4 was the site for most of the wood treating, coal-tar refining, and chemical storage operations. Prior to 1986, the area contained wood-treating pressure vessels, storage tanks, a buried rail car and tanks, a wooden channel for process waters, wood- and oil-fueled boilers, and other building structures. In 1986, these structures, as well as the foundations and surface soils, were removed from SWMU-4. Operations in this area began in 1906 and continued through 1985. Wastes would have included spills and drippage from the production operations as well as boiler blowdown.

SWMU-5, the Wood Product Storage Area, consisted of two parcels on the southern side of the service road that are divided by multiple railroad tracks. The western and eastern areas were approximately 126,000 and 6,450 square feet, respectively. The areas were apparently used throughout the life of the facility. Both treated and untreated wood storage occurred in these areas. Contamination occurred primarily by drippage of preservative from the treated wood products prior to shipment. SWMU-5 had no permanent structures.

SWMU-6, the Drainage Ditch to Mobile Bay, received wastewater, sludge, and process discharge from the surface impoundments (SWMUs-2 and -7) and the plant operations area (SWMU-4). This drainage ditch originated at the closed surface impoundments and proceeded to the west and northwest, towards Ezra Trice Boulevard, for approximately 500 feet. At Ezra Trice Boulevard, the drainage ditch split with one channel proceeding southerly along the eastern side of the road for approximately 1,800 feet to Choctaw Pass. SWMU-6 had intermittent water flows in these segments associated with storm events. The other channel crossed under the road and continued west for approximately 900 feet to a confluence with an urban drainway referred to as Tennessee Branch or the Southern Drain. Stream flow was generally present in this western segment of SWMU-6, as base flow was augmented by drainage from properties to the north. The original path of this ditch appeared to have been dictated by the railroad beds that were in place before operations began in 1906. However, the subsequent construction of Ezra Trice Boulevard and the rail tracks to McDuffie Island modified the ditch location. Portions of this ditch near the closed surface impoundment contained sediments contaminated with creosote and pentachlorophenol.

SWMU-8, the Former Creosote Unloading Area, was located next to the Mobile River at the eastern end of the facility. Creosote was reportedly received by barge at dock facilities. Operations also included product transfer by railcar. The exact dates of operation are not known, but the period of operation appears to have been decades long.

During river reclamation activities in January 2006, an area of site-related creosote contamination was discovered immediately north and west of the discharge point of the northern ditch. As noted in an ASPA letter of February 17, 2006: “[i]n the area between the original shoreline and the new bulkhead, we are in the process of placing fill material. Due to the high moisture content of soils that were previously water bottoms, we are installing wick drains. The purpose of wick drains is to increase the shear strength of the underlying soft soils. As the soil consolidates, the shear strength increases due to a reduction in the water content. During the installation of these wick drains, we have discovered a previously unknown area of creosote release.” After consultation with ADEM, and upon completion of recovery and offsite disposal of accumulated creosote in May 2006, a geotextile cover was placed over the area prior to fill placement. This area is generally considered an extension of the original estimated limits of SWMU-8 and is identified as a combined SWMUs-4, 5 and 8 designation.

AOC-1, the Mobile Drum Storage Unit, was a flatbed tractor-trailer that was parked near the AWTC site entrance during the 1988 RFA. There was no evidence of leakage or spills at this mobile unit that was reportedly used to transport drummed site waste. The unit was removed from the facility and the regulatory process.

2.9 Hazardous Waste Management Area

Under RCRA and AHWMMA, the WMA is defined as the limit of the horizontal plane of the area on which waste will be placed during the active life of a regulated unit. Furthermore, if a facility contains more than one regulated unit, the WMA is described by an imaginary line circumscribing the several regulated units.

The hazardous WMA concept is normally applied to regulated units and not SWMUs. However, under other regulatory programs (e.g., Comprehensive Environmental Response, Compensation, and Liability Act [CERCLA]), this distinction is not made. In addition, ADEM regulations allow alternate requirements under certain conditions. Per ADEM Adm. Code 335-14-5-.06(1)(f), it is possible under specific conditions to establish alternate requirements for groundwater monitoring, including the establishment of an alternate WMA boundary:

> 335-14-5-.06(1)(f): Department may establish alternative requirements for groundwater monitoring and corrective action for releases to groundwater when the Department determines that:
>
> (1) The regulated unit is situated among solid waste management units (or areas of concern), a release has occurred, and both the regulated unit and one or more solid waste management unit(s) (or areas of concern) are likely to have contributed to the release; and
>
> (2) It is not necessary to apply the groundwater monitoring and corrective action requirements of 335-14-5-.06(2) through (11) because alternative requirements will protect human health and the environment.

The AWTC meets the specific situation described at 335-14-5-.06(1)(f)(1). The regulated units at the AWTC facility are situated among SWMUs where releases occurred, and both the regulated units and the SWMUs contributed to the release. Groundwater investigations have indicated that the contaminant plumes from the SWMUs have dispersed and mixed and cannot be reliably differentiated (Section 5.7.1). At the AWTC facility, the SWMUs and Regulated Units are generally collocated; the releases from the SWMUs and regulated units are indistinguishable and have commingled to jointly contribute to groundwater contamination.

Therefore, ADEM has accepted a WMA that encompasses both SWMUs and Regulated Units as shown on Figure 2B.

2.10 100-Year Floodplain Standard

ADEM Adm. Code 335-14-8-.02(5)(b)(11)(iii) and (iv) require specific information regarding the 100-year floodplain. This is defined by the 1-percent-annual-chance Special Flood Hazard Area (SFHA) and the Base Flood Elevations (BFEs) on Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Map (FIRM) for Mobile, County Alabama. Prior to construction of the MCT, the entire AWTC facility was within the SFHA, effective March 17, 2010. Since MCT construction, a new flood study was released on June 5, 2020, which depicts the MCT located within the SFHA. Although the 2020 SFHA boundary shows the MCT still within the SFHA, the elevation of the facility is approximately 14 feet (see Figure 5), above the BFE of 12 feet depicted on the FIRM. The discrepancy between mapped inundation boundary and BFE is due to the topographic data utilized in the flood study and mapping scale. SWMU-6 West, as part of the CMI, was surfaced with asphalt at an approximate elevation of 9 feet and remains below the BFE of 12 feet. Given the asphalt surface at SWMU-6 West, the effects of flooding are expected to be negligible on the cover surface.

2.11 Topographic Maps (335-14-8-.02(5)(b)(19))

Various sections of the regulations require that specific information be displayed on topographic maps as part of the Post-Closure Permit Application (e.g., 335-14-8-.02(5)(b)(19), (c)3, (c)4.(i)-(ii) and (d)1.(i). These requirements include that the maps must show a distance of 1,000 feet beyond the facility boundary to a minimum scale of 1 inch per 200 feet and show:

- Map scale and date
- 100-year floodplain area
- Surface waters and intermittent streams
- Surrounding land uses
- Map orientation
- Legal boundaries
- Access controls
- Injection and withdrawal wells
- All facility structures
- Drainage and flood protection barriers
- All hazardous waste units
- Location of all SWMUs

The above items for the AWTC facility are included in Figures 2A through 8B of this application. Because of the amount of information to be provided on the topographic maps and the size of the AWTC, several figures are necessary to display the required information.

The table below indicates where the information can be found.

Topographic Map Requirement	**Location and Information**
Map scale and date	Shown on all figures
100-year floodplain area	Shown on Figure 6
Surface waters including intermittent streams	Shown on Figure 7
Surrounding land uses	Shown on Figure 3
Wind rose	Shown on Figure 5
Map orientation	Shown on all figures
Legal boundaries	Shown on Figure 2B and Figure 8B. Legal Boundaries for individual parcels are not shown.
Access controls	Shown on Figure 5. Additional access controls including covenant are discussed in Sections 4.4 and 6 of the Part B Application.
Injection and withdrawal wells (include off-site)	The location of DNAPL Recovery Wells are shown on Figure 8B.
All facility structures	Location of facility structures are shown to the extent possible on Figures 5 and 8B.
Drainage and flood protection barriers	Drainage shown on Figure 7. Flood protection barriers are not applicable.
All hazardous waste units	Shown on Figures 2A and 2B
Point of compliance	Shown on Figure 8B
Monitoring wells	Shown of Figure 8B
Identification of uppermost aquifer	The uppermost aquifer is identified in the geologic cross sections in Figures 10 and 11 of the Part B Application.
Extent of any plume of contamination	Shown on Figure 21
Locations of all SWMUs	Shown on Figure 2B, 5, and 8B

Figures 9 through 24 combine to show the following additional information:

- Groundwater flow direction and estimated rate (Figures 12 through 17)
- On-site and off-site groundwater monitoring wells (Figures 8B, 21 and 22)
- Delineation of the extent of the plume (Figure 21)
- Locations of uppermost aquifer and aquifers hydraulically inter-connected beneath the facility. This is discussed in Section 2.12 and depicted on Figures 9 through 11.

2.12 Characterization of the Uppermost Aquifer (335-14-8-.02(5)(c)(2))

The geology and hydrogeology of the AWTC facility were described in several site investigation reports previously submitted to ADEM. The following sections summarize site geologic and hydrogeologic characteristics.

2.12.1 Geology

2.12.1.1 Regional Geology

All of southwestern Alabama lies within the East Gulf Coastal Plain physiographic province. Mobile is underlain by terrace and alluvial deposits in the floodplain of the Mobile River at elevations ranging from 5 to 30 feet above mean sea level (AMSL). West of the city, the topography rises to an elevation of about 200 feet AMSL and is capped by the sand and gravel of the Citronelle Formation of Pliocene or early Pleistocene age. The Citronelle Formation is underlain unconformably by sandstones, sand, and dark clay of Miocene age. The erosional processes of the Mobile River in the Mobile area have reduced the land surface below the base of the Citronelle, so that the alluvial deposits probably lie disconformably on sediments of Miocene age (Chandler and Moore, 1983).

The upper part of the alluvial deposits typically consists of humus-rich, organic matter and carbonaceous clay. The clay grades downward into fine, argillaceous sand, coarse-grained sand, and gravel interbedded with lenticular clay beds. The base of the alluvium disconformably overlies estuarine Miocene deposits, generally between a depth of 80 and 150 feet below ground surface (bgs; as measured before redevelopment). The Miocene deposits, which extend well below depths of 1,300 feet, consist of dense clay, sandy clay, and medium- to coarse-grained sand. These deposits have a regional dip toward the south/southwest and, at surface outcropping, the beds appear to dip at 15 to 25 feet per mile.

2.12.1.2 Local Geology

The geology of the site was defined by previous investigations that included the installation of more than 70 wells and from boring logs obtained from more than 30 borings and cone penetrometer testing. Table 3 summarizes the Groundwater Well Construction details for wells that are still in use at the AWTC facility. As part of assessment activities, the majority of the wells were installed in the 1980s and 1990s. As part of CMI activities, additional wells and piezometers were installed more recently with several also abandoned as part of CMI activities. Available installation logs for site wells are provided in Appendix B with notations for wells that are abandoned and no longer in use.

Based on the results of the various wells and borings, five lithologic zones and two water-bearing zones have been identified. Table 4 summarizes the characteristics of the five lithologic units. Vestiges of these lithologic units can be seen in cross sections across various portions of the site. Figure 9 shows the location of two such cross sections. Significant changes can be noted across the AWTC facility. While clay layers are present in the surface and intermediate zone in the western end and to some extent on the eastern end of the site, the layers are largely absent from the central area of the site as shown in cross section A-A' (Figure 10). This lack of clay layers and lenses in the central site area is further illustrated by cross section B-B' (Figure 11). This distribution of clay layers is an important site characteristic and a critical component in understanding the migration of site contaminants. Additional cross sections are presented in the Phase I and Phase II RFI reports and predecessor documents. An additional investigation of the western clay layer was conducted as part of the CMS.

The surface geological materials of the site consist of a varying mixture of shells and organic matter in clayey silt to fine sand matrix. Beneath this is a layer of clayey silt to silty clay and a fine- to medium-grained sand, which varies in thickness between 15 to 20 feet. This layer is characterized by thin, intermittent layers of clay and organic matter. The organic matter is composed of varying amounts of decaying plant and wood matter. These two layers comprise the upper water-bearing zone.

Beneath the interval of 15 to 20 feet, the fine to medium sands grade into a medium- to coarse-grained, gray to brown sand. This sand is laterally extensive throughout the site and ranges in thickness from 20 to 30 feet. Below a depth of approximately 50 feet bgs, the sand grades into a coarser sand with layers of pebbles and gravel lenses of varying thickness. Thin

clay lenses are also found intermittently within the coarser sands. The coarser sand ranges in thickness from 40 to 50 feet. The gradational sands are presumed to represent the lower water-bearing zone.

Immediately below the lower water-bearing zone is a dark gray clay of probable Miocene Era. The Miocene is recognized as a pervasive hydrogeological unit throughout the Mobile area and the Gulf Coast region as a whole. The investigation well logs report a stiff, gray to green clay that was reached at depths ranging from 91 to 105 feet bgs (elevations ranging from -83.5 feet to -98 feet mean sea level). Borings were drilled into the clay layer as much as 15 feet at three locations, and the borings penetrated the clay layer (RETEC, 1992). One of these latter borings was intentionally made in April 1992 to establish a deep well (8-DK). Well 8-DK was screened below the deep clay layer. As noted from the well logs for the well 8-DK, the deep clay is underlain by a medium- to coarse-grained sand.

An investigation was conducted that was designed to evaluate the vertical extent of contamination and the physical characteristics of the deep clay unit beneath the site (RETEC, 1992). Four deep soil borings were advanced across the site. Physical characterization of the deep clay included measurements of Atterberg limits and laboratory determination of hydraulic conductivity of samples obtained from the unit. Two of the borings penetrated the clay layer and revealed the clay interval to be approximately 2 feet in total thickness with indications of a medium-grained sand beneath the clay interval similar to that noted beneath the clay layer at well 8-DK. At the other two borings, the deep clay interval was more than 10 feet deep.

Generally, the surface of the Miocene clay dips gently to the west-southwest with an average dip of 0.5 degrees southwest. The contoured data, presented in the Phase I RFI report, indicated a topographic depression or erosional channel feature striking generally west (from the Mobile River) near wells RW-2 and 4-DK. The location of the depression roughly corresponds with the location of the southern edge of the former surface impoundment (SWMU-2).

2.12.2 Hydrology

2.12.2.1 General Hydrology

The AWTC facility is bordered on the east by the Mobile River and located on Choctaw Point, due west of Choctaw Pass. The major channel of the Mobile River extends between McDuffie

and Little Sand Islands. The Mobile River is subject to tidal fluctuations in the AWTC facility area. Tennessee Branch, also known as the South Drain, receives discharge from the western portion of the site. The Tennessee Branch drainage basin includes a significant portion of the downtown Mobile area, and the stream is subject to the extreme variations in discharge associated with urban stormwater runoff. Tennessee Branch discharges to Garrows Bend and ultimately to Mobile Bay. No major surface water features exist onsite. During CMI construction activities, the area that encompasses the former AWTC facility was capped. The area is flat with relief generally less than 1 foot across the site. Figure 1 shows the City of Mobile and an overview of the local surface waters draining the area, and Figure 7 shows surface water features and general surface drainage patterns at the former AWTC facility.

2.12.2.2 Aquifer Characteristics

A review of soil boring logs completed across the site revealed that the uppermost aquifer at the site is composed of two hydraulically interconnected water-bearing zones and extends from the ground surface to the top of the Miocene clay layer. Groundwater is present at the site under unconfined conditions in the shallow zone (10 to 15 feet bgs) and under semiconfined conditions in the underlying sand zones. The uppermost saturated zone (shallow zone) beneath the facility is composed of a mixture of silt, clay, and fine-grained sand. This unit also contains discontinuous clay lenses and varying amounts of organic matter. The lower water-bearing unit is composed of two zones of fine- to medium-grained sands (intermediate zone) that grade into medium- to very-coarse sands (deep zone). The bottom of these gradational sands is found at the top of the Miocene clay at an approximate depth of 90 to 100 feet bgs. The lower confining layer to the uppermost aquifer beneath the site is a dark gray clay, which is laterally extensive throughout the site. Borehole drilling performed in 1991 and 1992 showed the Miocene clay layer to be continuous across the site with a thickness that ranges from less than 2 feet to more than 15 feet. The permeability of this clay layer is in the range of 1.0 × 10 centimeters per second (cm/sec) and, therefore, functions as an impediment to the downward vertical migration of contaminants into the lower water bearing unit(s).

2.12.2.3 Groundwater Potentiometric Surfaces and Hydraulic Gradients

Groundwater elevations have been recorded since the initiation of groundwater monitoring activities at the AWTC facility to determine local and site-wide potentiometric surfaces, groundwater gradients (horizontal and vertical), and flow directions. Groundwater static water

levels were consistently measured using an electric water-level probe. Site-wide groundwater potentiometric maps for the shallow, intermediate, and deep water-bearing zones were prepared from groundwater elevation data and reported in the annual groundwater quality assessment reports and RFI reports. The uppermost aquifer potentiometric surfaces have been mapped for the years 2002 (pre-development activities) and 2021. The shallow zone is shown on Figures 12 and 13. The intermediate zone is shown in Figures 14 and 15. The deep zone is shown on Figures 16 and 17. Table 5 summarizes groundwater elevations from the 2002 and 2021 measurement events used to create the potentiometric surface maps.

Shallow Water-Bearing Zone

Figures 12 and 13 present potentiometric maps based on the "S" series of wells with screened intervals generally between 10 to 25 feet bgs. Figure 12 is provided to represent the potentiometric surface before CMI activities and associated development/MCT construction, and Figure 13 is provided to represent groundwater elevations based on the current active well network. The groundwater elevation data for the shallow monitoring wells screened in this geologically varied zone indicate a correspondingly varied flow system. The general flow direction is east to southeast towards the Mobile River. Historically, comparison of individual potentiometric surface maps over time indicated significant year-to-year variation in the flow patterns and direction of groundwater flow. This is believed to be due to the discontinuous nature of these deposits that results in materials of varying hydraulic conductivity and interconnection. As documented in the 2021 Annual Groundwater Quality Assessment and Corrective Measures Effectiveness Report (CMER) (Wood, 2021), the calculated hydraulic gradients for the shallow zone in June and December 2021 are 0.00158 feet per foot (ft/ft) and 0.00117 ft/ft, respectively. These values are consistent with the general range of hydraulic gradients for the shallow zone observed from 2002 and 2012, as reported in the 2014 permit renewal application.

Intermediate Water-Bearing Zone

Figures 14 and 15 present potentiometric maps of the intermediate water-bearing zone (approximately the 45- to 65-foot bgs screened interval of the "I" series of wells) for years 2002 and 2021, respectively. Figure 14 is provided to represent the potentiometric surface before CMI activities and associated development/MCT construction, and Figure 15 is provided to represent

groundwater elevations based on the current active well network. Contours of the potentiometric surface in the intermediate water-bearing zone show that the overall direction of groundwater flow across the site is generally to the east towards the Mobile River. As documented in the 2021 CMER, the calculated hydraulic gradients for the intermediate zone in June and December 2021 are 0.000727 ft/ft and 0.000602 ft/ft, respectively. These values are consistent with the general range of hydraulic gradients for the intermediate zone observed from 2002 and 2012, as reported in the 2014 permit renewal application.

Deep Water-Bearing Zone

Figures 16 and 17 present potentiometric surface maps within the deep portion of the lower water-bearing zone (100-foot depth "D" series wells) for years 2002 and 2021, respectively. Figure 16 is provided to represent the potentiometric surface before CMI activities and associated development/MCT construction, and Figure 17 is provided to represent groundwater elevations based on the current active well network. The flow patterns are similar to the intermediate depth interval. As documented in the 2021 CMER, the calculated hydraulic gradients for the deep zone in June and December 2021 are 0.000436 ft/ft and 0.000412 ft/ft, respectively. These values are consistent with the general range of hydraulic gradients for the deep zone observed from 2002 and 2012, as reported in the 2014 permit renewal application.

Calculated hydraulic gradients for the shallow, intermediate and deep zones are reported annually in the groundwater quality assessment reports for the AWTC facility.

Vertical hydraulic gradients were calculated (RETEC, 1993) using data from nested well pairs to indicate groundwater recharge and discharge areas. The majority of the well nests at the site consistently showed downward vertical gradients, indicating that most of the well nests are in areas of groundwater recharge. The exceptional well pairs that showed upward vertical gradients did not consistently show these trends during each measuring event. The differences in the water level elevations for the shallow to intermediate intervals were considerably larger than in the intermediate to deep intervals. Historically, the large differences in the shallow to intermediate elevations suggests that the shallow aquifer may be perched due to very slow infiltration of precipitation through the clays and silts of the shallow water bearing zone.

Post Development Summary

Site improvements since approximately 2007 included the addition of the roller compacted concrete cover over a significant footprint of the former process areas of the AWTC facility, construction of a wharf, and installation of a sheet pile wall along the frontage of the Mobile River near SWMU-8 (additional details on these development activities are provided in Section 4.3.5). Additional limited evaluation was conducted and presented in the 2014 permit renewal application to evaluate potential affects that these construction improvements may have had on the groundwater flow characteristics. This evaluation was limited in scope relying upon four data sets (June 2002, November 2002, June 2012, and December 2012). The two most significant factors included the concrete cover that would reduce local recharge, and the sheet pile wall that extends 62 feet below mean lower low water level into the subsurface between the Mobile River and the site that would tend to reduce, or dampen, the direct tidal effects on groundwater response. Several lines of evidence were evaluated to assess potential changes in groundwater flow characteristics.

As documented in the 2014 permit renewal application, comparison of the June and November 2002 (pre-construction) and the June and December 2012 (post-construction) groundwater potentiometric surfaces, gradients, velocity, and change in head were evaluated for potential changes between these two time periods. The most readily observed differences appeared in comparison of the shallow zone potentiometric surface maps between 2002 (pre-container port development) and 2012 (post-container port development). These shallow potentiometric surface maps exhibited a much flatter gradient in the 2012 post-development period, especially in the mid-portion of the site area extending to the river.

As documented in the 2014 permit renewal application, comparison of the percent difference of the average 2002 data sets to the average 2012 data sets confirmed that the shallow zone appears to be the most affected by the construction activities and the installation of the sheet pile wall. Lines of evidence supporting the effect on the shallow zone include the reduction of gradient, velocity, and the reduction of the change in head as compared to increases of gradient, velocity and slight reduction or relatively unchanged head differences within the intermediate zone. The reductions observed in the shallow zone values were also compared to the deep zone values that observed only slight reduction or relatively unchanged conditions between pre- and post-construction activities. Based on this limited evaluation, it appears that

the combined effect of the site improvements and the installation of the sheet pile wall has resulted in a reduction in gradient and groundwater flow velocity in the shallow zone. The data does not indicate a conclusive correlation within the intermediate and deep zones, which appear to show negligible to minor changes.

2.12.2.4 Influence of Tides on Groundwater Elevations

Two studies were conducted to determine the influence of tides in the Mobile River on the groundwater elevations at the AWTC facility. They are summarized in the Phase I RFI Report (RETEC, 1993). These studies were performed prior to completion of CMI activities and subsequent activities associated with development to build the container terminal port. These activities included the addition of a roller compacted concrete cover over a significant footprint of the former process areas of the AWTC facility, and construction of a wharf and sheet pile wall along the frontage of the Mobile River near SWMU-8. Tidal influence was examined for both the possible distance effects and the potential for vertical migration between the shallow and deeper water-bearing zones. Monitoring locations were selected to provide data representative of the site in both east-west and north-south orientations. These monitoring locations included 1-S, 1-I, 1-D, 4-5, 4-I, 4-D, 4-DK, 7-S, 7-I, 7-D, 8-S, 8-I, 8-D, 11-S, 11-I, 11-D, 13-S, 13-I, 13-D, 14-S, 14-I, 14-D, 15-S, and 15-I.

At the time of the studies, during the high tide event, the hydraulic gradient for the intermediate zone decreased across the site, which consequently reduced the velocity of groundwater migration in the horizontal plane. Such a decrease in groundwater velocity was particularly influenced by the more pronounced water level changes (rises) in wells near the Mobile River, relative to the changes measured in wells along the western boundary of the facility. During the low tide event, the hydraulic gradient was steeper than that observed during high tide but was no greater than that observed during the time between tidal stages.

The potentiometric surface for the deep zone responded similarly to that observed in the "I" series wells during high tide. The overall gradient was reduced, due to a greater tidal influence on groundwater levels in wells near the Mobile River relative to those along the western boundary of the AWTC facility. The horizontal hydraulic gradient in the deep wells became slightly steeper than the gradient observed between tidal events. As expected, groundwater elevations measured in wells near the Mobile River showed greater change relative to the wells

located west of the former process area (SWMU-4; i.e., tidal influence decreases with increasing distance from the Mobile River).

During the time of the studies, almost no tidal influence was demonstrated in the shallow zone wells in both the north-south and east-west directions. With the exception of well 4-S, most wells showed a change in water level elevation of less than 0.10 foot over the tidal cycles.

2.12.2.5 Hydraulic Conductivity

Previous hydrogeological investigations determined the hydraulic conductivity of the shallow, intermediate, and deep groundwater zones at various monitoring well and soil boring locations. Values of hydraulic conductivity were calculated using data derived from slug tests, bail-down tests, falling head permeability tests, and grain size analyses. Horizontal hydraulic conductivities, derived from falling head slug tests, were calculated using methods of Hvorslev (1951) and Bouwer and Rice (1976). K-values ranged from 8.8 × 10-5 cm/sec to 4.0 × 10-3 cm/sec in the shallow zone; 6.1 × 10-4 cm/sec to 1.0 × 10-2 cm/sec in the intermediate zone; and 4.6 × 10^{-3} cm/sec to 1.3 × 10-2 cm/sec in the deep zone.

To further understand the site hydrogeological conditions, Shelby tube (undisturbed) samples of clay were collected during the installation of well 8-DK. The samples were collected to obtain physical characteristics of the deep Miocene clay, which is interpreted as a major confining unit underlying the site. The samples were physically tested to determine plasticity and permeability using ASTM D 5084-90 and EM 1110-2-1906, respectively. The results indicated inorganic clay of high plasticity with an index value of 34. The measured permeability of the clay unit was 7.3 × 10-9 cm/sec, thus indicating a relatively impermeable clay confining unit. At the location of well 8-DK, the Miocene clay layer was approximately 19 feet thick.

2.12.2.6 Groundwater Velocity

Groundwater velocities for the intermediate and deep zones were reported in the Phase I RFI Report (RETEC, 1993) using hydraulic gradients determined from quarterly groundwater monitoring activities. The calculations utilized the most current determinations of hydraulic conductivities for each zone, made by slug testing.

The Darcy equation (Freeze and Cherry, 1979) was used to calculate the average linear velocity for confined flow:

$V = Ki / ne$

where: V = average linear velocity
K = hydraulic conductivity (from slug tests)
i = hydraulic gradient (measured between well pairs)
n_e = effective porosity (assumed)

Effective porosities of 0.22 for the shallow, 0.21 for the intermediate, and 0.20 for the deep zones were used in the calculations, which were based on literature values for similar geologic materials. Calculated horizontal groundwater velocities ranged from 0.0013 to 0.057 foot per day (ft/day) in the shallow zone, 0.003 to 0.11 ft/day in the intermediate zone, and 0.004 to 0.060 ft/day in the deep zone (RETEC, 1993).

These calculations represent an estimate of the rate of groundwater movement. The migration rate of any (dissolved-phase) site-related constituents in groundwater would probably be less than these values due to sorption/desorption phenomena, biological degradation, etc. The variabilities of the groundwater velocities may, in part, be attributed to the effect of the tides on the hydraulic gradient. Slight differences in the depositional environment (e.g., clay lenses or stringers) in which each well is screened may also yield results that indicate different velocities calculated from data obtained from different areas of the site.

Updated calculated horizontal groundwater velocities to represent the current permit monitoring period are presented herein; as reported in the 2021 CMER, values ranged from 0.0725 ft/day (December 2021) to 0.0978 ft/day (June 2021) in the shallow zone, 0.0383 ft/day (December 2021) to 0.0462 ft/day (June 2021) in the intermediate zone, and 0.0269 ft/day (December 2021) to 0.0285 ft/day (June 2021) in the deep zone.

Groundwater velocity calculations for the shallow zone were based on an average hydraulic conductivity of 4.8 × 10-3 cm/sec and an estimated effective porosity of 22 percent. Using the calculated hydraulic gradient of 0.00158 ft/ft for the shallow zone in June 2021, a linear groundwater flow velocity calculated for the shallow zone is 0.0978 ft/day (35.7 feet per year [ft/year]).

Groundwater velocity calculations for the intermediate zone were based on an average hydraulic conductivity of 4.7 × 10-3 cm/sec and an estimated effective porosity of 21 percent. Using the calculated hydraulic gradient of 0.000727 ft/ft for the intermediate zone in June 2021, a linear groundwater flow velocity calculated for the intermediate zone is 0.0462 ft/day (16.9 ft/year).

Groundwater velocity calculations for the deep zone were based on an average hydraulic conductivity of 4.6×10^{-3} cm/sec and an estimated effective porosity of 20 percent. Using the calculated hydraulic gradient of 0.000436 ft/ft for the deep zone in June 2021, a linear groundwater flow velocity calculated for the deep zone is 0.0285 ft/day (10.4 ft/year).

3.0 CLOSURE PLAN AND DOCUMENTATION

The closure process for the regulated units at the AWTC facility was completed in 1990. Closure activities were performed from June 8, 1987, until February 25, 1990. The final closure certification was submitted to ADEM on September 25, 1990.

The primary focus of the closure plan was on the former process area and the surface impoundments (SWMUs-2 and -7). The operations area closure removed buildings, storage tanks, vats, pressure treatment vessels, associated foundations, aboveground piping, appurtenances, debris, soil, buried tanks, underground plumbing, and piping. During this removal action, 540 tons of tank sludges and 4,200 tons of debris were removed from the process area.

Surface impoundment (SWMUs-2 and -7) closure activities began on June 25, 1987, with the removal of K001 sludge. Final closure fieldwork began in February 1989 and ended in February 1990 with the completion of a concrete cap over these areas. Items removed during closure included rain and process water, wastewater sludge (K001), water lines, fuel lines, and a natural gas line. Approximately 1,970 tons of sludge and water were removed from the impoundment.

3.1 Closure Plan

The closure plan requirement of 335-14-8-.02(5)(b)13 is not applicable because the AWTC facility has completed closure.

3.2 Closure Cost Estimate and Financial Assurance

The closure cost estimate requirement of 335-14-8-.02(5)(b)15 is not applicable because the AWTC facility has completed closure. In addition, as a state agency, ASPA is exempt from the closure financial assurance requirements (335-14-5-.08(3) & 335-14-5-.08(4)) under the provisions of 335-14-5-.08(1)(d).

3.3 Closure Documentation

For hazardous waste disposal units that were closed, Section 335-14-8-.02(5)(b)14 requires documentation that the notices required under 335-14-5-.07(10) were filed. These documentations are discussed in the following sections.

3.3.1 Deed Notation

Section 335-14-5-.07(10)(b)1 requires a notation on the deed to the property that will in perpetuity notify any potential purchaser that: the land was used to manage hazardous waste, its use is restricted, and the survey plat and record required by ADEM Admin. Code 335-14-5-.07(7) and 335-14-5-.07(10)(a) has been filed with the local land use authority and ADEM. This notation was filed and recorded on January 14, 1991, as documented in Appendix C.

See Sections 4.4 and Section 6 for more information regarding the additional documentation submitted as part of the additional ICs and ECs that are in place at the former AWTC facility.

3.3.2 Hazardous Waste Unit Survey Plat

A survey plat indicating the locations of hazardous waste units SWMU-2 and SWMU-7 was filed with the local land use authority as required in Section 335-14-5-.07(7). Documentation demonstrating this filing is included in Appendix C.

3.3.3 Remaining Wastes Documentation

ASPA provided the local land use authority and ADEM a record of the type, location, and quantity of hazardous wastes or waste residues remaining in each hazardous waste unit at the facility, as required in Section 335-14-5-.07(10)(a). Documentation demonstrating this filing is included in Appendix C.

4.0 CORRECTIVE ACTIONS

The RCRA Corrective Action Process for the AWTC facility included completion of RFI assessment activities, a CMS to develop remedial goals and select appropriate corrective actions, a CMIP to design the selected corrective measures, and CMI activities. The CMI activities included implementation of corrective actions for AWTC SWMUs and completion of activities associated with the redevelopment of the AWTC facility. Interim actions were also performed.

In accordance with ADEM 335-14-8-.02(5)(c)8, facilities with established Alternate Concentration Limits (ACLs) protective of human health and the environment need not establish a corrective action program. Instead, they must submit sufficient information to establish a compliance monitoring program in accordance with the requirements of ADEM Admin. Code 335-14-5-.06(10) and 335-14-8-.02(5)(c)6. During the CMS process, ASPA and ADEM agreed to groundwater ACLs that are protective of human health and the environment considering exposure to groundwater. As a result, the AWTC facility is in a Compliance Monitoring Program for groundwater, the details of which are provided in Section 5 to this application.

In addition, and in accordance with ADEM Admin. Code 335-14-5-.06(12), owners/operators of a facility seeking a permit must institute corrective action as necessary to protect human health and the environment for releases from any SWMU. Based on the results of the risk assessment (RA) conducted in conjunction with the Phase II RFI, ASPA and ADEM agreed that corrective actions were necessary to:

> Protect human health and the environment by reducing the potential risk of exposure to contaminated surface and subsurface soils at the AWTC facility
>
> Reduce the potential for further degradation of groundwater quality from releases from SWMUs at the AWTC facility

The following subsections summarize the components of the RCRA process that have been completed for the AWTC facility and summarize details of the corrective actions implemented at the site. Sections 5 and 6 describe the OM&M programs in place to monitor groundwater quality, ICs and ECs, and report on the effectiveness of the corrective action program and in-place controls in protecting human health and the environment.

4.1 RCRA Facility Investigations

The RFI is the second phase of the RCRA Corrective Action Program. The goal of the RFI is to collect information that fully characterizes the nature, extent, and rate of migration of releases of hazardous waste or waste constituents and to assess the geologic and hydrogeologic conditions at the site. Multiple phases of RFI investigations were performed at the AWTC facility. These included pre-RFI investigations prior to and during closure activities, Phase 1 and Phase 2 RFIs, and additional investigations and annual groundwater quality assessments monitoring from 1993 through 2000. The scope of the Phase I RFI included characterization of waste constituents released to the groundwater, surface water, and soils at the site; characterization of confirmed releases of DNAPL and dissolved-phase contaminants to groundwater from the identified SWMUs; and the evaluation of potential receptors.

During the interval between the Phase I and Phase II reports, several additional investigations were performed at the AWTC facility or adjacent facilities. Semi-annual groundwater sampling and annual groundwater quality assessments continued during this period.

The work plan for the Phase II RFI was submitted for agency review in November 1994 (RETEC, 1994). The work plan called for additional soil, sediment, groundwater, and DNAPL investigations. The final work plan and scope was approved with significant modifications as part of a Consent Order between ASPA and ADEM that was signed on March 24, 1998. The Phase II investigations were performed by QST Environmental, Inc. and its successor company, ESE. The draft Phase II RFI report was completed in December 1998 and the final report in June 2000.

The Phase II RFI also included a formal RA for the facility to evaluate the potential current and future human health and ecological risks that may be posed by the AWTC facility. The human RA indicated the potential for impacts to potential human receptors as a result of contact with contaminated soils under specific exposure scenarios. This indicated the need for a CMS to evaluate means of reducing risks at the AWTC facility.

Specifically, additional information was required to define the horizontal extent of the deep DNAPL plume near SWMU-4 and recovery well RW-3. Therefore, eight additional deep DNAPL borings were conducted with the subsequent installation of two additional DNAPL recovery wells

in the SWMU-4 area (RW-4 and RW-5). In addition, a supplemental investigation of the near surface (i.e., 20 feet bgs) DNAPL in the area of SWMU-6 was also conducted.

As a result of the RFI, it was concluded and agreed by ADEM that a CMS was necessary.

4.2 Corrective Measures Study

The purpose of the CMS portion of the RCRA corrective action process is to identify and evaluate the potential remedial alternatives that are feasible (both technologically and financially) to achieve the remediation goals. Remedial alternatives may include various technologies associated with general response actions. Such technologies include treatment (both in situ and ex situ), containment, removal, natural attenuation and monitoring, and the use of other ICs and/or ECs designed to be protective of human health and the environment.

A CMS Plan was submitted to ADEM on June 21, 2000, and approved on July 12, 2000. A Draft CMS Report that included ACLs for groundwater protection standards was submitted to ADEM on October 24, 2000. ADEM issued comments on the Draft CMS Report in the form of a Notice of Deficiency dated February 8, 2001. The Final CMS Report was submitted September 2001 and approved by ADEM on November 9, 2001 (Harding ESE, 2001). The corrective actions recommended through the CMS and approved for implementation by ADEM and USEPA defined the scope for the CMIP. Additional discussion of the ACLs that were developed during the CMS process is provided in Section 5, as applicable to the ongoing groundwater monitoring in place at the AWTC facility.

4.3 Corrective Measures Implementation

Corrective actions at the AWTC facility have been implemented in a phased program approach. Early corrective actions were associated with closure activities as described in Section 3 and addressed the removal of contamination sources such as the process equipment, storage tanks, and surface impoundments. Several interim remedial actions were conducted while site characterization activities (e.g., the RFI) were in progress; these included construction and startup of two separate DNAPL recovery systems and interim measures in the SWMU-5 and -8 areas. Additional corrective actions, including an expansion of the DNAPL recovery system, a groundwater monitoring program, the removal of contaminated media from the SWMU-6 East area, and capping the areas of SWMUs-4, 5, 6 (West), were implemented at the AWTC facility in accordance with the RCRA CMIP approved by ADEM in August 2003. Finally, as part of site

redevelopment activities, several site improvements associated with AWTC SWMUs were performed. Corrective actions completed since closure activities (discussed in Section 3) are as described below.

4.3.1 Interim Measures

Two Interim Measures (IM) actions were implemented at the AWTC facility. ASPA prepared an IM Work Plan for addressing DNAPL contamination discovered in SWMU-8, near monitoring well cluster No. 7 and next to the Mobile River. The plan was approved by ADEM on March 25, 1999, and implemented between April and June of 1999. The work included further delineation of onshore and near-shore DNAPL contamination in soils and sediments, removal of contaminated materials, and replacement of monitoring well 7-I, which was previously found damaged. The IM resulted in removal of approximately 544 tons of soil and debris that was stabilized and transported to a permitted land disposal facility in Pinewood, South Carolina.

The second IM included the closure of an abandoned, 6-inch, underground pipeline that was believed to have been used to deliver creosote from a dock southeast of the site to the former process area. The pipeline was drained and pressure washed. Wastewater effluent was treated along with other site wastewaters and was discharged to the Publicly-Owned Treatment Works (POTW) under SID permit number IU414900428. The product from the pipeline was collected in a storage tank and managed in conjunction with other recovered creosote product. The cleaned pipeline was closed by grouting-in-place on May 5, 1999. This IM was approved by ADEM on June 14, 2000.

4.3.2 Interim Remedial Actions

Prior to the CMIP, two DNAPL recovery systems (recovery well and monitoring well) were constructed and placed into operation at the AWTC facility. The primary recovery well (RW) system initially consisted of three active recovery wells (RW-3, -4, and -5) and recovered over 5,000 gallons of creosote product through mid-year 2000. The second DNAPL recovery system originally included 14 monitoring wells (MW) and 1 recovery well as recovery points. The MW recovery system (MWRS) had collected approximately 100 gallons of DNAPL from July 1998 through middle-year 2002. Modifications to both systems were proposed in the CMIP and implemented during the CMI activities. These modifications included an expansion to the recovery wells system and a reduction in the monitoring well system, as described below.

Though installed as part of interim remedial actions, these systems were incorporated into the selected corrective measures for the facility.

4.3.3 Corrective Measures Implementation

The corrective actions recommended through the CMS defined the scope for the CMIP. The February 2003 Final CMIP (MACTEC, 2003) was approved by ADEM in August 2003, concurrent with issuance of the renewed AHWWMA Post-Closure Permit. ASPA initiated implementation of the corrective actions detailed in the CMIP in 2004. Corrective actions included the removal of contaminated media from the SWMU-6 East area; capping the areas of SWMUs-4, 5, 6, and 8; and modifications to the two DNAPL recovery systems. The initial CMI site work detailed in the 2003 CMIP was completed on December 31, 2004, and the Draft Construction Completion Report and Certification of Closure was submitted to ADEM in July 2005. During the initial CMI activities, ASPA implemented plans to develop the Choctaw Point area, including the AWTC facility, as a container port facility. The initial CMIP was amended to incorporate the development construction activities. These activities included construction of a wharf, installation of a concrete cover, and installation of rail lines on SWMU-6 West. The July 2005/Revised March 2011 Final CMI Report (MACTEC, 2011) documented the corrective actions completed in accordance with the 2003 CMIP. Completion of the supplemental activities was documented in the CMI Addendum report, submitted to ADEM on September 12, 2013. The corrective actions implemented at the site focus on source containment, removal, and long-term monitoring. Section 4.3.4 provides an overview of CMI activities implemented consistent with the 2003 CMI Work Plan; subsequent CMI activities including improvements completed as part of permit modifications are described in Section 4.3.5.

Groundwater remediation at the AWTC facility is not considered necessary. Though there have been occasional exceedances when compared to groundwater protection standards (GWPS; i.e., ACLs) on an event-by-event basis, prior statistical analysis has indicated that, for the constituents addressed in the evaluation, there is no statistically significant evidence of increased contamination between the ACL and the applicable POC wells (further discussed in Section 5.8.3.2). Additionally, the groundwater at the site is not considered usable due to the high salt content and low yields (Section 5 of this Application).

Section 6 summarizes the ongoing operations and maintenance and monitoring programs for these corrective actions.

4.3.4 Description of Corrective Measures – 2003 CMI Work Plan

As identified in the CMIP, corrective actions at the AWTC facility included source removal for contaminated soils and sediment within SWMU-6 East; removal of DNAPL from the subsurface through a DNAPL recovery system; and covers for SWMUs-4, 5, 6, and 8. Corrective measures performed in general accordance with the 2003 CMIP are described below.

4.3.4.1 Monitoring Well Abandonment and Modifications

The CMIP included 24 monitoring wells designated to be abandoned in general accordance with ADEM guidelines. The wells abandoned included monitoring wells previously used for DNAPL recovery and recovery well RW-2, which was deemed unproductive. Twenty-two monitoring wells were abandoned by overdrilling techniques consistent with those outlined in ADEM guidelines for well abandonment. Two monitoring wells that were close to active railroad tracks were abandoned by grouting in place. The following monitoring wells were abandoned:

- MW 1-S
- MW 1-I
- MW 1-D
- MW 2-S
- MW 4-S
- MW 4-1
- MW 5-I
- MW 10-I
- MW 10-D
- MW 12-S
- MW 13-S
- MW 13-D
- MW 14-S
- MW 14-D
- MW 14-I
- MW 17-I
- MW 18-S*
- MW 19-I*
- MW 22-S
- MW 25-S
- MW 27-D
- MW 29-I
- MW 30-I
- MW 30-D
- RW 2

*- Monitoring Wells 18-S and 19-I were grouted in place per ADEM approval on June 3, 2004.

Upon completion of well abandonment activities, a well abandonment report was submitted to ADEM on July 6, 2004. The locations of these wells are shown on Figure 8A. Appendix B

provides available well installation logs with updated notation to document monitoring wells that were abandoned.

4.3.4.2 SWMU-1

The four wastewater pre-treatment tanks were cleaned, disassembled, and removed from the facility. Three tanks were upright steel cylinders with capacities of approximately 17,000 gallons. The fourth tank was of similar construction and 5,000-gallon capacity. Two other steel tanks in a containment area north of the pre-treatment plant were used for DNAPL recovery at the AWTC facility. Concrete slabs and other appurtenances associated with SWMU-1, including the adjacent shed, were removed. No further action was approved in 1988.

4.3.4.3 SWMU-6

The SWMU-6 area is divided by Ezra Trice Boulevard and the railroad tracks that run parallel to the road and, therefore, is referred to in this document and others as SWMU-6 East and SWMU-6 West (refer to Figure 2B). The area of project land disturbance was approximately 3.2 acres for the eastern section and 2.3 acres for the western. SWMU-6 East borders the Radcliff Economy Marine Terminal to the south and west and measures approximately 640 linear feet (LF) along the western north-south side and 440 LF along the southern east-west boundary. SWMU-6 West borders two sides of the Oil Recovery Company (formerly Star) terminal on South Conception Street and is approximately 600 LF on the eastern north-south side and 640 LF along the southern east-west edge.

SWMU-6 East

SWMU-6 East DNAPL excavation was implemented to meet the DNAPL source removal Corrective Measures objective. Approximately 1,795 tons of contaminated soil/sediment was removed from the primary drainage channel. After excavation, the channel was lined with geotextile fabric before being backfilled to grade.

After excavation and backfill of the drainage channel, the SWMU-6 area on the east side of Ezra Trice Boulevard was capped with soil fill. Soil fill material from previous dredging operations at the ASPA was used for capping material; the soil was approved for use as fill source material and transported to the site from existing dewatering basins on Blakely Island. The soil cover was installed to a minimum elevation of 12 feet AMSL, the 100-year floodplain elevation. Side

slopes were constructed at a 4:1 slope and run-on/runoff is controlled with a drainage channel. SWMU-6 East is currently capped with roller-compacted concrete and asphalt associated with the redevelopment of this area as the MCT, as described in Section 4.3.5. Stormwater channels were constructed to appropriately direct flow. Additional changes at SWMU-6 East associated with subsequent CMI activities are described in Section 4.3.5.

SWMU-6 West

The surface in the SWMU-6 West area was covered with asphalt. The drainage ditch that flowed through the interior of the area was replaced with a series of inlets and concrete stormwater pipe. The SWMU-6 West cover area is approximately 2.3 acres.

SWMU-6 West was graded to facilitate drainage. A 6-inch-thick subbase was installed prior to the placement of 2 inches of asphalt over the area. The SWMU-6 West cover was not designed to withstand heavy loadings (i.e., parking lots). A chain-link fence was installed around the perimeter to prevent unauthorized access to the area. This area has had minimal impact from the container port development.

At the time of initial CMI implementation, the existing drainage ditch in SWMU-6 West was filled, and run-on/runoff controlled with a centrally located, 30-inch, reinforced concrete pipe culvert for drainage (approximately 850 LF). Four drop-inlets centrally located within the asphalted area were installed to convey on-site stormwater. A headwall was installed at the north end of SWMU-6 West to convey upstream stormwater through the site. Discharge of the pipe culvert was to Tennessee Branch (Southern Drain). Additional changes at SWMU-6 West associated with subsequent CMI activities are described in Section 4.3.5.

4.3.4.4 Combined SWMUs-4, 5, and 8

The areas of SWMUs-4, 5, and 8 included most of the original AWTC facility with an approximate land disturbance area of 14.9 acres (see Figure 2B). The area measures approximately 375 LF along the eastern shoreline and 900 LF along the western north-south boundary. The east-west boundaries measure approximately 1,515 LF on the northern boundary and 1,740 LF on the south. Existing site elevations (before construction) were generally in the 8- to 10-foot AMSL range but drop to 5 feet AMSL within 50 feet of the shoreline. The area is bisected by the rail track for the Rail-Ferry terminal. This active facility required construction of a small, separate cover over portions of SWMU-5.

This diamond-shaped cover measures approximately 480 LF along the east-west axis and 120 LF along the north-south axis.

The primary interim corrective measure during initial CMI was the installation of a permeable soil cover constructed over the combined area of SWMUs-4, 5, and 8. To provide for future development within the area of SWMUs-4, 5, and 8, seven utility corridors were installed as part of the CMI. These corridors extend through the site in a north-northwest to south-southeast fashion and vary in elevation from 10 feet AMSL to 8 feet AMSL. A geotextile fabric was installed as a visual barrier between the existing soil and the newly placed soil fill. The seven utility corridors were designated as part of the CMIP. Following placement of the geotextile, the corridors were backfilled with clean soil material and delineated using aboveground markers.

To support the corrective measures objective, a compacted, permeable soil cover capable of sustaining vegetation was installed to prevent human contact with the contaminated soil. The same soil fill material described in SWMU-6 East was also used in SWMUs-4, 5, and 8. Soil was placed in 8-inch lifts and compacted and tested at each lift. The soil cover was installed to a minimum elevation of 12 feet, the 100-year floodplain elevation. Side slopes were constructed at a 4:1 slope. Run-on/runoff will be controlled with a drainage channel. The SWMU-4, 5, and 8 cover area is approximately 12 acres. The discharge points for the channels in the SWMUs-4, 5, and 8 areas are the Mobile River and SWMU-6 East southerly bypass channel. Initially, an interim riprap shore protection wall was to be installed at the existing shoreline as part of the original corrective measures design. ASPA requested a project variance from ADEM to defer the requirement for interim shore protection based upon an aggressive schedule to complete construction of a permanent wharf as part of the future container terminal. ADEM approved the deferment of the installation of interim shore protection in a letter dated September 22, 2004, signed by Wm. Gerald Hardy, Land Division. The letter stated that “ADEM approves a delay in construction of that portion [shoreline protection] of the CMI plan for a period of 360 days beginning September 27, 2004.” The final construction of the shoreline protection is described in Section 4.3.5.

4.3.4.5 DNAPL Recovery

The corrective measures objectives for DNAPL recovery were addressed by constructing an expansion to the DNAPL recovery and treatment system. The interim DNAPL recovery system included recovery wells RW-3, RW-4, and RW-5, which are located in SWMU-4. The DNAPL

recovery system was expanded to six recovery wells as part of the CMI with recovery wells RW-6, RW-7, and RW-8 installed near the existing wells, as shown on Figure 8A. All six recovery wells were enclosed in concrete vaults with the vaults located below ground surface to facilitate the construction of the MCT. The DNAPL recovery system was constructed on adjacent property north of SWMUs-4, 5, and 8 (former Star property). The recovery system included the instrumentation and control equipment for the product recovery pumps, primary separation tanks for product recovery, and an oil/water separator with an effluent holding tank. The recovery wells are connected to the treatment system by 1-inch, galvanized steel, underground piping with secondary containment piping (HDPE). Treated water is discharged to the adjacent sanitary sewer under contract with the Mobile Area Water and Sewer Service, the local POTW. Due to the relatively small volumes of wastewater generated from the system, a State Indirect Discharge (SID) permit is not required. Recovery Well RW-2, which is no longer in operation, was abandoned under applicable ADEM regulations. RW-1 in SWMU-6 West was incorporated into the monitoring well recovery system (MWRS). ASPA recommended, and ADEM approved, the conversion of MW-17-S from the MWRS to the RWS in January 1999.

From March 2004 to the completion of the CMI on December 31, 2004, no DNAPL was recovered by the RWS system due to CMI implementation activities and the installation of RW-3 thru RW-8. Storm surge from Hurricane Katrina, which made landfall August 29, 2005, corrupted the power and control wiring to the RWS system, and ASPA determined that all the subsurface wiring to the RWS DNAPL recovery wells was defective due to saltwater corrosion. The RWS DNAPL recovery system was brought back on-line in June 2006. Construction of the MCT began in 2006 and was substantially completed in April 2008. Preparation of the ground surface in February 2008 for the installation of roller-compacted concrete damaged the control wiring for all 6 of the surface-mounted RWS DNAPL recovery wells. MW-17 located in SWMU-6 West was not impacted by the MCT construction and remained fully operational during 2008. The RWS DNAPL recovery well control wiring and the creosote recovery pipes were replaced in 2008 by MCT's contractor, and all systems were tested pursuant to the requirements of the CMIP. The impacted RWS DNAPL recovery wells were brought back into operation in mid-August 2008 and remained in operation until the storm surge from Hurricane Gustav inundated the wells during its passage through Mobile in September 2008. Working in conjunction with FEMA, the damaged components of the RWS DNAPL recovery system were replaced and brought back into service in March 2009. No DNAPL was recovered from RW-3 thru RW-8 from 2014 to 2018 due to the non-operation of pumps. In 2018, ASPA started the trial

of a new PumpWorks brand double piston pump in recovery well RW-6, which was expected to operate more consistently and efficiently than the existing treatment system pumps. Even with the new pump, ASPA was not able to continuously operate the pump system at RW-6 and recovery was negligible. Due to continued non-operation of the pumps, no DNAPL was recovered from RW-3 thru RW-8 from 2018 to 2023. MW-17-S is the only operational recovery well. ASPA implemented a DNAPL Recovery Pilot Study in 2021 and 2022 to evaluate the viability of Enhanced Fluid Recovery (EFR) as a method for removing DNAPL.

The MWRS has been in place since July 1998. It originally included 12 converted monitoring wells and 1 converted DNAPL recovery well. Wells were originally pumped weekly, but low product yields resulted in semi-annual operation. Several non-producing wells were abandoned during the CMI activities. The monitoring well DNAPL recovery wells remaining in operation include 4-D, 4-DK, 18-1, 20-1, 21-S, and RW-1. As noted above, well 17-S was converted from the mobile monitoring well recovery system to a fixed-base operation and continues in service.

4.3.5 Modifications to Corrective Measures

For completeness, to document construction and development related activities, permit modifications from prior permit periods are summarized below, followed by modifications effective during the current permit period.

Permit Modification May 2, 2008

The second phase of CMI activities was associated with construction of the MCT. The redevelopment of the site affected most of the SWMUs-4, 5, and 8 areas with the addition of a roller-compacted concrete surface on which the MCT operates, and installation of fill and a concrete cap supported by a sheet pile bulkhead in what are considered offshore areas of SWMUs-4, 5, and 8. During the CMI, the ASPA had the project site covered with a free-draining sandy clay except for the area associated with the concrete cover. This site was filled to an elevation of approximately 12 to 14 feet. Site development activities associated with the MCT included some areas of soil fill over earthen cap performed in the CMI. The entire area was paved with roller-compacted concrete and asphalt except areas that are the out slopes along the north and west sides of the site and the landscaped area around the Administration Building. The out slopes were grassed. The CMI provided utility corridors where it was determined that the utilities could encroach upon the contaminated materials. The entire site was brought to

grade and covered with roller-compacted concrete, thereby providing a working surface and an impermeable membrane to prevent stormwater from coming into contact with the cap soils and the concrete cover of the AWTC facility. Figure 4 shows the general layout of the MCT. The groundwater wells and the monitoring well DNAPL recovery wells were modified to account for fill and capping construction activities with the wells cut below the surface and a manhole ring and cover placed over the wells to protect them from traffic.

Stormwater from the north of the site (upstream) has been re-directed along the west side of the cap. Stormwater from SWMU-2's concrete channel has been redirected to the south of the capped area. Both bypass channels converge at the southwest corner of SWMU-6 East and flow into two existing culverts that convey the surface run off to the south. The stormwater channel continues south of the site and eventually outfalls into Choctaw Pass and the Mobile River. Stormwater due to rainfall on the capped portions is overland sheet flow from the interior of the area sloped towards the perimeter channels, which flows toward one of the bypass channels. As part of the permanent wharf construction project, a continuous steel sheet pile wall was installed along the entire frontage on the Mobile River. The sheet pile wall was tied into the existing sheet pile wall at the foot of the Virginia Street right-of-way and was installed running east approximately 240 LF to a point approximately 375 feet west of the Mobile River Channel. From there, it traversed south paralleling the Channel until it intersected the shoreline of McDuffie (nee Sand) Island.

The sheet pile wall, which extends 62 feet below mean lower low water, was used to retain the fill placed behind it and became an integral part of the wharf structure that sits above it. The wharf itself is a pile-supported concrete deck approximately 115 feet wide by 2,000 LF in length. The finished elevation on the face of the wharf is at +14.23 feet, which is 2.23 feet above the FEMA 100-year flood elevation for the area. A cross section of the wharf was provided in the Final CMI Report (MACTEC, 2011).

The project involved a substantial amount of filling both in terms of filling between the existing shoreline and the sheet pile structure as well as raising ground elevations of the existing site, so the finished pavement surface resulted above the FEMA 100-year flood elevation of +12 feet.

All material placed on the site was free of clay clods, debris, roots, wood, vegetation, refuse, detritus, or other objectionable materials; the material was tested and was suitable for

underwater backfill. The backfill material was inorganic non-plastic sandy soil having a SP or SP-SM classification of which not more than 15 percent by weight passing the No. 200 sieve.

The material for the land reclamation portion of the work was placed both hydraulically and mechanically up to an elevation of approximately +2 feet. Wick drains were installed to facilitate site stabilization with 3-foot spacing. From this elevation to the desired grades, all fill material, including that placed on the existing shoreline and upland areas, was placed in 8-inch lifts and compacted to 100 percent Standard Proctor (ASTM D 698).

The land reclamation portion behind the new dock was surcharged (overburdened) to elevation +27 feet to alleviate future settlement using the same materials described previously. Once the desired settlement was obtained, the excess material was removed down to an elevation of approximately +12 feet and used to fill the remaining portion of Garrows Bend to elevation to +3 feet. Details of the wharf construction were incorporated in No. ALD 058 221 326 Permit Modification No. 1 issued by the ADEM on May 5, 2008. The sheet pile wall encompasses the offshore portions of SWMUs-4, 5 and 8.

Permit Modification September 16, 2011

As part of the MCT development activities, a need for additional rail access and realignment of existing rail into and out of the terminal was recognized. The facility permit was modified for SWMU-6 West to facilitate the Ezra Trice Bypass Rail Tracks Construction Project. The project consisted of construction/realignment of rail track and abandonment and subsequent relocation/re-installation of three monitoring wells (wells 19-S, 18-I, and 18-D). The activities associated with this project were constructed over the existing asphalt cap. The general location of SWMU-6 West and the replacement wells are shown on Figure 8B.

Permit Modification August 13, 2018

Permit Modification 1 during the current permit monitoring period was issued to reflect the addition of two newly acquired parcels associated with the contiguous properties, the addition of detected Appendix IX constituents, revision to the groundwater protection standards for specific constituents based on calculated alternate concentration limits, revision to the Contingency Plan updated to include personnel changes, and revision to groundwater tables to reflect the extension of the monitoring wells (9-I, 16-I, and 16-D) and piezometer (PZ-16-S) located at the MCT.

Permit Modification August 24, 2018

Permit Modification 2 during the current permit monitoring period updated facility contact information, corrected grammatical errors/typos, and revised Section 4 of the permit application. As part of the previous phase of MCT development activities, an outbound gate consisting of four truck lanes was developed to facilitate container truck traffic. Since that time, the need for additional truck lanes with radiation portal monitors (RPMs) was identified. The proposed development activities consisted of the construction of two additional outbound gate lanes with RPMs. Two truck lanes equipped with radiation portal monitors were constructed in SWMU-6 East between September and October 2018. The new lanes were also equipped with the required support stands, protection (safety bollards), and electrical conduits. The activities associated with the proposed project included limited removal and restoration of the SWMU-6 East concrete cap and soil cover. The development activities disturbed less than 10 cubic yards of concrete and 20 cubic yards of cover soil. The concrete and soil cover were restored with a nominal portion of the existing soil cover below the concrete cap being replaced with new concrete to support the RPM associated equipment. The replacement soil cover and concrete cap met or exceeded the performance characteristics of the existing soil cover. The location of SWMU-6 East is shown on Figure 8B with the additional truck lanes located on the west side of the existing truck lanes (on the east side of SWMU-6 East) visible on the Figure 8B aerial photograph background.

Permit Modification September 25, 2019

Permit Modification 3 during the current permit monitoring period was issued to remove a sold parcel of contiguous property and correct minor errors on contiguous property maps.

4.4 Environmental Covenant

As part of the overall corrective measures implementation, the ASPA has implemented both ICs ECs to facilitate protection of human health and the environment. Additionally, as noted in Section 2.4.3, an environmental covenant is in place, effective as of September 6, 2016. The facility is a restricted-access area controlled by both ASPA and APM Terminals security. The AWTC facility is currently used for industrial operations and the future land use is expected to be used for commercial or industrial purposes. The environmental covenant places land use

restrictions that will be enforced as part of post-closure care and the Facility operations and maintenance (Section 6). The following presents a general summary of the ECs and ICs.

For the Facility Boundary

The environmental covenant includes the areas within the facility boundary described in Section 2.2 (AOC-1 and SWMUs-1,2,3,4,5,6,7, and 8).

- The Property (within the facility boundary) is limited to industrial or commercial land use only. The terms “industrial or commercial use” shall include, but not be limited to, cargo transport, shipment, transshipment and storage, manufacturing, processing operations, office and warehouse use, storage and sales of durable goods, rail transport and shipment, parking, and driveway use.

- The groundwater within the facility boundary will not be used for potable or irrigation, industrial, and agricultural application purposes. If groundwater extraction is required for construction or utility dewatering activities, groundwater should be managed and disposed of in accordance with applicable rules and regulations. If groundwater extraction is required, then the process will be documented and reported to ADEM in the annual report. Extracted groundwater should not be discharged into storm water system or surface waters without prior approval of ADEM.

For the Combined AOC-1 and SWMUs-1, 3,4,5,6 East and 8

- The covenant further requires specific actions for any land disturbance activities below the soil covers within the footprint of AOC-1 and SWMUs-1,3,4,5,6 East, and 8.

- The environmental covenant includes maintaining the sheet pile wall at the eastern boundary of combined AOC-1 and SWMUs-1,3,4,5,6 East and 8, but shall not restrict the routine maintenance, repair and upkeep for said sheet pile wall/shore protection wall structures, and the containment, fill material, cover and final asphalt or concrete surfacing, to be performed as needed in ASPA’s (or its assignee(s)) reasonable discretion.

For SWMU-6 West

- The covenant further requires specific actions for any land disturbance activities below the asphalt surfacing within the footprint of SWMU-6 West.

For SWMUs-2 and -7

As discussed in Sections 3.3.1 and 3.3.2, the restrictions to activities below the concrete cap constructed as part of the ADEM-approved closure of SWMUs-2 and -7 were previously recorded in the Mobile County, Alabama, Judge of Probate Real Property Book 3720, Page 638.

Because the Corrective Measures activities for SWMUs-2,4,5,6 East, 7, and 8 included a form of covering or capping with a finished elevation of +12 feet (NAVD 88) or below, the environmental covenant only restricts activities that need to be performed below elevation +12 feet in these areas. The areas of environmental covenant are depicted on Figure 8B.

4.5 Corrective Actions Summary

The remedial alternatives as recommended in the CMS have been implemented consistent with the CMIP and subsequent permit modifications. The primary objective of the remedial activities was overall protection of human health and the environment, with media-specific corrective measures identified in the CMS and used as the basis for selecting the corrective measures that were implemented during the CMI process. The above-described corrective actions and corrective actions systems have been in place for various lengths of time – active DNAPL recovery has been in operation since early 1994, while development activities including associated concrete covering were implemented during the prior permit period more recently. Construction and installation of the required corrective action systems is complete. ASPA has performed OM&M programs on the in-place corrective measures for the duration of this permit period with data from these activities provided to ADEM in various reports. The purpose of the OM&M program is to confirm the effectiveness of the implemented corrective measures. Sections 5 and 6 provide additional details for ongoing corrective action operations and the monitoring and inspection programs used to evaluate the effectiveness of the in-place corrective measures. Ongoing inspection and OM&M criteria for the multiple corrective action programs and systems in place will continue under this renewed permit.

5.0 GROUNDWATER INFORMATION – 335-14-8-.02(5)(c)1-2

The permit application regulations establish extensive information requirements relating to groundwater aquifers, contamination and monitoring systems (335-14-8-.02(5)(c)1-2 and 335-14-8-.02(5)(c)5-8). This section of the application summarizes this required information. Supplemental information is also contained in Appendices D and E.

5.1 Groundwater Monitoring Well System – 335-14-5-.06(8)

More than 70 monitoring wells have been installed across the AWTC facility since 1982. These wells were generally installed for specific groundwater assessment studies. Figure 8A shows the approximate locations of most of the wells that have been installed at the AWTC facility, with designations for the abandoned wells along with those still in use. All monitoring wells were installed pursuant to the RCRA groundwater monitoring requirements associated with the closure and post-closure monitoring for the former surface impoundments (SWMUs-2 and -7) and for Corrective Action activities associated with these regulated units and the other facility SWMUs. Figure 8B shows the current well network at the facility.

Monitoring efforts for the facility were initiated in 1982 and involved quarterly detection monitoring (Interim Status) of four shallow monitoring wells located north and east of the former surface impoundment. Quarterly monitoring of these wells was conducted from February 1982 through September 1984. These four wells have since been abandoned to allow the construction of the RCRA cap for the surface impoundments.

Five additional monitoring wells were installed in 1986. These wells, along with the four original detection monitoring wells, were used to collect groundwater elevations and samples for analysis during January and March 1986. Also in 1986, the AWTC JTC initiated a hydrogeologic investigation in accordance with the requirements of an Interim Status Groundwater Quality Assessment and to collect additional information required for the Post-Closure Permit. This investigation involved the installation of 23 monitoring wells in 1986 and an additional 26 wells from 1987 to 1989.

In April 1992, six additional wells were installed as part of the RCRA Corrective Action program for the groundwater contaminant plume and in accordance with ADEM Rule 335-14-5-.06. These six wells included three product recovery wells (RW-1, RW-2, and RW-3), two additional point of compliance monitor wells (5-I and 29-I), and one deep monitor well (8-DK) that is

screened below the deep clay layer. The recovery wells were installed as part of an interim remedial action for the facility. Additional monitoring wells were added to the network as part of the Phase II RFI effort.

ADEM approved the current Compliance and DNAPL Effectiveness Monitoring Program (refer to Section 5.8) as part of the 2003 permit renewal, as updated during the 2014 permit renewal. This monitoring Program consists of background wells, compliance/boundary wells and DNAPL effectiveness wells. Table 3 provides a listing of active wells at the AWTC facility, and Figure 8B shows the approximate location of these wells.

5.2 Monitoring Well Construction Specifications

Details of well construction data, drilling and construction procedures and well logs have been submitted to ADEM in previous reports. Summary well construction information for active wells is indicated on Table 3. Available installation logs for facility wells are provided in Appendix B, with notation of wells that are abandoned and no longer in use. Wells have been installed and screened to sample three groundwater zones: shallow, intermediate, and deep. The last unit in the alphanumeric designation for the monitoring wells indicates the groundwater zone which is screened: Shallow - S; Intermediate - I, Deep – D. The “R” designation represents the well is a replacement well.

5.3 Groundwater Use and Drinking Water Supplies

5.3.1 Groundwater Use

Large quantities of groundwater are available from permeable sands throughout Mobile County. The principal water bearing sands in Mobile County are in the Miocene series and in the Citronelle Formation of the Pliocene Series. The sands are referred to collectively as the Miocene-Pliocene aquifer. This aquifer generally will yield 1 million gallons per day (mgd) per well, and large wells tapping the aquifer will range in depth from 150 feet to 800 feet. This aquifer can be used for public water supply and industrial purposes in Mobile County. In addition, alluvium and low terrace deposits potentially yield 0.5 to 1.0 mgd per well. Locally, wells tapping these deposits yield large supplies where saturated sands are of sufficient thickness.

Overall, the quality of groundwater in the Miocene-Pliocene ranges from very poor to excellent. The most objectionable constituents are chlorides, total dissolved solids, and iron. Chlorides

and total dissolved solids can occur in high concentrations as a result of saltwater intrusion, which is especially significant in the floodplain of the Mobile River and Mobile Bay. Here, saltwater intrusion occurs as a result of surface water in the river mixing with shallow groundwater, thus degrading the quality of groundwater in the shallow aquifers near the river. In areas next to the Mobile River and Mobile Bay, groundwater may have a dissolved solids content that exceeds 10,000 milligrams per liter (mg/L), a sulfurous odor, and a chloride content that exceeds 500 mg/L. Water has a salty taste at 100 mg/L chlorides and the functional limit for water uses, including irrigation, is 250 mg/l. The Secondary Maximum Contaminant Level (MCL) for chlorides is 250 mg/L and for total dissolved solids is 500 mg/L. Both MCLs are indicative of salty tasting water.

The upper most aquifer at the AWTC site is not part of the Miocene-Pliocene aquifer, and there are no plans, nor is it feasible, to use the groundwater in the uppermost aquifer at the AWTC site for potable or irrigation use. The shallow zone of the formation is too thin to supply sufficient water for a domestic well. In addition, the shallow zone contains excessive fines, such that water supply wells would have to be cased through the upper 10 to 20 feet below land surface to mitigate possible turbidity. Below that depth, in the intermediate and deep portions of the aquifer, the aquifer is nonpotable due to saltwater intrusion (i.e., brackish). Intermediate and deep zones within the aquifer exceed the National Secondary Drinking Water Regulations standard and state MCL for total dissolved solids content of 500 mg/L.

5.3.2 Drinking Water Supplies

The water source for the public water system in the City of Mobile is Big Creek Lake Reservoir that is located more than 15 miles west (i.e., upgradient) of the AWTC site. The groundwater zones above the Miocene clay formation (i.e., the shallow, intermediate and deep zones) are not utilized as water supplies.

A 1984 RCRA 3012 Site Inspection Report presented the results of a survey of non-community drinking water wells in the Mobile area that noted no wells within two miles of the AWTC facility. In addition, city water is available at and throughout the area surrounding the AWTC facility.

A 2002 well survey indicated that there are no drinking water wells within 1 mile of the properties as defined on Figure 1, and the updated survey performed in 2024 similarly indicated no drinking water wells within 1 mile of the AWTC facility.

5.4 Groundwater Protection Standards

Section 335-14-5-.06(3) requires that groundwater protection standards be established under the permit that are protective of human health and the environment at the facility. These standards consist of both a list of hazardous constituents (335-14-5-.06(4)) and concentration limits (335-14-5-.06(5)). Four mechanisms for establishing GWPS are background concentration levels, USEPA Regional Screening Levels (RSLs) [formerly Preliminary Screening Values (PSVs)] drinking water MCLs, or ACLs. For the site-specific constituents currently being monitored on an annual basis as part of the current permit requirements, ASPA has successfully demonstrated the appropriateness of ACLs that are protective of human health and the environment for the AWTC facility. Therefore, ADEM approved ACLs for the AWTC facility for a list of constituents that were identified as reasonably expected to be associated with previous site operations. Based on historical groundwater assessment/monitoring activities and the known wood treating operations at the former AWTC facility (presented in Sections 2.5 and 2.6), a list of site-specific constituents (primarily SVOCs [predominantly PAHs and some phenolics) was developed. ACLs are site-specific groundwater concentrations that are developed according to published guidance and that are protective of human health and the environment. The ACL demonstration is included in the ADEM approved Final CMS Report (Harding ESE, 2001). The site-specific list of constituents and associated ACLs that were in effect for the duration of the current permit monitoring period (designated as 2013-2023) are provided on Table III.3 of the current Facility permit. ADEM requested that the ACL methodology be reviewed and updated as appropriate for the 2024 permit renewal application. Therefore, Table 6 herein presents the updated ACLs for the site-specific constituents, calculated in accordance with the methodology presented in Appendix F.

Site-specific factors used to demonstrate the ACLs included:

1. The facility, all contiguous properties, and all down-gradient properties to the Mobile River are of heavy industrial use and zoning

2. ASPA owns all the surrounding properties at issue and will utilize ICs to maintain industrial use in perpetuity

3. There is no current use of the surficial aquifer in the AWTC area and an environmental covenant has been recorded for the property that prohibits the use of groundwater as a potable source

4. Municipal water is provided throughout the area and the water supply source for this system is surface water in the western portion of Mobile County

5. The Background groundwater concentration for Total Dissolved Solids in the uppermost aquifer at the AWTC facility exceeds the regulatory limit for an underground source of drinking water (>10,000 mg/L) and therefore the aquifer is not suitable for use

The ACLs were developed based on the hazardous WMA concept discussed in Section 2.9 with the Point of Compliance and the Point of Exposure at the Mobile River. The ACLs for the AWTC facility were established for a list of constituents that were identified as reasonably expected to be associated with previous site operations based on information available at the initiation of the compliance monitoring program. With this application, the site-specific constituent list is updated to include aldrin, cobalt, 1,1-dichloroethane, 1,4-dioxane, vanadium, and vinyl chloride and their associated ACLs. As detailed in the applicable CMERs for the current permit monitoring period, these constituents were detected during annual monitoring at concentrations greater than the screening criteria for the groundwater compliance monitoring program and are thus moved into the groundwater corrective action monitoring program.

The GWPS for constituents detected under the Appendix IX compliance monitoring program are the MCLs or RSLs. As part of Appendix IX constituent monitoring that is performed under the ongoing compliance monitoring program, thirteen dioxin/furan congeners were detected during the current permit monitoring period that did not have corresponding screening criteria (i.e., MCLs or RSLs). Screening criteria for these constituents were developed in accordance with current USEPA guidance as presented in Appendix F. In addition, three dioxin/furan congener groups or “totals” were also reported as detected and are included in Table 8B for monitoring. These 13 dioxin/furan constituents, 3 dioxin/furan “total” groups, and four additional constituents, tin, cadmium, antimony, and cyanide, have been added to the compliance monitoring program list.

Further discussion of the evaluation of the groundwater quality data collected during this permit monitoring period, and basis for development of ACLs for additional constituents, is provided in Section 5.8.3. The details of the proposed corrective action and compliance monitoring programs for groundwater are further discussed in Section 5.9.

5.5 Point of Compliance

The point of compliance (POC) is typically designated as the vertical surface located at the hydraulically downgradient limit of the WMA that extends down into the uppermost aquifer underlying the regulated units 355-14-5-.06(6)(a). However, for the AWTC facility the POC has

been defined as the downgradient limit of the contaminant plume as determined in the Phase II RFI. The POC for the AWTC facility as approved by ADEM is shown on Figure 8B. Compliance is measured at the Compliance/Boundary Wells.

5.6 Point of Exposure

The point of exposure (POE) is the location of potential contact between a receptor (human or ecological) and the chemicals of concern. The POE for the AWTC facility is shown on Figure 8B.

5.7 Groundwater Assessment Data Summary

Section 335-14-8-.02(5)(c)1 requires that the permit application include a summary of the groundwater analytical data generated during the previous permit period.

Data for the groundwater contaminant concentrations during the period of the permit are from the compliance groundwater monitoring program implemented per the 2014 renewed permit. The groundwater program provides annual groundwater quality sampling and analysis for 18 wells. Table 7 presents the wells used in the Permit Compliance Monitoring Program. The wells include background well (19/SR), the deep aquifer well (8-DK), and the 16 boundary/point of compliance wells with well clusters grouped by shallow, intermediate and deep zones.

Groundwater analytical data for the groundwater monitoring program performed in accordance with the current permit has been provided in the Annual CMERs, provided to ADEM by ASPA since 2014. Table D-1 in Appendix D provides a summary of analytical results from the wells sampled in accordance with the current permit groundwater monitoring program. Information on the DNAPL effectiveness monitoring programs has been previously provided to ADEM in various reports and is updated in annual CMERs. Additional discussion of the historical and more recent groundwater quality monitoring programs is provided in the following subsections.

5.7.1 Description of Contaminant Plume

Section 335-14-8-.02(5)(c)4 requires a description of the existing plumes of contamination including a description of the 3-dimensional extent of the plumes (335-14-8-.02(5)(c)4.(i)) and the contaminant concentrations throughout the plume (335-14-8-.02(5)(c)4.(ii)).

The contaminant plumes at the AWTC facility originated from multiple sources. These sources include on-site SWMUs (e.g., 2, 4, 6, 7, 8) and adjacent or other nearby properties with documented groundwater contamination (e.g., Star, PM Ag, Shell Radcliff, McKenzie Tank Lines) that were located within the defined AWTC facility boundary. The groundwater plumes from these multiple sources commingled across the facility and downgradient of the facility. Figures 18, 19 and 20 provide data for the shallow, intermediate and deep zones of the uppermost aquifer, respectively, based on historical monitoring data in the more central portions of the AWTC facility. Well point concentrations are provided from various data sets for five selected parameters. The data sets include the average of analytical results reported in studies prior to the Phase II RFI, the results from the Phase II groundwater investigation, and the results from the semi-annual sampling event of June 1998 and data from the 2001/2002 Compliance Monitoring Program. The five parameters are naphthalene, total PAHs, 2,4-dimethylphenol, pentachlorophenol and benzo(a)pyrene. The figures also indicate the approximate leading edge of the site-wide groundwater contaminant plumes.

5.7.2 Groundwater Contaminant Distribution

Groundwater contamination was found to be widespread at the AWTC facility in agreement with previous studies. Significant contaminant concentrations were detected in SWMUs-4, 5, 6 and 8. However, distinct groundwater plumes from these general source areas are not discernable. Plumes from these large areas have dispersed and commingled. In general, the plumes extend to the Mobile River.

5.7.2.1 Historical Information

5.7.2.2 Shallow Zone

Shallow monitoring wells 1-S, 6-S, 8-S, 12-S, and 32-S were sampled in May 1998 as part of the Phase II RFI. Laboratory analyses of groundwater samples collected during Phase II RFI activities indicate that two monitor wells, 6-S and 12-S, were the only wells with detectable contaminant concentrations in the shallow aquifer. Well 6-S is in SWMU-5 area and downgradient of the closed surface impoundments. Monitoring well 12-S is in the SWMU-4 area. Both wells contained acenaphthene, anthracene, fluoranthene, fluorene, phenanthrene, and pyrene. Naphthalene was only detected in well 6-S, and benzo(a)pyrene was only detected in 12-S.

Wells 19-S and 2-S were sampled in June 1998 as part of the semi-annual program. 19-S is the background well and indicated concentrations below detection limits for all parameters. Well 2-S, in the SWMU-5 area and downgradient from the closed surface impoundment had detectable concentrations of naphthalene, total PAHs, carbazole and 2,4-dimethylphenol.

As illustrated in Figure 18, the leading edge of the groundwater plume in the shallow zone was in confluence with the Mobile River near wells 7-S, 8-S and 15-S. The constituents detected (primarily benzene, toluene, ethylbenzene, and xylene) in Well 8-S are more representative of impacts resulting from fuel releases than from creosote. This likely reflects impacts associated with the former McKenzie Tank Lines property.

5.7.2.3 Intermediate Zone

Laboratory analyses of Phase II RFI groundwater samples indicate that nine intermediate monitor wells contained detectable concentrations of PAH constituents: 6-I, 8-I, 11-I, 12-I, 13-I, 16-I, 23-1, 25-1, and 26-I.

The June 1998 semi-annual sampling detected contamination in two wells near the closed surface impoundment: 5-I and 29-I. Well 5-I had concentrations of 3,343.8 micrograms per liter (µg/L) for total PAHs and 438 µg/L for carbazole. Well 29-I had total PAH and carbazole concentrations of 6,523 and 467 µg/L respectively and a pentachlorophenol concentration of 1,040 µg/L.

Pentachlorophenol was reported in the following wells 12-I (9.6 µg/L), 13-I (2.5 µg/l), and 23¬I (0.4 µg/L) when USEPA Method 8151 was employed. Analyses of groundwater samples for benzo(a)pyrene using USEPA Method 8310 indicated reportable concentrations in the following wells: 12-1 (0.36 µg/L), 13-I (0.24 µg/L) and 26-I (0.2 µg/L).

Figure 19 summarizes results from Pre-Phase RFI, Phase II RFI, and 2001/2002 Compliance Monitoring Sampling events for selected parameters in the intermediate wells. PAH constituents were reported in groundwater samples collected from wells 5-I, 6-I, 8-I, 11-I, 12-I, 13-I, 16-I, 23-I, 25-I, 26-I, and 29-I. Wells 5-I, 6-1, 23-I, and 29-I are located approximately downgradient of the closed surface impoundment area (SWMU-2). Wells 11-I, 12-I, 13-I, 25-I, and 26-I are located near SWMU-4. Wells 8-I and 16-I are located near the former McKenzie Tank Line and PM Ag facilities, respectively.

The intermediate zone groundwater contaminant plume is more widespread than that of the shallow zone, as would be expected from the calculated groundwater velocities. The leading edge for the plume appeared to be in confluence with the Mobile River and Choctaw Pass along most of the eastern and southeastern shoreline. These results are consistent with the demonstrated groundwater flow direction.

5.7.2.4 Deep Zone

Laboratory analyses indicate that five of the deep monitor wells sampled in May 1998 as part of Phase II RFI activities contained detectable PAH contaminant concentrations: 10-D, 17-D, 18-D, 23-D and 31-D.

Figure 20 presents information on the extent of contamination in the deep zone for selected parameters from Pre-Phase II RFI studies, the Phase II RFI sampling, and the Compliance Monitoring Program for 2001/2002. The leading edge of the groundwater plume does not appear to have reached the Mobile River. The areal extent of the plume is significantly less than that of the intermediate zone and somewhat smaller than that of the shallow zone. Relatively low levels of total PAH concentrations were detected in the some of the extreme southwest wells (16-I, 31-D and 10-D), and may be indicative of non-AWTC facility sources.

5.7.2.5 Current Permit Period Information

As previously indicated, groundwater analytical data for the groundwater monitoring program performed in accordance with the current permit has been provided in the Annual CMERs. A summary of analytical results collected during the current permit monitoring period (designated as 2013 through 2023 based on the timing of the initial submittal of the previous permit renewal application in early 2013) for the wells in the compliance monitoring program is provided in Table D-1 in Appendix D. Table D-1 presents results for the site-specific list of constituents, results from each Appendix IX sample event (performed annually on a five-year rotating schedule, as described in Section 5.9), along with additional constituents detected during routine Appendix IX sampling events. It is noted that Table D-1 is provided as a comprehensive summary of results for constituents analyzed at program wells in accordance with the compliance monitoring program; the annual CMERs present tabulated results of constituent positive detections for each subject monitoring period and provide additional details including evaluation in comparison to applicable screening criteria. In addition to the routine annual sampling program for the 18 boundary/compliance and background wells, six DNAPL

effectiveness wells (6-I, 6-S, 17-D, 21-I, 23-D and 23-I) are sampled biennially in even calendar years, to provide an update of groundwater quality interior to the site. Analytical results for these six wells are provided on Table D-2 in Appendix D. Using information previously provided to and approved by ADEM from annual CMERs, Figure 21 presents the current extent of groundwater contamination. This figure was prepared using June 2021 monitoring results for the 18 program wells sampled annually for the site-specific constituent list, with June 2020 results provided for the six DNAPL effectiveness wells used to evaluate groundwater quality in the historical plume footprint. Similar to the historical presentation of groundwater quality results, data from the current program is summarized for 2,4-dimethylphenol, benzo(a)pyrene, naphthalene, pentachlorophenol, and total SVOCs. Because the list of total PAHs has changed over the course of the monitoring program, updated summary results are provided for the list of analytes for SVOC (Method 8270) analysis that includes total PAHs and phenols (and excludes phthalates which were not previously analyzed). Similar to previous, the sum of detected, site-specific SVOC constituents (total SVOCs or total 8270) is used to help simplify the spatial presentation of the data.

Results for the six interior wells (6-I, 6-S, 17-D, 21-I, 23-D and 23-I) shown on Figure 21 generally indicate lower concentrations of the monitored site-specific constituents in the June 2021 event compared to historical concentrations shown on Figures 18 to 20. As shown on Figure 21, results for several of the wells in the compliance monitoring program are generally consistent with Phase II RFI results. Concentrations in wells along the eastern portion of the facility (the 7-, 15-, and 8- series well clusters) were in a similar range of previously observed concentrations. Similarly, wells 16-I and 16-D south/southwest of the facility indicated concentrations of total SVOCs generally consistent with historical observations. Results in nearby wells 32-S and 32-I remained non-detect. These wells are near the former PM Ag facilities. Section 5.8.3 summarizes in more detail the results of the compliance monitoring program over the 10-year permit period.

5.8 Groundwater Monitoring Program

5.8.1 General Description of RCRA Permitting Requirements for Post-Closure Care Groundwater Monitoring

Three types of groundwater monitoring programs (detection, compliance and corrective action) are specified in the regulations at 335-14-8-.02(5)(c). The detection monitoring requirements

(335-14-8-.02(5)(c)6) are applicable if no hazardous constituents have been detected at the facility. Hazardous constituents have been detected at the AWTC facility and therefore the requirements of the detection monitoring program are not applicable.

The compliance monitoring program requirements (335-14-8.02(5)(c)7) are applicable if hazardous constituents have been detected in the groundwater at the time of the permit application at concentrations less than the GWPS. At this time, contaminants detected in groundwater meet these requirements. A compliance monitoring program is appropriate and is discussed further in the following sections.

If the hazardous constituents exceed the concentrations of the GWPS established under 335-14-5-.06(5), including site-specific ACLs, then the owner is required to establish a corrective action program (335-14-58-.02(5)(c)8). These requirements include a groundwater monitoring program sufficient to characterize the contamination and demonstrate the effectiveness or adequacy of the corrective action program.

The applicability of the various groundwater monitoring programs to a site is determined based on the concentrations of constituents detected in the groundwater relative to the applicable GWPS. According to Part B Permitting Requirements, the permittee is required to submit the details of the groundwater program applicable to the site to be permitted. The following sections provide the background and details for the various groundwater monitoring programs applicable for the AWTC facility (historical and current).

5.8.2 AWTC Groundwater Monitoring Programs Details

Historically (since 1991), the AWTC facility has been under two of the three types of RCRA Groundwater Monitoring Programs. The following table identifies the progress and briefly summarizes the timeframes each program was in effect and provides the rationale for that Program relative to the AWTC facility.

Time Frame	Monitoring Program	Rationale
1991–2001	Corrective Action Monitoring Program	The GWPS established in the 1991 AHWMMA Post-Closure Care Permit were MCLs/Background. Because constituent concentrations in groundwater exceeded MCLs/background, the AWTC triggered the Corrective Action Monitoring Program requirement.

Time Frame	Monitoring Program	Rationale
2001–present	Compliance Monitoring Program with DNAPL Effectiveness Monitoring	With the approval of ACLs as GWPS, the AWTC reverted to a Compliance Monitoring Program for Groundwater Monitoring.

Further details of these Groundwater Monitoring Programs are provided below.

5.8.2.1 1991 Post-Closure Permit: Corrective Action Groundwater Monitoring Program

As indicated previously in this Application, because constituent concentrations in groundwater exceeded the GWPS (i.e., MCLs/Background/analytical method detection limits) in place during 1991, at the time of permit issuance the ASPA was required to initiate a corrective action monitoring program. The conditions of the 1991 Post-Closure Permit established a Corrective Action Groundwater Monitoring System at the AWTC facility consisting of five wells:

Background Well 19-S
Deep Well 8-DK
Point of Compliance Wells 2-S, 5-I, 29-I

No boundary or effectiveness wells were established under the 1991 permit. The groundwater monitoring program included semi-annual sampling for a specific list of K001 constituents and field parameters as identified in the 1991 permit. The program also required that groundwater elevations be recorded at all wells during the semi-annual events. In 1998, a requirement was added that a DNAPL survey be performed at all wells semi-annually. A summary of results from historical monitoring program data was provided in Section 5.7.2.

5.8.2.2 Compliance and DNAPL Effectiveness Monitoring Program

In 2001, with the approval of ACLs as the GWPS, the AWTC facility moved from Corrective Action Effectiveness Monitoring to a Compliance Monitoring Program for groundwater. In addition, and relative to the presence of DNAPL in the subsurface, a DNAPL effectiveness monitoring program is conducted to evaluate the effectiveness of the DNAPL recovery systems. Details of these programs as implemented for the duration of the 10-year permit period are provided below. A summary of recent results from the Compliance Monitoring Program is provided in Section 5.7.2; a more detailed evaluation of results from the program over the

10-year permit period are provided in Section 5.8.3. Proposed changes to the current permit monitoring program, to be in effect for a renewed permit, are discussed in Sections 5.8.3 and 5.9.

Compliance Monitoring Program for Groundwater

In accordance with Section 335-14-8-.02(5)(c)7 the details of the Compliance Monitoring Program must be provided in the Part B Application if hazardous constituents have been detected at the POC at the time of the Application. The requirements and the information necessary to satisfy those requirements relative to the AWTC facility, and as implemented during the current permit period, are provided in the table below. Proposed changes to the current permit monitoring program, to be in effect for a renewed permit, are discussed in Sections 5.8.3 and 5.9. The table refers the reader to other Sections within this Permit Application or to prior approved agency submittals or communications.

ADEM Section 335-14-5.-06(10)…	**Requirement**	**Required Information**
(a)1.	List of Hazardous Constituents	Section 5.4 and Table 6
(a)2.	Concentrations Limits	Section 5.4 and Table 6
(a)3.	POC	Section 5.5 and Figures 2B and 8B
(a)4.	Compliance Period	30 years from 1991 (2021) or 3 years after corrective actions completed and GWPS not exceeded
(b)	Groundwater monitoring System	The groundwater monitoring system is comprised of monitoring wells as identified in ADEM letter dated Nov. 19, 2001 and presented on Table 7. The WMA and POC are discussed in Sections 2.9 and 5.5 of this Application.
(c)	Sampling Procedures and Statistical Methods consistent with 335-14-5-.06(8)(g) & (h)	Sampling procedures are provided in the Operations Maintenance and Monitoring Plan (See updated CMIP Appendix C). Statistical Evaluations may be performed on data at the POC to evaluate compliance with the GWPS in accordance with the process described in this Section.

ADEM Section 335-14-5.-06(10)…	Requirement	Required Information
(d)	Determination of statistically significant increase	Statistical Evaluations may be performed on data at the POC to evaluate compliance with the GWPS in accordance with the process described in Section 5.8.2.2.
(e)	Groundwater flow rate and direction	The groundwater flow rate and direction will be determined at least annually. (Section 2.12)
(f)	Sampling frequencies and statistical analysis	In accordance with correspondence from ADEM dated Nov. 19, 2001, and the current permit, the background and compliance/boundary wells are monitored annually.
(g)	Appendix IX Annual Sampling	Annual evaluation with a five-year rotating schedule for designated wells. This is further discussed in Section 5.9.
(h) - (j)	Requirements in the event that GWPS are exceeded	Section 5.8.2.2

As previously described, creosote constituents associated with releases from the past wood-treating operations have been detected in groundwater at the AWTC facility. ASPA performed compliance monitoring under ADEM 335-14-5-.06(10) to determine whether releases from the regulated units and SWMUs within the WMA are causing an exceedance of GWPS (i.e., concentration limits established in accordance with ADEM 335-14-5-.06(5)(a)3) at the POC).

Groundwater monitoring constituents have been identified, and Groundwater Protection Standards have been developed for each of these constituents, as described in Section 5.4. Table 6 lists each of the identified, site-specific monitoring constituents and the associated GWPS for each constituent consistent with the current permit requirements. Details of these programs as implemented for the duration of the 10-year permit period are provided below. Proposed changes to the current permit monitoring program, to be in effect for a renewed permit, are discussed in Sections 5.8.3 and 5.9.

As discussed in Section 2.9, the nature (creosote constituents) and extent of groundwater contamination are such that a Waste Management Area Concept approach was adopted (ADEM 335-14-5-.06(6)(b) and ADEM 335-14-5-.06(1)(f)(1)) for compliance monitoring for the AWTC facility. Groundwater contamination associated with releases from individual units

(regulated units and SWMUs) cannot be isolated to individual release areas (i.e., a single, co-mingled plume of groundwater contamination exists within the WMA). The POC has been defined per ADEM 335-14-5-.06(6) and is located as shown on Figure 8B.

Groundwater Program Monitoring Frequency

In accordance with the Compliance Monitoring Program, samples were collected annually from the background wells, POC wells, and Well 8-DK (Table 7) during the 10-year compliance period. The samples were analyzed in the laboratory for the site-specific constituents identified on Table 6, and for applicable detected Appendix IX constituents consistent with requirements in place for the permit monitoring period (further described in the next section).

The constituents detected under the Appendix IX compliance monitoring program are summarized in Table 8B and these constituents are also analyzed on an annual basis from the background wells, POC wells, and Well 8-DK during the 10-year compliance period as noted above. With this permit renewal application, four metals, 13 dioxin/furan congeners, and 3 “total” dioxin/furan groups are added to the list of detected Appendix IX constituents (Table 8B). The USEPA RSLs were reviewed and updated in accordance with the current version of the USEPA RSL Summary Table (TR=1E-06; HQ=0.1, November 2023).

In addition, as discussed in Section 5.9.1, groundwater samples from specific wells are analyzed annually for the complete Appendix IX list with the wells to be tested changing every year on a five-year rotating basis.

Compliance monitoring is not applicable to the DNAPL effectiveness program wells located interior to the site. See the information in the following sections for the sampling and analytical program specific to the DNAPL effectiveness wells.

The site-specific constituents (Table 8A) are monitored as what is designated as the corrective action monitoring program under the permit. With this permit renewal application, ACLs are provided for aldrin, cobalt and 1,1-dichloroethane and incorporated into Table 6 and Table 8A. ACLs were calculated for vanadium and vinyl chloride and incorporated in the permit, but the constituents remained identified under the compliance program. Therefore, with this renewal application, vanadium and vinyl chloride are moved to the corrective action monitoring program.

The ACLs for these constituents, as well as for the other constituents listed in Table 6 and Table 8A were updated as appropriate in accordance with methodology presented in Appendix F.

Information for the program as implemented during the current permit period is discussed herein, and proposed changes to the current permit monitoring program, to be in effect for a renewed permit, are discussed in Sections 5.8.3 and 5.9. The field sampling and laboratory analyses procedures have been as described in the Field Sampling Analysis Plan (FSAP), located in the updated CMIP Appendix C

Groundwater elevations were obtained semi-annually. These elevations are used to provide the annual determination of the groundwater flow rate and direction as required by ADEM 335-14-5-.06(8)(f).

Statistical Procedures

A statistical interval method is appropriate when comparing compliance well concentrations with fixed limits. In accordance with ADEM 335-14-5-.06(8)(h) and (i), the groundwater data collected at each POC well may be statistically compared using either confidence or tolerance intervals. The comparisons will be used to determine compliance with the GWPS for each constituent detected above GWPS at the POC.

Prior to issuance of the 2003 permit, only limited data was available for most of the designated POC wells. Therefore, ASPA generally considers analytical data reported in the 2003 permit application to be the starting point for the POC well data used for statistical analysis. At least four events of data are recommended for statistical evaluation. For evaluation of annual groundwater quality results, ASPA directly compared groundwater analytical results at each POC well to the respective GWPS for each constituent. Consistent with procedures established in the 2013 permit application and in the permit, statistical comparisons using either confidence or tolerance intervals may be used for the groundwater data collected at each of the POC wells to determine compliance with the GWPS for each constituent detected above GWPS at the POC in accordance with ADEM 335-14-5-.06(8)(h) and (i) and 335-14-5-.06(10)(d). Discussion of statistical evaluation performed as part of the current permit monitoring program is provided in Section 5.8.3.2. The statistical procedures proposed for use in the monitoring program in effect for a renewed permit are discussed in Section 5.9.3.

DNAPL Effectiveness Monitoring Program

In the letter dated November 19, 2001, ADEM approved the DNAPL effectiveness monitoring program, and the program has been performed during this permit monitoring period. In addition to the compliance monitoring program for groundwater, ASPA monitors DNAPL effectiveness wells semi-annually for the presence/thickness or absence of DNAPL. These DNAPL effectiveness wells are located downgradient of known areas of DNAPL. By monitoring these wells, ASPA evaluates if the source removal corrective action is effectively preventing the spread of separate phase.

There are 13 DNAPL effectiveness monitoring wells (6-S, 6-I, 11-S, 11-I, 12-I, 13-I, 17-D, 18-DR, 21-I, 23-1, 23-D, 25-I and 26-I). The purpose of these wells is to evaluate the progress of the DNAPL recovery efforts. Additionally, six of these wells (6-S, 6-I, 17-D, 21-I, 23-I and 23-D) are monitored on a biennial basis to update groundwater quality interior to the site.

5.8.3 AWTC Monitoring Programs Summary of Results

Details of the compliance monitoring program that is in place for groundwater, and the DNAPL effectiveness monitoring program in place to evaluate the effectiveness of the DNAPL recovery systems, were summarized above. These programs have been implemented for the duration of the 10-year permit period (2013 through current). The following sections provide evaluation of the results from these programs over the 10-year permit period (2013-2023). The information is summarized based on the two main components of the groundwater quality program (the Appendix IX analysis and analysis for the site-specific list of constituents), followed by results of the DNAPL effectiveness monitoring program. Based on evaluation of the data collected over the past 10 years, changes to the programs are recommended. These proposed changes are presented herein.

5.8.3.1 Appendix IX List

During a previous Permit period (based on the Permit issued in August 2003), ASPA conducted Appendix IX sampling and analysis at the POC wells and background on a 5-year interval. Based on the prior permit schedule, Appendix IX events were performed in 2004 and 2009. As described in the 2014 CMER, because Permit renewal was still ongoing at the time of the June 2014 sampling event, the 2014 Appendix IX sampling event was performed in accordance with 2003 Permit requirements. After a renewed Permit was issued in September 2014, subsequent

Appendix IX sampling events performed during this Permit period were in accordance with the renewed Permit. The list of monitored constituents is based on the Appendix IX list of 40 CFR Part 264, and ADEM 335-14-5 Appendix IX Monitoring List. Analytical results for wells designated for Appendix IX events performed at the Compliance Monitoring Program wells throughout the current Permit period (in 2013 to 2023) are provided on Table D-1 in Appendix D.

As reported to ADEM during each CMER submitted by ASPA, Appendix IX constituents have been detected above laboratory reporting limits during compliance monitoring. The detected Appendix IX constituents were compared to the screening criteria applicable to each event. As shown on Table 8A, the site-specific monitoring list has been revised to include constituents added based on annual monitoring from 2013 through current, and as reported in the annual CMERs. Additionally, as stated in Section 5.4, for constituents detected during the Appendix IX compliance monitoring program that did not exceed applicable screening criteria, Table 8B has been updated to present the current compliance monitoring program list of constituents for analysis.

Based on former and current operations at the AWTC Facility, a site-specific list of constituents was previously developed (Table 6). This list of potentially site related constituents, as updated for this renewal application, includes constituents from the following constituent groups: volatile organics (analytical method SW 8260), SVOCs (analytical method SW 8270) and inorganics (metals, analytical method SW 6010). In addition, pesticides (aldrin) (analytical method SW 8081), although not confirmed to be site-related, were added based upon detection in groundwater.

5.8.3.2 Alternate Concentration Limits

ASPA presented alternate concentration limits (ACLs) for each site-specific constituent in the 2013 permit renewal application. ADEM approved those ACLs with the issuance of the September 2014 Permit. ADEM has requested that ASPA re-evaluate the ACLs and submit updated ACLs for each site-specific constituent in this 2024 permit renewal application. As requested, ASPA has re-evaluated the ACL calculations ensuring that all methods and assumptions are still relevant and appropriate. The updated ACLs (to be included in the permit renewal) are included in Table F-I in Appendix F.

5.8.3.3 Constituent Additions to the Permit

Collectively, Table 8 presents a summary of the proposed constituents for analysis and the corresponding laboratory methods; Table 8A presents the site-specific monitoring list, Table 8B presents the list of constituents detected during Appendix IX compliance monitoring and therefore designated as constituent additions to the Permit, and Table 8C summarizes the constituent groups and associated analytical methods evaluated as part of each Appendix IX event.

With the current renewal application, aldrin, cobalt, and 1,1-dichloroethane, are added to the site-specific constituent list (Table 8A) with ACLs calculated per the methodology presented in Appendix F. Vanadium and vinyl chloride, constituents already represented by ACLs, are moved from the compliance monitoring list (Table 8B) to the site-specific constituent list (Table 8A). At the request of ADEM, the ACL methodology was reviewed and updated as presented in Appendix F and the ACLs used to represent the site-specific constituents have been adjusted accordingly.

In addition, four metals (tin, cadmium, antimony, and cyanide), three dioxin/furan “total” groups, and 13 individual dioxin/furan congeners have been added to the compliance monitoring program list presented on Table 8B. Five constituents not presented on the Appendix IX list were errantly analyzed and reported by the laboratory. These five constituents, isopropylbenzene (cumene), cyclohexane, methylcyclohexane, n-propyl benzene, and 1,2,3-trimethylbenzene, have currently been included in the compliance monitoring program (Table 8B). Once sufficient data has been collected, these constituents will be re-evaluated in accordance with current data evaluation protocols (e.g., statistical analyses, outliers, etc.), to confirm whether they should remain in the program. If the constituents are shown not to require retention, then ASPA will submit a request to remove them from permit Table III.3.

The screening criteria previously presented for the dioxin/furan “total” groups included in the compliance monitoring list have been removed as the dioxin/furans will be evaluated on a congener-specific basis. The dioxin/furan “total” groups will still be analyzed for and reported, but the data will not be compared to screening criteria. The USEPA RSLs used as screening criteria for several compliance monitoring program constituents were reviewed and updated in accordance with the current version of the USEPA RSL Summary Table (TR=1E-06; HQ=0.1, November 2023).

ASPA proposes that the constituents shown in Table 8B be incorporated into Table III.3 of the Permit. The constituents listed in Table 8B will be monitored as part of the compliance monitoring program. The constituents listed in Table 8A will be monitored as part of the corrective action monitoring program as further described in the following subsections.

5.8.3.4 Groundwater Quality Site-Specific List

A summary of the data and evaluation of the analytical results from the boundary/compliance monitoring wells and the background well sampled during this permit monitoring period (2013-2023) is provided herein in Table D-1 in Appendix D. Table D-2 in Appendix D presents results for the six DNAPL effectiveness wells sampled biennially in even calendar years, to provide an update of groundwater quality interior to the site. This information has been presented in the CMERs and associated communication and follow-up reporting that was provided based on information presented in the Annual reports.

At the request of ADEM during the permit renewal process, ASPA completed a review of the calculations used to generate the ACLs. The details of this review, including a summary of the response calculations and assumptions, are provided in Appendix F. Based on this review, ACLs for 19 of the site-specific constituents were revised. Table 8A provides the updated proposed ACL values for site-specific constituents proposed for monitoring in the revised permit.

5.8.3.5 Summary of Results for DNAPL Effectiveness Monitoring Program

The activities and performance associated with the DNAPL RWS and MWRS are evaluated during the semi-annual DNAPL effectiveness survey. The RWS at the AWTC facility began recovery operations in March 1994 and initially consisted of three recovery wells (RW-1, RW-2 and RW-3). The RWS was expanded during CMI implementation and now includes three additional deep DNAPL recovery wells: RW-6, RW-7, and RW-8. Well 17-S, formerly part of the MWRS, was previously converted to be part of the RWS. The locations of the RWS wells are shown on Figure 8B. Originally, DNAPL was transported from the recovery wells using positive displacement piston pumps through underground piping to a recovery system. However, due to the non-operation of pumps, even after implementing a trial of new double piston pump, no DNAPL was recovered from RW-3 through RW-8 from 2014 to 2023. As such, ASPA implemented a DNAPL Recovery Pilot Study in 2021 and 2022 to evaluate the viability of EFR as a method for removing DNAPL, which was successful in removing over 157 equivalent

gallons of creosote. To date, including the volume removed during the pilot study, over 35,000 gallons of DNAPL has been pumped from the RWS DNAPL recovery system.

The MWRS originally included fourteen monitoring wells and recovery well RW-1. Through changes associated with IM and CMI activities, including the abandonment of several MWRS as part of CMI implementation, the MWRS now consists of a total of six wells: five monitoring wells (4-D, 4-DK, 18-IR, 20-I, and 21-S) and one recovery well (RW-1). The locations of the MWRS wells are shown on Figure 8B. The MWRS program, which has been in operation since July 28, 1998, uses a trailer-mounted, mobile system to power dedicated, pneumatic QED-brand pumps. The QED pumps allow DNAPL removal from the 2-inch monitoring wells. Manual recovery of DNAPL from the MWRS has been performed semi-annually since 2000. Since the CMI system adjustments in 2004, over 350 gallons has been recovered from the six MWRS program wells.

Consistent with permit requirements, the 13 designated DNAPL effectiveness monitoring wells are surveyed semi-annually for the presence of DNAPL. The ASPA conducts these semi-annual surveys concurrently with the June and December groundwater water level events. As previously summarized, analytical results from interior wells indicate lower concentrations of site-specific constituents based on limited 2020 sampling compared to historical results. Based on the continued absence of DNAPL in the DNAPL effectiveness wells along with decreasing concentrations of site-specific constituents near the MWRS wells, the DNAPL recovery efforts appear to have limited DNAPL migration from the main source areas.

The above systems have been in place since 1994, and the RWS will continue to be monitored with the recovery volumes, etc. provided in the effectiveness reports. The MWRS program has produced more limited recovery volumes than the RW system. Section 6 describes ongoing OM&M and effectiveness monitoring criteria for the DNAPL recovery systems and associated effectiveness monitoring wells. The OM&M Plan/FSAP also details inspection and OM&M criteria for the components of the DNAPL recovery systems and other ICs in place at the AWTC facility, along with the plan and procedures associated with the groundwater monitoring program.

At the request of ADEM during the previous permit renewal process, to supplement the DNAPL effectiveness monitoring program and support termination criteria presented in Section 6 and the updated OM&M, ASPA currently samples select DNAPL effectiveness monitoring wells

(wells 6-I, 6-S, 17-D, 21-I, 23-D and 23-I) biennially for indicator site-specific constituents. A summary of recent results for the program was provided in Section 5.7.2.5.

5.9 Groundwater Monitoring Plan and Procedures

5.9.1 Groundwater Monitoring Plan

A groundwater monitoring system and plan consists of several components including analytical parameters, groundwater wells, sampling frequency, program duration and procedures. Based on data interpretation and recommendations provided in Section 5.8, Tables 8A and 8B present the revised groundwater monitoring program and GWPS, and Table 8C documents the constituent groups for annual Appendix IX analysis. It should be noted that the ASPA has divided the monitoring program into two categories: 1) the constituents that have been detected at the site for which an ACL was calculated (Table 8A) and 2) constituents detected as part of the Appendix IX compliance monitoring program below applicable screening criteria (Table 8B). Table 9 also details the wells and piezometers used in the monitoring program, and the frequency of measurement/monitoring associated with each well type. This information is discussed below and in more detail in the updated OM&M (See CMIP Appendix C).

The monitoring wells for the system consist of four types. The background well provides information on the upgradient, ambient groundwater conditions. Deep wells are used to demonstrate groundwater conditions in the lower aquifer below the site (i.e., below the confining layer to the uppermost — the Miocene clay). Compliance wells/boundary (i.e., POC) wells are used to monitor groundwater conditions at the POC. Effectiveness wells are used to demonstrate or monitor the effectiveness of DNAPL Recovery System.

The monitoring system consists of the following wells:

Background Well	19-SR (shallow)
Compliance/Boundary Wells	7-D, 7-1R, 7-S, 8-D, 8-I, 8-S, 9-I, 15-S, 15-D, 15-I, 16-D, 16-I, 31-IR, 31-DR, 32-I, 32-S
DNAPL Effectiveness Wells	6-S, 6-I, 11-S, 11-I, 12-I, 13-I, 17-D, 18-DR, 21-I, 23-I, 23-D, 25-I and 26-I
Boundary Monitoring Well	8-DK (deep)
Piezometers	PZ-1-S, PZ-1-D, PZ-13-D, PZ-16-S, PZ-19-I, PZ-30-D

The specified DNAPL effectiveness, compliance/boundary wells will be sampled for constituents listed on Tables 8A through 8C and the updated OM&M Manual. Table 9 further describes the sampling frequency. The Corrective Action and Compliance Monitoring Programs will continue through the permit life. Effectiveness wells for the DNAPL recovery system will be monitored semi-annually for the presence of DNAPL, with sample collection and analysis from select wells (6-I, 6-S, 17-D, 21-I, 23-D and 23-I) for the site-specific constituents (Table 8A) on a biennial frequency consistent with the program summarized in Section 6 herein, and further described in Section 4.2 of updated OM&M (Appendix C to the CMIP, with updated revisions submitted as a standalone submittal).

Additionally, as part of the prior permit renewal process, ADEM requested that the Appendix IX monitoring program be revised so that Appendix IX evaluation would occur on an annual basis under a renewed permit. Consistent with the current program, a program for Appendix IX evaluation at select POC wells, on a rotating basis annually, is provided herein.

For wells designated below, sampling on a rotating basis every five years can provide adequate evaluation of the presence of additional hazardous constituents in the uppermost aquifer. The program will continue as summarized below, and on Table 9.

Year 1 (2024): 7-S, 7-IR, 7-D

Year 2 (2025): 31-IR, 31-DR,

Year 3 (2026): 15-I, 15-S, 15-D

Year 4 (2027): 8-I, 8-D, 8-S

Year 5 (2028): 9-I,19-SR,16-I, 16-D

The program will repeat on a similar frequency for years following. Table 8C presents the constituent groups to be analyzed during Appendix IX sampling.

5.9.2 Groundwater Sampling and Analysis Procedures

The procedures for groundwater sampling and analysis are included in the Groundwater Sampling and Analysis Plan (provided as an enclosure to the updated OM&M Manual). The procedures for executing planned field activities and applicable sampling and laboratory analysis are in general accordance with the operating procedures and guidance outlined in the most recent version of the *Alabama Environmental Investigation and Remediation Guidance*

(*AEIRG*) (ADEM, 2017) and the *USEPA Region 4 Quality System and Technical Procedures for Laboratory Services and Applied Science Division (LSASD, formerly SESD)* guidance documents, with specific details/deviations provided in the Field Sampling and Analysis Plan (FSAP).

5.9.3 Statistical Procedures

A statistical interval method is appropriate when comparing compliance well concentrations with fixed limits. In accordance with ADEM 335 14-5-.06(8)(h) and (i), the groundwater data collected at each POC well may be statistically compared using either confidence or tolerance intervals. The comparisons will be used to determine compliance with the GWPS for each constituent detected above GWPS at the POC.

For evaluation of annual groundwater quality results, ASPA will directly compare groundwater analytical results at each POC well to the respective GWPS for each constituent. If a constituent exceeds the GWPS (i.e., the ACL) at any POC well (may be confirmed by resampling within 30 days of receipt of analytical data) during this interval, ASPA may initiate statistical evaluation of the data. Consistent with procedures established in the 2003/2014 permit applications and in the permit, statistical comparisons using either confidence or tolerance intervals may be used for the groundwater data collected at each of the POC wells to determine compliance with the GWPS for each constituent detected above GWPS at the POC in accordance with ADEM 335-14-5-.06(8)(h) and (i) and 335-14-5-.06(10)(d) and (h). These protocols are proposed to remain in place as part of the Compliance Monitoring Program. Each data set will be reviewed for statistical outliers. The outlier test is described in the USEPA Guidance (USEPA, 2022). A constituent concentration value that is significantly different (in orders of magnitude) from other data values in a set for the same constituent is defined by USEPA as an "outlier" and should not, therefore, be used in the statistical analyses of that data set. In the case that an outlier is identified, ASPA will attempt to determine the cause of the outlier (i.e., laboratory error, field label issues, etc.) and resample if appropriate. After evaluation for outliers, the distribution of the data set will be evaluated using a test of normality consistent with the size of the data set. Based on the distribution of the data set, a parametric or nonparametric interval analysis will be performed. The statistical evaluation may be performed within 90 days of receipt of analytical results and reported in the annual report. In the event that a GWPS is exceeded based on the statistical evaluation, ADEM will be notified in writing within seven days of determining that there is statistically significant evidence of increased contamination for one or more site-specific

constituents as defined by 335-14-5-.06(10)(d). Once confirmed that an exceedance has occurred, ASPA will initiate a Corrective Action Planning process consistent with ADEM 335-14-5-.06(10)(h)&(i).

5.9.4 Proposed Reporting

Compliance monitoring, including the statistical comparison with the GWPS (if applicable) and the annual groundwater flow rate and direction determination, will be reported annually in an Annual Groundwater Monitoring and Corrective Measures Effectiveness Report (CMER). Monitoring of the DNAPL effectiveness monitoring wells will be performed for the presence of DNAPL (with sample collection and analysis for select wells conducted on a frequency consistent with the proposed program described in the OM&M) and will be reported annually in the CMER. The CMER will be submitted annually for the activities conducted in the previous calendar year.

6.0 OPERATIONS, MAINTENANCE AND MONITORING

The purpose of the OM&M program is to confirm the effectiveness of the implemented corrective measures. The post-closure care and construction complete activities that comprise the OM&M program can be grouped into four categories: post-closure care of SWMUs-2 and -7, DNAPL recovery, compliance groundwater monitoring, and ICs and ECs (environmental covenant). In support of the regulated units (SWMUs-2 and -7), a written post-closure plan is required under 335-14-5-.07(9)(a) and the specific requirements for the plan are detailed in 335-14-5-.07(9)(b). Additional requirements during the post-closure period are identified in subsections of 335-14-8-.02(5)(b). These requirements include post-closure maintenance and inspection, site security, the post-closure cost estimate and financial assurance, and 100-year floodplain demonstrations. In addition, the effectiveness of the remaining SWMU corrective measures must be documented. This information is summarized in this section although pertinent information is contained in other sections of this permit application.

6.1 Security (335-14-8-.02(5)(b)4)

Section 335-14-8-.02(5)(b)4 requires a description of the security procedures and equipment required by 335-14-5-.02(5) or a justification demonstrating the reasons for requesting a waiver of this requirement. The requirements of these sections, which deal with active portions of the facility, are generally not considered applicable because the AWTC facility is not active, the regulated units have been closed, and the site has been redeveloped. Except SWMU-6 West, the remaining SWMUs associated with the AWTC are encompassed by the container terminal fencing and controlled by the APM security procedures. MCT is under the jurisdiction of the Department of Homeland Security with restricted access to the facility through the Transportation Worker Identification Credential (TWIC) program.

SWMU-6 West and the Groundwater Treatment System (GWTS) is situated outside of the MCT development footprint. SWMU-6 West, is covered with asphalt and is secured with six foot-high chainlink fencing (except for the rail crossing), locked gates, and signage that indicates “Restricted Area – Authorized Personnel Only.” Access to this area is limited to ASPA personnel having need to access this area. The GWTS is also secured with chain link fencing mounted to the top of the secondary containment wall extending above six feet in height and is secured by a locking gate when not attended. In addition, port properties are patrolled routinely by the ASPA Police Department.

6.2 Inspection (335-14-8-.02(5)(b)5)

The owner must maintain the integrity and effectiveness of the final cover, including repairs as necessary to correct the effects of settling, subsidence, and erosion and prevent run-on and run-off from damaging the cover. The regulated units have been closed, and current activities consist only of the required groundwater monitoring. At the AWTC facility, the primary focus of these inspection and maintenance activities is:

- The integrity of the concrete closure cap and SWMU covers (as observed via surface observations from the roller-compacted concrete (RCC) surface)
- The groundwater monitoring well system
- The DNAPL recovery systems and associated treatment system

Procedures for planned inspection and maintenance activities associated with bulleted items are described in the OM&M Plan (CMIP Appendix C) with applicable updates provided as a standalone submittal. In addition, the concrete closure cap has been covered by a geomembrane, clean fill, and RCC as part of the development of the MCT pursuant to major permit modification number 1. The potential for deterioration of the concrete closure cap (SWMU-2 and -7 final remedy) is negligible, and the required frequency of inspection is annual. ASPA will conduct annual inspections of the RCC surface above the concrete closure cap and SWMU (4,5,6 East, and 8) covers with semi-annual inspections of the SWMU-6 West Cover, DNAPL recovery system, and associated treatment system. The groundwater monitoring system is inspected on an annual basis. In addition to the routine regularly scheduled inspections, non-routine inspections are conducted after severe storm events.

The results of inspection activities are documented on an inspection log form. An example form is included in the revised OM&M Plan included as a standalone submittal (updated CMIP Appendix C). This form is multipurpose and may be modified in the future for convenience but will include, at a minimum, the information shown on the example form.

The responsible individual for ensuring the performance of the inspections is the Manager, Office of Environmental Management at the ASPA. Copies of the inspection logs will be maintained at the facility for three years from date of inspection.

6.2.1 Maintenance

Maintenance will be supervised by the Manager, Office of Environmental Management, or their designee. Experience has demonstrated that the most frequent maintenance items are the cosmetic aspects of the monitoring wells (i.e., paint and numbers). However, more pressing maintenance needs may be required, and the Environmental Manager has the authority to contract the necessary personnel and equipment for corrective actions. Maintenance and repair activities will be performed as soon as practicable after discovery during inspection. Routine maintenance activities associated with the operation of the DNAPL recovery system and associated treatment system will be in accordance with the OM&M Plan provided as a standalone submittal (updated CMIP Appendix C). ASPA will document all testing and maintenance activities in the facility operating record in accordance with ADEM Admin. Code. 335-14-5·.03(4).

6.2.2 Contingency Plan (335-14-8-.02(5)(b)6,7)

The contingency plan is designed to minimize hazards to human health or the environment from fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous constituents to the air, soil, or surface water. The plan generally covers preparedness and prevention requirements (emergency equipment, communication equipment, etc.) and emergency response procedures associated with operation of the two subsurface free product recovery systems and groundwater treatment system.

A copy of the Contingency Plan in place for the former AWTC site is provided in Appendix G. Copies of this document are maintained at the AWTC site treatment facility, the ASPA Environmental & Program Management Office, and the ASPA Port Police Department. Moreover, the ASPA has arranged for the local authorities listed in Table 2 of the Contingency Plan to respond to emergencies. Key emergency response agencies have also been provided copies of the Plan, including the Mobile County Emergency Management Agency. The Mobile County Emergency Management Agency will be the primary emergency authority for the AWTC facility and will make the necessary notifications to the local fire, police and ambulatory services. A copy of the plan has also been sent to Mobile Infirmary.

6.3 Groundwater Monitoring

There are significant groundwater monitoring requirements during the post-closure period. Groundwater information was presented in Section 5 of this application and in Appendices D and E. The current compliance/boundary well groundwater monitoring program for monitoring indicators of plume stability and for overall protection of human health and the environment is targeted for the remaining ten years of the post-closure care period. Revisions to the groundwater monitoring program will be made as described in the previous sections following consultation with ADEM.

6.4 DNAPL Recovery System Operations and Maintenance

Interim DNAPL remedial actions were initiated at the AWTC facility with the DNAPL RWS in 1994 and continue to this date. Two DNAPL recovery systems are currently in operation (recovery well, RWS, and monitoring well, MWRS). Over the entire period of operation, the seven (currently six) wells in the RWS have recovered over 35,000 gallons of product. In comparison, less than 400 gallons of DNAPL have been recovered over the operating period from the MWRS. This low collection rate emphasizes the practical limitations of DNAPL source control measures at this site.

The CMS (Harding ESE, 2001) outlined the following corrective measures objectives for the DNAPL source material:

Cleanup Levels

The target cleanup level for DNAPL sources is treatment or removal to soil SSTL levels where feasible, reasonable, and practicable. As discussed in Section 3.2.5 of the CMS, much of the DNAPL is not subject to containment alternatives. Recovery alternatives also have limited applications. In areas where it is not feasible, reasonable, or practicable to treat, remove, contain or recover the DNAPL source, the target cleanup level is the reduction or elimination of exposure to the degree practicable and reasonable.

Compliance Area

DNAPL is present at most SWMUs at the AWTC facility, either in residual or free-product form. From an engineering perspective, practicable DNAPL corrective measures can address the concentrated, near-surface contamination in the SWMU-6 channel and the deep DNAPL free-product in SWMU-4.

Remediation Time Frame

Corrective measures can be implemented at both SWMUs within a short time frame, but the remedial action completion schedule will be distinctly different for the two areas. Removal and/or treatment corrective measures for the SWMU-6 surface sources can be implemented and completed in a relatively short period. In contrast, while corrective measures have already been implemented for the DNAPL collection efforts at SWMU-4 and site-wide, the specific waste characteristics of the DNAPL and the hydrogeologic and lithologic features of the AWTC facility dictate a much longer completion time frame.

Section 4.1.4 of the CMS outlined the technical impracticability (TI) considerations that are germane to the issue of DNAPL source control. TI is a regulatory-based determination that achieving cleanup objectives is not possible from an engineering perspective. Complete source control at the AWTC facility is not practicable. The simple presence of DNAPL is not sufficient for a TI determination. However, the additional considerations, including the amount, location, and specific characteristics of the DNAPL source material, indicate that complete removal or containment is not feasible or practicable at the AWTC facility. It is ASPA's position that by completing the corrective measures outlined in the CMIP and initiating the operations and maintenance period, a portion of corrective measures of the DNAPL source material has been met. The following table summarizes the status of the corrective measures objectives.

Corrective Measure Objective	Status	Description
Cleanup Levels	Met	• Covers were constructed over SWMUs-2 and -7 • Cover and sheet pile wall were constructed at the combined SWMUs-4, 5, and 8 • Excavated DNAPL at SWMU-6 East and constructed soil cover • Constructed asphalt cover at SWMU-6 West
Compliance Area	Met	• Near surface contamination at SWMU-6 East was excavated • Recovery system upgraded for the deep DNAPL free product in SWMU-4
Remediation Time Frame	In Progress	• SWMU-6 surface sources complete • Operation of recovery systems on-going

Based on the status, two of the three corrective measures objectives have been met. In contrast to the construction of the cover systems, excavation of the shallow soils, and installation of the recovery system, the specific waste characteristics of the DNAPL and the hydrogeologic and

lithologic features of the AWTC facility dictate a much longer completion time for the recovery of the DNAPL. As previously stated and accepted by ADEM, the complete removal or containment is not feasible or practicable at the AWTC facility. As such, it is ASPA's position that the DNAPL recovery efforts should continue to operate until the DNAPL has been removed to the maximum extent practical.

To define the maximum extent practical, ASPA proposes the following long-term objectives based on a combination of the protection of the human health and the environment (HHE) and remediation efficiency.

1. Protection of HHE: The conceptual site model (CSM) remains valid, and the remedy and controls remain protective of HHE following implementation of the approved of the CMIP (Construction and OM&M).
    a. On-site and off-site receptors have been identified and exposures are controlled.
    b. The CSM is validated by available site information and data.
    c. The land use controls continue to be met (Sections 4.4 and 6.5).

2. Dissolved-Phase Reduction
    a. Contaminant concentrations remain stable.
    b. Potentiometric surface maps validate the CSM for groundwater flow.

3. DNAPL Mobility Reduction
    a. DNAPL is not present in the DNAPL effectiveness monitoring wells.
    b. Measurable DNAPL is reduced to 0.5 feet (in the well sump) in the MWRS monitoring well network. The monitoring well network was converted to recovery wells and were not designed for recovery efforts. The measurable 0.5 feet DNAPL is defined as the residual height of DNAPL that may accumulate below the well screen that can be practically removed using a pumping device based upon physical constraints in monitoring well caps.

The following graphic summarizes the performance criteria. As outlined in the bolded cells, the data support that the criteria of reducing the dissolved phase concentrations and the protection of HHE indicators are being met.

Performance Criteria Evaluation

DNAPL Recovery Performance Monitoring Obectives

Plume Stability Indicators				Protect HH&E Indicator		**Resulting Actions***
Dissolved Phase Reduction	+	DNAPL Mobility Reduction	+	Protectiveness Standard	=	Continue Monitoring until Post Closure Period Ends – *Conditions for Response Complete being met*
Dissolved Phase Reduction	+	DNAPL Mobility Reduction	+	Protectiveness Standard	=	Modify Monitoring Program *Actions may include:* *- include additional parameters for analysis* *- include additional monitoring locations*
Dissolved Phase Reduction	+	DNAPL Mobility Reduction	+	Protectiveness Standard	=	Continue DNAPL Recovery Program *Actions may include:* *- Continue DNAPL Recovery* *- Modify DNAPL Recovery Procedures*
Dissolved Phase Reduction	+	DNAPL Mobility Reduction	+	Protectiveness Standard	=	Action Needed *Actions may include those listed above, plus:* *- review of applicable feasible/proven remedial technologies*
Dissolved Phase Reduction	+	DNAPL Mobility Reduction	+	Protectiveness Standard	=	Action Needed *Actions may include those listed above, plus:* *- increasing the AUECA covenant footprint or other measures to address issues on protectiveness standard*

Color code:
Green = performance metric is being met
Red = performance metric not being met

* Example actions may include, but are not limited to, those listed

ASPA will also continue to operate the MWRS until the DNAPL mobility reduction criteria are met on a well-by-well basis. At such time that DNAPL reduction criteria are met for an individual well, ASPA will request a modification from ADEM of the DNAPL effectiveness recovery and monitoring program. As presented herein and the OM&M (CMIP Appendix C), ASPA samples select DNAPL effectiveness monitoring wells for site-specific constituents. These wells (6-I, 6-S, 17-D, 21-I, 23-D and 23-I, identified on Tables 7 and 9) will continue be sampled on a biennial frequency (every two years, during even calendar years) while DNAPL recovery operations are ongoing. At such point that ASPA determines an endpoint for DNAPL MWRS recovery has been met, ASPA will petition ADEM for approval to change both the frequency of the DNAPL recovery effort and sampling of the effectiveness wells to be increased to semi-annually for a two-year period. Effectiveness wells listed in Table 9 for analytical monitoring were generally selected based on proximity to the areas of DNAPL recovery. These wells are located in main source areas associated with former wood treating operations, and analytical results for site-specific constituents (Table 8A) are monitored to provide updated information on concentrations of site-

specific constituents interior to the site, for comparison to analytical results within the historical plume footprint, and to evaluate effectiveness of ongoing corrective action. As such, analysis at these wells is limited to constituents in the corrective action monitoring program indicated in Table 8A. Details of the DNAPL effectiveness well monitoring program for the MWRS are provided in Section 4.2 of OM&M. In this section, ASPA has included the basis for selection of wells proposed for the program decision logic diagrams that provide a “road map” for the DNAPL recovery efforts and DNAPL effectiveness well sampling program. This program is described in the updated OM&M Manual. When appropriate, ASPA will update ADEM of such changes to the corrective action program in the applicable CMER or by separate correspondence. At such time, ASPA will begin the administrative process to abandon the well(s) and the associated effectiveness monitoring wells. ASPA may elect to abandon the wells either individually or in a group and will petition ADEM’s approval of the required documentation (including applicable well abandonment plans and permit modification) at that time.

6.5 Post-Closure Cost Estimate and Financial Assurance

As a state agency, the ASPA is exempt from the post-closure financial assurance requirements of 335-14-5-.08 and 335-14-8-.02(5)(b)16 under the provisions of 335-14-5-.08(1)(d). The current estimate of annual cost to complete is summarized below:

Annual Monitoring and Reporting	
Groundwater Sampling Labor	$7,500
Groundwater Sampling Equipment	$5,100
Laboratory Analysis	$33,800
Reporting	$20,000
Annual OM&M	
Inspections	$3,400
DNAPL Recovery Operations	
Electrical	$11,300
Creosote Disposal/Reuse	$31,800
Labor	$35,600
Total	**$148,500**

6.6 Institutional Controls

The purpose of the OM&M program is to confirm the effectiveness of the implemented corrective measures. The post construction complete activities that comprise the OM&M program can be grouped into two categories: groundwater monitoring and ICs and ECs (environmental covenant). Groundwater monitoring was presented in Section 5. To ensure the integrity of the engineering controls for maintaining protection of human health and the environment, periodic inspections will be performed as outlined in the OM&M. In addition, routine maintenance will be performed as required for maintenance of the corrective measures. This information will be submitted to ADEM in the annual report summarizing the inspections, maintenance, repairs, and the existing land-use controls.

7.0 GENERAL DESCRIPTION OF THE FACILITY – CONTIGUOUS PROPERTIES

The contiguous properties include eight areas identified in the 2002 RFA. These properties consist of six land parcels (approximately 53 acres) that were purchased by the ASPA over time and are being used as part of the redevelopment activities. Additionally, portions of this area are intended to be resold. The general location of these properties relative to the AWTC facility boundary is shown on Figure 1. Information on these properties is included herein for application completeness.

In addition to the eight areas identified in the 2002 RFA, six additional areas contiguous to the AWTC facility, designated as AOCs-7 through -10, P&H Construction, and Norden Industries, were located in close proximity to the former AWTC site (Figure 2A). AOCs-7 through -10 were recommended for No Further Action (NFA) status in 2014 and were not included in the prior Permit Application or 2014 Permit. P&H Construction and Norden Industries no longer exist on the AWTC site, and there are no longer any structures or identifying markers associated with these two entities on the property where these two entities previously existed. These areas were included in the investigative activities associated with the contiguous properties in 2003 or addressed separately, and information on these properties is being carried forward herein for application completeness.

Two new AOCs were identified as a result of the 2019 and 2020 RFAs. ADEM performed a VSI in May 2019 at McDuffie Coal Terminal, Former Mobile River Terminal, and Former Armstrong World Industries LLC. ADEM issued the RFA Addendum for Former Armstrong World Industries LLC in October 2019, which identified the facility as “AOC-11.” ADEM issued a Draft RFA Addendum in November 2019 for McDuffie Coal Terminal and Former Mobile River Terminal, which identified no SWMUs or AOCS at McDuffie Coal Terminal and no SWMUs and one AOC “AOC-12” at Former Mobile River Terminal. The Final RFA Addendum was issued in 2020. The approximate location of these new AOCs is shown on Figure 22.

7.1 Property Description (335-14-8-.02(5)(b)(1))

The contiguous properties (and applicable location information) include the following:

- SWMU-9 Abandoned Paint Containers and Drum (located approximately 20 yards east of Marvin Street)
- SWMU-10 Abandoned Drums in Woods (located approximately 300 yards northeast of the former Baker Street school bus parking area)

- SWMU-11 Drum Yard (Red Line; located at 1201 Baker Street)
- AOC-2 Abandoned Dumpsters (located on Bay Avenue, east of Marvin Street)
- AOC-3 Abandoned Drum (located at the northeast corner of the intersection of Marvin Street and Bay Avenue)
- AOC-4 Abandoned Drums Off Marvin Street (located off northeast Marvin Street)
- AOC-5 Automobile Gas Tanks (located 300 yards northeast of the former Baker Street school bus parking area)
- AOC-6/6A Five-Gallon Cans, Capacitors, and Refrigerator (located south of Yeend Street, west of the land bridge to McDuffie Island)
- AOC-7 Debris Located Near Choctaw Pass (located approximately 50 feet from the Mobile River)
- AOC-8 Abandoned Drum on Old Star Property (located on the dike area)
- AOC-9 Abandoned Automobile and Debris Inside Warehouse (located on the northeast corner of the building leased by Radcliff/Economy Marine)
- AOC-10 Drainage Ditch Parallel to Ezra Trice Boulevard (located on the east side of and parallel to Ezra Trice Boulevard)

The properties are located east of Interstate 10 adjacent to Mobile Bay (Figure 1). As shown on Figure 22, the areas of the contiguous properties are mostly undeveloped with some dirt and asphalt access roads along the western end of the areas. The physical address is considered to be multiple parcels east of Baker Street, Mobile, Alabama, with known street addresses provided above.

Additional contiguous areas include:

- P&H Construction
- Norden Industries

The approximate location of these former entities is shown on Figures 2A through 2C.

- AOC-11 Former Armstrong World Industries LLC
- AOC-12 Former Mobile River Terminal

The approximate location of these newly identified AOCs is shown on Figure 22.

7.2 Documentation of Political Jurisdiction (335-14-8-.02(5)(b)11.(i))

The contiguous properties are located in the political jurisdiction and incorporated boundaries of the City of Mobile, Alabama, see Figure 1.

7.3 Current and Future Land Use

The contiguous properties have been designated as residential and industrial by the City of Mobile zoning maps. However, the residentially zoned areas have been demolished for many years, public rights of way vacated by the city, and would not be considered for future residential use. The properties are bordered to the east by the Mobile River and are situated in an industrial zone primarily owned by the ASPA. The other surrounding properties consist of active and inactive bulk storage terminals and rail lines. The properties are bordered to the north and northwest by the AWTC property, with newly identified AOC-12 located immediately north of the AWTC property. To the south, the property is bordered by Mobile Bay. The eastern edge of the site is bounded by the Mobile River. Figures 23A - 23C show the land use and surrounding properties. A general area topo map is provided as Figures 24A - 24C.

Portions of the contiguous properties are being used as part of the redevelopment activities, and portions of the area are intended to be resold.

7.4 Facility History

Parcels that are collectively identified as the contiguous properties consist of a mixture of uses prior to purchase by ASPA. A majority of the property where SWMUs-9, 10, and 11 and AOCs-2, 3, 4, and 5 were previously residential base housing known as Monroe Park and was associated with a nearby military installation known as Brookley Field. ASPA purchased the contiguous properties over several land acquisitions.

7.4.1 Ownership & Operation History

ASPA acquired the contiguous properties over several land acquisitions starting in 1975 through 1985.

7.4.2 Facility Process Information

Previous contiguous properties identified are not associated with any processes. In addition, to ASPA knowledge, these areas were not used for industrial production activities.

7.4.3 RCRA Permitting History — Hazardous Waste Management

The contiguous properties were incorporated into the AWTC permit during 2003 renewal and are incorporated herein for completeness purposes.

7.4.4 RCRA Corrective Action Process

A second RFA was performed in 2002 with an addendum performed in 2003 focusing on the contiguous properties. As a result of these activities three additional SWMUs and nine additional AOCs were identified as summarized below:

- SWMU-9 Paint Containers 13 one-gallon paint, 2 five-gallon resin containers, and one 55-gallon drum approximately 20 yards east of Marvin Street
- SWMU-10 Abandoned Drums in the woods approximately 300 yards southeast from school buses
- SWMU-11 Drum Yard – Red Line – approximately 115 fifty-five-gallon drums to the southwest, numerous five-gallon and one-gallon containers
- AOC-2 Abandoned Dumpsters on Bay Avenue, east of Marvin Street
- AOC-3 Abandoned Drum at the northeast corner of the intersection of Marvin Street and Bay Avenue
- AOC-4 Abandoned drums (4) on Marvin Street to the southeast
- AOC-5 Automobile Gas Tanks (8) approximately 300 yards northeast of the former Baker Street school bus parking area
- AOC-6/6A Five-Gallon Cans, Capacitors, and Refrigerator south of Yeend Street, west of the land bridge to McDuffie Island
- AOC-7 Debris located near Choctaw Pass with creosote wood, tires, and debris approximately 50 feet from the Mobile River
- AOC-8 Abandoned drum on the Old Star Property on the dike area
- AOC-9 Abandoned automobile, pile of mud, sorbent booms, pallets, and debris in the northeast corner of the building leased by Radcliff/Economy Marine
- AOC-10 Drainage ditch parallel to Ezra Trice Boulevard that was observed to contain an oil sheen

NFA status was obtained for SWMU-9, SWMU-10, AOC-3, AOC-4, AOC-5, and AOC-6/6A as per the ADEM approval letter dated February 27, 2003, which concurred with the 2003 Contiguous Properties Confirmatory Sampling Report. SWMU-11 was listed for follow-up corrective action. NFA status was recommended for AOCs-7 through -10 in a 2014 RFA. This is further discussed in Section 8.

As previously noted, an RFA Addendum was issued by ADEM in 2020, which identified AOC-11 (Former Armstrong World Industries LLC) and AOC-12 (Former Mobile River Terminal). Investigations at these properties are currently ongoing, in accordance with ADEM-approved work plans.

7.5 Chemical And Physical Analysis of the Waste

Source and composition of the waste identified on the Contiguous Property SWMUs and AOCs was largely unknown. During the 2002 confirmatory sampling performed at the Contiguous Properties, waste samples were composited based on visual characteristics and field testing summarized on the Drum Inventory Forms. These samples included paint, grease, tar, water, oil, soil, and material from a drum abandoned near monitoring well 8-DK. Laboratory results indicated that VOCs, TPH, and RCRA Metals were detected in all waste samples; SVOCs were detected in the oil sample, pesticides were reported in the paint and oil samples, and PCBs were detected in the tar sample. The results of the waste sample analyses were used to refine the list of laboratory analyses to be performed on confirmatory soil samples and to establish proper handling and disposal procedures.

7.5.1 Description of Hazardous Waste Generated (335-14-8-.02(19)(a))

Not Applicable

7.5.2 Hazardous Waste Codes

Hazardous waste codes were not identified during the RFA.

7.5.3 Analysis of Waste

Not Applicable

7.6 Solid Waste Management Units (335-14-8-.02(5)(d))

7.6.1 Descriptions of Contiguous Properties SWMUs and AOCs

On March 27, 2002, the ADEM finalized the RFA for the AWTC Site and contiguous properties in Mobile, Alabama, which are currently owned by the ASPA. ADEM identified three Solid Waste Management Units (SWMUs-9 through -11) and five Areas of Concern (AOCs-2 through -6) associated with the ASPA properties contiguous with the AWTC Site. In a 2003 Addendum to the 2002 RFA, dated September 21, 2003, which was performed on newly-acquired contiguous

property as well as property ASPA leased to Shell Oil Company, four additional AOCs (AOCs-7 through -10) were identified. For all identified SWMUs and AOCs, ADEM recommended that (1) identified wastes be removed from the SWMUs and AOCs, and (2) confirmatory sampling be conducted at the newly identified SWMUs and AOCs as listed below:

- SWMU-9 Abandoned Paint Containers and Drum
- SWMU-10 Abandoned Drums in Woods
- SWMU-11 Drum Yard (Red Line)
- AOC-2 Abandoned Dumpsters
- AOC-3 Abandoned Drum
- AOC-4 Abandoned Drums Off Marvin Street
- AOC-5 Automobile Gas Tanks
- AOC-6/6A Five-Gallon Cans, Capacitors, and Refrigerator
- AOC-7 Debris Located Near Choctaw Pass
- AOC-8 Abandoned Drum on Old Star Property
- AOC-9 Abandoned Automobile and Debris Inside Warehouse
- AOC-10 Drainage Ditch Parallel to Ezra Trice Boulevard

General descriptions of the identified three SWMUs and nine AOCs associated with the ASPA properties contiguous with the AWTC Site are provided below:

- **SWMU-9 Abandoned Paint Containers and Drum.** ADEM identified thirteen 1-gallon paint, two 5-gallon resin containers, and one 55-gallon drum during the VSI in March 2001. The SWMU-9 location was described as approximately 20 yards east of Marvin Street in a bush/scrub area. The 2002 RFA report recommended that source removal and confirmatory sampling be conducted.

- **SWMU-10 Abandoned Drums in Woods.** ADEM identified about twenty 55-gallon drums. Details of any labels or visual observations of the drums were not provided in the RFA report. The SWMU-10 location was described as approximately 300 yards northeast of the Baker Street school bus parking area. The 2002 RFA report recommended that source removal and confirmatory sampling be conducted.

- **SWMU-11 Drum Yard (Red Line).** ADEM identified about 115 55-gallon drums and numerous 1-gallon and 5-gallon paint containers in the southeast portion of the Red Line facility at 1201 Baker Street. Details of any labels or visual observations of the drums were not provided in the RFA report; however, Red Line representatives claimed that the majority of drums were roofing material product. The 2002 RFA report recommended that source removal and confirmatory sampling be conducted. Prior to submittal of the Workplan, contract personnel were informed that drum removal activities had been undertaken, apparently by Red Line, and only about 20 drums remained at the facility.

- **AOC-2 Abandoned Dumpsters.** ADEM identified two abandoned dumpsters on Bay Avenue east of Marvin Street during the VSI. Trash and motor oil containers were

noted in the dumpsters. The 2002 RFA report indicated that no evidence of spills or staining was noted but recommended that the dumpsters be removed and confirmatory sampling be conducted. Prior to submittal of the Workplan, contract personnel were informed that the dumpsters had apparently been removed by an unknown resource.

- **AOC-3 Abandoned Drum.** ADEM identified one drum with unknown contents "southeast of Marvin Street" during the VSI. The drum was located on the northeast corner of the intersection of Marvin Street and Bay Avenue. The 2002 RFA report noted no evidence of a release but recommended that source removal and confirmatory sampling be conducted.

- **AOC-4 Abandoned Drums Off Marvin Street.** ADEM identified four drums with unknown contents located off northeast Marvin Street. The drums were on the north side of Parham Street and east of Marvin Street. The 2002 RFA report indicated that no evidence of a release was noted but recommended that source removal and confirmatory sampling be conducted.

- **AOC-5 Automobile Gas Tanks.** ADEM identified eight automobile gas tanks about 300 yards northeast of the Baker Street school bus parking area. The tanks were located immediately adjacent to the east side of Baker Street. Evidence of a release was not documented in the 2002 RFA report; however, ADEM recommended that source removal and confirmatory sampling be conducted. Prior to submittal of the Workplan, contract personnel were informed that the automobile gas tanks had been removed.

- **AOC-6/6A Five-Gallon Cans, Capacitors, and Refrigerator.** ADEM identified several 5-gallon and 1-gallon cans that may contain oil, a refrigerator, and three capacitors at the location described as the "ASD's Soil I Spoil Area." This area was located south of Yeend Street and west of the land bridge to McDuffie Island. The 2002 RFA report indicated that no evidence of a release was noted; however, ADEM recommended that source removal and confirmatory sampling be conducted.

- **AOC-7 Debris Located Near Choctaw Pass.** ADEM identified a pile of old creosote wood, tires, and debris located approximately 50 feet from the Mobile River on the Old Star Terminal property. The 2003 RFA Addendum 1 report noted that no evidence of a release was observed but recommended that source removal and confirmatory sampling be conducted.

- **AOC-8 Abandoned Drum on Old Star Property.** ADEM identified one drum that contained an unknown liquid inside the dike area. The 2003 RFA Addendum 1 report noted that no evidence of a release was observed but recommended that source removal and confirmatory sampling be conducted.

- **AOC-9 Abandoned Automobile and Debris Inside Warehouse.** ADEM identified a pile of mud, sorbent booms, pallets, an old automobile, and debris located inside the northeast corner of the warehouse on the old Star Terminal property. The 2003 RFA Addendum 1 report noted that no evidence of a release was observed but recommended that source removal and confirmatory sampling be conducted.

- **AOC-10 Drainage Ditch Parallel to Ezra Trice Boulevard.** ADEM observed what appeared to be an oil sheen on the surface of the flowing water in the ditch located on the east side of and running parallel to Ezra Trice Boulevard. The 2003 RFA Addendum 1 report noted that no evidence of a release was observed but recommended that source removal and confirmatory sampling be conducted.

ASPA elected to evaluate the following two additional properties (which were not included in the RFA) that were subject to demolition and redevelopment as part of the MCT:

- **P&H Construction.** ASPA had identified visual evidence of potential soil contamination associated with fueling, painting, and sandblasting activities at this Choctaw Point site.

- **Norden Industries**. The M.A. Norden Company facility included an active warehouse for recycled paper.

ASPA also acknowledges that investigation to delineate the extent of soil and/or groundwater contamination is ongoing, in accordance with ADEM-approved work plans, at the following two additional properties that were identified in the 2020 RFA:

- **AOC-11 Former Armstrong World Industries LLC.** The former Armstrong World Industries LLC (Armstrong) facility is a 63-acre parcel located at 1251 Baker Street, north of Garrows Bend Channel and south of Interstate 10 and rail lines. It comprises five parcels currently owned by ASPA and identified by parcel numbers 29-10-26-0-001-002, 29-10-37-0-008-230, 29-10-37-0-009-033, 29-11-35-2-000-001, and 29-11-35-1-000-002 according to the Mobile County, Alabama Tax Assessor website. Original development by National Gypsum occurred in the early 1950s for use as manufacturing facility for asphalt roofing. Production of asphalt roofing materials ceased in the 1960s when National Gypsum transition to production of mineral wood products. National Gypsum also produced wood fiber-based ceiling tile. A lagoon constructed in 1970 for the collection and management of wood fiber ceiling tile manufacturing sludge was reportedly capped in 1980. The facility was acquired by Armstong in 1984, who reconfigured the wood fiber manufacturing line to produce ceiling tile. In the early 2000s, 2.87 acres of the site, which included the former chip yard and a fill area east of the manufacturing building, were sold to Alabama Power Company. ASPA acquired the property in 2014 to ultimately sale as an industrial property, and the existing structures were demolished (LaBella, 2023).

- **AOC-12 Former Mobile River Terminal.** The former Mobile River Terminal (MRT) facility is an approximately 36-acre property, consisting of two parcels, located at 82 Virginia Street. It was originally developed in the early 1950s by Marine Bulk Handling for the storage, importing, and exporting of bulk materials. The site was purchased in the 1980s by Mobile River Terminal, Inc., who continued the existing operations. The site was sold in 2010 to Walter Energy to expand shipping capacity. Infrastructure at the site was demolished between 2010 and 2012, and the site has been inactive since. ASPA purchased the site in 2014 for use as a laydown yard during expansion of the MCT (LaBella, 2023).

7.7 100-Year Floodplain Standard

Sections 335-14-8-.02(5)(b)11.(iii) and (iv) require specific information regarding the 100-year floodplain. The location of floodplain information is included in Figure 25. The area of the contiguous properties is relatively flat in the undeveloped areas, with elevations approximately 3 feet above MSL to 16 feet above MSL in areas of planned redevelopment. As shown on Figure 25, some areas of contiguous properties SWMUs and AOCs are within the 100-year floodplain as indicated on the current FEMA floodplain map as issued by the FEMA for Mobile, Mobile County, Alabama. As part of development of the ICTF, a conditional letter of map revision (CLOMR) was previously prepared for a portion of the contiguous properties and submitted to FEMA in December 2009. Since that time, FEMA submitted an acknowledgement on February 26, 2010 (Case No. 09-04-6010R), and updated information is reflected on Figure 25.

7.8 Topographic Maps

Various sections of the regulations require that specific information be displayed on topographic maps as part of the Post-Closure Permit Application (e.g., 335-14-8-.02(5)(b)19, (c)3, (c)4.(i)-(ii) and (d)1.(i)). These requirements include that the maps must show a distance of 1,000 feet beyond the facility boundary to a minimum scale of 1 inch per 200 feet, and show:

- map scale and date
- 100-year floodplain area
- surface waters and intermittent streams
- surrounding land uses
- map orientation
- legal boundaries
- access controls
- injection and withdrawal wells
- all facility structures
- drainage and flood protection barriers
- all hazardous waste units
- location of all SWMUs

The above items for the contiguous properties are included in Figures 22 through 26 of this application. Because of the amount of information to be provided on the topographic maps and the size of the contiguous properties area, several figures are necessary to display the required information.

The table below indicates where the information can be found.

Topographic Map Requirement	Location and Information
Map scale and date	Shown on all figures
100-year floodplain area	Shown on Figure 25
Surface waters including intermittent streams	Shown on Figure 26
Surrounding land uses	Shown on Figure 23
Wind rose	Shown on Figure 24A
Map orientation	Shown on all figures
Legal boundaries	Shown on Figure 22. Legal Boundaries for individual parcels are not shown
Access controls	Shown on Figures 24A - 24C. Additional access controls are discussed in Sections 8 of the Part B Application
Injection and withdrawal wells (include off-site)	Not applicable
All facility structures	Location of facility structures are shown to the extent possible on Figures 24
Drainage and flood protection barriers	Not applicable.
All hazardous waste units	Not applicable
Proposed point of compliance	Not applicable
Proposed monitoring wells	Not applicable
Identification of uppermost aquifer	The uppermost aquifer is identified in the geologic cross sections in Figures 10 and 11 of the Part B Application
Extent of any plume of contamination	Not Applicable
Locations of all SWMUs	Shown on Figure 22

Locations of uppermost aquifer and aquifers hydraulically inter-connected beneath the facility. This is discussed in Section 2.12 and depicted on Figures 9 through 11.

7.9 Characterization of the Uppermost Aquifer

Refer to Section 2.12 for characterization of the uppermost aquifer.

7.9.1 Geology

Refer to Section 2.12.1 for geology.

7.9.2 Hydrology

Refer to Section 2.12.2 for hydrology.

8.0 CORRECTIVE ACTION - CONTIGUOUS PROPERTIES

Corrective Action activities have occurred at the contiguous properties as outlined in the *Confirmatory Sampling Work Plan* dated May 2002 (Work Plan) (MACTEC, 2002) and the *Contiguous Properties Confirmatory Sampling Report* dated February 2003 (MACTEC, 2003a). Corrective action related to AOCs-7 through -10 were addressed separately by ASPA. A summary of the contiguous properties findings is provided in Table 10 and discussed below.

8.1 Summary of Confirmatory Sampling Report

Waste removal and confirmatory sampling activities were conducted by MACTEC Engineering and Consulting, Inc. (MACTEC) personnel from July 2002 through January 2003 following the scope and procedures detailed in the Work Plan. In addition to SWMU and AOC field activities, the Work Plan detailed evaluation activities for the contiguous P&H Construction and Norden Industries properties, which were subject to demolition and redevelopment. The *Contiguous Properties Confirmatory Sampling Report* summarizes the results of the source removal and confirmatory sampling.

8.1.1 No Further Action

Due to the extent of source removal activities and confirmation sampling the following SWMU areas and AOCs have reached NFA status as detailed below and summarized on Table 10, based on the ADEM approval letter dated February 27, 2003. The below information summarizes removal actions and confirmatory sampling performed at each SWMU or AOC to document NFA status.

The following sampling was completed after source removal at the identified three SWMUs and five AOCs associated with the ASPA properties contiguous with the AWTC Site:

- **SWMU-9 Abandoned Paint Containers and Drum:** A total of thirteen 1-gallon containers, two 5-gallon containers, and one 55-gallon drum were removed and properly managed. In 2002, two soil samples were collected from one borehole located within SWMU-9. These samples represented the surface and the interval directly above the water table, respectively. The borehole location in SWMU-9 was established based on conditions during source removal activities and was located near the center of the paint containers removed. The two confirmatory samples collected from the area revealed that all laboratory results were below the Industrial Preliminary Remedial Goals (PRGs). A NFA recommendation was made for the location. SWMU-9 has reached NFA status as per the ADEM approval letter dated

February 27, 2003 which concurred with the 2003 Contiguous Properties Confirmatory Sampling Report.

- **SWMU-10 Abandoned Drums in Woods:** A total of seven 55-gallon drums were sampled, removed, and properly managed. In 2002, five soil samples were collected from three boreholes. The borehole locations were established based on observations made during drum removal activities. Initial and confirmatory soil samples of both soils and groundwater revealed that all laboratory results were below the PRGs and identified metals were below Maximum Contaminant Levels (MCLs). An NFA was recommended for the location. SWMU-10 has reached NFA status as per the ADEM approval letter dated February 27, 2003 which concurred with the 2003 Contiguous Properties Confirmatory Sampling Report.

- **AOC-2 Abandoned Dumpsters:** The dumpsters were removed from this area. In 2002, two soil samples were collected from one borehole located within AOC-2. The borehole location was established based on the inferred location of the former dumpsters and observations of surface conditions. The two confirmatory soil samples collected from the former location were below the PRGs. An NFA was recommended. AOC-2 has reached NFA status as per the ADEM approval letter dated February 27, 2003 which concurred with the 2003 Contiguous Properties Confirmatory Sampling Report.

- **AOC-3 Abandoned Drum:** A total of four 55-gallon drums and a 20- to 30-gallon drum were removed and properly managed from the combined AOC-3 and AOC-4 area. In 2002, soil samples were collected within AOC-3 from a borehole location established based on observations of surface conditions and the inferred location of the former drum. The samples collected from the location were all below the PRGs and the locations were recommended for NFA. AOC-3 has reached NFA status as per the ADEM approval letter dated February 27, 2003 which concurred with the 2003 Contiguous Properties Confirmatory Sampling Report.

- **AOC-4 Abandoned Drums Off Marvin Street:** A total of four 55-gallon drums and a 20- to 30-gallon drum were removed and properly managed from the combined AOC-3 and AOC-4 area. In 2002, soil samples were collected from a borehole located within AOC-4. The borehole location was established based on surface conditions and the inferred locations of the former drums. The samples collected from the location were all below the PRGs and the locations were recommended for NFA. AOC-4 has reached NFA status as per the ADEM approval letter dated February 27, 2003 which concurred with the 2003 Contiguous Properties Confirmatory Sampling Report.

- **AOC-5 Automobile Gas Tanks:** The eight automobile gas tanks were removed and properly managed. In 2002, one soil sample was collected within AOC-5. The borehole location was established based on surface conditions, and advanced with continuous sample collection from the ground surface to the water table interface. A single soil sample collected from the area was below the PRGs for the parameters tested. AOC-5 has reached NFA status as per the ADEM approval letter dated February 27, 2003 which concurred with the 2003 Contiguous Properties Confirmatory Sampling Report.

- **AOC-6/6A Five-Gallon Cans, Capacitors, and Refrigerator:** Two 5-gallon cans, three 1-gallon cans, 1 refrigerator, and three capacitors were removed and properly managed. In 2002, six soil samples were collected from three boreholes located within AOC-6. The borehole locations were established based on observations of surface conditions, and were located in areas intended to represent contaminant source, upgradient, and downgradient locations. Soil and groundwater laboratory results were below the PRGs for the parameters tested. AOC-6 has reached NFA status as per the ADEM approval letter dated February 27, 2003 which concurred with the 2003 Contiguous Properties Confirmatory Sampling Report.

ASPA elected to evaluate the following two additional contiguous properties that were subject to demolition with no waste removal activities anticipated. With the construction of the MCT, these properties no longer exist.

- **P&H Construction**. In 2002, eight soil samples were collected from four boreholes located on the P&H Construction property. The borehole locations were established based on observations made of surface conditions and discussions with site personnel. Borehole GP-1 was located in an area of stained material, borehole GP-2 was located in an area where sandblasting operations are performed, borehole GP-3 was located near aboveground fuel tanks, and borehole GP-4 was located in an area of stained soil. The samples collected were all below the PRGs and the location was recommended for NFA. P&H Construction property has reached NFA status as per the ADEM approval letter dated February 27, 2003 which concurred with the 2003 Contiguous Properties Confirmatory Sampling Report.

- **Norden Industries**. A survey of potentially asbestos-containing material (ACM) was conducted at the Norden Industries warehouse. Thirteen samples of suspect ACM were collected at the warehouse. The suspect ACM sampled included linoleum floor covering, drywall ceiling material, drywall joint compound, "popcorn-textured" ceiling material, corrugated cement roof panels, and roof panel caulking material. EPA/NESHAP regulations define ACM as any material containing greater than one percent asbestos in bulk samples. The laboratory analytical results indicated that the corrugated cement panels and associated caulking material comprising the roof of the warehouse are comprised of ACM. In 2002, five soil samples were collected from three boreholes located on the Norden property. The borehole locations were established based on observations made from surface conditions. Borehole GP-1 was located between two concrete-bermed areas that may have contained aboveground storage tanks, borehole GP-2 was located near the south end of the building, and borehole GP-3 was located near the fuel dispenser. The samples collected from the locations were all below the PRGs and the locations were recommended for NFA. Norden Industries property has reached NFA status as per the ADEM approval letter dated February 27, 2003 which concurred with the 2003 Contiguous Properties Confirmatory Sampling Report.

Regarding AOCs-7 through -10, debris identified in the 2003 RFA Addendum 1 at AOCs-7, 8, and 9 was removed from the site. ASPA personnel performed the source removals and confirmatory sampling. The third VSI of the AWTC site and its contiguous properties was

conducted by ADEM in August 2014, and no additional AOCs or SWMUs were identified. ADEM's 2014 RFA documents that the locations of AOCs-7 through -9 were observed to have been removed and disposed, and AOC-10 was observed to be dry with no evidence of an oil sheen. The 2014 RFA recommended NFA for AOCs-7 through -10. AOCs-7, 8, and 9 received a concrete cover during the development of the Mobile Container Terminal. The ditch identified as AOC-10 no longer exists.

8.1.2 SWMU-11 Drum Yard (Red Line)

SWMU-11 consisted of a drum yard. All drums were sampled, removed, and properly managed. In 2002, soil samples were collected from numerous boreholes located within SWMU-11. The borehole locations were established based on conditions during drum removal activities and laboratory results of initial soil samples collected during drum removal activities. Three initial soil samples and 10 confirmatory soil samples revealed the presence of polychlorinated bi-phenyls (PCBs) and benzo(a)pyrene (BAP) above the PRG levels. Laboratory analytical results of initial soil samples indicated PCB impact to near-surface soils; therefore, the majority of the confirmatory samples were collected near ground surface to delineate the lateral extent of surface PCB impact. Additionally, 45 follow-up confirmatory samples revealed that BAP were noted at eight locations above the PRGs. Metals from groundwater samples were all below MCLs. Recommendations were made to remove the soils contaminated with PCBs and BAP.

In May 2012, soil was removed in areas where PCBs exceeded preliminary screening standards between 1 to 2 feet and BAP between 0 to 8 feet. During the soil removal activities in May 2012, approximately 1,000 cubic yards of impacted soils were excavated over two excavation and confirmatory sampling sessions. Results indicate some areas remaining with BAP exceeding the PSV value. On May 31 and on June 13, 2012, further sampling was conducted to define the limits of excavation. Sampling results indicated some areas with BAP exceeding the PSV value remained from 2 and 4 feet below ground surface.

In 2017, RFI investigation activities were conducted, which included three phases of sampling and analysis. Phase I occurred in February 2017 and consisted of shallow and subsurface soil sampling and installation of a second groundwater monitoring well. Phase II investigation activities were conducted in July 2017, and Phase III investigation activities were conducted in April 2018, both consisting of shallow soil sampling. Supplemental Phase III investigations were conducted in August, September, and October 2019, March 2020, and November 2021, which

consisted of various groundwater sampling events of the two monitoring wells and additional shallow soil sampling.

In March and April 2018, additional soil excavation and confirmatory sampling was performed at two locations at SWMU-11 in support of a Focused Archeological Investigation by the University of South Alabama – Center for Archeological Studies. The northeast excavation encompassed an area of approximately 3,200 square feet, and the southeast excavation encompassed an area of approximately 5,525 square feet, resulting in the excavation and disposal of 2,083.74 tons of excavated soils. Prior to backfilling the archeological excavations, soil samples were collected at 2-3 ft bgs (sidewalls) and 3-4 ft bgs (bottom). Analytical results from the post-excavation soil sampling indicated one sample in the southeast excavation had an exceedance of BAP above the residential RSL. Composite sample analytical results of the indicated detectable concentrations of BAP, carbazole, and lead.

In correspondence dated April 21, 2021, ADEM notified ASPA that concentrations of Aroclor 1260 in surficial soil greater than 1 part per million (two previously unexcavated soil samples) should be removed in accordance with 40 CFR 761. Following discussion with USEPA, removal under the Performance-Based Disposal option established under 40 CFR 761.61(b) was recommended. A report dated June 8, 2022, entitled *Remedial Action Completion Report for Solid Waste Management Unit 11 (SWMU-11) under the Performance-Based Disposal Option Established under 40 CFR 761.61(b)*, documented the soil removal, verification sampling, disposal, and site restoration activities, which were completed from December 2021 to March 2022. A total of 524.5 tons of soil were removed, and none of the 75 verification samples collected reported Aroclor 1260 concentrations above 1 part per million. Therefore, concerns regarding PCB contamination in soil at SWMU-11 has been resolved.

Presently, ADEM has approved additional soil sampling activities at SWMU-11 per the *Revised Scope of Work Delineation Soil Sampling and Related Activities* submittal dated October 6, 2023, which is being performed to delineate surface and subsurface soil to unrestricted use.

8.2 Security

The requirements of these sections, which deal with active portions of the facility, are generally not considered applicable because the contiguous properties are not active. Contiguous properties are controlled by the ASPA security procedures, such that security personnel actively (on at least a daily basis) survey the areas for trespassers or other unauthorized activity.

8.3 Inspection and Maintenance

Semi-annual visual inspections are performed at the contiguous properties. These inspections evaluate if any unauthorized dumping is observed, and any other changes noted relative to site use. Area fencing and signage is also inspected. The results of inspection activities will be documented on an inspection log form. An Example form is included in the OM&M Plan. This form is multipurpose and may be modified in the future for convenience but will include, at a minimum, the information shown on the example form.

The responsible individual for ensuring the performance of the inspections is the Manager, Office of Environmental Management at the ASPA. Copies of the inspection logs will be maintained at the facility for three years from date of inspection.

8.4 Groundwater Information

As documented in the 2003 Contiguous Properties Confirmatory Sampling Report (MACTEC, 2003a), several temporary direct push technology wells and three confirmatory monitoring wells were installed at contiguous properties SWMUs and AOCs. The analytical results from these groundwater monitoring activities indicated no further action was needed for groundwater at the SWMUs or AOCs. One well, S11-MW-1, located in SWMU-11, still exists. The location of this well is shown on Figure 22. The installation log for this well is provided in Appendix B.

8.5 Groundwater Use and Drinking Water Supplies

Information regarding area groundwater use and drinking water supplies was provided in Section 5.3.

9.0 REFERENCES

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Tables

TABLE 1
WASTE ANALYSIS RESULTS FOR SLUDGE, SOIL, & SEDIMENT
Alabama Wood Treating Corporation Site
Mobile, Alabama

Analyte	Units	K001 Sludge SWMU2 June-85	F034 Soil SWMU8 June-99	F034 Soil SWMU5 October-00	F032 Sediment SWMU6 September-00
Acenaphthene	mg/Kg	4720	20.0	0.38	1800
Acenaphthylene	mg/Kg	81.2	0.6		49.0
Anthracene	mg/Kg	20500	12.0	2.3	4200.0
Benzo(a)anthracene	mg/Kg	2460	8.1	13.0	920.0
Benzo(a)pyrene	mg/Kg	599	5.7	20.0	570
Benzo(b)fluoranthene	mg/Kg	691	5.1	32.0	450
Benzo(g,h,I)perylene	mg/Kg		2.7		210
Benzo(k)fluoranthene	mg/Kg	402	4.6	21.0	800
Chrysene	mg/Kg	1770	7.6	21.0	2200
Dibenzo(a,h)anthracene	mg/Kg		1.2	3.4	78.0
2,4-Dimethylphenol	mg/Kg	164	<0.46	<.350	
Fluoranthene	mg/Kg	16200	38.0		3000
Fluorene	mg/Kg	3480	23.0	<0.350	1900
Indeno(1,2,3-cd)pyrehe	mg/Kg	NO	2.6	5.4	160
Naphthalene	mg/Kg	16400	20.0	0.72	3500
Pentachlorophenol	mg/Kg	4960	<2.30	<1.80	59.0
Phenanthrene	mg/Kg	34800	56.0	2.5	5800
Phenol	mg/Kg	34.1	<0.46	<0.350	
Pyrene	mg/Kg	11400	23.0	20.0	2600
2,4,6-Trichlorophenol	mg/Kg	ND	<0.46	<0.350	
2,3,4,6-Tetrachlorophenol	mg/Kg			<0.350	
Total TCDD	ug/Kg				<0.950
Total PeCDD	ug/Kg				22.0
Total HxCDD	ug/Kg				490.0
Total TCDF	ug/Kg				<0.300
Total PeCDF	ug/Kg				11.0
Total HxCDF	ug/Kg				340.0

Notes:
ND- Analyte not detected. Detection limit not available

TABLE 2
SUMMARY OF AWTC SWMUs AND AOC FINDINGS
Alabama Wood Treating Corporation Site
Mobile, Alabama

AWTC Property	Description	Wastes Removed/ Corrective Action	WASTES AND/OR HAZARDOUS CONSTITUENTS	APPROXIMATE OPERATIONAL DATES	POTENTIALLY EFFECTED MEDIA	Conclusions	SWMU STATUS
SWMU-1	Former Wastewater Pretreatment Plant tanks	(3)-17,000 gal tanks (1)-5,000 gal tank, concrete slabs and other appurtenances, and a shed	F027, K001, U051	1986-1990	Soils	NFA, 1988	NFA, 1988
SWMU-2(1)	Closed Surface Impoundment	1,970 tons sludge and water removed / 106 CY soil in contact with K001 waste remained. Closed landfill.	F027, K001, K035	1970-1985	Soils & Groundwater	Closure certification submitted in 1990; closed as a landfill	Post Closure Care/Groundwater Monitoring
SWMU-3	Drum Storage Unit	Remove drums from WWTS	F027, K001, U051	1986-1990	Soils	NFA, 1988	NFA, 1988
SWMU-4	Former Plant Operation and Storage Area	Permeable soil cover	F027, K001, U051	1906-1990	Soils & Groundwater	Corrective Action Implemented 2005	OM&M/Groundwater Monitoring and DNAPL Recovery
SWMU-5	Wood Product Storage Area	Permeable soil cover	F027, K001, U051, F034	1906-1985	Soils & Groundwater	Corrective Action Implemented 2005	OM&M/Groundwater Monitoring
SWMU-6 EAST	Primary Drainage Channel DNAPL Excavation	10-ft wide x 5-ft deep x 800 ft long excavation plus additional 10 ft wide x 10 ft deep x 240 ft long, 1795 tons sediment removed	F027, K001, U051, F032	1906-Present	Soils, Groundwater, & Surface Water	Corrective Action Implemented 2005	OM&M/Groundwater Monitoring
SWMU-6 WEST	Primary Drainage Channel DNAPL Excavation	2.3 acres covered with asphalt cap	F027, K001, U051, F032	1906-Present	Soils, Groundwater, & Surface Water	Corrective Action Implemented 2005	OM&M/Groundwater Monitoring
SWMU-7(1)	Overflow Impoundment	1,970 tons sludge and water removed / 106 CY soil in contact with K001 waste remained. Closed landfill.	F027, K001, U051	1970-1990	Soils & Groundwater	Closure certification submitted in 1990; closed as a landfill	Post Closure Care/Groundwater Monitoring
SWMU-8	Former Creosote Unloading Area	Permeable soil cover	F027, K001, U051, F034	1906-1990	Soils & Groundwater	Corrective Action Implemented 2005	OM&M/Groundwater Monitoring
AOC-1	Mobile Drum Storage Area	N/A	N/A	1988	Soils	NFA, 1988	NFA, 1988

Notes:

(1) Wastes Removed/Corrective Action for SWMUs-2 and -7 represent the combined total removed and remaining.

N/A - Not Applicable
NFA - No Further Action
CY - cubic yards

TABLE 3
SUMMARY OF WELL CONSTRUCTION DATA
Alabama Wood Treating Corporation Site
Mobile, Alabama

Well ID	Well Installation Date	Well Type	Latitude	Longitude	Ground Elevation (ft NAVD 88)[1]	Top of Casing Elevation (ft NAVD 88)[1]	Total Well Depth Installed (ft)	Screened Interval (ft MSL)	Units Monitored	Monitored Zone
4-D	6/26/1986	DNAPL_MWRS	30º40'02.67"N	88º02'26.57"W	13.68	13.02	103.3	-80.4 to -90.4	SWMUs 2,4,5,6,7,8	Deep
4-DK	11/17/1988	DNAPL_MWRS	30º40'02.67"N	88º02'26.38"W	13.69	12.60	100.0	-82.1 to -92.1	SWMUs 2,4,5,6,7,8	Deep
6-I	6/25/1986	DNAPL_EFF	30º40'05.07"N	88º02'21.13"W	13.55	12.73	62.5	-42.6 to -52.6	SWMUs 2,4,5,6,7,8	Intermediate
6-S	6/27/1986	DNAPL_EFF	30º40'05.1"N	88º02'21.18"W	13.46	11.82	19.5	-4.3 to -9.3	SWMUs 2,4,5,6,7,8	Upper
7-D	6/20/1999	POC	30º40'08.78"N	88º02'08.64"W	15.31	14.25	96.1	-76.4 to -86.4	SWMUs 2,4,5,6,7,8	Deep
7-IR	6/29/1999	POC	30º40'08.8"N	88º02'08.94"W	15.50	14.64	62.0	-42.8 to -52.8	SWMUs 2,4,5,6,7,8	Intermediate
7-S	11/3/1988	POC	30º40'08.79"N	88º02'08.8"W	15.41	14.19	15.0	2.9 to -7.4	SWMUs 2,4,5,6,7,8	Upper
8-D	11/10/1988	POC	30º40'00.21"N	88º02'12.06"W	14.52	13.98	96.0	-76.3 to -86.1	SWMUs 2,4,5,6,7,8	Deep
8-DK	4/7/1992	POC	30º40'00.11"N	88º02'12.19"W	14.64	14.13	128.0	-105.52 to -115.52	SWMUs 2,4,5,6,7,8	Deep
8-I	6/11/1986	POC	30º40'00.24"N	88º02'12.22"W	14.59	14.18	70.0	-48.1 to -58.1	SWMUs 2,4,5,6,7,8	Intermediate
8-S	7/10/1986	POC	30º40'00.24"N	88º02'12.15"W	14.64	14.00	15.5	6.67 to -3.33	SWMUs 2,4,5,6,7,8	Upper
9-I	6/12/1986	POC	30º39'56.44"N	88º02'15.88"W	14.00	13.24	62.5	-40.4 to -50.4	SWMUs 2,4,5,6,7,8	Intermediate
11-I	11/7/1988	DNAPL_EFF	30º40'09.96"N	88º02'21.05"W	14.93	14.07	50.0	-30.9 to -40.9	SWMUs 2,4,5,6,7,8	Intermediate
11-S	7/10/1986	DNAPL_EFF	30º40'09.96"N	88º02'21.14"W	15.11	14.19	15.5	6.03 to -3.97	SWMUs 2,4,5,6,7,8	Upper
12-I	11/4/1988	DNAPL_EFF	30º40'09.19"N	88º02'13.64"W	12.96	12.26	50.0	-31 to -41	SWMUs 2,4,5,6,7,8	Intermediate
13-I	11/4/1988	DNAPL_EFF	30º40'07.4"N	88º02'16.2"W	14.71	13.43	50.0	-30.8 to -40.8	SWMUs 2,4,5,6,7,8	Intermediate
15-D	4/30/1998	POC	30º40'04.49"N	88º02'10.15"W	14.12	13.34	91.0	-73.0 to -83.01	SWMUs 2,4,5,6,7,8	Deep
15-I	11/2/1988	POC	30º40'04.38"N	88º02'10.16"W	14.02	13.28	48.5	-31.0 to -41.0	SWMUs 2,4,5,6,7,8	Intermediate
15-S	11/3/1988	POC	30º40'04.42"N	88º02'10.16"W	14.02	13.26	15.0	2.5 to -7.5	SWMUs 2,4,5,6,7,8	Upper
16-D	9/13/1989	POC	30º39'54.81"N	88º02'23.45"W	13.45	12.68	106.0	-85.8 to -95.8	SWMUs 2,4,5,6,7,8	Deep
16-I	11/15/1988	POC	30º39'54.82"N	88º02'23.45"W	13.39	12.67	50.0	-32.2 to -43.2	SWMUs 2,4,5,6,7,8	Intermediate
17-D	9/7/1989	DNAPL_EFF	30º40'01.77"N	88º02'31.85"W	7.77	9.32	106.0	-85 to -95	SWMUs 2,4,5,6,7,8	Deep
17-S	1/13/1988	DNAPL_RWS	30º40'01.83"N	88º02'31.86"W	7.80	10.10	15.0	2.5 to -7.5	SWMUs 2,4,5,6,7,8	Upper
18-DR	2/14/2012	DNAPL_EFF	30º40'03.84"N	88º02'32.39"W	8.37	9.84	105.0	-84.9 to -94.9	SWMUs 2,4,5,6,7,8	Deep
18-IR	2/16/2012	DNAPL_MWRS	30º40'03.74"N	88º02'32.36"W	7.55	9.34	50.0	-29.6 to -39.6	SWMUs 2,4,5,6,7,8	Intermediate
19-SR	11/7/2011	BKG	30º40'08.43"N	88º02'33.98"W	9.09	10.98	20.0	-1.1 to -11.1	SWMUs 2,4,5,6,7,8	Upper
20-I	9/7/1989	DNAPL_MWRS	30º40'05.67"N	88º02'31.38"W	11.44	10.90	53.0	-32.8 to -42.8	SWMUs 2,4,5,6,7,8	Intermediate
21-I	9/9/1989	DNAPL_EFF	30º40'01.49"N	88º02'34.27"W	7.59	9.54	50.5	-28.5 to -38.5	SWMUs 2,4,5,6,7,8	Intermediate
21-S	9/5/1989	DNAPL_MWRS	30º40'01.54"N	88º02'34.35"W	7.83	10.69	22.6	1.5 to -8.5	SWMUs 2,4,5,6,7,8	Upper
23-D	9/14/1989	DNAPL_EFF	30º40'02.65"N	88º02'21.44"W	14.20	13.64	101.0	-78.9 to -88.9	SWMUs 2,4,5,6,7,8	Deep
23-I	9/6/1989	DNAPL_EFF	30º40'02.72"N	88º02'21.39"W	14.06	13.55	48.5	-26.3 to -36.3	SWMUs 2,4,5,6,7,8	Intermediate
25-I	8/31/1989	DNAPL_EFF	30º40'06.4"N	88º02'13.05"W	13.54	12.42	53.0	-31.7 to -41.7	SWMUs 2,4,5,6,7,8	Intermediate
26-I	9/1/1989	DNAPL_EFF	30º40'08.18"N	88º02'10.33"W	14.87	14.32	53.0	-31.9 to -41.9	SWMUs 2,4,5,6,7,8	Intermediate
31-DR	1/9/2007	POC	30º39'58.07"N	88º02'35.92"W	10.33	12.39	108.7	-85.9 to -95.9	SWMUs 2,4,5,6,7,8	Deep
31-IR	1/8/2007	POC	30º39'58.08"N	88º02'35.88"W	10.26	12.59	53.6	-30.7 to -40.7	SWMUs 2,4,5,6,7,8	Intermediate
32-I	4/24/1998	POC	30º39'55.12"N	88º02'27.4"W	10.35	10.09	48.0	-27.1 to -37.1	SWMUs 2,4,5,6,7,8	Intermediate
32-S	4/21/1998	POC	30º39'55.07"N	88º02'27.32"W	10.37	10.20	20.0	0.8 to -9.2	SWMUs 2,4,5,6,7,8	Upper
PZ-1-D	4/19/2012	Piezometer	30º40'12.57"N	88º02'34.56"W	10.95	13.40	98.0	-79.2 to -84.2	SWMUs 2,4,5,6,7,8	Deep
PZ-1-S	4/17/2012	Piezometer	30º40'12.54"N	88º02'34.61"W	10.81	13.12	17.0	1.1 to -3.9	SWMUs 2,4,5,6,7,8	Upper
PZ-13-D	4/12/2012	Piezometer	30º40'12.81"N	88º02'16.64"W	14.74	17.09	81.0	-75.9 to -80.5	SWMUs 2,4,5,6,7,8	Deep
PZ-16-S	4/17/2012	Piezometer	30º39'55.53"N	88º02'18.47"W	13.68	13.10	6.9	1.1 to -3.9	SWMUs 2,4,5,6,7,8	Upper
PZ-19-I	4/17/2012	Piezometer	30º40'08.37"N	88º02'34.27"W	10.45	13.07	35.1	-29.6 to -34.6	SWMUs 2,4,5,6,7,8	Intermediate
PZ-30-D	4/23/2012	Piezometer	30º40'00.83"N	88º02'35.65"W	9.10	11.37	82.7	-77.2 to -82.2	SWMUs 2,4,5,6,7,8	Deep
RW-1	4/11/1992	DNAPL_MWRS	30º40'01.44"N	88º02'34.45"W	8.35	10.03	20.0	0.2 to -9.8	SWMUs 2,4,5,6,7,8	Upper
RW-3	4/10/1992	DNAPL_RWS	30º40'09.51"N	88º02'17.67"W	14.28	8.63	101.0	-79.7 to -89.7	SWMUs 2,4,5,6,7,8	Deep

TABLE 3
SUMMARY OF WELL CONSTRUCTION DATA
Alabama Wood Treating Corporation Site
Mobile, Alabama

Well ID	Well Installation Date	Well Type	Latitude	Longitude	Ground Elevation (ft NAVD 88)[1]	Top of Casing Elevation (ft NAVD 88)[1]	Total Well Depth Installed (ft)	Screened Interval (ft MSL)	Units Monitored	Monitored Zone
RW-4	4/13/1999	DNAPL_RWS	30º40'09.48"N	88º02'17.07"W	14.90	8.92	102.5	-81.4 to -91.4	SWMUs 2,4,5,6,7,8	Deep
RW-5	4/14/1999	DNAPL_RWS	30º40'08.39"N	88º02'17.72"W	14.04	8.41	99.5	-78.9 to -88.9	SWMUs 2,4,5,6,7,8	Deep
RW-6	7/14/2004	DNAPL_RWS	30º40'09.08"N	88º02'16.22"W	15.63	9.30	90.5	-78.5 to -88.5	SWMUs 2,4,5,6,7,8	Deep
RW-7	7/20/2004	DNAPL_RWS	30º40'08.82"N	88º02'16.88"W	14.89	8.72	94.6	-82.6 to -92.6	SWMUs 2,4,5,6,7,8	Deep
RW-8	7/6/2004	DNAPL_RWS	30º40'08.22"N	88º02'16.56"W	15.15	8.72	91.6	-79.6 to -89.6	SWMUs 2,4,5,6,7,8	Deep

Notes:

(ft) = feet
S = Shallow groundwater interval, upper water-bearing zone
I = Intermediate groundwater interval, upper water-bearing zone
D = Deep groundwater interval, lower water-bearing zone
DK = Deep groundwater interval, upper Miocene Series-Pensacola Clay water-bearing zone (screened below the bottom of Pensacola Clay confining layer)
R = Replacement Well
BKG = Background Monitoring Well
DNAPL_EFF = DNAPL Effectiveness Monitoring Well
POC = Point of Compliance Monitoring Well
DNAPL_MWRS = Monitoring Well Recovery System used for shallow DNAPL recovery (monitoring well converted for DNAPL recovery)
DNAPL_RWS = Recovery Well System used for deep DNAPL recovery
(1) Top of casing elevations updated based on new survey data submitted to ADEM on July 14, 2021 with ground elevations subsequently adjusted based on field surveys.

TABLE 4
LITHOLOGIC CHARACTERISTICS OF GEOLOGIC UNITS
Alabama Wood Treating Corporation Site
Mobile, Alabama

MATERIAL	THICKNESS	DESCRIPTIONS
	UPPER WATER-BEARING ZONE (SHALLOW ZONE)	
Organic Rich Clayey Silt to Fine Sand	Thickness of 1-2 Feet	Mixture of Shells and Black, Organic-Rich Clayey Silt to Fine Sand
Clayey Silt to Fine Sand	Ranges in Thickness from 15-20 Feet	Gray Clayey Silt and Fine Sand with Intermittent Thin Lenses of Clay and Organic Matter
	LOWER WATER-BEARING ZONE (INTERMEDIATE ZONE)	
Fine to Medium Sand	Thickness of 20-30 Feet	Fine to Medium Grained Gray to Brown Sands
	(DEEP ZONE)	
Mediume to Very Coarse Sand	Thickness of 40-50 Feet	Medium to Very Coarse Sand, Contains Thin Layers of Pebbles, Gravel and Clay
	(LOWER CONFINNING LAYERS	
Clay	Approximate Depth of 90-100 Feet Below Ground Surface	Dark Grey Sand

TABLE 5
SUMMARY OF GROUNDWATER ELEVATIONS (2002 AND 2021)
Alabama Wood Treating Corporation Site
Mobile, Alabama

Well ID	Groundwater Elevation Nov. 26, 2002 (ft.)	Top of Casing Elevation Jun. 26, 2021 (ft.)	Depth to Top of Groundwater Jun. 26, 2021 (ft. btoc)	Groundwater Elevation Jun. 26, 2021 (ft.)	Measured Well Depth Jun. 26, 2021 (ft. btoc)
1-D	2.46	NC	NC	NC	NC
1-I	2.58	NC	NC	NC	NC
1-S	5.79	NC	NC	NC	NC
2-S	6.55	NC	NC	NC	NC
4-I	2.41	NC	NC	NC	NC
4-S	6.01	NC	NC	NC	NC
5-I	2.32	NC	NC	NC	NC
6-I	2.03	12.09	9.74	2.35	65.33
6-S	4.83	12.08	8.72	3.36	24.51
7-D	0.60	14.52	11.98	2.54	99.20
7-IR	1.17	14.90	12.21	2.69	69.37
7-S	3.35	14.49	11.12	3.37	25.17
8-D	1.18	14.17	11.71	2.46	102.92
8-DK	1.97	14.31	11.76	2.55	134.27
8-I	1.51	14.37	11.67	2.70	75.50
8-S	5.23	14.16	10.97	3.19	20.48
9-I	1.74	13.81	10.52	3.29	67.16
10-D	2.62	NC	NC	NC	NC
10-I	2.65	NC	NC	NC	NC
11-I	2.33	14.44	12.77	1.67	58.47
11-S	8.80	14.51	10.08	4.43	21.12
12-I	1.90	12.55	9.64	2.91	55.15
12-S	7.94	NC	NC	NC	NC
13-D	2.06	NC	NC	NC	NC
13-I	2.02	13.74	10.97	2.77	57.10
14-D	1.64	NC	NC	NC	NC
15-D	0.75	13.56	11.15	2.41	96.45
15-I	1.48	13.55	10.78	2.77	57.32
15-S	4.34	13.56	10.61	2.95	20.35
16-D	2.06	13.29	9.67	3.62	110.01
16-I	2.21	13.28	9.74	3.54	57.80
17-D	2.60	9.60	6.50	3.10	96.71
17-I	2.74	NC	NC	NC	NC
18-D	3.04	NC	NC	NC	NC
18-DR	NC	10.05	6.32	3.73	94.35
19-I	2.80	NC	NC	NC	NC
19-S	6.93	NC	NC	NC	NC
19-SR	NC	11.22	3.80	7.42	22.71
21-I	2.61	9.99	7.93	2.06	53.19
23-D	1.83	13.90	12.09	1.81	102.65
23-I	2.32	13.84	11.91	1.93	53.14
25-I	1.65	12.85	9.83	3.02	55.96
25-S	5.41	NC	NC	NC	NC
26-I	1.70	14.68	11.75	2.93	51.40
29-I	2.35	NC	NC	NC	NC
30-D	2.83	NC	NC	NC	NC
30-I	2.80	NC	NC	NC	NC
31-D	2.30	NC	NC	NC	NC
31-DR	NC	12.74	9.31	3.43	109.16
31-I	2.46	NC	NC	NC	NC
31-IR	NC	12.89	9.39	3.50	53.51
32-I	2.64	10.26	7.10	3.16	42.52
32-S	5.76	10.42	4.90	5.52	19.92
PZ-1-D	NC	13.63	9.67	3.96	101.73
PZ-1-S	NC	13.29	4.92	8.37	19.25
PZ-13-D	NC	17.27	14.41	2.86	95.91
PZ-16-S	NC	13.71	10.20	3.51	22.79
PZ-19-I	NC	13.34	9.37	3.97	47.20
PZ-30-D	NC	11.64	9.47	2.17	94.27

Notes:
(ft.) = feet
(ft. btoc) = feet below top of casing
NC = Not Collected

Prepared by/Date: JMB/02-14-2024
Checked by/Date: MPL/02-29-2024

TABLE 6
GROUNDWATER PROTECTION STANDARDS FOR
SITE-SPECIFIC CONSTITUENTS
Alabama Wood Treating Corporation Site
Mobile, Alabama

Site-Specific Constituent	ACL (mg/L)
Acenaphthene	17.9
Acenaphthylene	0.25
Aldrin	0.026
Anthracene	3.6
Arsenic	0.39
Benzo(a)anthracene	9.0
Benzene	0.17
Benzo(a)pyrene	5.2
Benzo(b)fluoranthene	11.3
Benzo(g,h,i)perylene	3.1
Benzo(k)fluoranthene	1.4
Bis(2-ethylhexyl) phthalate	0.29
Chrysene	8.66
Cobalt	156
Copper	60
Dibenzofuran	11.2
1,1-Dichloroethane	26
Dimethylphenol 2,4-	13
Di-n-octyl phthalate	1.2
1,4-Dioxane	12
Fluoranthene	26
Fluorene	14.4
Hexachloroethane	33
Indeno(1,2,3-cd)pyrene	2.8
Methylaniline hydrochloride, 2- (o-toluidine)	0.29
Methylnaphthalene, 1-	0.78
Methylnaphthalene, 2-	18.2
Methylphenol, 4- (p-cresol)	3.4
Naphthalene	41
1-Naphthylamine	75
2-Naphthylamine	1,161
N-Nitrosodiphenylamine	4.4
Pentachlorophenol	1.04
Phenanthrene	29
Phenol	1,122
Phenolics, total	1,122
Pyrene	29
Vanadium	596
Vinyl chloride	61
Xylenes, total	0.26

ACL - Alternate Concentration Limit

mg/L - milligrams per liter

TABLE 7

SUMMARY OF WELLS FOR PERMIT
GROUNDWATER AND DNAPL EFFECTIVENESS MONITORING PROGRAM
Alabama Wood Treating Corporation Site
Mobile, Alabama

COMPLIANCE WELLS				DNAPL		ELEVATIONS
Point of Compliance (POC) Wells	**Boundary Wells (also POC wells)**	**POC Deep Well**	**Background Well**	**DNAPL Effectiveness Wells**	**DNAPL Product Recovery Wells**	**Piezometers for Groundwater Elevations**
7-S	9-I	8-DK	19-SR	6-S*	4-D	PZ-1-S
7-IR	16-I			6-I*	4-DK	PZ-1-D
7-D	16-D			11-S	17-S	PZ-13-D
8-S	31-IR			11-I	18-IR	PZ-16-S
8-I	31-DR			12-I	20-I	PZ-19-I
8-D	32-S			13-I	21-S	PZ-30-D
9-I	32-I			17-D*	RW-1	
15-S				18-DR	RW-3	
15-I				21-I*	RW-4	
15-D				23-I*	RW-5	
16-I				23-D*	RW-6	
16-D				25-I	RW-7	
31-IR				26-I	RW-8	
31-DR						
32-S						
32-I						

Subtotal:	**16**	**(also POC wells)**	**1**	**1**	**13**	**13**	**6**

Analytical Monitoring Total:	**17 POC + Background**	**DNAPL gauging (twice/yr) Biennial analytical***	**DNAPL Recovery**	**Water Level Only**

*DNAPL effectiveness wells sampled on a biennial basis (once every two years) and sampled for the site-specific constituents listed in Table 8A.

TABLE 8A
GROUNDWATER PROTECTION STANDARDS FOR SITE-SPECIFIC CONSTITUENTS
Alabama Wood Treating Corporation Site
Mobile, Alabama

Annual Groundwater Quality Monitoring		
Corrective Action Monitoring Program		
Site-Specific Constituent	**Laboratory Method of Analysis**	**ACL (mg/L)**
Acenaphthene	SW8270	17.9
Acenaphthylene	SW8270	0.25
Aldrin	SW8081	0.026
Anthracene	SW8270	3.60
Arsenic	SW6010 or 6020	0.39
Benzo(a)anthracene	SW8270	8.96
Benzene	SW8260	0.17
Benzo(a)pyrene	SW8270	5.18
Benzo(b)fluoranthene	SW8270	11.3
Benzo(g,h,i)perylene	SW8270	3.11
Benzo(k)fluoranthene	SW8270	1.4
Bis(2-ethylhexyl) phthalate	SW8270	0.29
Chrysene	SW8270	8.66
Cobalt	SW6010 or 6020	155.5
Copper	SW6010 or 6020	59.6
Dibenzofuran	SW8270	11.2
1,1-Dichloroethane	SW 8260	25.9
Dimethylphenol 2,4-	SW8270	13.0
Di-n-octyl phthalate	SW8270	1.2
1,4-Dioxane	SW8270	11.6
Fluoranthene	SW8270	26.4
Fluorene	SW8270	14.4
Hexachloroethane	SW8270	32.9
Indeno(1,2,3-cd)pyrene	SW8270	2.8
Methylaniline hydrochloride, 2- (o-toluidine)	SW8270	0.29
Methylnaphthalene, 1-	SW8270	0.78
Methylnaphthalene, 2-	SW8270	18.2
Methylphenol, 4- (p-cresol)	SW8270	3.4
Naphthalene	SW8270	41.2
1-Naphthylamine	SW8270	74.9
2-Naphthylamine	SW8270	1,161.13
N-Nitrosodiphenylamine	SW8270	4.44
Pentachlorophenol	SW8270	1.04
Phenanthrene	SW8270	29.0
Phenol	SW8270	1,122.3
Phenolics, total	EPA 420.1	1,122.3
Pyrene	SW8270	28.5
Vanadium	SW6010 or 6020	596
Vinyl chloride	SW 8260	60.6
Xylenes, total	SW8260	0.26

ACL - Alternate Concentration Limit

mg/L - milligrams per liter

ACLs are updated in accordance with Appendix F of the 2024 permit renewal application (see Appendix F)

Performed in accordance with schedule shown on Table 9

DNAPL Effectiveness Wells will be analyzed for the parameters included in the Corrective Action Monitoring Program noted above

TABLE 8B
MONITORING LIST FOR COMPLIANCE MONITORING PROGRAM
Alabama Wood Treating Corporation Site
Mobile, Alabama

Annual Groundwater Quality Monitoring				
Compliance Monitoring Program				
Appendix IX Detections	**Laboratory Method of Analysis**	**Screening Criteria (units)**		
Antimony	SW6010 or 6020	0.0060	a	mg/L
Barium	SW6010 or 6020	2.0	a	mg/L
Cadmium	SW6010 or 6020	0.0050	a	mg/L
Chromium	SW6010 or 6020	0.1	a	mg/L
Cyanide	EPA 335.4	0.20	a	mg/L
Lead	SW6010 or 6020	0.015	a	mg/L
Mercury	SW6010 or SW7470A	0.002	a	mg/L
Nickel	SW6010 or 6020	0.039	a	mg/L
Selenium	SW6010 or 6020	0.05	a	mg/L
Sulfide	EPA 376.2	250	b	mg/L
Thallium	SW6010 or 6020	0.002	a	mg/L
Tin	SW6010 or 6020	1.2	a	mg/L
Zinc	SW6010 or 6020	0.6	a	mg/L
2,4,5-Trichlorophenoxypropionic Acid (2,4,5-TP) (Silvex)	SW8151	0.05	a	mg/L
Acetone	SW8260	1.8	a	mg/L
Bromodichloromethane	SW8260	0.08	a	mg/L
Carbon disulfide	SW8260	0.081	a	mg/L
Chlorobenzene	SW8260	0.100	a	mg/L
Chloroform	SW8260	0.080	a	mg/L
Cyclohexane	SW8260	1.3	a	mg/L
1,1-Dichloroethene	SW8260	0.007	a	mg/L
cis-1,2-Dichloroethene	SW8260	0.07	a	mg/L
trans-1,2-Dichloroethene	SW8260	0.10	a	mg/L
1,2-Dichloropropane	SW8260	0.005	a	mg/L
Ethylbenzene	SW8260	0.7	a	mg/L
Isopropylbenzene (Cumene)	SW8260	0.045	a	mg/L
Methylcyclohexane	SW8260	0.02	a	mg/L
3-Methylphenol (m-cresol)	SW8270	0.093	a	mg/L
n-Propylbenzene	SW8260	0.066	a	mg/L
Toluene	SW8260	1.00	a	mg/L
Trichloroethene (TCE)	SW8260	0.005	a	mg/L
1,2,3-Trimethylbenzene	SW8260	0.0055	a	mg/L
1,2,3,4,6,7,8-HpCDD	SW8290	3.0E-06	c	mg/L
1,2,3,4,6,7,8-HpCDF	SW8290	3.0E-06	c	mg/L

TABLE 8B
MONITORING LIST FOR COMPLIANCE MONITORING PROGRAM
Alabama Wood Treating Corporation Site
Mobile, Alabama

Annual Groundwater Quality Monitoring				
Compliance Monitoring Program				
Appendix IX Detections	**Laboratory Method of Analysis**	**Screening Criteria (units)**		
1,2,3,4,7,8,9-HpCDF	SW8290	3.0E-06	c	mg/L
1,2,3,4,7,8-HxCDD	SW8290	3.0E-07	c	mg/L
1,2,3,4,7,8-HxCDF	SW8290	3.0E-07	c	mg/L
1,2,3,6,7,8-HxCDD	SW8290	3.0E-07	c	mg/L
1,2,3,6,7,8-HxCDF	SW8290	3.0E-07	c	mg/L
1,2,3,7,8,9-HxCDD	SW8290	3.0E-07	c	mg/L
1,2,3,7,8,9-HxCDF	SW8290	3.0E-07	c	mg/L
1,2,3,7,8-PeCDD	SW8290	3.0E-08	c	mg/L
1,2,3,7,8-PeCDF	SW8290	1.0E-06	c	mg/L
2,3,4,6,7,8-HxCDF	SW8290	3.0E-07	c	mg/L
2,3,4,7,8-PeCDF	SW8290	1.0E-07	c	mg/L
2,3,7,8-TCDD	SW8290	3.0E-08	c	mg/L
2,3,7,8-TCDF	SW8290	3.0E-07	c	mg/L
1,2,3,4,6,7,8,9-OCDD	SW8290	1.0E-04	c	mg/L
1,2,3,4,6,7,8,9-OCDF	SW8290	1.0E-04	c	mg/L
Total PeCDD	SW8290	NA	c	-
Total PeCDF	SW8290	NA	c	-
Total HpCDD	SW8290	NA	c	-
Total HpCDF	SW8290	NA	c	-
Total HxCDF	SW8290	NA	c	-
Total HxCDD	SW8290	NA	c	-
Total TCDD	SW8290	NA	c	-
Total TCDF	SW8290	NA	c	-

Notes:

Performed in accordance with schedule shown on Table 9.

MCL - Maximum Contaminant Level

RSL - USEPA Regional Screening Level

RCRA - Resource Conservation and Recovery Act

NA - Not Applicable

a - RSL or MCL per EPA Regional Screening Levels, November 2023

b - The concentration limit for Sulfide is represented by the secondary drinking water standard for Sulfate.

c - RSL not established. Screening values calculated using 2,3,7,8-TCDD RSL and USEPA recommended Toxicity Equivalency Factors (TEF) for each compound. Note, TEFs are not available (NA) for "total" compounds; therefore an ACL is not provided. See 2024 permit renewal application Appendix F

TABLE 8C
LABORATORY METHODS FOR GROUNDWATER MONITORING PROGRAM
Alabama Wood Treating Corporation Site
Mobile, Alabama

Appendix IX Groundwater Quality Monitoring (2024)[a]	
Appendix IX Constituent Group	**Laboratory Method of Analysis[b]**
Volatile Organics	SW8260
Semi-Volatile Organics	SW8270
Inorganics - Metals	SW6010 or SW6020
Inorganics - Mercury	SW 7470
Inorganics - Cyanide	EPA 9016
Inorganics - Sulfide	EPA 376.2 or SM4500 S2D
Pesticides	SW8081
Herbicides	SW8151
Dioxins/Furans	SW8290
Total Recoverable Phenolics	EPA 420.1 or EPA 420.4
Polychlorinated Biphenyls (PCBs)	SW8082
1,2-Dibromoethane and 1,2-Dibromo-3-chloropropane by Microextraction	SW8011

Notes:

a - Analyses performed in accordance with the sampling schedule shown on Table 9 of the permit application.

b - Laboratory methods will be the most current SW846 method in accordance with the AEIRG.

TABLE 9
SUMMARY OF GROUNDWATER MONITORING PLAN
Alabama Wood Treating Corporation Site
Mobile, Alabama

Well ID	Well Installation Date	Well Type	Monitored Zone	Semi-Annual Water Level Measurement	Annual Sampling Event[1]	DNAPL Effectiveness Well Program[2]	Annual Rotating Appendix IX Event[3]	Semi-Annual DNAPL Thickness Measurement
19-SR	11/7/2011	BKG	Upper	X	X		X	
6-I	6/25/1986	DNAPL_EFF	Intermediate	X		X		X
6-S	6/27/1986	DNAPL_EFF	Upper	X		X		X
11-I	11/7/1988	DNAPL_EFF	Intermediate	X				X
11-S	7/10/1986	DNAPL_EFF	Upper	X				X
12-I	11/4/1988	DNAPL_EFF	Intermediate	X				X
13-I	11/4/1988	DNAPL_EFF	Intermediate	X				X
17-D	9/7/1989	DNAPL_EFF	Deep	X		X		X
18-DR	2/14/2012	DNAPL_EFF	Deep	X				X
21-I	9/9/1989	DNAPL_EFF	Intermediate	X		X		X
23-D	9/14/1989	DNAPL_EFF	Deep	X		X		X
23-I	9/6/1989	DNAPL_EFF	Intermediate	X		X		X
25-I	8/31/1989	DNAPL_EFF	Intermediate	X				X
26-I	9/1/1989	DNAPL_EFF	Intermediate	X				X
PZ-1-D	4/19/2012	Piezometer	Deep	X				
PZ-1-S	4/17/2012	Piezometer	Upper	X				
PZ-13-D	4/12/2012	Piezometer	Deep	X				
PZ-16-S	4/17/2012	Piezometer	Upper	X				
PZ-19-I	4/17/2012	Piezometer	Intermediate	X				
PZ-30-D	4/23/2012	Piezometer	Deep	X				
7-D	6/20/1999	POC	Deep	X	X		X	
7-IR	6/29/1999	POC	Intermediate	X	X		X	
7-S	11/3/1988	POC	Upper	X	X		X	
8-D	11/10/1988	POC	Deep	X	X		X	
8-DK	4/7/1992	POC	Deep	X	X			
8-I	6/11/1986	POC	Intermediate	X	X		X	
8-S	7/10/1986	POC	Upper	X	X		X	
9-I	6/12/1986	POC	Intermediate	X	X		X	
15-D	4/30/1998	POC	Deep	X	X		X	
15-I	11/2/1988	POC	Intermediate	X	X		X	
15-S	11/3/1988	POC	Upper	X	X		X	
16-D	9/13/1989	POC	Deep	X	X		X	
16-I	11/15/1988	POC	Intermediate	X	X		X	
31-DR	1/9/2007	POC	Deep	X	X		X	
31-IR	1/8/2007	POC	Intermediate	X	X		X	
32-I	4/24/1998	POC	Intermediate	X	X			
32-S	4/21/1998	POC	Upper	X	X			

Notes:
BKG = Background Monitoring Well
DNAPL_EFF = DNAPL Effectiveness Monitoring Well
POC = Point of Compliance Monitoring Well
(1) Refer to Table 8A/8B for Site-Specific and Appendix IX Detections to be monitored annually at designated wells.
(2) Refer to Table 8A for Site-Specific constituents to be monitored biennially, in even number years, at designated wells.
(3) Appendix IX Program rotating schedule (refer to Table 8C for constituent group analysis to be performed at designated Appendix IX wells each year):
Year 1 (2024) 7-S, 7-IR, 7-D
Year 2 (2025) 31-IR, 31-DR
Year 3 (2026) 15-S, 15-I, 15-D
Year 4 (2027) 8-S, 8-I, 8-D
Year 5 (2028) 9-I, 16-I, 16-D, 19-SR

TABLE 10
SUMMARY OF ASPA CONTIGUOUS PROPERTIES SWMU AND AOC FINDINGS
Alabama Wood Treating Corporation Site
Mobile, Alabama

ASPA Contiguous Property	Description	Wastes Removed/ Corrective Action	Wastes and/or Hazardous Constituents Managed	Approximate Operational Dates	Potentially Effected Media	Conclusions	SWMU STATUS
SWMU-9	Abandoned Paint Containers and Drum	13x1-Gal. Cans 2x5-Gal. Cans 1x55-Gal. Drum	Paint and resins	Not applicable	Soils	No Soil Contamination	NFA, 2003
SWMU-10	Abandoned Drums in Woods	7x55-Gal. Drums	Unknown	Not applicable	Soils & Groundwater	No Soil or Groundwater Contamination	NFA, 2003
SWMU-11	Drum Yard (Red Line)	Drums removed prior to Workplan implementation Pending further investigation	Roofing material product	Not applicable	Soils & Groundwater	PCB and BAP Contaminated Soils; No Groundwater Contamination See footnote 3.	PCB-contaminated soils removed. Further investigation pending per ADEM concurrence with *Revised Scope of Work Delineation Soil Sampling and Related Activities for Solid Waste Management Unit 11* , dated October 6, 2023
AOC-2	Abandoned Dumpsters	2 Dumpsters	Trash and motor oil	Not applicable	Soils	No Soil Contamination	NFA, 2003
AOC-3	Abandoned Drum	1x55-Gal. Drum	Unknown	Not applicable	Soils	No Soil Contamination	NFA, 2003
AOC-4	Abandoned Drums Off Marvin Street	3x55-Gal. Drums 1 x20- to 30-Gal. Drum	Unknown	Not applicable	Soils	No Soil Contamination	NFA, 2003
AOC-5	Automobile Gas Tanks	Tanks removed prior to Workplan implementation	Either gasoline or diesel	Not applicable	Soils	No Soil Contamination	NFA, 2003
AOC-6	Five-Gallon Cans, Capacitors, and Refrigerator	2x5-Gal. Cans 3x1-Gal. Cans 1 Refrigerator 3 Capacitors	Oil	Not applicable	Soils & Groundwater	No Soil or Groundwater Contamination	NFA, 2003
AOC-7[(1)]	Debris Located Near Choctaw Pass	Creosote wood, tires, and debris	Creosote wood, tires, trash	Not applicable	Soils	No Soil Contamination	NFA, 2014
AOC-8[(1)]	Abandoned Drum on Star Property	1 Drum	Unknown	Not applicable	Soils	No Soil Contamination	NFA, 2014
AOC-9[(1)]	Abandoned Automobile and Debris Inside Warehouse	Automobile, pile of mud, sorbent booms, pallet, and debris	Automobile and trash	Not applicable	Soils	No Soil Contamination	NFA, 2014
AOC-10[(1)]	Drainage Ditch Parallel to Ezra Trice Boulevard	Oil sheen	Oil sheen	Not applicable	Surface Water	No Surface Water Contamination	NFA, 2014
AOC-11	Former Armstrong World Industries LLC	Pending investigation	Asphalt roofing and ceiling tiles	1950s-Early 2000s	Pending investigation	Pending investigation	Investigation pending per ADEM concurrence with *Revised Comprehensive Investigation and Assessment Work Plan for Armstrong World Industries LLC* , dated November 29, 2023 and December 20, 2023
AOC-12	Former Mobile River Terminal	Pending investigation	Bulk materials	Early 1950s-2010	Pending investigation	Pending investigation	Investigation pending per ADEM concurrence with *Revised Former Mobile River Terminal Phase II Environmental Site Assessment Work Plan* , dated December 18, 2023
P&H Construction[(2)] Property	Former fueling, painting, and sandblasting activities	Not applicable	Fuel, paint, sandblasting	Unknown	Soil	No Soil Contamination	NFA
Norden Industries Property[(2)]	Former warehouse for recycled paper	Not applicable	Recycled paper	Unknown	Soil	No Soil Contamination	NFA

Notes:
PCB - Polychlorinated Biphenyls Aroclor 1260
BAP - Benzo(a)pyrene
NFA - No Further Action
Confirmation Resampling Results from February 3, 2003
(1) AOCs-7 through 10 were not included in prior Permit Applications or the 2014 Permit but are provided herein for completeness. Source removal and confirmatory sampling was performed by ASPA.
(2) P&H Construction and Norden Industries are no longer companies that exist on the AWTC site. In addition, there are no longer any structures or identifying markers associated with these two entities on the property where these two entities previously existed. Since the 2003 Contiguous Properties sampling report addressed these areas and resulted in no results above action levels, the properties formerly occupied by these two entities are included herein.

(3) Upon completion of the 2003 Contiguous Properties sampling report, PCB and BAP contamination in soil was identified, and follow-up remedial actions were recommended. Supplemental excavations, investigations, and sampling were performed. PCB-contaminated soils have since been addressed. Constituents with concentrations remaining in onsite soil above residential screening levels include BAP, bis(2-ethylhexyl)phthalate, dibenz(a,h)anthracene, arsenic, and lead. Investigation of these constituents to delineate soil to unrestricted use is pending. Additionally, ADEM requested the inclusion of n-nitrosodi-n-proplyamine in the sampling plan (non-detect but method detection limits greater than residential screening levels).

Figures

Legend

- Area of Concern (AOC) or Solid Waste Management Unit (SWMU)
- Approximate Limits of Contiguous Properties
- AWTC Facility Boundary
- AOC 11 and AOC 12
- AOCs
- SWMUs
- AWTC 1000 ft Buffer
- AWTC 1 mile Buffer

City of Mobile

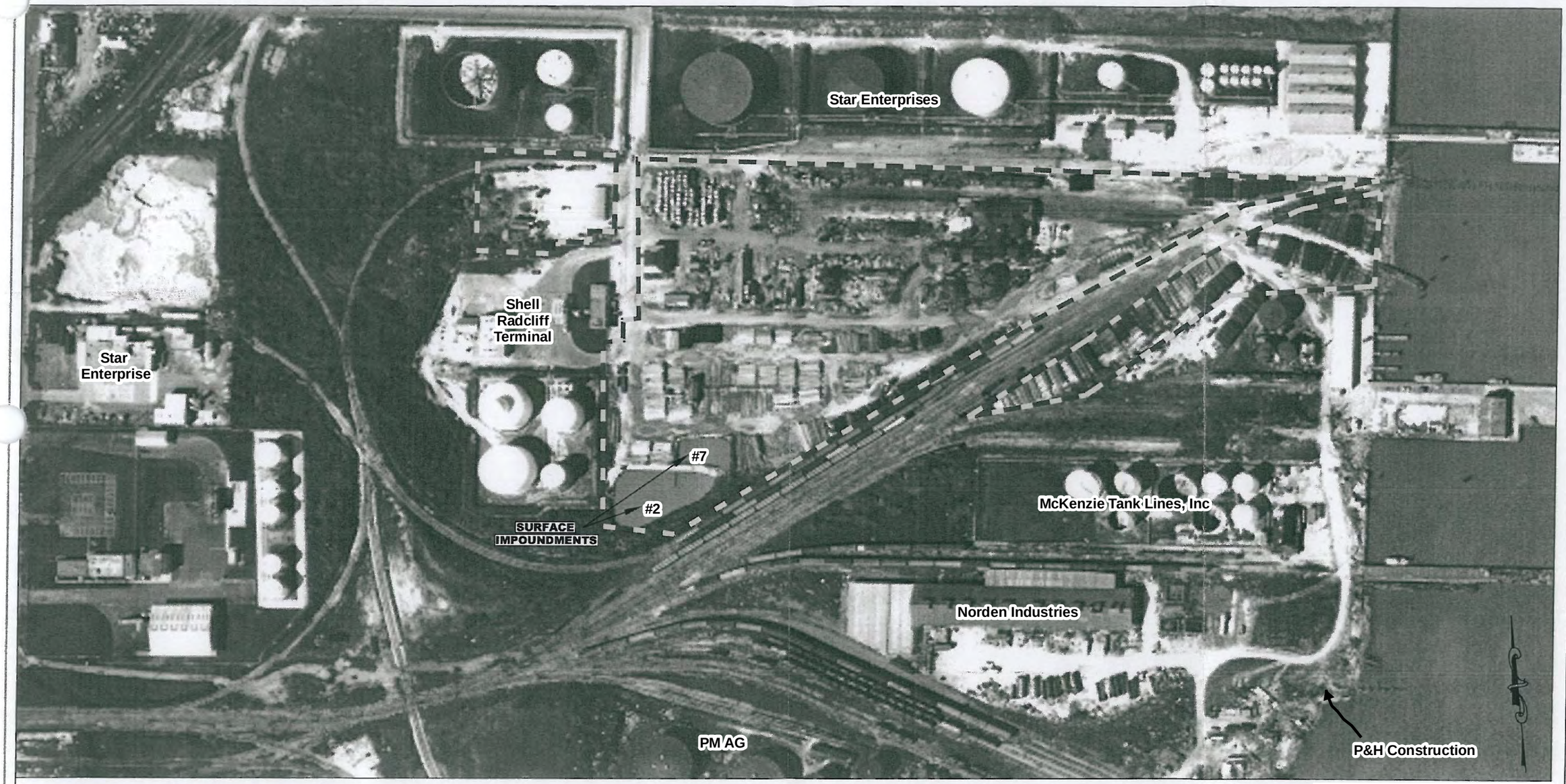
Interstate 10

N

0 1,000 2,000 4,000 Feet

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\ASPA_Property_Location_Map.mxd

Alabama State Port Authority	
2024 Permit Renewal Application	
ASPA Property Location Map	
Prepared By-Date: SLH: 5/30/2024	**Figure: 1**
Checked By-Date: MPL: 5/30/2024	
Project Number: 7630233209	



APPROXIMATE SITE PROPERTY BOUNDARY

PHOTOGRAPH 1 – AERIAL VIEW – SEPTEMBER 22, 1979
ALABAMA WOOD TREATING CORPORATION SITE
ALABAMA STATE PORT AUTHORITY
MOBILE, ALABAMA

0 200 400
APPROXIMATE SCALE: 200 FT/IN

Source:
2003 Permit Renewal Application, Part A, Photograph 1

Alabama State Port Authority	
2024 Permit Renewal Application	
Site Property Description	
Prepared By-Date: SLH: 2/10/2024	Figure: 2A
Checked By-Date: MPL: 2/10/2024	
Project Number: 7630233209	

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\Site_Property_Description.mxd

Legend

- Point of Exposure
- Point of Compliance
- Waste Management Area
- AWTC Facility Boundary
- SWMU/AOC Boundary
- Combined SWMUs 2/7
- Combined SWMUs 4/5/8 (Based on CMI)

N

Former Star Enterprise

Old Water Street

AOC 1

SWMU 4

SWMU 8

SWMU 3

SWMU 1

SWMU 5

SWMU 5

Combined SWMU's 4/5/8

Former Shell Radcliff Terminal

SWMU 7

SWMU 2

Conception Street

Oil Recovery, Inc. (Former Star Enterprise)

Ezra Trice Blvd.

SWMU 6 East

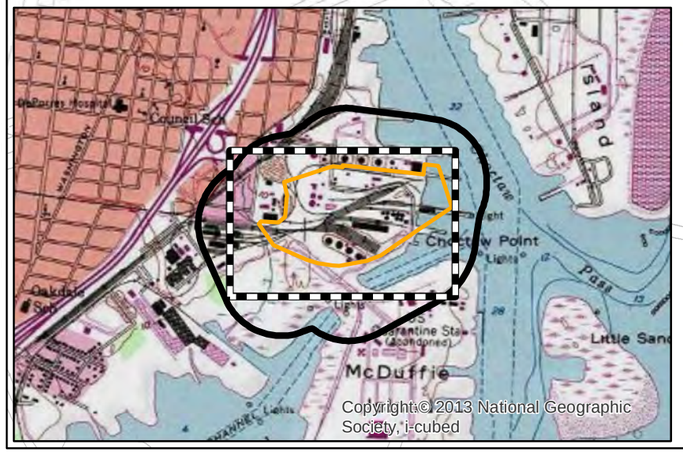
SWMU 6 West

Former McKenzie Tank Lines, Inc.

Former Norden Industries

Former PM AG

Former P&H Construction



0 100 200 400 Feet

Alabama State Port Authority	
2024 Permit Renewal Application	
Facility Boundaries Map	
Prepared By-Date: SLH: 2/28/2024	
Checked By-Date: MPL: 2/28/2024	
Project Number: 7630233209	
wsp	Figure: 2B

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\Facilities_Boundaries_Map.mxd

Legend

- Area of Concern (AOC)
- Monitoring Well Recovery System
- Background
- DNAPL Recovery Well
- DNAPL Effectiveness Monitoring Well
- Point of Compliance Well
- Piezometer
- Point of Exposure
- Point of Compliance
- Waste Management Area
- AWTC Facility Boundary
- SWMU/AOC Boundary

N

Groundwater Treatment System

PZ-1-S
PZ-1-D
PZ-13-D
19-SR
PZ-19-I
PZ-30-D
31-IR
31-DR
32-I
32-S
16-D
16-I
PZ-16-S
9-I

Former Star Enterprise
Former Shell Radcliff Terminal
Oil Recovery, Inc. (Former Star Enterprise)
Former McKenzie Tank Lines, Inc.
Former Norden Industries
Former PM AG
Former P&H Construction

AOC 1
AOC-7
AOC-8
AOC-9
AOC-10

SWMU 1
SWMU 3
SWMU 4
SWMU 5
SWMU 6 East
SWMU 6 West
SWMU 8

Combined SWMU's 2/7
Combined SWMU's 4/5/8

11-I
11-S
RW-3
RW-4
RW-6
RW-7
RW-5
RW-8
12-I
13-I
7-IR
7-D
7-S
26-I
25-I
6-I
6-S
15-D
15-I
15-S
20-I
18-DR
18-IR
Trice Blvd.
Ezra
21-I
RW-1
17-D
17-S
4-D
4-DK
23-I
23-D
8-I
8-D
8-DK
8-S

0 100 200 400 Feet

Alabama State Port Authority	
2024 Permit Renewal Application	
AWTC Facility Map	
Prepared By-Date: SLH: 5/30/2024	Figure: 2C
Checked By-Date: MPL: 5/30/2024	
Project Number: 7630233209	

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\AWTC_Facility_Map.mxd

Legend

- AWTC Facility Boundary
- 1000 Ft Buffer

Landuse

- COMMERCIAL/INDUSTRIAL
- TRANSPORTATION
- WATERS OF THE STATE

N

0 200 400 800 Feet

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Alabama State Port Authority

2024 Permit Renewal Application

Surrounding Land Use

Prepared By-Date: SLH: 3/12/2024	wsp	Figure: 3
Checked By-Date: MPL: 3/12/2024		
Project Number: 7630233209		

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\Existing_and_Planned_Development_Areas.mxd

Alabama State Port Authority

2024 Permit Renewal Application

Existing and Planned Development Areas

Prepared By-Date: SLH: 3/26/2024	wsp	Figure: 4
Checked By-Date: MPL: 3/26/2024		
Project Number: 7630233209		

Legend

- Gates
- Security Fence
- AWTC Facility Boundary
- AWTC 1000 ft Buffer
- SWMU Boundary
- Combined SWMU Area
- Buildings

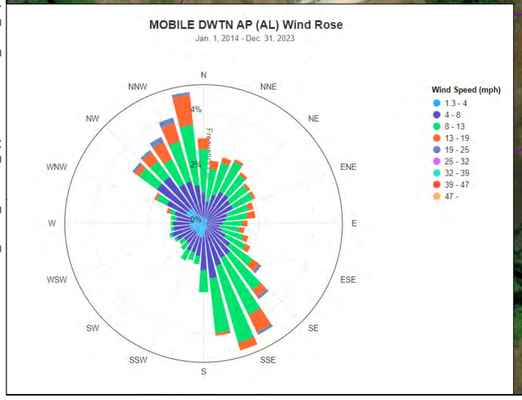
Elevation

- Elevation Contours Below 12 feet
- Elevation Contours Above 12 feet

N

Mobile River Flow

AOC 1
SWMU 1
SWMU 3
SWMU 4
SWMU 5
SWMU 6 East
SWMU 6 West
SWMU 8
Combined SWMU's 2/7
Combined SWMU's 4/5/8



0 200 400 Feet

Note:
Source for topo: USACE 2020 LIDAR

Alabama State Port Authority	
2024 Permit Renewal Application	
General Area Topo Map	
Prepared By-Date: JRM: 3/26/2024	**Figure: 5**
Checked By-Date: MPL: 3/26/2024	
Project Number: 7630233209	

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\General_Area_Topo_Map.mxd

Legend

1000 ft Buffer

AWTC Facility Boundary

FEMA Flood Zones

Zone AE: 1% Chance Annual Flood (Former 100-Year Floodplain)

Zone AE Floodway: Areas reserved in order to discharge the base flood.

Zone VE: Coastal areas with a 1% or greater chance of flooding and an additional hazard associated with storm waves.

Zone X-(shaded): 0.2% Chance Annual Flood Area (Formerly 500-Year Floodplain)

Zone X (unshaded)

Zone X (shaded)

Zone AE

Zone X (shaded)

Zone X (unshaded)

Zone AE

Zone AE (Floodway)

Zone X (shaded)

Zone AE

Zone AE

Zone VE

Zone AE (Floodway)

N

0 200 400 800 Feet

Source: FEMA NFHL 12-25-2023 (NFHL_01_20231225.gdb)

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\Floodplain_Map.mxd

Alabama State Port Authority

2024 Permit Renewal Application

FEMA Floodplain Map

Prepared By-Date: SLH: 2/1/2024

Checked By-Date: MPL: 2/12/2024

Project Number: 7630233209

wsp

Figure: 6

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\AWTC_Surface_Water_and_Drainage_Features.mxd

Alabama State Port Authority

2024 Permit Renewal Application

AWTC Surface Water and Drainage Features

Prepared By-Date: SLH: 3/26/2024	wsp	**Figure: 7**
Checked By-Date: MPL: 3/26/2024		
Project Number: 7630233209		

N

PZ-1-S
PZ-1-D
PZ-13-D
19-SR
19-S
19-I
1-I
1-S
1-D
PZ-19-I
11-S
11-I
RW-3
RW-4
RW-6
27-D
12-S
12-I
RW-7
RW-5
RW-8
14-I
14-S
14-D
13-I
13-S
13-D
26-I
7-IR
7-D
7-S
Combined SWMU's 4/5/8
25-I
25-S
20-I
18-S
18-D
18-I
18-IR
18-DR
Conception Street
Ezra Trice Blvd.
Combined SWMU's 2/7
2-S
6-S
6-I
5-I
15-I
15-S
15-D
SWMU 6 East
4-D
D
RW-2
4-DK
29-I
23-I
23-D
4-S
4-I
21-S
21-I
17-D
17-S
22-S
30-I
SWMU 6 West
RW-1
17-I
30-D
PZ-30-D
8-S
8-DK
8-I
8-D
10-I
31-IR
10-D
31-DR
32-S
16-I
PZ-16-S
9-I
32-I
16-D
31-I
31-D

Legend

- Background
- Monitoring Well Recovery System
- DNAPL Recovery Well
- DNAPL Effectiveness Monitoring Well
- Point Of Compliance
- Piezometer
- Abandoned Well
- Waste Management Area
- Point of Compliance
- Point of Exposure
- AWTC Facility Boundary

0 200 400 800 Feet

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\AWTC_Historical_Site_Plan.mxd

Alabama State Port Authority	
2024 Permit Renewal Application	
AWTC Historical Site Plan	
Prepared By-Date: SLH: 2/10/2024	**Figure: 8A**
Checked By-Date: MPL: 2/10/2024	
Project Number: 7630233209	

N

Groundwater Treatment System

PZ-1-S
PZ-1-D
PZ-13-D
19-SR
PZ-19-I
11-S
11-I
RW-3
RW-4
RW-6
12-I
7-IR
RW-5
RW-7
RW-8
13-I
26-I
7-D
7-S
Combined SWMU's 4/5/8
25-I
20-I
Combined SWMU's 2/7
6-S
6-I
23-I
23-D
15-I
15-S
15-D
Conception Street
Ezra Trice Blvd.
18-IR
18-DR
SWMU 6 East
4-D
4-DK
21-S
21-I
17-D
17-S
SWMU 6 West
RW-1
PZ-30-D
8-S
8-DK
8-I
8-D
31-IR
31-DR
9-I
32-S
32-I
16-I
16-D
PZ-16-S

Legend
- Background
- Monitoring Well Recovery System
- DNAPL Recovery Well
- DNAPL Effectiveness Monitoring Well
- Point Of Compliance Well
- Piezometer
- Fenceline
- Waste Management Area
- Point of Compliance
- Point of Exposure
- AWTC Facility/Environmental Covenant Boundary
- Combined SWMU Areas

0 200 400 800 Feet

Alabama State Port Authority

2024 Permit Renewal Application

AWTC Current Site Plan

Prepared By-Date: SLH: 2/28/2024

Checked By-Date: MPL: 2/28/2024

Project Number: 7630233209

Figure: 8B

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\AWTC_Current_Site_Plan.mxd

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Alabama State Port Authority

2024 Permit Renewal Application

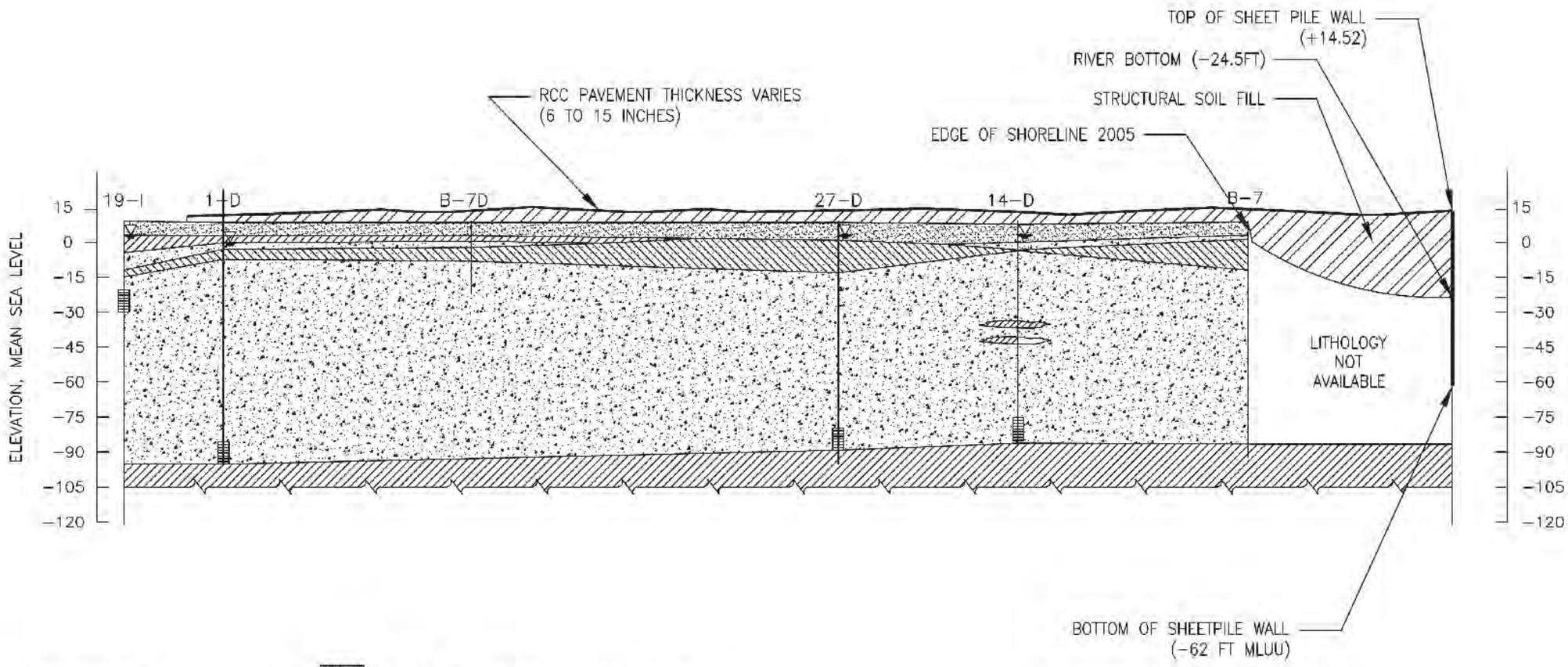
Geologic Cross Section Locations

Prepared By-Date:
SLH: 2/28/2024

Checked By-Date:
MPL: 2/28/2024

Project Number:
7630233209

Figure: 9



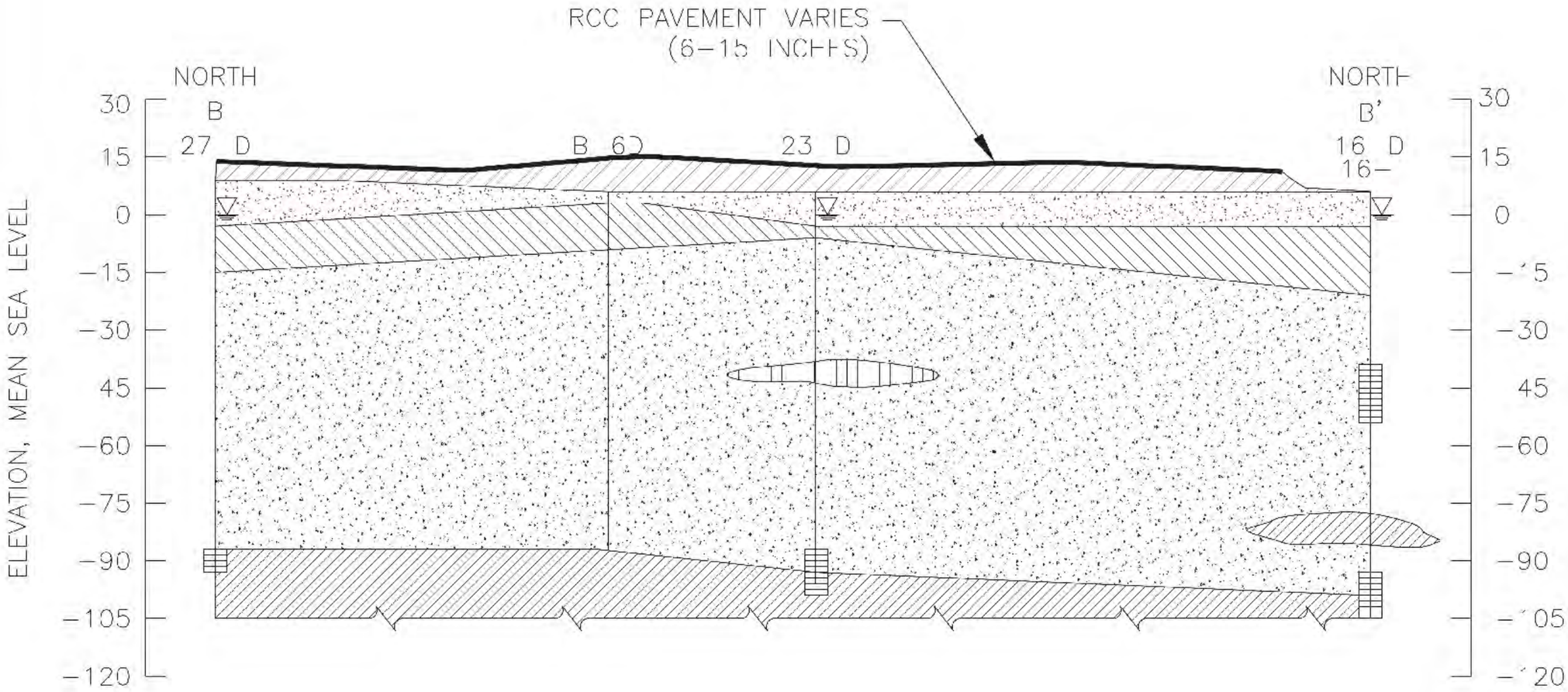
LEGEND:

- FINE / MEDIUM SAND
- CLAYEY FINE SAND
- MEDIUM / COARSE SAND
- SILTY CLAY (MIOCENE)
- CMI AND DEVELOPMENT (SOIL FILL)
- WATER TABLE
- BORING
- WELLSCREEN

0 125 FEET 250 FEET
APPROXIMATE SCALE: 1" = 250'
VERTICAL EXAGGERATION = 5X

Alabama State Port Authority	
2024 Permit Renewal Application	
Geologic Cross Section A-A'	
Prepared By-Date: SLH: 2/28/2024	**Figure: 10**
Checked By-Date: MPL: 2/28/2024	
Project Number: 7630233209	

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\Geologic_Cross_Section_A-A.mxd



LEGEND:

- FINE / MEDIUM SAND
- CLAYEY FINE SAND
- MEDIUM / COARSE SAND
- SILTY CLAY (MIOCENE)
- CMI AND DEVELOPMENT (SOIL FILL)
- SAND & SILT
- WATER TABLE
- BORING
- WELLSCREEN

0 75 150 FEET
APPROXIMATE SCALE: 1" = 150'
VERTICAL EXAGGERATION = 5X

Alabama State Port Authority

2024 Permit Renewal Application

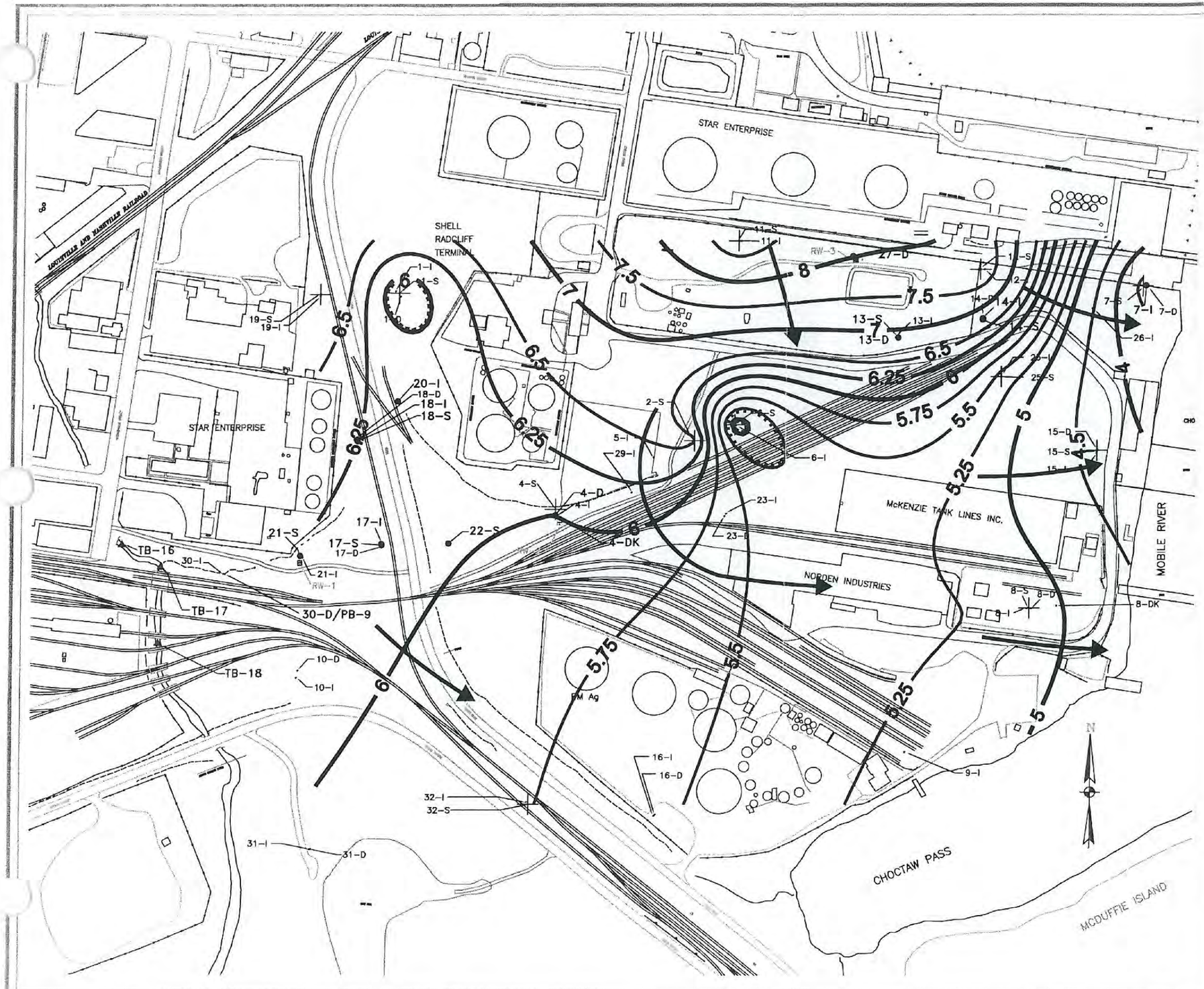
Geologic Cross Section B-B'

Prepared By-Date: SLH: 2/28/2024	
Checked By-Date: MPL: 2/28/2024	
Project Number: 7630233209	

wsp

Figure: 11

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\Geologic_Cross_Section_B-B.mxd



LEGEND

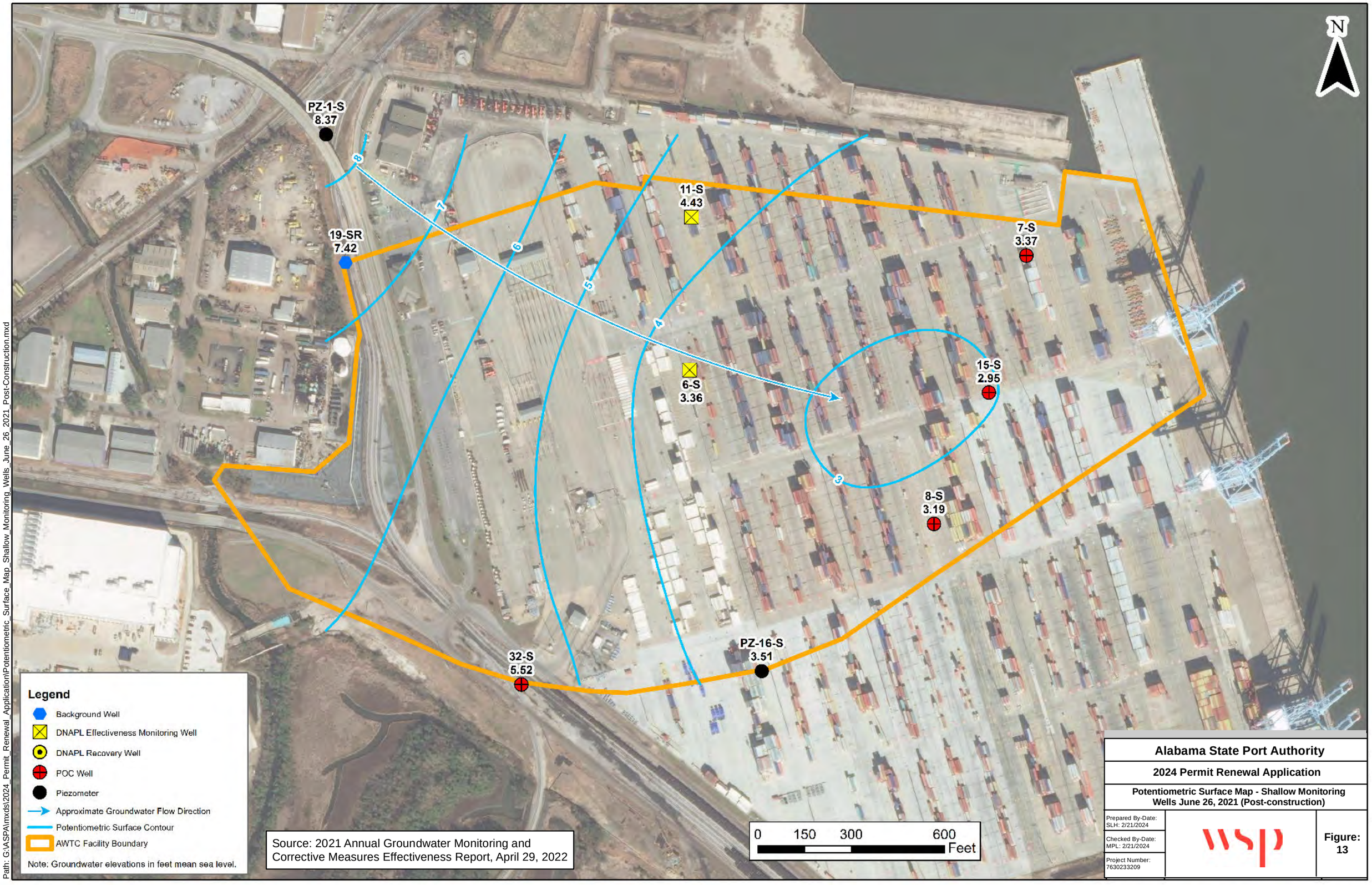
- 19-S — MONITORING WELL LOCATION
- RW-1 — EXISTING DNAPL RECOVERY WELL LOCATION
- 27-D — MONITORING WELL/DEEP
- MONITORING WELL/ WATER ELEVATION MEASURING POINT
- GROUND WATER CONTOUR ELEVATIONS REPORTED IN FT-MSL
- GROUND WATER FLOW DIRECTION

0 130 260 FEET
APPROXIMATE SCALE: 1" = 260'

Source: 2003 Permit Renewal Application, Figure 11C

Alabama State Port Authority	
2024 Permit Renewal Application	
Potentiometric Surface Map - Shallow Monitoring Wells November 26, 2002 (Pre-construction)	
Prepared By-Date: SLH: 2/10/2024	
Checked By-Date: MPL: 2/10/2024	
Project Number: 7630233209	**Figure: 12**

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\Potentiometric_Surface_Map_Shallow_Monitoring_Wells_November_26_2002_Pre-Construction.mxd



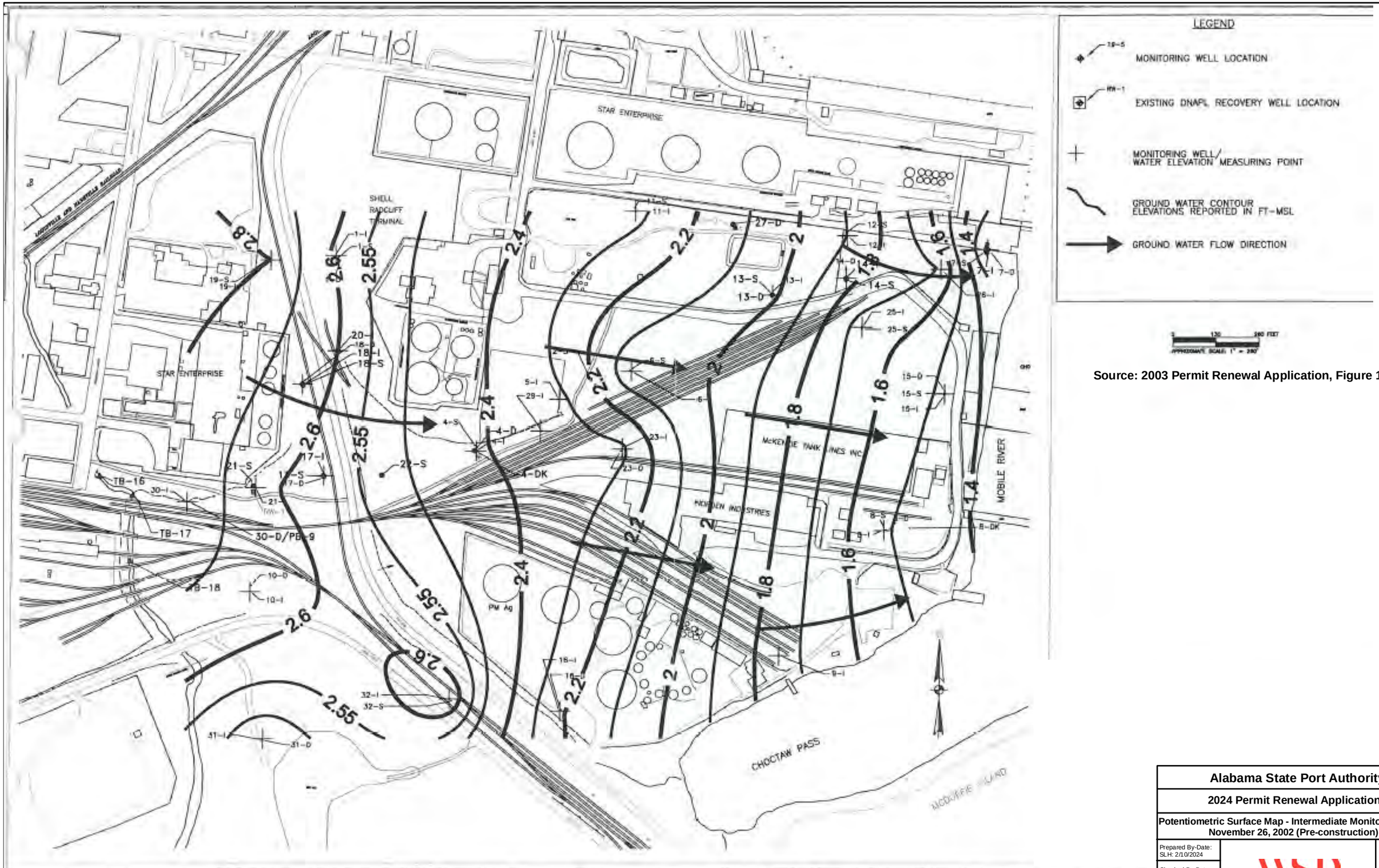
Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\Potentiometric_Surface_Map_Shallow_Monitoring_Wells_June_26_2021_Post-Construction.mxd

Alabama State Port Authority

2024 Permit Renewal Application

Potentiometric Surface Map - Shallow Monitoring Wells June 26, 2021 (Post-construction)

Prepared By-Date: SLH: 2/21/2024	wsp	**Figure: 13**
Checked By-Date: MPL: 2/21/2024		
Project Number: 7630233209		



Source: 2003 Permit Renewal Application, Figure 12C

Alabama State Port Authority	
2024 Permit Renewal Application	
Potentiometric Surface Map - Intermediate Monitoring Wells November 26, 2002 (Pre-construction)	
Prepared By-Date: SLH: 2/10/2024	**Figure: 14**
Checked By-Date: MPL: 2/10/2024	
Project Number: 7630233209	

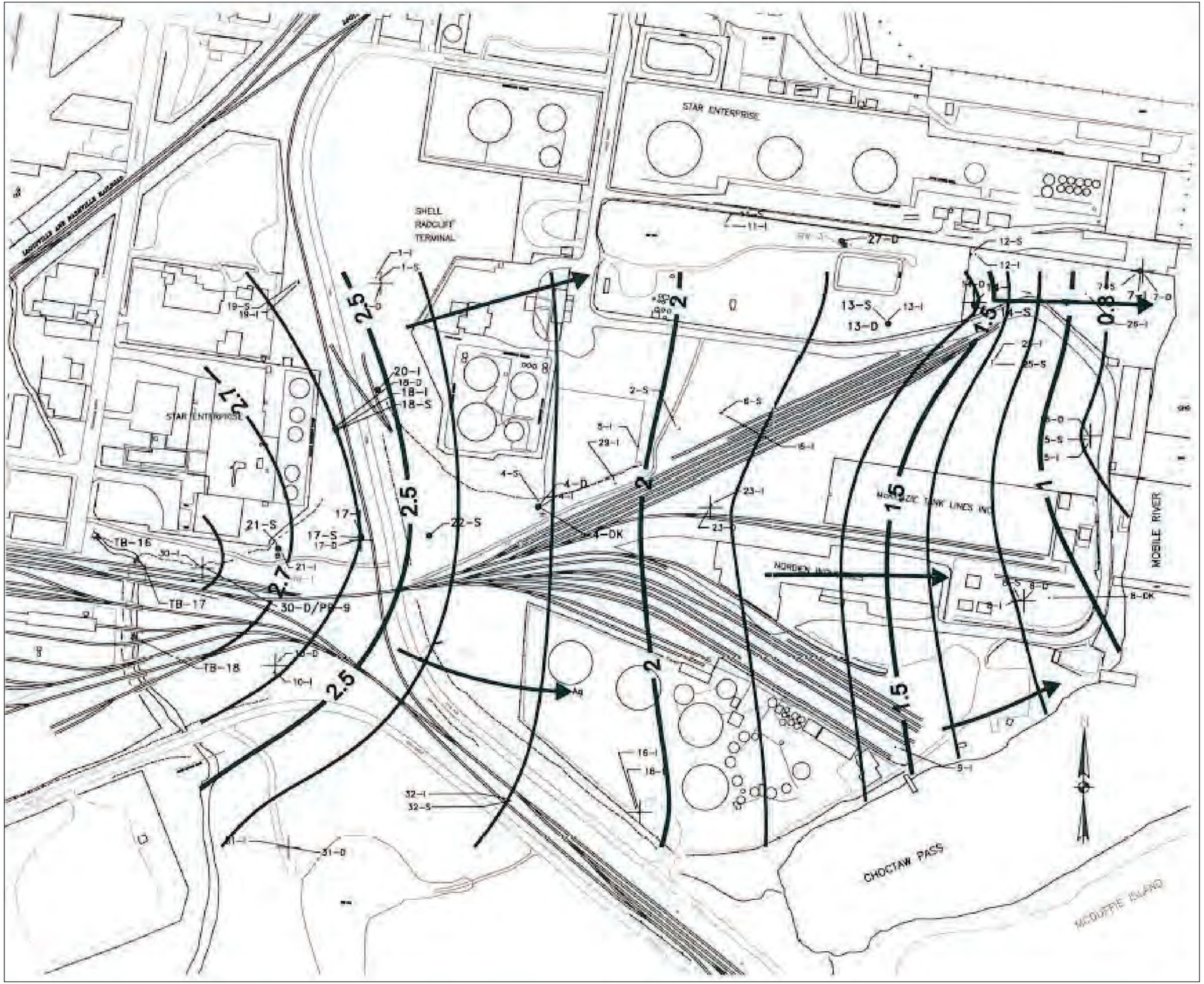
Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\Potentiometric_Surface_Map_Intermediate_Monitoring_Wells_June_26_2021_Post-Construction.mxd

Alabama State Port Authority

2024 Permit Renewal Application

Potentiometric Surface Map - Intermediate Monitoring Wells June 26, 2021 (Post-construction)

Prepared By-Date: SLH: 2/21/2024	wsp	**Figure: 15**
Checked By-Date: MPL: 2/21/2024		
Project Number: 7630233209		



LEGEND

- MONITORING WELL LOCATION
- EXISTING DNAPL RECOVERY WELL LOCATION
- MONITORING WELL/DNAPL RECOVERY LOCATION
- MONITORING WELL/ WATER ELEVATION MEASURING POINT
- GROUND WATER CONTOUR ELEVATIONS REPORTED IN FT-MSL
- GROUND WATER FLOW DIRECTION

Source: 2003 Permit Renewal Application, Figure 13C

Alabama State Port Authority	
2024 Permit Renewal Application	
Potentiometric Surface Map - Deep Monitoring Wells November 26, 2002 (Pre-construction)	
Prepared By-Date: SLH: 3/7/2024	
Checked By-Date: MPL: 3/7/2024	
Project Number: 7630233209	
	Figure: 16

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\Potentiometric_Surface_Map_Deep_Monitoring_Wells_November_26_2002_Pre-construction.mxd

PZ-1D
3.96

PZ-13-D
2.86

7-D
2.54

18-DR
3.73

15-D
2.41

23-D
1.81

17-D
3.10

PZ-30-D
2.17

8-D
2.46

8-DK
2.55

31-DR
3.43

16-D
3.62

N

Legend

- Background Well
- DNAPL Effectiveness Monitoring Well
- DNAPL Recovery Well
- POC Well
- Piezometer
- Approximate Groundwater Flow Direction
- Potentiometric Surface Contour
- AWTC Facility Boundary

NS - Not Sampled
Note: Groundwater elevations in feet mean sea level.

Source: 2021 Annual Groundwater Monitoring and Corrective Measures Effectiveness Report, April 29, 2022

0 150 300 600 Feet

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\Potentiometric_Surface_Map_Deep_Monitoring_Wells_June_26_2021_Post-Construction.mxd

Alabama State Port Authority

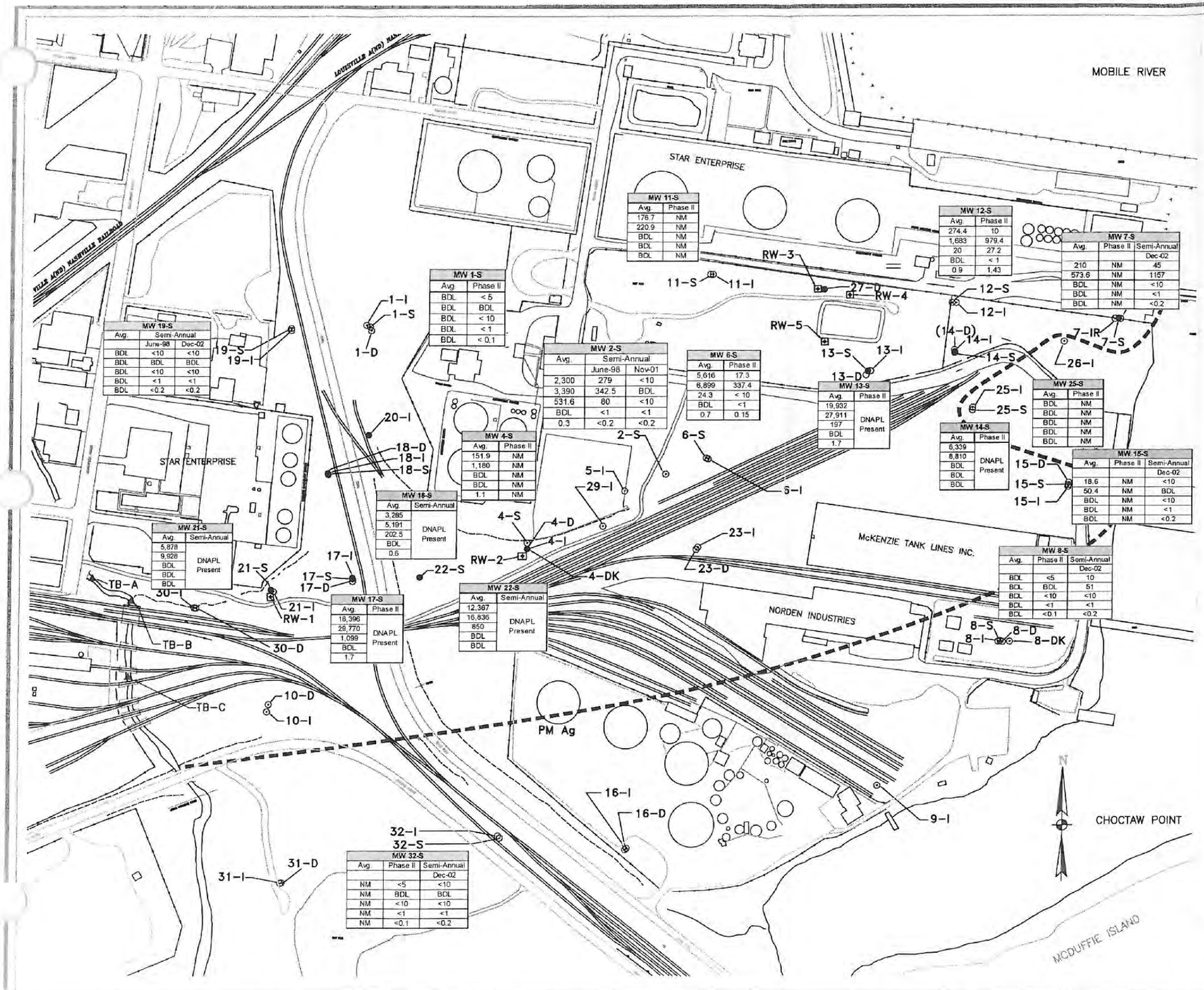
2024 Permit Renewal Application

Potentiometric Surface Map - Deep Monitoring Wells June 26, 2021 (Post-construction)

Prepared By-Date: SLH: 2/21/2024	
Checked By-Date: MPL: 2/21/2024	
Project Number: 7630233209	

wsp

Figure: 17



LEGEND

19–S — MONITORING WELL LOCATIONS

27–D — MONITORING WELL DNAPL RECOVERY LOCATIONS

RW–1 — DNAPL RECOVERY WELL LOCATIONS

MW 7-S		
Avg.	Phase II	Semi-Annual Date
Naphthalene		
Total PAHs		
2,4-Dimethylphenol		
Pentachlorophenol		
Benzo(a)pyrene		

WELL CONTAMINANT LIST CONCENTRATIONS ARE IN µg/l

ESTIMATED LEADING EDGE OF GROUNDWATER CONTAMINANTION PLUME

BDL = BELOW DETECTION LIMIT

NM = NOT MONITORED

0 130 260 FEET
APPROXIMATE SCALE: 1" = 260'

DATA REPORTED FROM:
- PRE–RFI PHASE II DATA (AVERAGE)
- RFI PHASE II
- SEMI–ANNUAL EVENTS (1998 AND MOST RECENT 2001/2002)

Source: 2003 Permit Renewal Application, Figure 14

Alabama State Port Authority

2024 Permit Renewal Application

Historical Shallow Zone Groundwater Contaminant Concentrations for Selected Parameters

Prepared By-Date: SLH: 2/10/2024

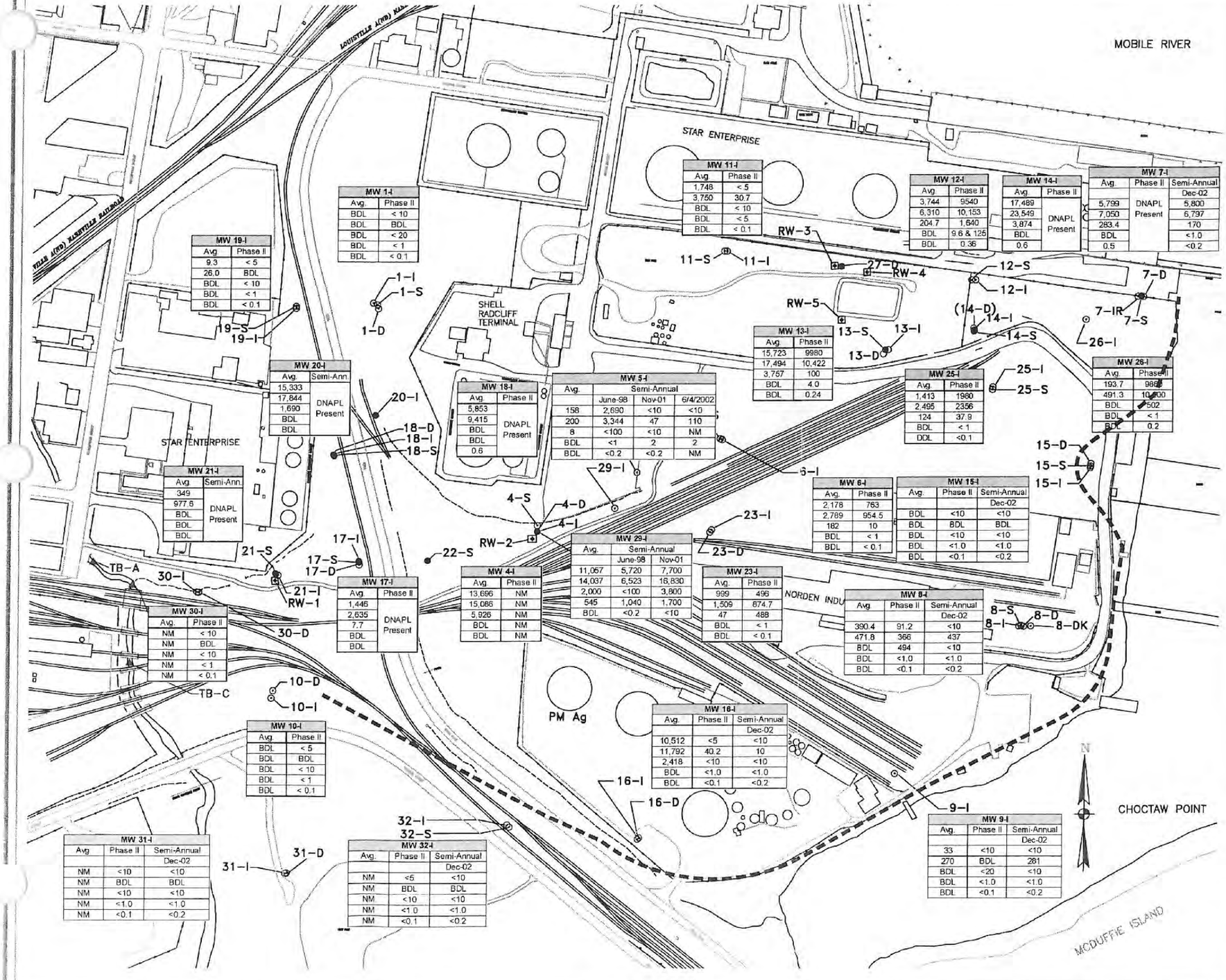
Checked By-Date: MPL: 2/10/2024

Project Number: 7630233209

wsp

Figure: 18

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\Historical_Shallow_Zone_Groundwater_Contaminant_Concentrations_for_Selected_Parameters.mxd



LEGEND

19–S — MONITORING WELL LOCATIONS

27–D — MONITORING WELL DNAPL RECOVERY LOCATIONS

RW–1 — DNAPL RECOVERY WELL LOCATIONS

MW 7-I		
Avg.	Phase II	Semi-Annual
		Date
Naphthalene		
Total PAHs		
2,4-Dimethylphenol		
Pentachlorophenol		
Benzo(a)pyrene		

WELL CONTAMINANT LIST CONCENTRATIONS ARE IN µg/l

ESTIMATED LEADING EDGE OF GROUNDWATER CONTAMINANTION PLUME

BDL = BELOW DETECTION LIMIT

NM = NOT MONITORED

DATA REPORTED FROM:
- PRE–RFI PHASE II DATA (AVERAGE)
- RFI PHASE II
- SEMI–ANNUAL EVENTS (1998 AND MOST RECENT 2001/2002)

Source: 2003 Permit Renewal Application, Figure 15

Alabama State Port Authority

2024 Permit Renewal Application

Historical Intermediate Zone Groundwater Contaminant Concentrations for Selected Parameters

Prepared By-Date: SLH: 2/10/2024

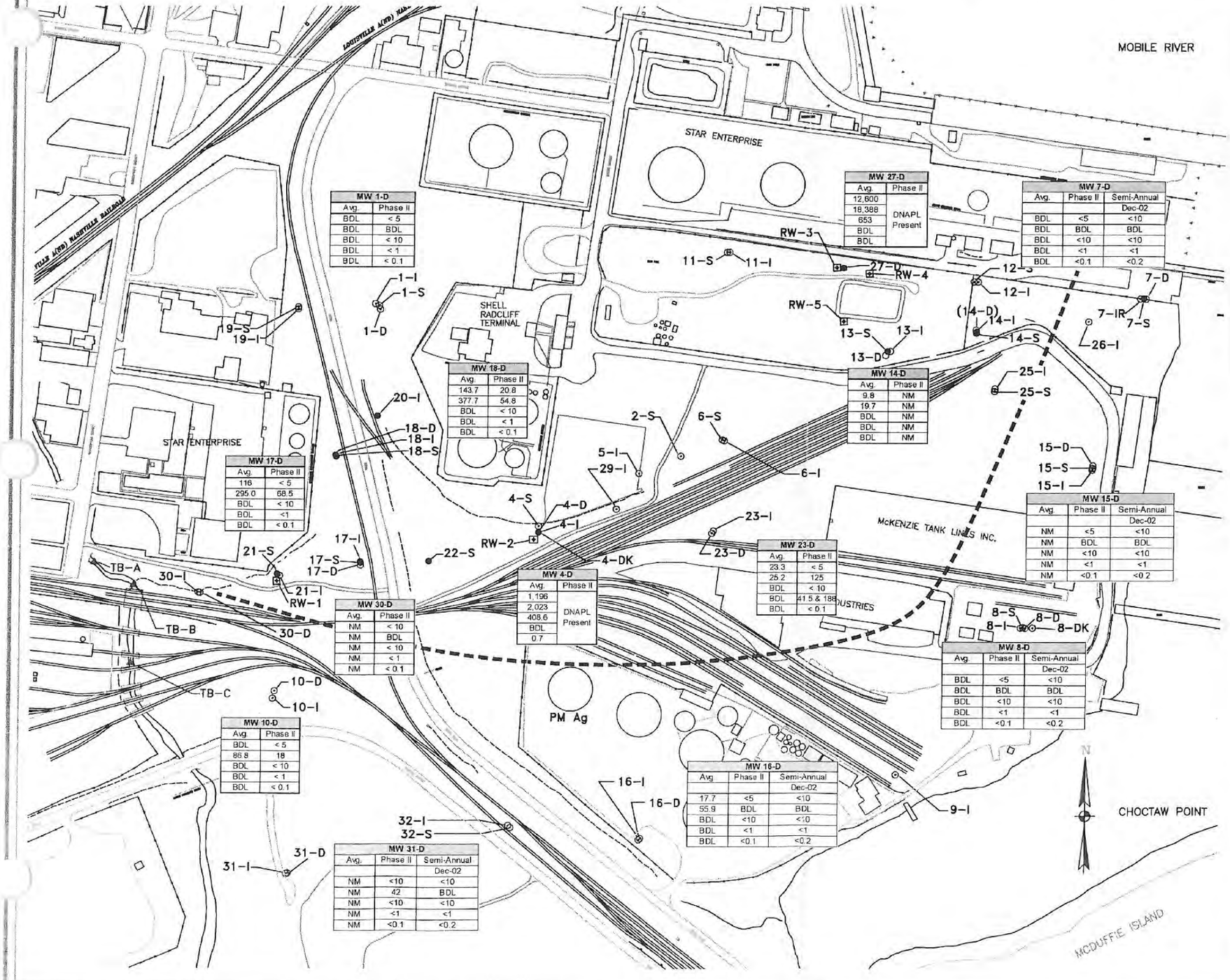
Checked By-Date: MPL: 2/10/2024

Project Number: 7630233209

wsp

Figure: 19

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\Historical_Intermediate_Zone_Groundwater_Contaminant_Concentrations_for_Selected_Parameters.mxd



LEGEND

19-S — MONITORING WELL LOCATIONS

27-D — MONITORING WELL DNAPL RECOVERY LOCATIONS

RW-1 — DNAPL RECOVERY WELL LOCATIONS

MW 7-D		
Avg.	Phase II	Semi-Annual Date
		Dec-02
Naphthalene		
Total PAHs		
2,4-Dimethylphenol		
Pentachlorophenol		
Benzo(a)pyrene		

WELL CONTAMINANT LIST
CONCENTRATIONS ARE IN µg/l

ESTIMATED LEADING EDGE OF GROUNDWATER CONTAMINANTION PLUME

BDL = BELOW DETECTION LIMIT

NM = NOT MONITORED

0 130 260 FEET
APPROXIMATE SCALE: 1" = 260'

DATA REPORTED FROM:
- PRE-RFI PHASE II DATA (AVERAGE)
- RFI PHASE II
- SEMI-ANNUAL EVENTS (1998 AND MOST RECENT 2001/2002)

Source: 2003 Permit Renewal Application, Figure 16

Alabama State Port Authority

2024 Permit Renewal Application

Historical Deep Zone Groundwater Contaminant Concentrations for Selected Parameters

Prepared By-Date: SLH: 2/10/2024

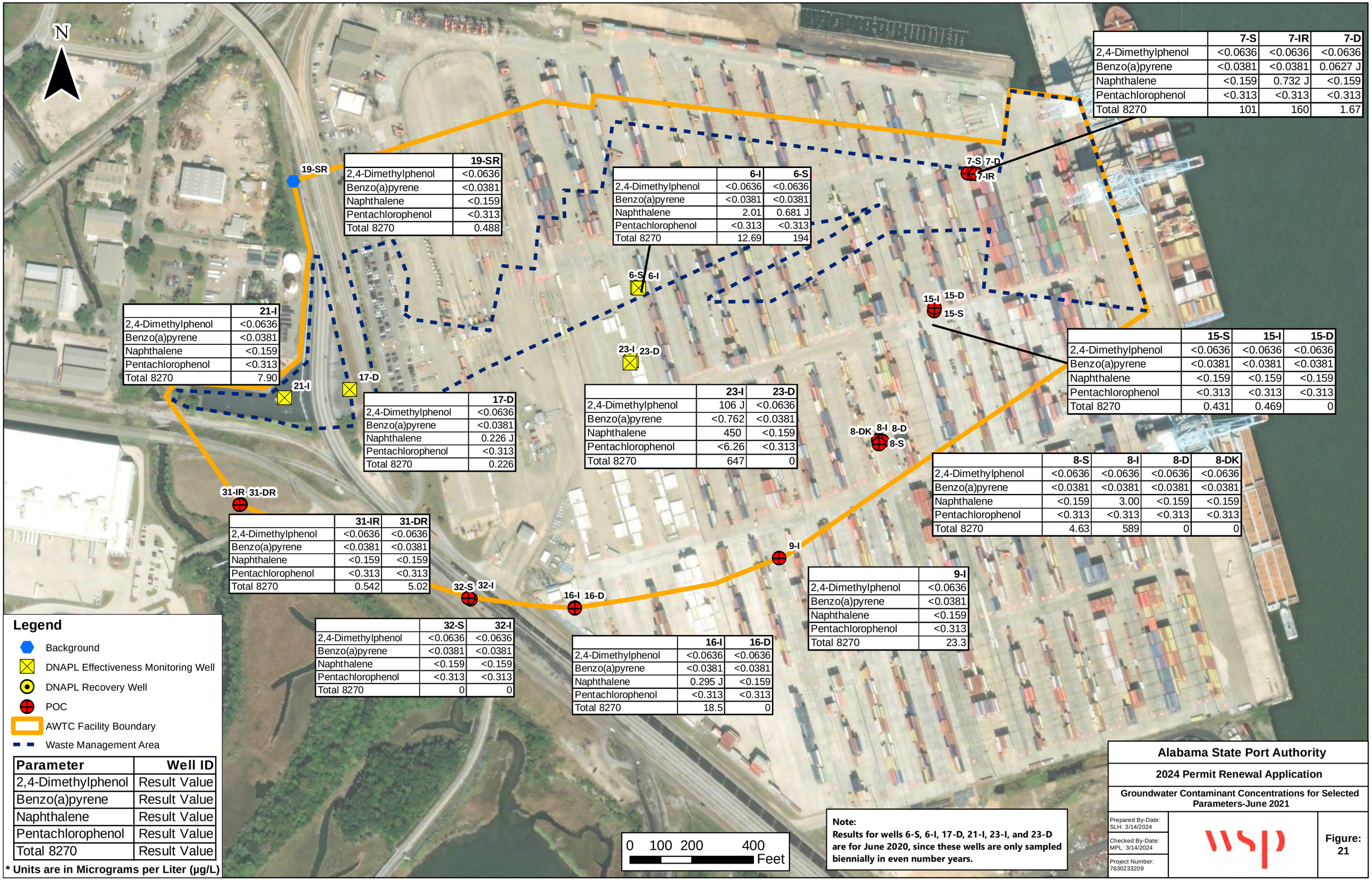
Checked By-Date: MPL: 2/10/2024

Project Number: 7630233209

wsp

Figure: 20

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\Historical_Deep_Zone_Groundwater_Contaminant_Concentrations_for_Selected_Parameters.mxd



	19-SR
2,4-Dimethylphenol	<0.0636
Benzo(a)pyrene	<0.0381
Naphthalene	<0.159
Pentachlorophenol	<0.313
Total 8270	0.488

	21-I
2,4-Dimethylphenol	<0.0636
Benzo(a)pyrene	<0.0381
Naphthalene	<0.159
Pentachlorophenol	<0.313
Total 8270	7.90

	17-D
2,4-Dimethylphenol	<0.0636
Benzo(a)pyrene	<0.0381
Naphthalene	0.226 J
Pentachlorophenol	<0.313
Total 8270	0.226

	6-I	6-S
2,4-Dimethylphenol	<0.0636	<0.0636
Benzo(a)pyrene	<0.0381	<0.0381
Naphthalene	2.01	0.681 J
Pentachlorophenol	<0.313	<0.313
Total 8270	12.69	194

	23-I	23-D
2,4-Dimethylphenol	106 J	<0.0636
Benzo(a)pyrene	<0.762	<0.0381
Naphthalene	450	<0.159
Pentachlorophenol	<6.26	<0.313
Total 8270	647	0

	7-S	7-IR	7-D
2,4-Dimethylphenol	<0.0636	<0.0636	<0.0636
Benzo(a)pyrene	<0.0381	<0.0381	0.0627 J
Naphthalene	<0.159	0.732 J	<0.159
Pentachlorophenol	<0.313	<0.313	<0.313
Total 8270	101	160	1.67

	15-S	15-I	15-D
2,4-Dimethylphenol	<0.0636	<0.0636	<0.0636
Benzo(a)pyrene	<0.0381	<0.0381	<0.0381
Naphthalene	<0.159	<0.159	<0.159
Pentachlorophenol	<0.313	<0.313	<0.313
Total 8270	0.431	0.469	0

	8-S	8-I	8-D	8-DK
2,4-Dimethylphenol	<0.0636	<0.0636	<0.0636	<0.0636
Benzo(a)pyrene	<0.0381	<0.0381	<0.0381	<0.0381
Naphthalene	<0.159	3.00	<0.159	<0.159
Pentachlorophenol	<0.313	<0.313	<0.313	<0.313
Total 8270	4.63	589	0	0

	31-IR	31-DR
2,4-Dimethylphenol	<0.0636	<0.0636
Benzo(a)pyrene	<0.0381	<0.0381
Naphthalene	<0.159	<0.159
Pentachlorophenol	<0.313	<0.313
Total 8270	0.542	5.02

	32-S	32-I
2,4-Dimethylphenol	<0.0636	<0.0636
Benzo(a)pyrene	<0.0381	<0.0381
Naphthalene	<0.159	<0.159
Pentachlorophenol	<0.313	<0.313
Total 8270	0	0

	16-I	16-D
2,4-Dimethylphenol	<0.0636	<0.0636
Benzo(a)pyrene	<0.0381	<0.0381
Naphthalene	0.295 J	<0.159
Pentachlorophenol	<0.313	<0.313
Total 8270	18.5	0

	9-I
2,4-Dimethylphenol	<0.0636
Benzo(a)pyrene	<0.0381
Naphthalene	<0.159
Pentachlorophenol	<0.313
Total 8270	23.3

Legend

- Background
- DNAPL Effectiveness Monitoring Well
- DNAPL Recovery Well
- POC
- AWTC Facility Boundary
- Waste Management Area

Parameter	Well ID
2,4-Dimethylphenol	Result Value
Benzo(a)pyrene	Result Value
Naphthalene	Result Value
Pentachlorophenol	Result Value
Total 8270	Result Value

*** Units are in Micrograms per Liter (µg/L)**

Note:
Results for wells 6-S, 6-I, 17-D, 21-I, 23-I, and 23-D are for June 2020, since these wells are only sampled biennially in even number years.

Alabama State Port Authority

2024 Permit Renewal Application

Groundwater Contaminant Concentrations for Selected Parameters-June 2021

Prepared By-Date: SLH: 3/14/2024

Checked By-Date: MPL: 3/14/2024

Project Number: 7630233209

Figure: 21

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\Groundwater Contaminant Concentrations June 2021.mxd

Legend

- Area of Concern (AOC) or Solid Waste Management Unit (SWMU) (At Contiguous Property)
- Monitoring Well
- Approximate Limits of Contiguous Properties
- AWTC Facility Boundary
- AOC 11 and AOC 12
- AOCs
- SWMUs

AOC-12
AOC-6A
AOC-6
AOC-11
SWMU-11
S11-MW-1
SWMU-9
AOC-4
AOC-5
AOC-3
AOC-2
SWMU-10

0 500 1,000 2,000 Feet

N

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\Contiguous Property Map.mxd

Alabama State Port Authority		
2024 Permit Renewal Application		
Contiguous Properties Map		
Prepared By-Date: SLH: 3/26/2024 Checked By-Date: MPL: 3/26/2024 Project Number: 7630233209	wsp	Figure: 22

Legend

- Area of Concern (AOC) or Solid Waste Management Unit (SWMU) (At Contiguous Property)
- Monitoring Well
- AOC/SWMU Contiguous Property 1000 ft Buffer
- Approximate Limits of Contiguous Properties
- AWTC Facility Boundary
- AOC 11 and AOC 12
- AOCs
- SWMUs
- COMMERCIAL/INDUSTRIAL
- RESIDENTIAL
- TRANSPORTATION
- WATERS OF THE STATE

N

AOC-12

Breakline: Figure 23C
Breakline: Figure 23B

AOC-6A
AOC-6
AOC-11
SWMU-11
S11-MW-1
SWMU-9
AOC-4
AOC-5
AOC-3
AOC-2
SWMU-10

Breakline: Figure 23C
Breakline: Figure 23B

0 500 1,000 2,000 Feet

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\Contiguous_Properties_Surrounding_Land_Use_Full_Extent.mxd

Alabama State Port Authority

2024 Permit Renewal Application

Contiguous Properties Surrounding Land Use

Prepared By-Date: JRM: 3/26/2024	wsp	**Figure: 23A**
Checked By-Date: MPL: 3/26/2024		
Project Number: 7630233209		

Legend

- Area of Concern (AOC) or Solid Waste Management Unit (SWMU) (At Contiguous Property)
- Monitoring Well
- AOC/SWMU Contiguous Property 1000 ft Buffer
- Approximate Limits of Contiguous Properties
- AWTC Facility Boundary
- AOC 11
- AOCs
- SWMUs
- COMMERCIAL/INDUSTRIAL
- RESIDENTIAL
- TRANSPORTATION
- WATERS OF THE STATE

N

Breakline: Figure 23C
Breakline: Figure 23B

AOC-6A
AOC-6
AOC-11
SWMU-11
S11-MW-1
SWMU-9
AOC-5
AOC-4
AOC-3
AOC-2
SWMU-10

0 250 500 1,000 Feet

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\Contiguous_Properties_Surrounding_Land_Use_Southern_Extent.mxd

Alabama State Port Authority	
2024 Permit Renewal Application	
Contiguous Properties Surrounding Land Use Southern Extent	
Prepared By-Date: JRM: 3/26/2024	Figure: 23B
Checked By-Date: MPL: 3/26/2024	
Project Number: 7630233209	

Legend

- Area of Concern (AOC) or Solid Waste Management Unit (SWMU) (At Contiguous Property)
- Monitoring Well
- AOC/SWMU Contiguous Property 1000 ft Buffer
- Approximate Limits of Contiguous Properties
- AWTC Facility Boundary
- AOC 11 and AOC 12
- AOCs
- SWMUs
- COMMERCIAL/INDUSTRIAL
- RESIDENTIAL
- TRANSPORTATION
- WATERS OF THE STATE

N

AOC-12

AOC-6A

AOC-6

AOC-11

SWMU-11

S11-MW-1

SWMU-9

AOC-5

0 250 500 1,000 Feet

Breakline: Figure 23C

Breakline: Figure 23B

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\Contiguous_Properties_Surrounding_Land_Use_Northern_Extent.mxd

Alabama State Port Authority

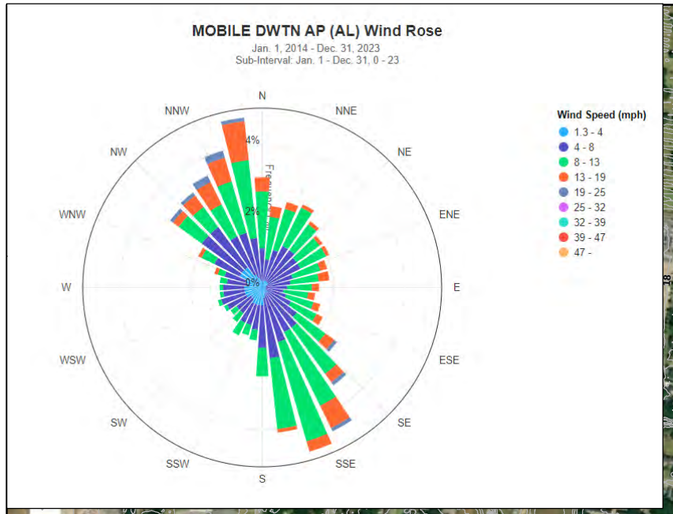
2024 Permit Renewal Application

Contiguous Properties Surrounding Land Use Northern Extent

Prepared By-Date: JRM: 3/26/2024	
Checked By-Date: MPL: 3/26/2024	
Project Number: 7630233209	

wsp

Figure: 23C



Legend

- Gates
- 1ft Elevation Contours (USACE 2020 LIDAR)
- 2ft Elevation Contours (National Elevation Dataset)
- Security Fence
- AOC/SWMU Contiguous Property 1000 ft Buffer
- Approximate Limits of Contiguous Properties
- AWTC Facility Boundary
- AOC 11 and AOC 12
- AOCs
- SWMUs
- Buildings

Note:
Source for topo includes 2012 National Elevation Dataset and USACE 2020 LIDAR.

Alabama State Port Authority

2024 Permit Renewal Application

Contiguous Properties General Area Topo Map

Prepared By-Date: JRM: 3/26/2024	
Checked By-Date: MPL: 3/26/2024	
Project Number: 7630233209	

wsp

Figure: 24A

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\Contiguous_Properties_General_Area_Topo_Map_Full_Extent.mxd

Legend

- Gates
- 1ft Elevation Contours (USACE 2020 LIDAR)
- 2ft Elevation Contours (National Elevation Dataset)
- Security Fence
- AOC/SWMU Contiguous Property 1000 ft Buffer
- Approximate Limits of Contiguous Properties
- AWTC Facility Boundary
- AOC 11
- AOCs
- SWMUs
- Buildings

Breakline: Figure 24C
Breakline: Figure 24B

Breakline: Figure 24C
Breakline: Figure 24B

N

0 250 500 1,000 Feet

Note:
Source for topo includes 2012 National Elevation Dataset and USACE 2020 LIDAR.

Alabama State Port Authority

2024 Permit Renewal Application

Contiguous Properties General Area Topo Map Southern Extent

Prepared By-Date: JRM: 3/26/2024	
Checked By-Date: MPL: 3/26/2024	
Project Number: 7630233209	

wsp

Figure: 24B

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\Contiguous_Properties_General_Area_Topo_Map_Southern_Extent.mxd

Legend

- Gates
- 1ft Elevation Contours (USACE 2020 LIDAR)
- 2ft Elevation Contours (National Elevation Dataset)
- Security Fence
- AOC/SWMU Contiguous Property 1000 ft Buffer
- Approximate Limits of Contiguous Properties
- AWTC Facility Boundary
- AOC 11 and AOC 12
- AOCs
- SWMUs
- Buildings

Note:
Source for topo includes 2012 National Elevation Dataset and USACE 2020 LIDAR.

N

Mobile River Flow

Breakline: Figure 24C

Breakline: Figure 24B

0 250 500 1,000 Feet

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\Contiguous_Properties_General_Area_Topo_Map_Northern_Extent.mxd

Alabama State Port Authority

2024 Permit Renewal Application

Contiguous Properties General Area Topo Map Northern Extent

Prepared By-Date: JRM: 3/26/2024	
Checked By-Date: MPL: 3/26/2024	
Project Number: 7630233209	

wsp

Figure: 24C

Legend

- Area of Concern (AOC) or Solid Waste Management Unit (SWMU) (At Contiguous Property)
- Monitoring Well
- AOC/SWMU Contiguous Property 1000 ft Buffer
- Approximate Limits of Contiguous Properties
- AWTC Facility Boundary
- AOC 11 and AOC
- AOCs
- SWMUs

FEMA Flood Zones

- Zone AE: 1% Chance Annual Flood (Former 100-Year Floodplain)
- Zone AE Floodway: Areas reserved in order to discharge the base flood.
- Zone VE: Coastal areas with a 1% or greater chance of flooding and an additional hazard associated with storm waves.
- Zone X-(shaded): 0.2% Chance Annual Flood Area (Formerly 500-Year Floodplain)

AOC-12
AOC-6A
AOC-6
AOC-11
SWMU-11
S11-MW-1
SWMU-9
AOC-5
AOC-4
AOC-3
AOC-2
SWMU-10

0 500 1,000 2,000 Feet

N

Alabama State Port Authority	
2024 Permit Renewal Application	
Contiguous Properties Map and FEMA Floodplain Map	
Prepared By-Date: JRM: 2/28/2024	**Figure: 25**
Checked By-Date: MPL: 2/28/2024	
Project Number: 7630233209	

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\Contiguous_Properties_and_FEMA_Floodplain_Map.mxd

Legend

- Area of Concern (AOC) or Solid Waste Management Unit (SWMU) (At Contiguous Property)
- Monitoring Well
- Surface Water Flow Direction
- AOC/SWMU Contiguous Property 1000 ft Buffer
- Approximate Limits of Contiguous Properties
- AWTC Facility Boundary
- AOC 11 and AOC 12
- AOCs
- SWMUs
- COMMERCIAL/INDUSTRIAL
- RESIDENTIAL
- TRANSPORTATION
- WATERS OF THE STATE

N

Breakline: Figure 26C
Breakline: Figure 26B

Breakline: Figure 26C
Breakline: Figure 26B

AOC-12
AOC-6A
AOC-6
AOC-11
SWMU-11
S11-MW-1
SWMU-9
AOC-4
AOC-5
AOC-3
AOC-2
SWMU-10

0 500 1,000 2,000 Feet

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\Contiguous_Properties_Water_and_Drainage_Features_Full_Extent.mxd

Alabama State Port Authority

2024 Permit Renewal Application

Contiguous Properties Surface Water and Drainage Features

Prepared By-Date: JRM: 3/26/2024	wsp	**Figure: 26A**
Checked By-Date: MPL: 3/26/2024		
Project Number: 7630233209		

Legend

- Area of Concern (AOC) or Solid Waste Management Unit (SWMU) (At Contiguous Property)
- Monitoring Well
- Surface Water Flow Direction
- AOC/SWMU Contiguous Property 1000 ft Buffer
- Approximate Limits of Contiguous Properties
- AWTC Facility Boundary
- AOC 11
- AOCs
- SWMUs
- COMMERCIAL/INDUSTRIAL
- RESIDENTIAL
- TRANSPORTATION
- WATERS OF THE STATE

N

Breakline: Figure 26C

Breakline: Figure 26B

AOC-6A

AOC-6

AOC-11

SWMU-11

S11-MW-1

SWMU-9

AOC-5

AOC-4

AOC-3

AOC-2

SWMU-10

0 250 500 1,000 Feet

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\Contiguous_Properties_Water_and_Drainage_Features - Southern Extent.mxd

Alabama State Port Authority

2024 Permit Renewal Application

Contiguous Properties Surface Water and Drainage Features - Southern Extent

Prepared By-Date: JRM: 3/26/2024	wsp	Figure: 26B
Checked By-Date: MPL: 3/26/2024		
Project Number: 7630233209		

Legend

- Area of Concern (AOC) or Solid Waste Management Unit (SWMU) (At Contiguous Property)
- Monitoring Well
- Surface Water Flow Direction
- AOC/SWMU Contiguous Property 1000 ft Buffer
- Approximate Limits of Contiguous Properties
- AWTC Facility Boundary
- COMMERCIAL/INDUSTRIAL
- RESIDENTIAL
- TRANSPORTATION
- WATERS OF THE STATE
- AOC 11 and AOC 12
- AOCs
- SWMUs

N

AOC-12

AOC-6A

AOC-6

AOC-11

SWMU-11

S11-MW-1

SWMU-9

0 250 500 1,000 Feet

Breakline: Figure 26C

Breakline: Figure 26B

Path: G:\ASPA\mxds\2024_Permit_Renewal_Application\Contiguous_Properties_Water_and_Drainage_Features - Northern Extent.mxd

Alabama State Port Authority

2024 Permit Renewal Application

Contiguous Properties Surface Water and Drainage Features - Northern Extent

Prepared By-Date: JRM: 3/26/2024	
Checked By-Date: MPL: 3/26/2024	
Project Number: 7630233209	

wsp

Figure: 26C

ALABAMA STATE PORT AUTHORITY
Office of Environmental Management

ALABAMA WOOD TREATING CORPORATION SITE
MOBILE, ALABAMA
FACILITY ID # ALD 058 221 326

AHWMMA PART B POST-CLOSURE
PERMIT RENEWAL APPLICATION

VOLUME II of II
(Appendices)

Prepared by:

WSP USA Environment & Infrastructure Inc.
4000 Meadow Lake Drive, Suite 121
Birmingham, Alabama 35242

Prepared for:

Alabama State Port Authority
250 N. Water Street
Mobile, Alabama 36602

March 2024
Revised August 2024
Revised September 2024

WSP Project 7630233209

Appendix A

Part A Application

United States Environmental Protection Agency
RCRA SUBTITLE C SITE IDENTIFICATION FORM

1. Reason for Submittal (Select only one.)

☐	Obtaining or updating an EPA ID number for on-going regulated activities (Items 10-17 below) that will continue for a period of time.
☐	Submitting as a component of the Hazardous Waste Report for _____ (Reporting Year)
	☐ Site was a TSD facility, a reverse distributor, and/or generator of ≥ 1,000 kg of non-acute hazardous waste, > 1 kg of acute hazardous waste, or > 100 kg of acute hazardous waste spill cleanup in **one or more months of the reporting year** (or State equivalent LQG regulations)
☐	Notifying that regulated activity is no longer occurring at this Site
☐	Obtaining or updating an EPA ID number for conducting Electronic Manifest Broker activities
☑	Submitting a new or revised Part A (permit) Form

2. Site EPA ID Number

A	L	D	0	5	8	2	2	1	3	2	6

3. Site Name

Alabama Wood Treating Corporation

4. Site Location Address

Street Address **68 Virginia Street**		
City, Town, or Village **Mobile**		County **Mobile**
State **AL**	Country **USA**	Zip Code **36633**
Latitude **30° 40' 08" N**	Longitude **88° 02' 20" W**	☐ Use Lat/Long as Primary Address

5. Site Mailing Address ☐ Same as Location Street Address

Street Address **P.O. Box 1588**		
City, Town, or Village **Mobile**		
State **AL**	Country **USA**	Zip Code **36633-1588**

6. Site Land Type

☐ Private ☐ County ☐ District ☐ Federal ☐ Tribal ☐ Municipal ☑ State ☐ Other

7. North American Industry Classification System (NAICS) Code(s) for the Site (at least 5-digit codes)

A. (Primary) **483111**	C.
B.	D.

8. Site Contact Information

☐ Same as Location Address

First Name	MI	Last Name
Gretchen		**Barrera**
Title: **Environmental Director**		
Street Address: **250 N. Water Street**		
City, Town, or Village: **Mobile**		
State: **AL**	Country: **USA**	Zip Code: **36602**
Email: **gretchen.barrera@alports.com**		
Phone: **251-441-7086**	Ext	Fax

9. Legal Owner and Operator of the Site

A. Name of Site's Legal Owner

☐ Same as Location Address

Full Name	Date Became Owner (mm/dd/yyyy)
Alabama State Port Authority	**3/30/1927**

Owner Type: ☐ Private ☐ County ☐ District ☐ Federal ☐ Tribal ☐ Municipal ☑ State ☐ Other

Street Address: **250 N. Water Street**		
City, Town, or Village: **Mobile**		
State: **AL**	Country: **USA**	Zip Code: **36602**
Email: **info@alports.com**		
Phone: **251-441-7086**	Ext	Fax
Comments		

B. Name of Site's Legal Operator

☐ Same as Location Address

Full Name	Date Became Operator (mm/dd/yyyy)
None: Site Closed	**NA**

Operator Type: ☐ Private ☐ County ☐ District ☐ Federal ☐ Tribal ☐ Municipal ☐ State ☑ Other

Street Address: **NA**		
City, Town, or Village: **NA**		
State: **NA**	Country: **NA**	Zip Code: **NA**
Email: **NA**		
Phone: **NA**	Ext	Fax
Comments: **This site is closed.**		

10. Type of Regulated Waste Activity (at your site)

Mark "Yes" or "No" for all current activities (as of the date submitting the form); complete any additional boxes as instructed.

A. Hazardous Waste Activities

☑ Y ☐ N	1. Generator of Hazardous Waste—If "Yes", mark only one of the following—a, b, c	
☑	a. LQG	-Generates, in any calendar month, 1,000 kg/mo (2,200 lb/mo) or more of non-acute hazardous waste (includes quantities imported by importer site); or - Generates, in any calendar month, or accumulates at any time, more than 1 kg/mo (2.2 lb/mo) of acute hazardous waste; or - Generates, in any calendar month or accumulates at any time, more than 100 kg/mo (220 lb/mo) of acute hazardous spill cleanup material.
☐	b. SQG	100 to 1,000 kg/mo (220-2,200 lb/mo) of non-acute hazardous waste and no more than 1 kg (2.2 lb) of acute hazardous waste and no more than 100 kg (220 lb) of any acute hazardous spill cleanup material.
☐	c. VSQG	Less than or equal to 100 kg/mo (220 lb/mo) of non-acute hazardous waste.
☐ Y ☑ N	2. Short-Term Generator (generates from a short-term or one-time event and not from on-going processes). If "Yes", provide an explanation in the Comments section. *Note: If "Yes", you MUST indicate that you are a Generator of Hazardous Waste in Item 10.A.1 above.*	
☑ Y ☐ N	3. Treater, Storer or Disposer of Hazardous Waste—Note: Part B of a hazardous waste permit is required for these activities.	
☐ Y ☑ N	4. Receives Hazardous Waste from Off-site	
☐ Y ☑ N	5 Recycler of Hazardous Waste	
☐	a. Recycler who stores prior to recycling	
☐	b. Recycler who does not store prior to recycling	
☐ Y ☑ N	6. Exempt Boiler and/or Industrial Furnace—If "Yes", mark all that apply.	
☐	a. Small Quantity On-site Burner Exemption	
☐	b. Smelting, Melting, and Refining Furnace Exemption	

B. Waste Codes for Federally Regulated Hazardous Wastes. Please list the waste codes of the Federal hazardous wastes handled at your site. List them in the order they are presented in the regulations (e.g. D001, D003, F007, U112). Use an additional page if more spaces are needed.

U051						

C. Waste Codes for State Regulated (non-Federal) Hazardous Wastes. Please list the waste codes of the State hazardous wastes handled at your site. List them in the order they are presented in the regulations. Use an additional page if more spaces are needed.

NA						

11. Additional Regulated Waste Activities (NOTE: Refer to your State regulations to determine if a separate permit is required.)

A. Other Waste Activities

☐ Y ☑ N	1. Transporter of Hazardous Waste—If "Yes", mark all that apply.
☐	a. Transporter
☐	b. Transfer Facility (at your site)
☐ Y ☑ N	2. Underground Injection Control
☐ Y ☑ N	3. United States Importer of Hazardous Waste
☐ Y ☑ N	4. Recognized Trader—If "Yes", mark all that apply.
☐	a. Importer
☐	b. Exporter
☐ Y ☑ N	5. Importer/Exporter of Spent Lead-Acid Batteries (SLABs) under 40 CFR 266 Subpart G—If "Yes", mark all that apply.
☐	a. Importer
☐	b. Exporter

B. Universal Waste Activities

☐ Y ☑ N	1. Large Quantity Handler of Universal Waste (you accumulate 5,000 kg or more) - If "Yes" mark all that apply. Note: Refer to your State regulations to determine what is regulated.
☐	a. Batteries
☐	b. Pesticides
☐	c. Mercury containing equipment
☐	d. Lamps
☐	e. Aerosol Cans
☐	f. Other (specify) _____
☐	g. Other (specify) _____
☐ Y ☑ N	2. Destination Facility for Universal Waste Note: A hazardous waste permit may be required for this activity.

C. Used Oil Activities

☐ Y ☑ N	1. Used Oil Transporter—If "Yes", mark all that apply.
☐	a. Transporter
☐	b. Transfer Facility (at your site)
☐ Y ☑ N	2. Used Oil Processor and/or Re-refiner—If "Yes", mark all that apply.
☐	a. Processor
☐	b. Re-refiner
☐ Y ☑ N	3. Off-Specification Used Oil Burner
☐ Y ☑ N	4. Used Oil Fuel Marketer—If "Yes", mark all that apply.
☐	a. Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil Burner
☐	b. Marketer Who First Claims the Used Oil Meets the Specifications

D. Pharmaceutical Activities

☐ Y ☑ N	1. Operating under 40 CFR Part 266, Subpart P for the management of hazardous waste pharmaceuticals—if "Yes", mark only one. Note: See the item-by-item instructions for definitions of healthcare facility and reverse distributor.
☐	a. Healthcare Facility
☐	b. Reverse Distributor
☐ Y ☑ N	2. Withdrawing from operating under 40 CFR Part 266, Subpart P for the management of hazardous waste pharmaceuticals. Note: You may only withdraw if you are a healthcare facility that is a VSQG for all of your hazardous waste, including hazardous waste pharmaceuticals.

12. Eligible Academic Entities with Laboratories—Notification for opting into or withdrawing from managing laboratory hazardous wastes pursuant to 40 CFR Part 262, Subpart K.

☐ Y ☑ N	A. Opting into or currently operating under 40 CFR Part 262, Subpart K for the management of hazardous wastes in laboratories— If "Yes", mark all that apply. Note: See the item-by-item instructions for definitions of types of eligible academic entities.
☐	1. College or University
☐	2. Teaching Hospital that is owned by or has a formal written affiliation with a college or university
☐	3. Non-profit Institute that is owned by or has a formal written affiliation with a college or university
☐ Y ☑ N	B. Withdrawing from 40 CFR Part 262, Subpart K for the management of hazardous wastes in laboratories.

13. Episodic Generation

☐ Y ☑ N	Are you an SQG or VSQG generating hazardous waste from a planned or unplanned episodic event, lasting no more than 60 days, that moves you to a higher generator category. If "Yes", you must fill out the Addendum for Episodic Generator.

14. LQG Consolidation of VSQG Hazardous Waste

☐ Y ☑ N	Are you an LQG notifying of consolidating VSQG Hazardous Waste Under the Control of the Same Person pursuant to 40 CFR 262.17(f)? If "Yes", you must fill out the Addendum for LQG Consolidation of VSQG hazardous waste.

15. Notification of LQG Site Closure for a Central Accumulation Area (CAA) (optional) OR Entire Facility (required)

☐ Y ☑ N	LQG Site Closure of a Central Accumulation Area (CAA) or Entire Facility.
	A. ☐ Central Accumulation Area (CAA) or ☐ Entire Facility
	B. Expected closure date: _____ mm/dd/yyyy
	C. Requesting new closure date: _____ mm/dd/yyyy
	D. Date closed : _____ mm/dd/yyyy ☐ 1. In compliance with the closure performance standards 40 CFR 262.17(a)(8) ☐ 2. Not in compliance with the closure performance standards 40 CFR 262.17(a)(8)

EPA ID Number | A | L | D | 0 | 5 | 8 | 2 | 2 | 1 | 3 | 2 | 6 | **OMB# 2050-0024; Expires 04/30/2024**

16. Notification of Hazardous Secondary Material (HSM) Activity

☐ Y ☑ N	Are you notifying under 40 CFR 260.42 that you will begin managing, are managing, or will stop managing hazardous secondary material under 40 CFR 260.30, 40 CFR 261.4(a)(23), (24), (25), or (27)? If "Yes", you must fill out the Addendum to the Site Identification Form for Managing Hazardous Secondary Material.

17. Electronic Manifest Broker

☐ Y ☑ N	Are you notifying as a person, as defined in 40 CFR 260.10, electing to use the EPA electronic manifest system to obtain, complete, and transmit an electronic manifest under a contractual relationship with a hazardous waste generator?

18. Comments (include item number for each comment)

1. In reference to Section 1, this Part A application is a revised application for an existing facility.
2. Per ADEM Admin. Code r. 335-14-8-.02(4)n regarding a description of debris category(ies) and containment category(ies) to be treated, stored, or disposed of at the facility: Two surface impoundments, SWMU-2 and SWMU-7, were closed in place at the facility. The facility has been redeveloped as the Mobile Container Terminal with no current hazardous waste treatment, storage, or disposal activities.

19. Certification I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations. **Note: For the RCRA Hazardous Waste Part A permit Application, all owners and operators must sign (see 40 CFR 270.10(b) and 270.11)**.

Signature of legal owner, operator or authorized representative Signature FF07744312D24EA...	Date (mm/dd/yyyy) Sep 4, 2024 | 2:04 PM EDT
Printed Name (First, Middle Initial Last) **John C. Driscoll**	Title **Director and Chief Executive Officer**
Email **john.driscoll@alports.com**	

Signature of legal owner, operator or authorized representative	Date (mm/dd/yyyy)
Printed Name (First, Middle Initial Last)	Title
Email	

United States Environmental Protection Agency

HAZARDOUS WASTE PERMIT PART A FORM

1. Facility Permit Contact

First Name	**Gretchen**	MI		Last Name	**Barrera**
Title	**Environmental Director**				
Email	**gretchen.barrera@alports.com**				
Phone	**251-441-7086**	Ext		Fax	

2. Facility Permit Contact Mailing Address

Street Address	**250 N. Water Street**		
City, Town, or Village	**Mobile**		
State **AL**	Country **USA**	Zip Code **36602**	

3. Facility Existence Date (mm/dd/yyyy)

1906-1985

4. Other Environmental Permits

A. Permit Type	B. Permit Number	C. Description
R	**ALD058221326**	**HSWA Permit**
E	**ALD058221326**	**AHWMMA Post-Closure Permit**

5. Nature of Business

Former Wood Preservation

6. Process Codes and Design Capacities

Line Number		A. Process Code			B. Process Design Capacity (1) Amount	B. Process Design Capacity (2) Unit of Measure	C. Process Total Number of Units	D. Unit Name
X	1	S	0	2	533.788	G	001	
X	1	S	0	4	*540.000	G	001	
X	2	T	0	4	100.00	U	001	

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

Line No.		A. EPA Hazardous Waste No.				B. Estimated Annual Qty of Waste	C. Unit of Measure	D. Processes (1) Process Codes								D. Processes (2) Process Description (if code is not entered in 7.D1))
X	1	K	0	0	1	0	P									Surface Impoundment
																Was Closed in 1990.
																No Waste is Currently
																Processed in This Unit

8. Map

Attach to this application a topographical map, or other equivalent map, of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all spring, rivers, and other surface water bodies in this map area. See instructions for precise requirements.

9. Facility Drawing

All existing facilities must include a scale drawing of the facility. See instructions for more detail.

10. Photographs

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment, and disposal areas; and sites of future storage, treatment, or disposal areas. See instructions for more detail.

11. Comments

Item 6 - Line 2 (above): * - Surface Impoundment Closed - Current Capacity is Zero G.
Item 8 - Figure 1, Figure 2B, Figure 2C, Figure 5, figure 7 and Figure 8B are provided. Figure 2C shows the location of the closed surface impoundment units.
Item 9 - Figure 5 is provided.
Item 10 - Figure 2A is a photograph of former site features and Figure 5 shows existing site features.

Appendix B

Drilling Logs and Well Construction Diagrams

ABANDONED

Environmental Resources Management

Drilling Log

Project Alabama State Docks Owner Alabama State Docks

Location _____ W.O. Number _____

Well Number 1S Total Depth 18' Diameter 6 1/4"

Surface Elevation _____ Water Level: Initial 3.5' 24-hrs. 3.5'

Screen: Dia. 2" Length 10' Slot Size 0.01"

Casing: Dia. 2" Length _____ Type _____

Drilling Company FLT Drilling Method ~~mud rotary~~

Driller Greg Marchese Log By John Russell Date Drilled 1/24/96

Sketch Map

Notes

Depth (Feet)	Graphic Log	Well Construction	Sample Number	Description/Soil Classification (Color, Texture, Structures)
				SS - Split Spoon
0			SS1	Light/dark brown, clayey, humus-rich, fine-grained sand with black streaks and strong creosote odor
			SS2	as above
				Wet conditions: light/dark gray, fine-/medium-grained sand
5				
			SS3	Black/dark gray, clayey, humus-rich and medium-grained sand
10				Light gray, medium-/coarse-grained sand
			SS4	as above
				Dark gray/black, clayey, medium-grained sand
15				Light gray, medium-grained sand with 3" sections of clayey sand
				Boring completed at 18', whereupon a 2-inch monitoring well was emplaced
20				

ABANDONED

PROJECT: Alabama State Docks

WELL NO.: 1-S

DRILLING COMPANY: Environmental Laboratories Inc. (ELI)

T.O.C. ELEVATION: 10.96

DRILLING METHOD: Mud Rotary

WATER LEVEL:

DRILLER: Greg Marchese

DATE INSTALLED: 1/24/86

LOGGED BY: John Russell

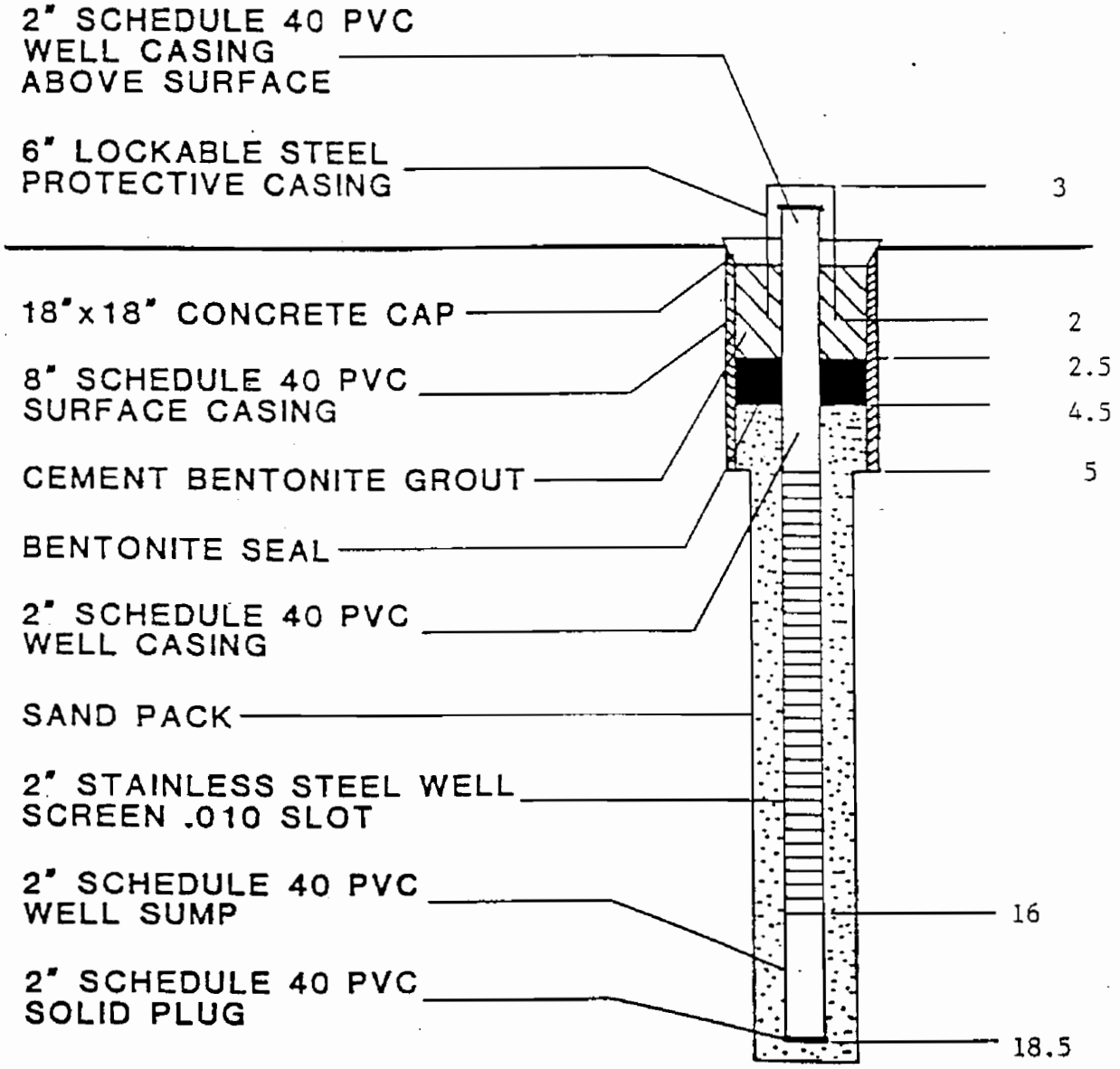


FIGURE : SHALLOW GROUND-WATER MONITORING WELL CONSTRUCTION DETAILS

ALABAMA STATE DOCKS
MOBILE, ALABAMA

ERM-Southeast, Inc.
Brentwood, Tennessee

ABANDONED

Environmental Resources Management **Drilling Log**

Project Alabama State Docks Owner Alabama State Docks

Location _____ W.O. Number _____

Well Number 101 Total Depth 43' Diameter 6 1/4"

Surface Elevation _____ Water Level: Initial 3.5' 24-hrs 3.5'

Screen: Dia. 2" Length 10' Slot Size 0.01"

Casing: Dia. 2" Length _____ Type _____

Drilling Company ELI Drilling Method mud rotary

Driller Greg Marchese Log By John Russell Date Drilled 1/23/86

Sketch Map

Notes

Depth (Feet)	Graphic Log	Well Construction	Sample Number	Description/Soil Classification (Color, Texture, Structures) SS - Split Spoon ST - Shelby tube
0			SS1	Upper 6 inches consists of medium- to dark brown, silty, clayey, fine-grained sand with roots and slight creosote(?) odor
			SS2	Black, silty, fine-grained sand with wood fragments; strong creosote(?) odor
				Wet conditios: Light gray, fine-grained sand with slight odor
5			SS3	As above with some shells
			SS4	As above but medium-grained sand
				Black tarry, fine-grained sand with creosote(?) odor
10				
			SS5	Light gray, fine-grained sand
				Dark gray/black streaked, clayey silt
15				Light gray, fine-grained sand to clayey silt
				As above but more fine- to medium-grained sand
20			ST1	1.5' sample ... appears to be comprised of above lithology
			SS6	as above
25			SS7	as above

ABANDONED

Environmental Resources Management

Drilling Log

Project Alabama State Docks Owner Alabama State Docks

Location _____ W.O. Number _____

Well Number 101 Total Depth 43' Diameter 6 1/4"

Surface Elevation _____ Water Level: Initial 3.5' 24-hrs 3.5'

Screen: Dia 2" Length 10' Slot Size 0.01"

Casing: Dia 2" Length _____ Type _____

Drilling Company ELI Drilling Method mud rotary

Driller Greg Marchese Log By John Russell Date Drilled 1/23/86

Sketch Map

Notes

Depth (Feet)	Graphic Log	Well Construction	Sample Number	Description/Soil Classification (Color, Texture, Structures) SS - Split Spoon ST - Shelby tube
				Light gray, medium-grained sand
			SS8	as above
30			SS9	Light brown, medium-grained sand
			SS10	Light gray, medium-grained sand
35			SS11	as above
			SS12	Light brown, medium-grained sand
40				
				Boring completed at 43', whereupon a 2" monitoring well was emplaced

ABANDONED

PROJECT: Alabama State Docks

WELL NO.: 1-I

DRILLING COMPANY: Environmental Laboratories, Inc. (ELI)

T.O.C. ELEVATION: 10.6

DRILLING METHOD: Mud Rotary

WATER LEVEL:

DRILLER: Fewf Marchese

DATE INSTALLED: 1/2/86

LOGGED BY: John Russell

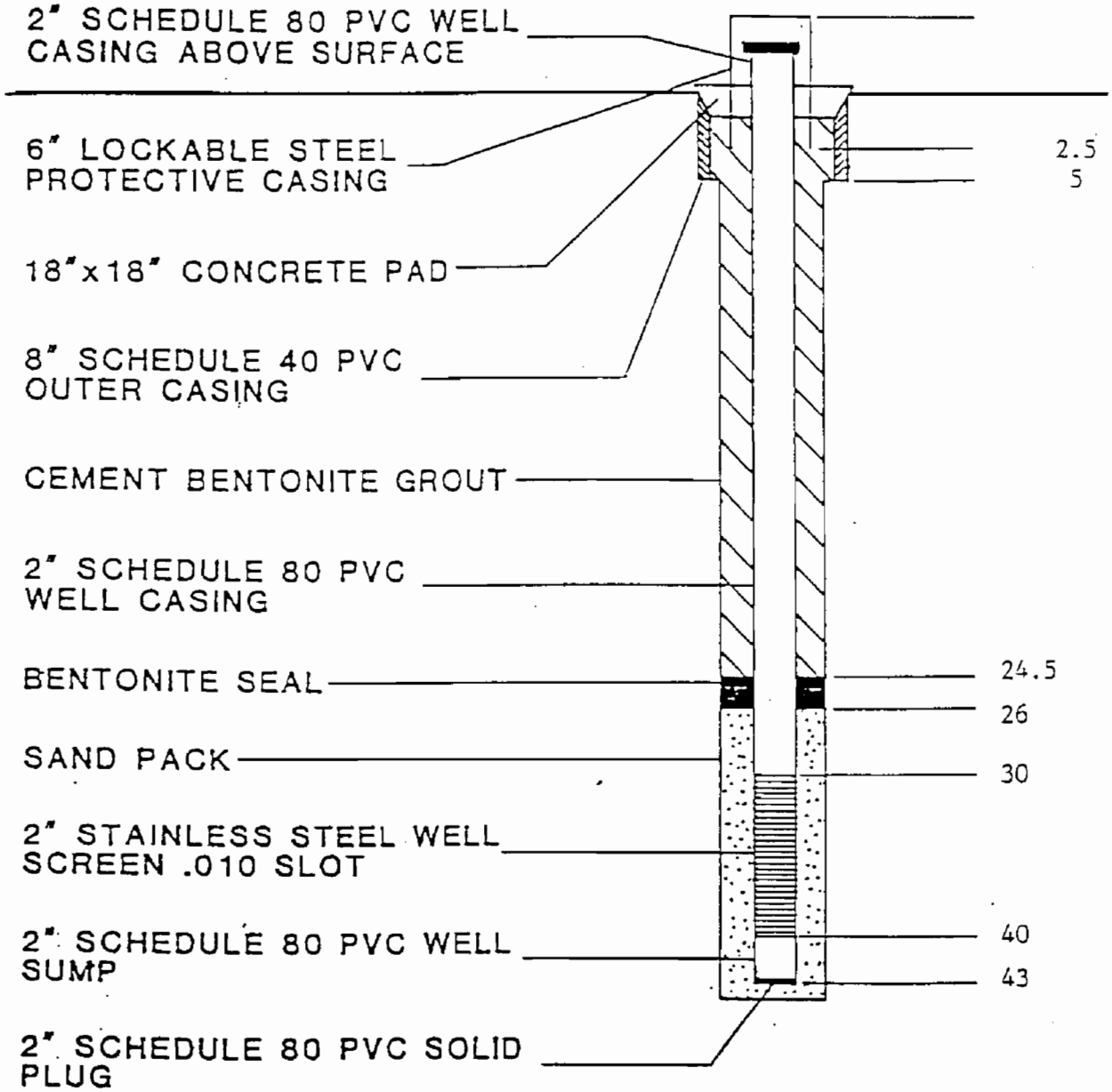


FIGURE : INTERMEDIATE AND DEEP GROUND-WATER MONITORING WELL CONSTRUCTION DETAILS

ALABAMA STATE DOCKS
MOBILE, ALABAMA

ERM-Southeast, Inc.
Brentwood, Tennessee

ABANDONED

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 1-D

PROJECT: AWTC **LOCATION:** Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.
GEOLOGIST: J. Zubrow
DATE: November 8-11, 1988

Ground Elevation: 9.0 feet
Top of Well Elev.: 11.28 feet
Depth of Well: 104 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT
SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description
	G		Dark brown Sandy SILT, wood debris @4-5'
5	S		Gray Sandy SILT
	S		Gray CLAY, trace organic matter (plant fibers)
	S	2-3-2	Gray medium to coarse to fine SAND, trace silt
10	S	1-1-2	Gray Clayey SILT, some fine sand
	S	1-4-4	Gray fine SAND, some silt, trace medium sand in lenses
15			
	S	4-4-2	Gray - white fine to medium SAND, some silt
20			
	S	4-7-10	Gray - white medium to fine to coarse SAND, trace silt
25			
	S	6-6-8	
30			
	S	6-8-8	
35			
	S	6-10-10	
40			

Construction

ABANDONED

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 1-D

PROJECT: AWTC **LOCATION:** Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.
GEOLOGIST: J. Zubrow
DATE: November 8-11, 1988

Ground Elevation: 9.0 feet
Top of Well Elev.: 11.28 feet
Depth of Well: 104 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT
SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
40			Gray - white medium to fine to coarse SAND, trace silt	
	S			
45				
50			See Log for well 1-I (ERM-Southeast, Inc., Ground-Water Assessment Report, September 2, 1986)	
55				
60				
65				
70				
75				
80				

ABANDONED

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 1-D

PROJECT: AWTC **LOCATION:** Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.
GEOLOGIST: J. Zubrow
DATE: November 8-11, 1988

Ground Elevation: 9.0 feet
Top of Well Elev.: 11.28 feet
Depth of Well: 104 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT
SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
80		17-19-60		
	S	18-15-19	Tan - white medium to fine to coarse SAND, trace silt	
85				
	S	15-14-40	- 0.5' Clay Seam @89.7'	
90				
	S	14-21-23		
95				
	S	4-5-5		
100				
	S		Green - gray Silty CLAY, trace organic matter (wood fibers)	
105			Bottom of Boring = 107'	2" STAINLESS-STEEL SAND TRAP
110				
115				
120				

ABANDONED

Environmental Resources Management

Drilling Log

Project Alabama State Docks Owner Alabama State Docks

Location _____ W.O. Number _____

Well Number 2S Total Depth 18' Diameter 6 1/2"

Surface Elevation _____ Water Level: Initial _____ 24-hrs _____

Screen: Dia. 2" Length 10' Slot Size 0.01"

Casing: Dia. 2" Length _____ Type _____

Drilling Company ELI Drilling Method mud rotary

Driller Greg Marchese Log By John Russell Date Drilled 1/23/86

Sketch Map

Notes

Depth (Feet)	Graphic Log	Well Construction	Sample Number	Description/Soil Classification (Color, Texture, Structures)
0			SS1	Wet conditions: Orange/brown, silty, fine-grained sand with shell hash
				Black, silty, fine-grained sand with slight creosote(?) odor
			SS2	Light gray, fine-grained sand
5				as above
			SS3	Dark gray/black, tarry sand with strong creosote(?) odors
10				
			SS4	as above
15			SS5	as above
				Boring completed at 18', whereupon a 2" monitoring well was emplaced

ABANDONED

PROJECT: Alabama State Docks
WELL NO.: 2-S
DRILLING COMPANY: Environmental Laboratories, Inc. (ELI)
T.O.C. ELEVATION: 9.6
DRILLING METHOD: Mud Rotary
WATER LEVEL:
DRILLER: Greg Marchese
DATE INSTALLED: 1/23/86
LOGGED BY: John Russell

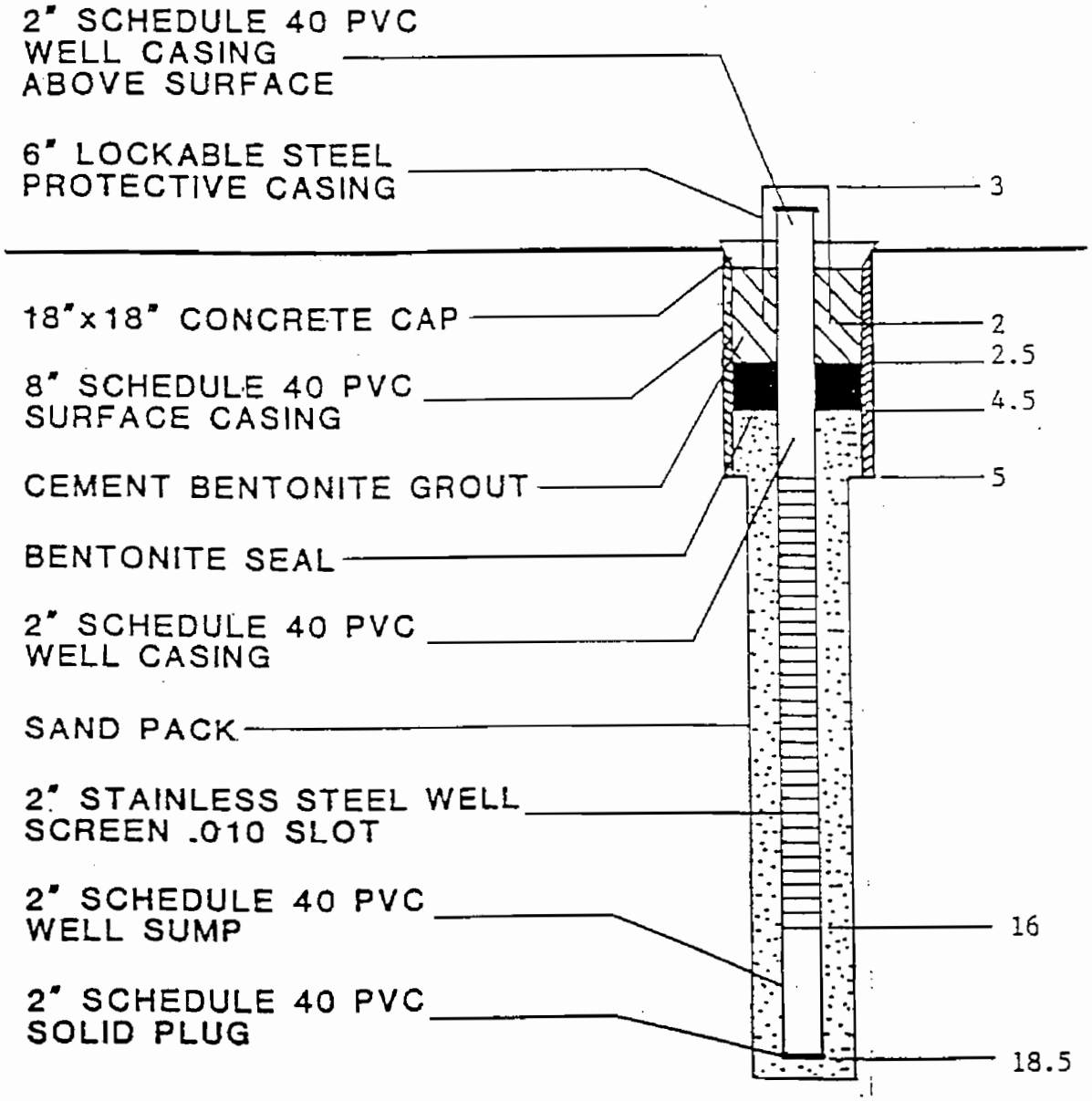


FIGURE : SHALLOW GROUND-WATER MONITORING WELL CONSTRUCTION DETAILS
ALABAMA STATE DOCKS
MOBILE, ALABAMA

ERM-Southeast, Inc.
Brentwood, Tennessee

ABANDONED

Environmental Resources Management

Drilling Log

Project Alabama State Docks Owner Alabama State Docks

Location 4S W.O. Number

Well Number Total Depth 18' Diameter 6 1/4"

Surface Elevation Water Level: Initial 2.5' 24-hrs. 3'

Screen: Dia. 2" Length 10' Slot Size 0.01"

Casing: Dia. 2" Length Type

Drilling Company ELI Drilling Method

Driller Greg Marchese Log By John Russell Date Drilled 1/24/86

Sketch Map

Notes

Depth (Feet)	Graphic Log	Well Construction	Sample Number	Description/Soil Classification (Color, Texture, Structures)
				SS - Split Spoon
0			SS1	Dark brown, sandy, clayey silt with roots
				as above with abundant pebbles
				Dark brown, silty, clayey, fine-grained sand with pebbles and roots ... lower 4" creosote(?) odor
				wet conditions: as above but primarily black silt with creosote(?) odor
				Dark brown, silty, fine-grained sand with strong creosote(?) odor as above ... lower 3" dark gray sand with odor
5				Soil samples collected using a 5' split spoon sampler. Only 4' recovery. Converted from auger stem to mud rotary.
			SS 2	Dark gray to black, clayey, fine-grained sand with strong creosote(?) odor
				As above but medium-grained sand instead
10				
				Very strong creosote(?) odor
			SS 3	as above
15				as above with some silt sections.
				Boring completed at 18', whereupon a 2-inch monitoring well was emplaced

ABANDONED

PROJECT: Alabama State Docks

DRILLING COMPANY: Environmental Laboratories, Inc. (ELI)

DRILLING METHOD: Mud Rotary

DRILLER: Greg Marchese

LOGGED BY: John Russell

WELL NO.: 4-S

T.O.C. ELEVATION: 9.11

WATER LEVEL:

DATE INSTALLED: 1/24/86

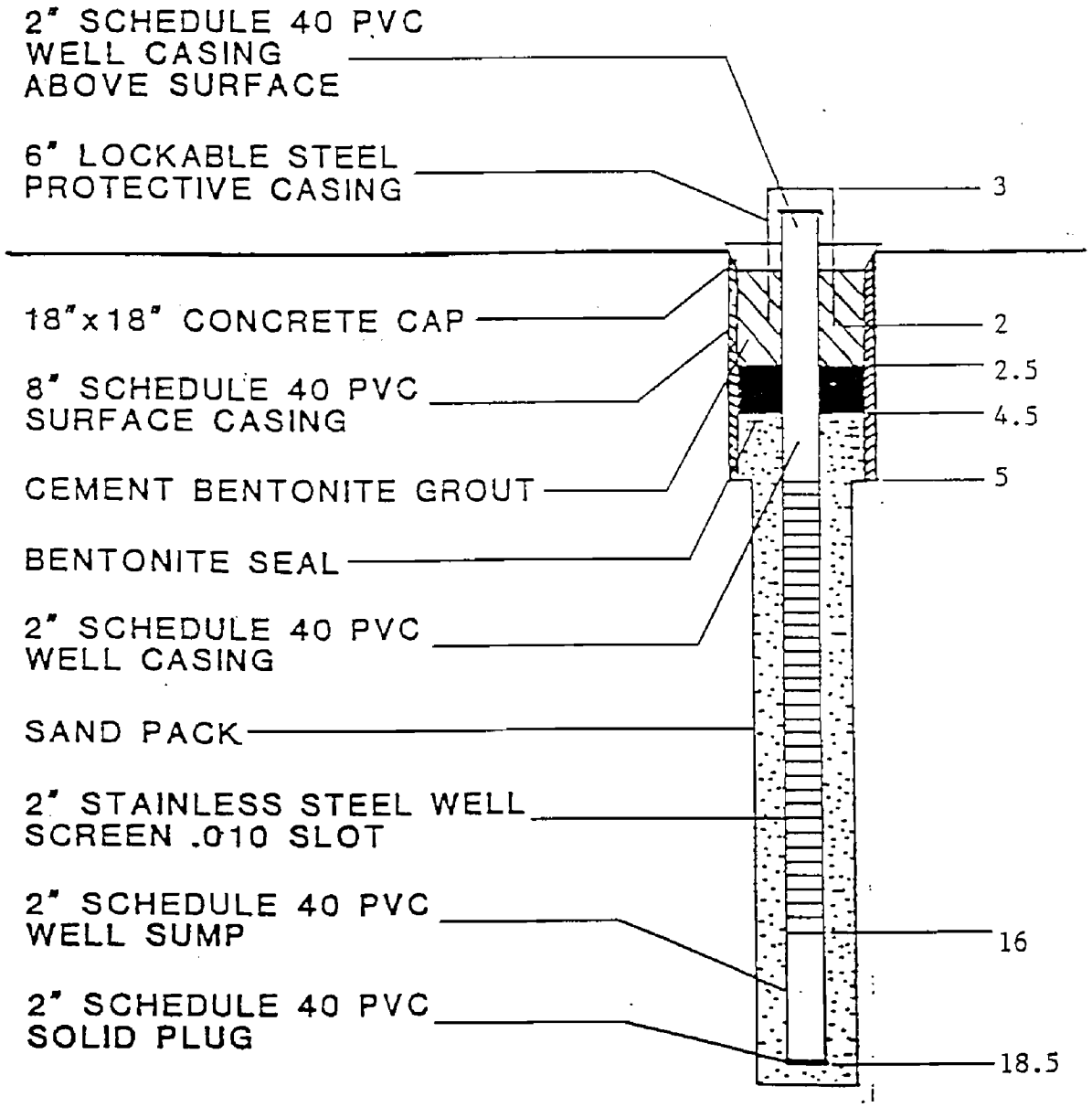


FIGURE : SHALLOW GROUND-WATER MONITORING WELL CONSTRUCTION DETAILS
ALABAMA STATE DOCKS

ERM-Southeast, Inc.
Brentwood, Tennessee

ABANDONED

PROJECT: Alabama State Docks

DRILLING COMPANY: Thompson Engineering

DRILLING METHOD: Mud Rotary

DRILLER: Henry Presley

LOGGED BY: John Russell

WELL NO.: 4-I

T.O.C. ELEVATION: 10.26

WATER LEVEL:

DATE INSTALLED: 6/26/86

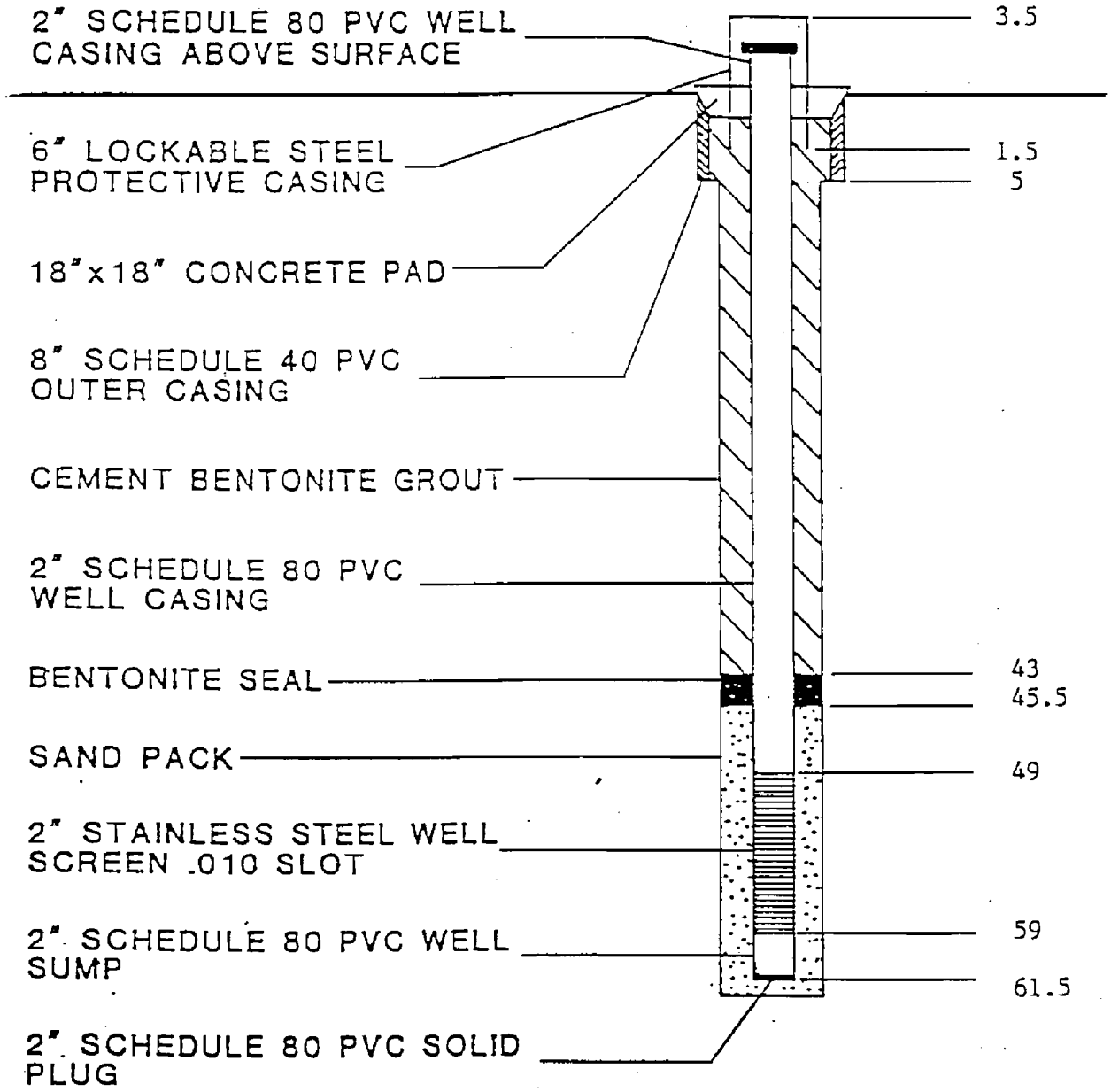


FIGURE : INTERMEDIATE AND DEEP GROUND-WATER MONITORING WELL CONSTRUCTION DETAILS

ALABAMA STATE DOCKS
MOBILE, ALABAMA

ERM-Southeast, Inc.
Brentwood, Tennessee

PROJECT: Alabama State Docks

WELL NO.: 4-D

DRILLING COMPANY: Thompson Engineering

T.O.C. ELEVATION: 8.92

DRILLING METHOD: Mud Rotary

WATER LEVEL:

DRILLER: Henry Presley

DATE INSTALLED: 6/26/86

LOGGED BY: John Russell

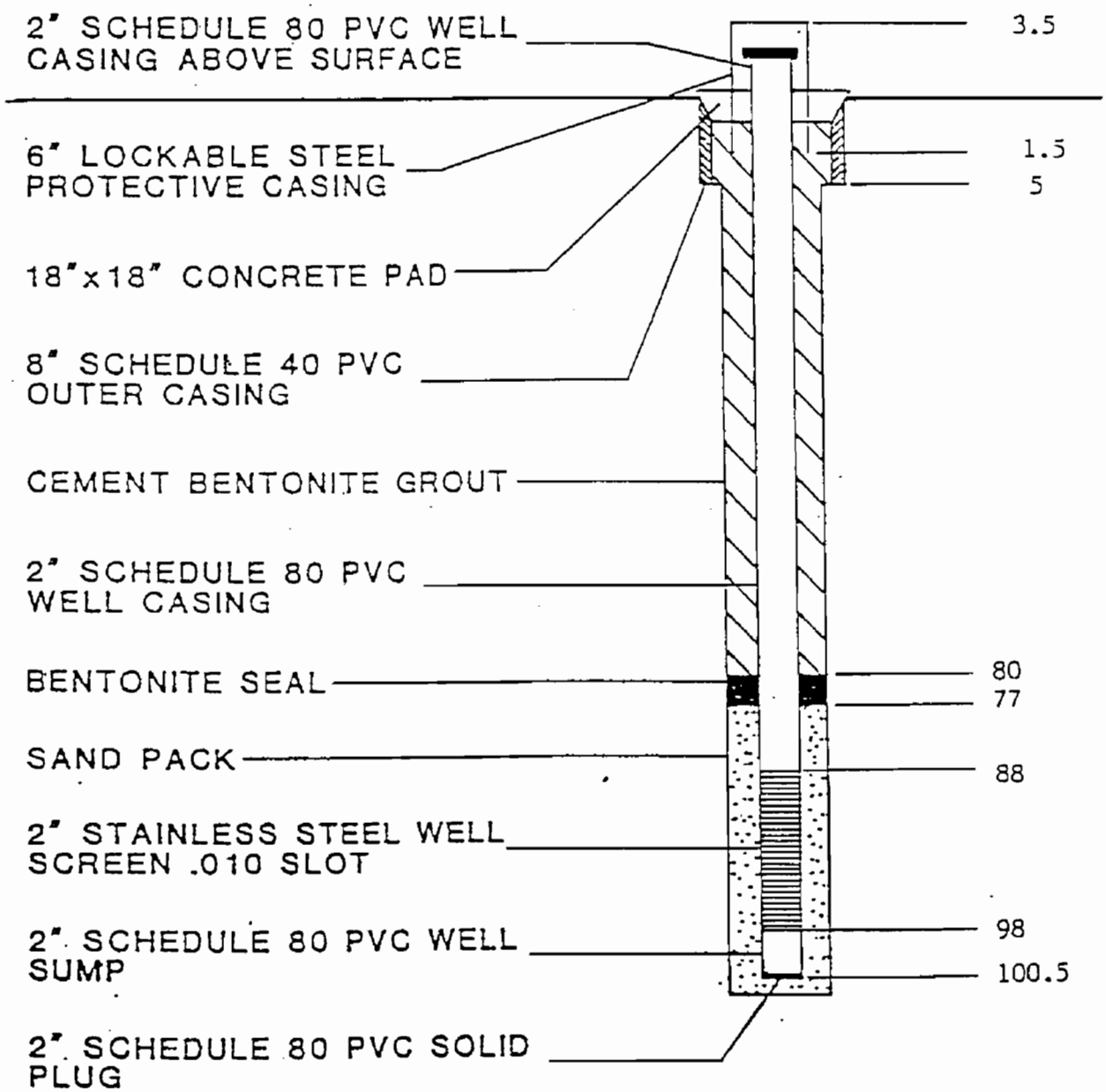


FIGURE : INTERMEDIATE AND DEEP GROUND-WATER MONITORING WELL CONSTRUCTION DETAILS

ALABAMA STATE DOCKS
MOBILE, ALABAMA

ERM-Southeast, Inc.
Brentwood, Tennessee

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 4-DK

PROJECT: AWTC **LOCATION:** Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.
GEOLOGIST: S. Colton/K.H. Straebel
DATE: November 10-17, 1988

Ground Elevation: 7.9 feet
Top of Well Elev.: 10.23 feet
Depth of Well: 100 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT
SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
5			Gray fine to medium SAND, trace silt	
	S	2-3-2	Brown Silty CLAY, some fine to medium Sand	
	S	1-1-1	Brown Silty CLAY, trace fine to medium Sand	
10	S	5-6-8		
	S	3-1-2	Brown fine to medium SAND, little silty Clay	
15				
	S	WOH/6-1-1	Brown Silty Clay, little fine to medium Sand	
20				
	S	WOH/6-1-1	Brown Clay and SILT, little fine Sand, trace wood fragments	
25				
	S	10-16-16		
30				
	S	12-22-23	Brown medium to fine Sand, trace silt, creosote odor	
35				
	S	11-17-23		
40				

KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 4-DK

PROJECT: AWTC **LOCATION:** Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.
GEOLOGIST: S. Colton/K.H. Straebel
DATE: November 10-17, 1988

Ground Elevation: 7.9 feet
Top of Well Elev.: 10.23 feet
Depth of Well: 100 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT
SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
			Brown medium to fine Sand, trace silt, creosote odor	
45	S	12-20-30		
			Gray fine to medium Sand, creosote odor	
50	S	13-25-42		
55	S	10-21-25	Brown medium to fine Sand, trace silt, creosote odor	
60	S	13-34-45		
65	S	14-26-22		
70	S	8-11-25	Brown medium to fine Sand, trace fine gravel, creosote odor	
75	S	11-14-17		
80	S	4-4-4	Gray medium to coarse Sand, trace fine gravel, creosote odor	

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 4-DK

PROJECT: AWTC **LOCATION:** Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.
GEOLOGIST: S. Colton/K. Stroebel
DATE: November 10-17, 1988

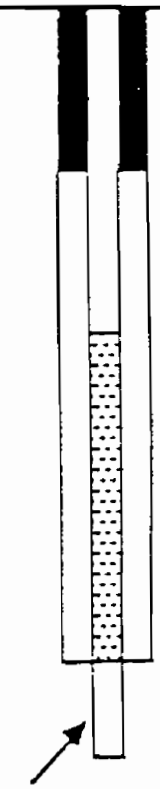
Ground Elevation: 7.9 feet
Top of Well Elev.: 10.23 feet
Depth of Well: 100 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT
SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description
	S	4-4-4	Gray medium to coarse SAND, trace fine gravel
85			
	S	10-15-16	Gray-black fine to medium SAND, trace fine gravel, heavy oil in pore spaces, odor
90			
	S	12-14-14	
95			Gray medium to coarse SAND, trace fine gravel, slight odor
	S	10-13-15	- clay seam @99 (1-inch thick)
100			
	T		Gray CLAY, stiff
105			Bottom of Boring = 105'

Construction



2" STAINLESS-STEEL SAND TRAP

Note: a 4-inch PVC casing was grouted inside the 6-inch PVC casing to a depth of 80'

ABANDONED

PROJECT: Alabama State Docks

WELL NO.: 5-I

DRILLING COMPANY: Ware Lind Engineers

T.O.C. ELEVATION: 10.42

DRILLING METHOD: Mud Rotary

WATER LEVEL:

DRILLER: Charlie Warren

DATE INSTALLED: 6/26/86

LOGGED BY: John Hargrove

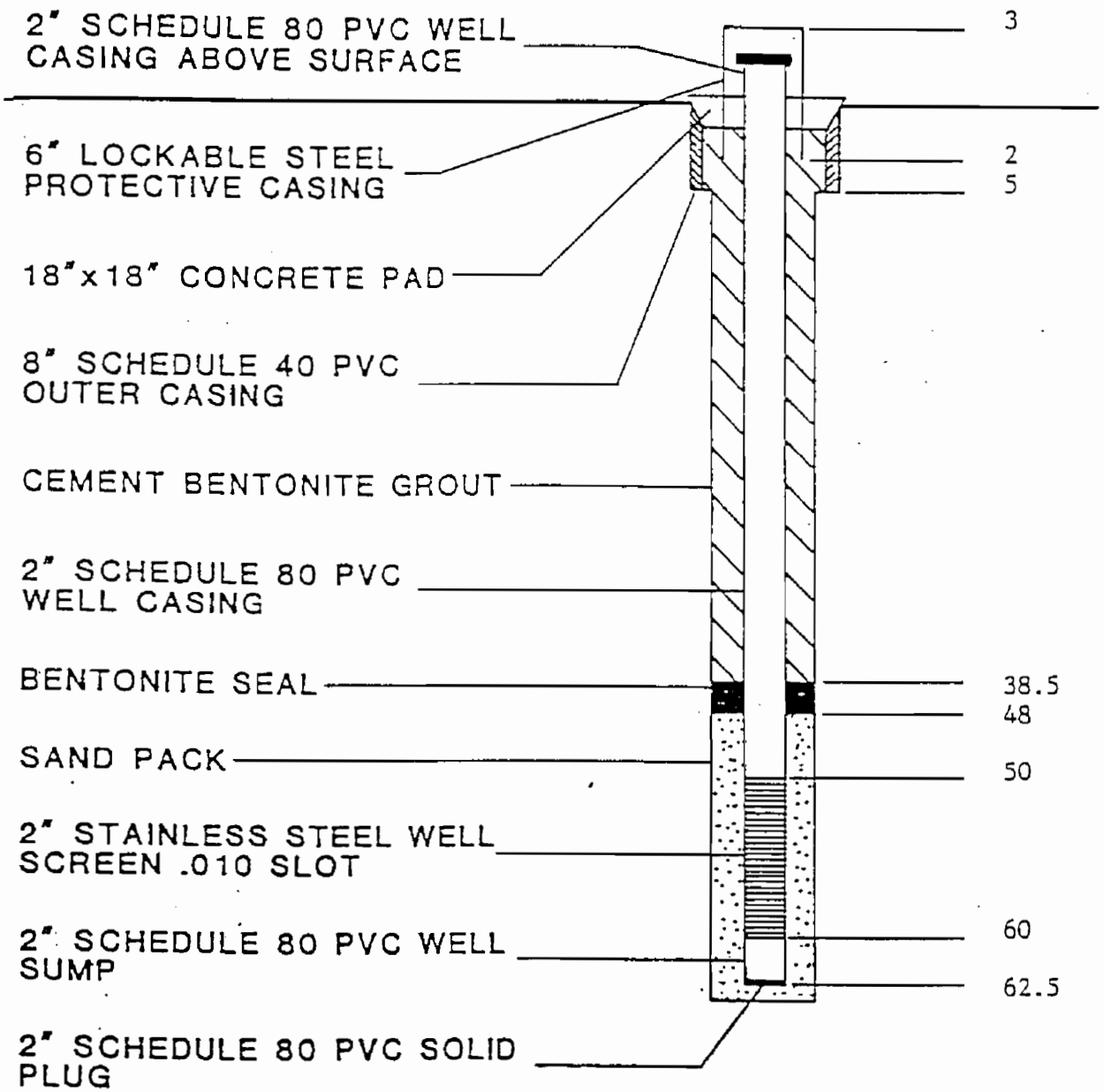


FIGURE : INTERMEDIATE AND DEEP GROUND-WATER MONITORING WELL CONSTRUCTION DETAILS

ALABAMA STATE DOCKS
MOBILE, ALABAMA

ERM-Southeast, Inc.
Brentwood, Tennessee

PROJECT: Alabama State Docks

DRILLING COMPANY: Thompson Engineering

DRILLING METHOD: Mud Rotary

DRILLER: Henry Presley

LOGGED BY: John Russell

WELL NO.: 6-S

T.O.C. ELEVATION: 10.82

WATER LEVEL:

DATE INSTALLED: 6/27/86

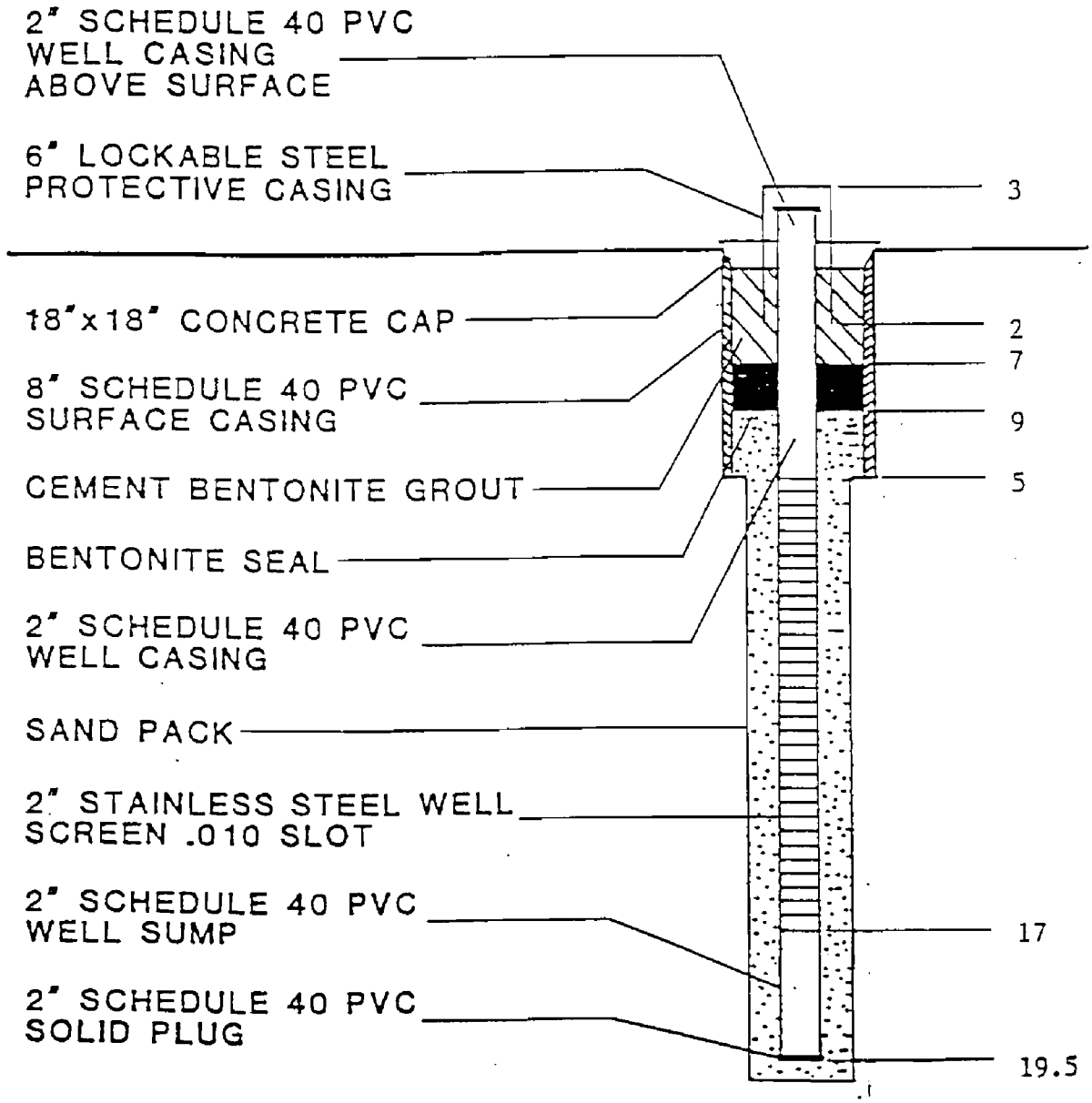


FIGURE : SHALLOW GROUND-WATER MONITORING WELL CONSTRUCTION DETAILS

ALABAMA STATE DOCKS

ERM-Southeast, Inc.

Brentwood, Tennessee

PROJECT: Alabama State Docks

WELL NO.: 6-I

DRILLING COMPANY: Thompson Engineering

T.O.C. ELEVATION: 10.22

DRILLING METHOD: Mud Rotary

WATER LEVEL:

DRILLER: Henry Presley

DATE INSTALLED: 6/25/86

LOGGED BY: John Russell

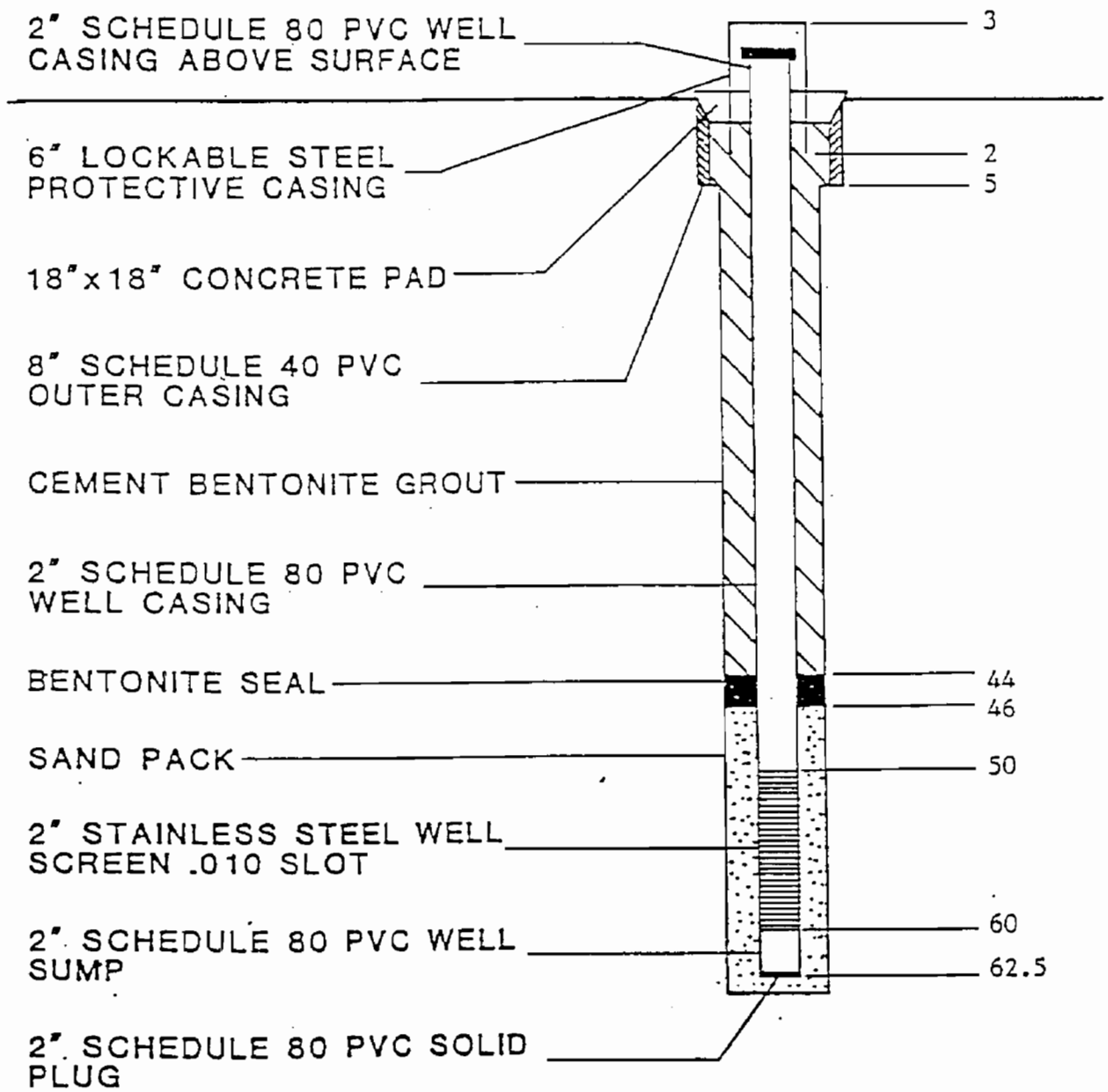


FIGURE : INTERMEDIATE AND DEEP GROUND-WATER MONITORING WELL CONSTRUCTION DETAILS

ALABAMA STATE DOCKS
MOBILE, ALABAMA

ERM-Southeast, Inc.
Brentwood, Tennessee

KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 7-S

PROJECT: AWTC **LOCATION:** Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.
GEOLOGIST: K.H. STROEBEL
DATE: November 3, 1988

Ground Elevation: 7.6 feet
Top of Well Elev.: 10.18 feet
Depth of Well: 15 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" Casing
10" Casing

Depth	Sample	SPT Blow Counts	Description	Construction
0	G		Brown fine to medium SAND, little silt	
5	S		Brown to Gray fine to medium grained SAND	
	S			
10	S		Brown SILT and CLAY	
15	S		Bottom of Boring = 15'	2" STAINLESS-STEEL SAND TRAP
20				
25				
30				
35				
40				

Environmental Science & Engineering, Inc.

LOG OF BORING MW-7-IR

Alabama State Docks
Mobile Alabama

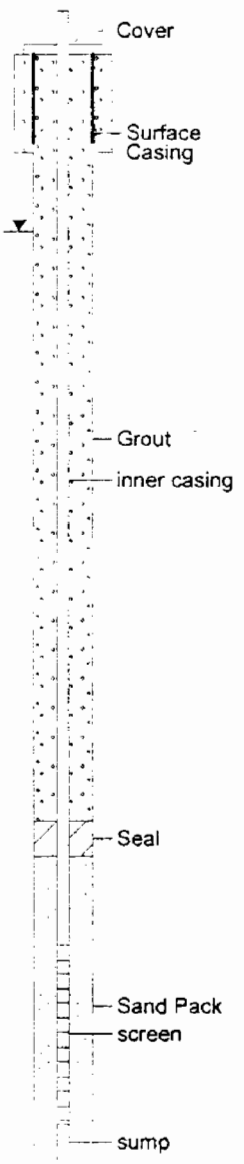
Iterim Measures

3799003

ESE Field Leader	: David Smoak	Boring Diameter	: 10" outer/6" inner
ESE Projec Manager	: Rob Hunter	Boring Depth	: 62 feet
Drilling Contractor	: G&E Services	Start/Finish Date	: 6/28/99
Driller	: Charlie Wyckoff	Geologist	: Dave Smoak
Drilling Method	: Mud Rotary		

Depth in ft	Surf. Elev. 7.22	DESCRIPTION	USCS	Water Levels.
0		Sand, silty-sand, gray		
5				
	0			
10		wood fragments		
	-5		SP	
15				
	-10			
20				
	-15			
25		SAND, fine, gray		
	-20			
30				
	-25			
35		trace shell and wood fragments		
	-30		SP	
40				
	-35			
45		fine sand, less silt		
	-40			
50		SAND, coarse sand and gravel		
	-45	silty-clay seam		
55		Sand, medium		
	-50	loss of circulation, add more water and mud	GW	
60				
	-55			
65				
	-60			

Well: MW-7-IR
Elev.: 9.62



Well Construction Information

Outter casing	: 10" PVC
Inner Casing	: S. Steel
Screen	: S.Steel
Slot	: 0.010-inch
Sump	: 2 ft.

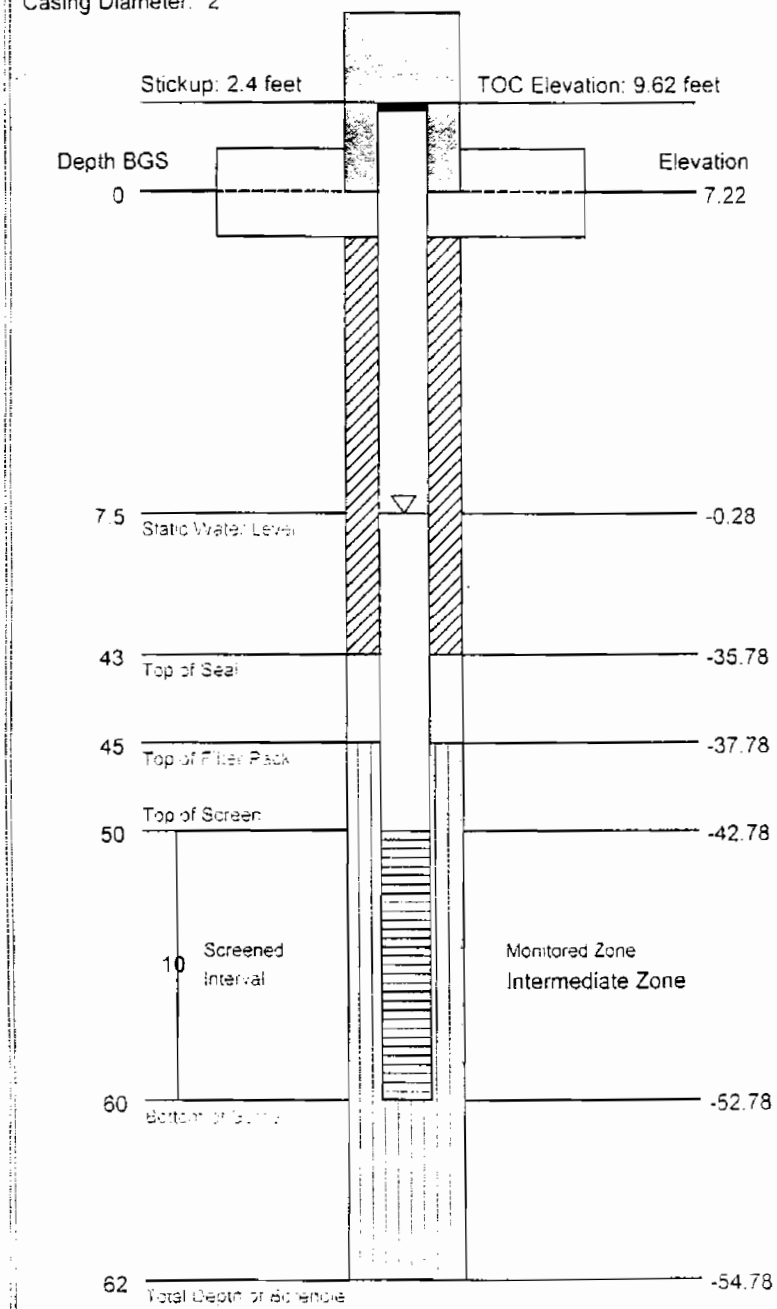
NOTES

MW-7-IR replaces MW-7-I

Monitoring Well Construction — MW-7-IR

FACILITY NAME		DESCRIPTION	OWNER	USE
Alabama State Docks\AWTC		Inter. Monitoring Well	Alabama State Docks	Monitoring Well
LOCATION METH.	ELEVATION METH.	CLIENT	INSTL DATE START	INSTL DATE END
Surveyed	Surveyed	Alabama State Docks	6/28/99	6/28/99
CHARACTERISTICS		NORTHING	EASTING	DATUM MSL
CONTRACTOR		DRILLER		DRILLING METHOD
G & E Services		Charlie Wyckoff		mud rotary
PROJECT		PROJECT NUM.	COMMENT:	
DNAPL Recovery		3799003	Replacement Monitoring well for MW-7-I	

Well Diameter: 6-in
Casing Diameter: 2"



PAD	Concrete
PAD TYPE	concrete
PROTECTION	Stainless Steel
CASING MATERIAL	Stainless Steel
WELL DIAMETER	6-in
CASING DIAMETER	2"
FILTER PACK	Sand
SEAL	Benontite
BACKFILL	Benontite/Cement Grout
SCREEN	Stainless Steel
GUARD POSTS	y
DEVELOPMENT	surge/pumping
INSTALLED BY	Charlie Wyckoff
LOGGED BY	David Smoak
FLUSH MOUNT	☐
LOCK	☒
GUARD PIPE	☒

COMMENT:
A 5-foot long, 10-inch diameter schedual 40, PVC outter casing was installed, but is not shown.

PROJECT: Alabama State Docks

WELL NO.: 7-D

DRILLING COMPANY: Thompson Engineering

T.O.C. ELEVATION: 11.46

DRILLING METHOD: Mud Rotary

WATER LEVEL:

DRILLER: Henry Presley

DATE INSTALLED: 6/5/86

LOGGED BY: John Russell

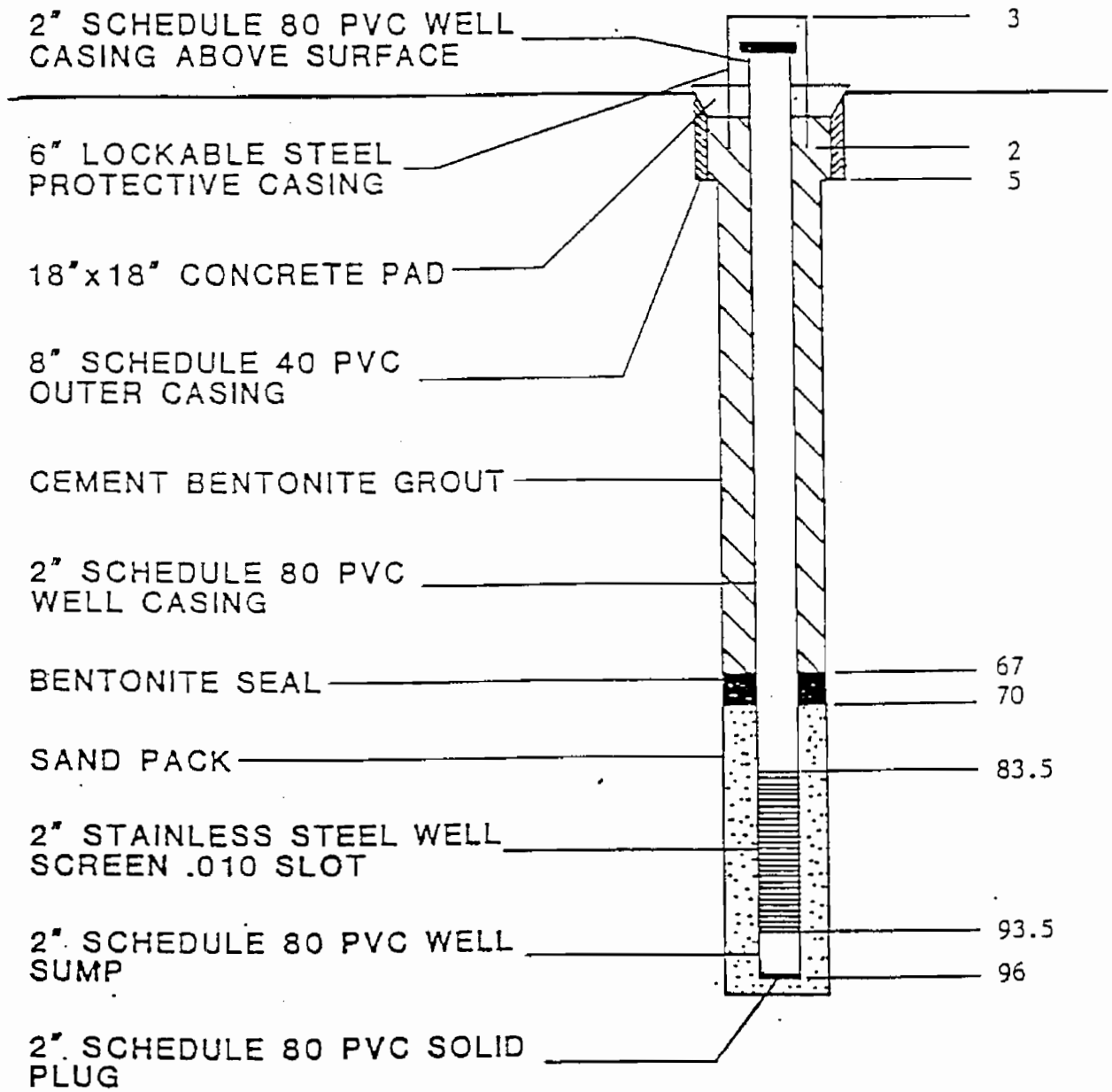


FIGURE : INTERMEDIATE AND DEEP GROUND-WATER MONITORING WELL CONSTRUCTION DETAILS

ALABAMA STATE DOCKS
MOBILE, ALABAMA

ERM-Southeast, Inc
Brentwood, Tennessee

PROJECT: Alabama State Docks

DRILLING COMPANY: Thompson Engineering

DRILLING METHOD: Mud Rotary

DRILLER: Henry Presley

LOGGED BY: John Russell

WELL NO.: 8-I

T.O.C. ELEVATION: 11.75

WATER LEVEL:

DATE INSTALLED: 6/11/86

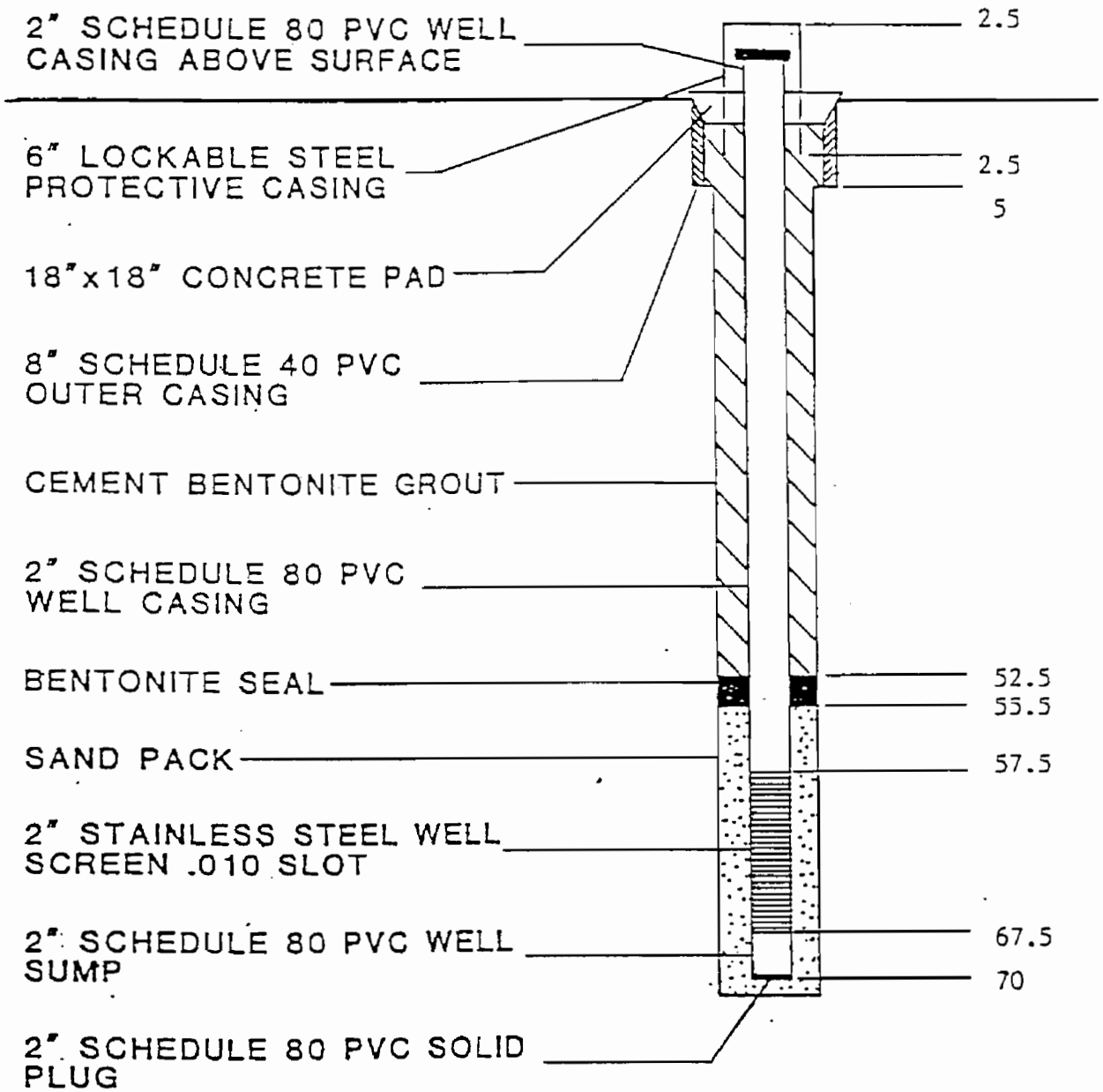


FIGURE : INTERMEDIATE AND DEEP GROUND-WATER MONITORING WELL CONSTRUCTION DETAILS

ALABAMA STATE DOCKS
MOBILE, ALABAMA

ERM-Southeast, Inc.
Brentwood, Tennessee

KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 8-D

PROJECT: AWTC **LOCATION:** Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.
GEOLOGIST: J. Zubrow
DATE: November 8-10, 1988

Ground Elevation: 9.7 feet
Top of Well Elev.: 12.07 feet
Depth of Well: 96 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
5	S	2-4-8	Gray fine to medium SAND, trace silt, slight creosote odor	
10	S	4-6-6	Gray fine to medium SAND, some silt, very slight creosote odor	
	S	3-4-3	Gray SILT, some fine sand, trace clay slight creosote odor	
15	S	3-3-3	Gray fine SAND, some silt, trace shell fragments, slight creosote odor	
20	S	3-3-4	Brown-Gray medium to fine SAND, trace silt, slight creosote odor	
25	S	2-2-1	Gray fine to medium SAND, little silt, very slight creosote odor	
30	S	2-2-2	Gray medium to fine SAND, little silt, very slight creosote odor	
35	S	3-4-9	Gray medium to fine SAND, trace silt, trace organic matter (wood fibers), slight creosote odor	
40	S	11-15-19	Gray medium to fine to coarse SAND, trace silt	

KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 8-D

PROJECT: AWTC

LOCATION: Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: J. Zubrow
DATE: November 8-10, 1988

Ground Elevation: 9.7 feet
Top of Well Elev.: 12.07 feet
Depth of Well: 96 feet
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Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
			Gray medium to coarse to fine SAND, trace silt	
45	S	9-17-13	Gray-white medium to coarse to fine SAND, trace fine gravel	
50	S	7-10-12	Gray-white medium to coarse to fine SAND, trace fine gravel, trace silt	
55	S	18-24-42	Tan medium to coarse to fine SAND, trace fine gravel, creosote odor	
60	S	18-22-24	Gray medium to fine to coarse SAND, trace fine gravel, creosote odor	
65	S	11-12-32	Gray medium to coarse to fine SAND, trace fine gravel, slight creosote odor	
70	S	10-14-15	Tan medium to coarse to fine SAND, trace fine gravel, very slight creosote odor	
75	S	11-21-30		
80	S	10-24-34	Gray-white medium to coarse to fine SAND	

KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 8-D

PROJECT: AWTC

LOCATION: Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: J. Zubrow
DATE: November 8-10, 1988

Ground Elevation: 9.7 feet
Top of Well Elev.: 12.07 feet
Depth of Well: 96 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

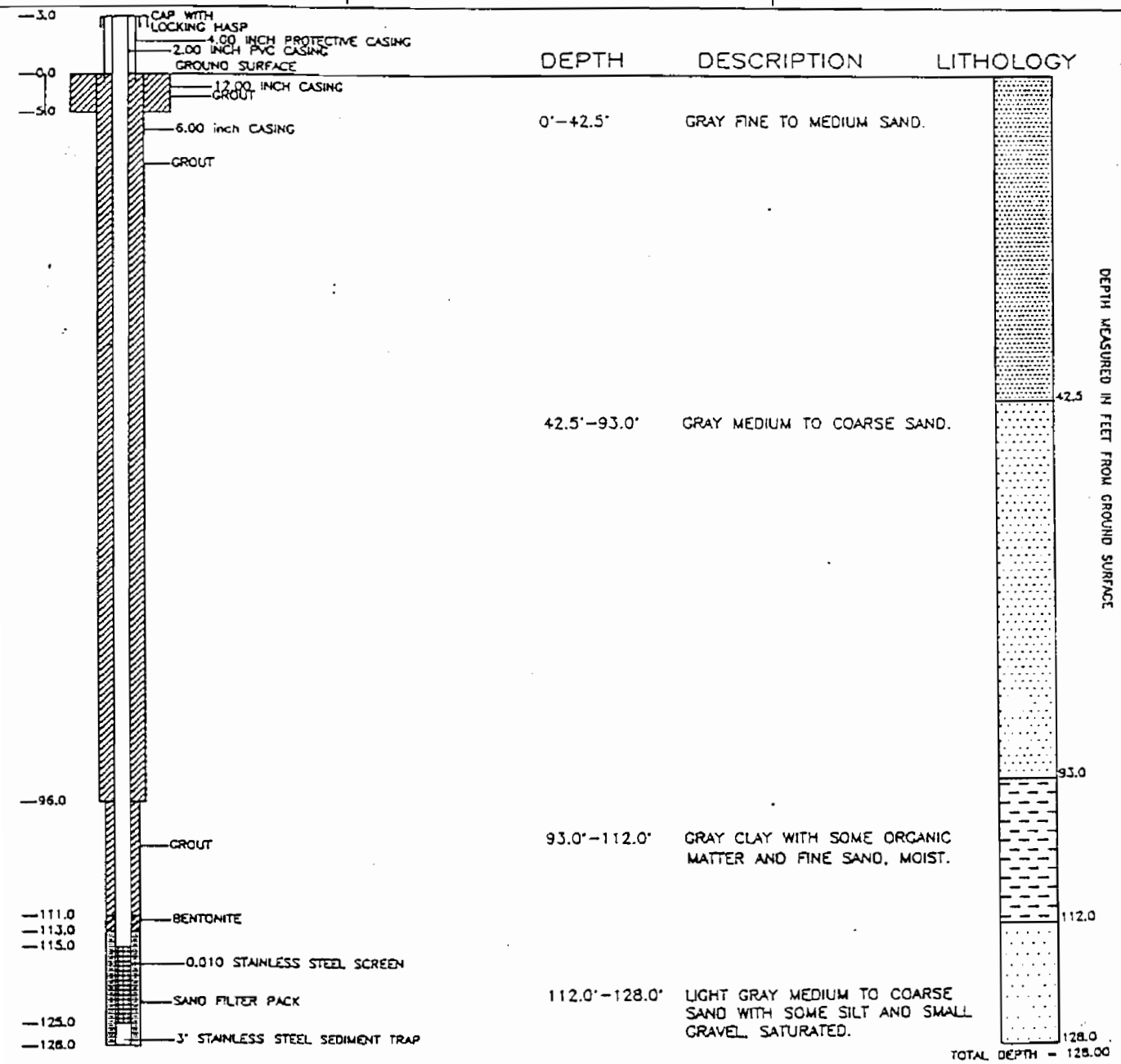
Depth	Sample	SPT Blow Counts	Description	Construction
			Gray medium to coarse to fine SAND	
85	S	10-14-20		
90	S	20-31-48	Gray-tan medium to fine to coarse SAND, trace silt	
95	S	13-21-12	Dark gray CLAY	
100	S		Bottom of Boring = 100'	
105				

2" STAINLESS-STEEL SAND TRAP

WELL# 8DK

SHEET 1 OF 1

EMEDIATION ECHNOLOGIES INC	CONTRACTOR G.E.T.	SCREEN SIZE	0.010 S.S.
OJECT AWTC	DRILLER STEVE	RISER	118
OJECT # 30-545-215	RIG TYPE GEOSPACE	SCREEN	from 115 to 125
ATE 03/30/92	METHOD MUD ROTARY	FILTER PACK	from 113 to 128
MPLETED 04/07/92 @17:15	CASING ID 6" PVC	SEAL	from 111 to 113
TAL DEPTH 128'	WELL CASING ID 2"	GROUT	from 0 to 111
GGED BY ELLIOTT CORNELL	WELL CASING TYPE PVC SCH 40	WELL ELEV.	12.5'
	SEDIMENT TRAP 3' S.S.	GROUND ELEV.	9.48'



MARKS:
Grain Size Samples Collected @ 115-117', 125'-127'.
Permeability Test samples collected by Shelby tube @ 101'-103', 105'-107', 109'-111'.
Tested sample 105'-107'.

PROJECT: Alabama State Docks

DRILLING COMPANY: Thompson Engineering

DRILLING METHOD: Mud Rotary

DRILLER: Henry Presley

LOGGED BY: John Russell

WELL NO.: 9-I

T.O.C. ELEVATION: 11.84

WATER LEVEL:

DATE INSTALLED: 6/12/86

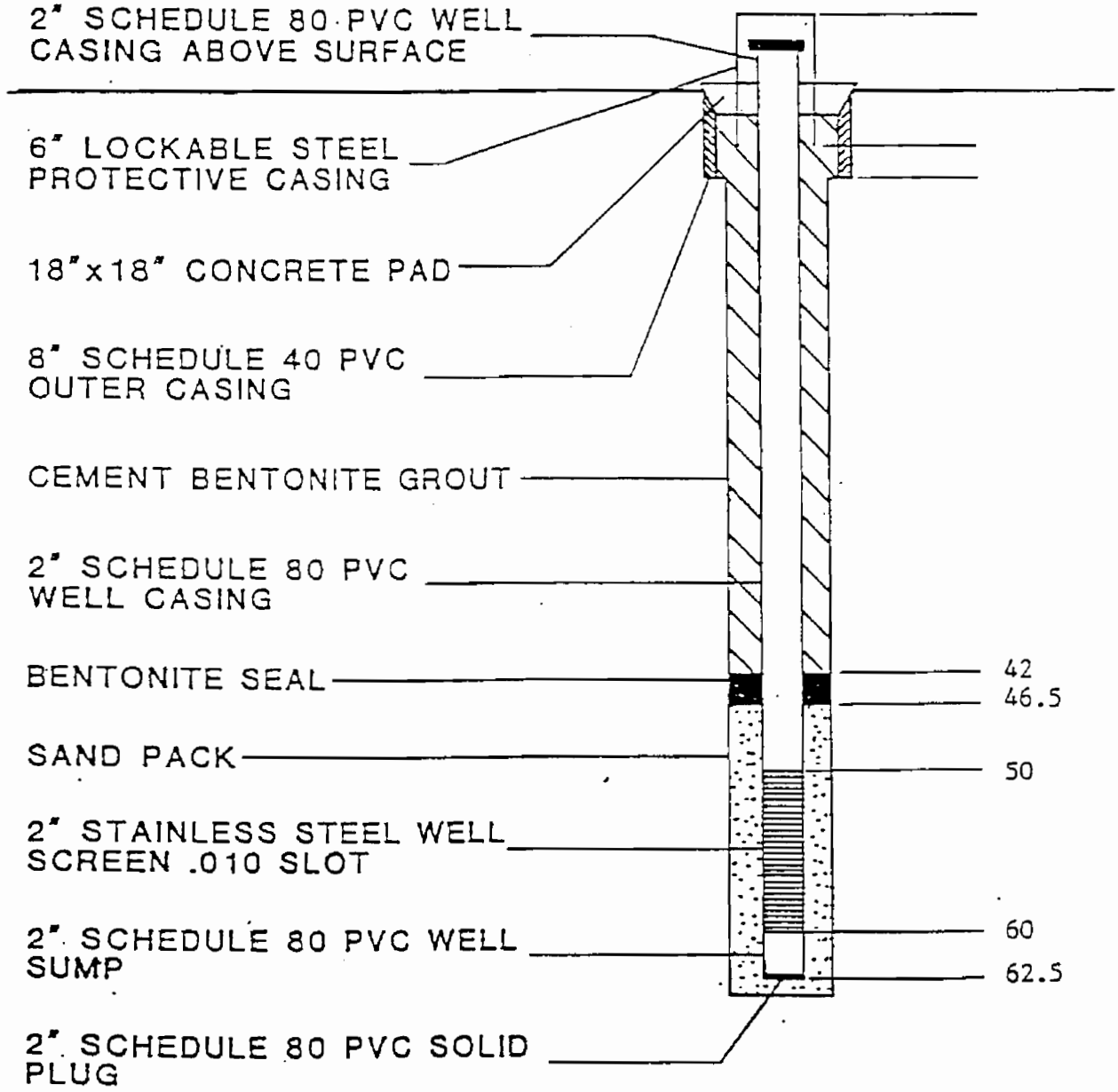


FIGURE : INTERMEDIATE AND DEEP GROUND-WATER MONITORING WELL CONSTRUCTION DETAILS

ALABAMA STATE DOCKS
MOBILE, ALABAMA

ERM-Southeast, Inc
Brentwood, Tennessee

ABANDONED

PROJECT: Alabama State Docks

DRILLING COMPANY: Thompson Engineering

DRILLING METHOD: Mud Rotary

DRILLER: Henry Presley

LOGGED BY: John Russell

WELL NO.: 10-I

T.O.C. ELEVATION: 11.72

WATER LEVEL:

DATE INSTALLED: 6/23/86

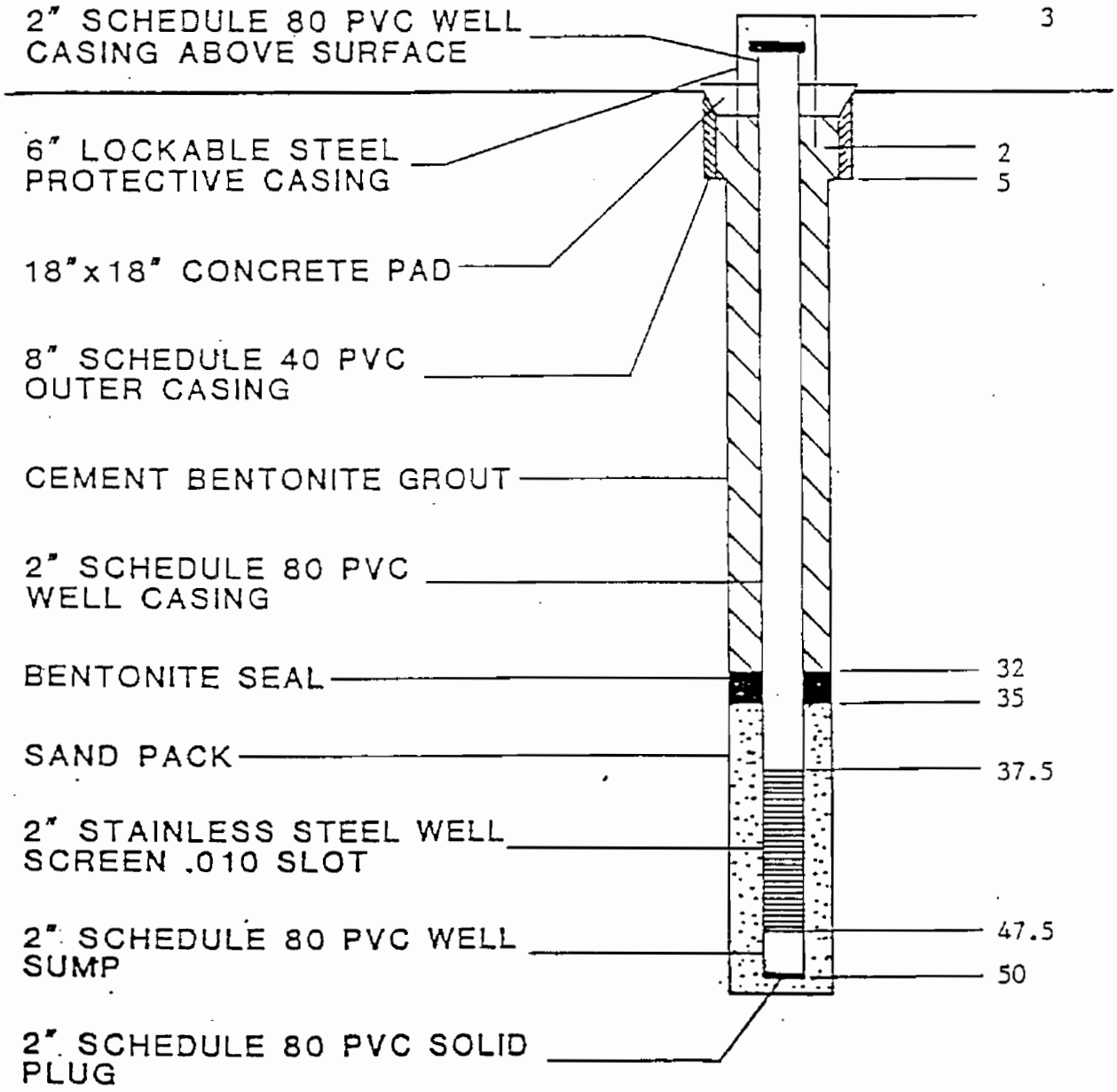


FIGURE : INTERMEDIATE AND DEEP GROUND-WATER MONITORING WELL CONSTRUCTION DETAILS

ALABAMA STATE DOCKS

ERM-Southeast, Inc

Brentwood, Tennessee

ABANDONED

PROJECT: Alabama State Docks

WELL NO.: 10-D

DRILLING COMPANY: Ware Line Engineers

T.O.C. ELEVATION: 11.46

DRILLING METHOD: Mud Rotary

WATER LEVEL:

DRILLER: Charlie Warren

DATE INSTALLED: 6/27/86

LOGGED BY: John Hargrove

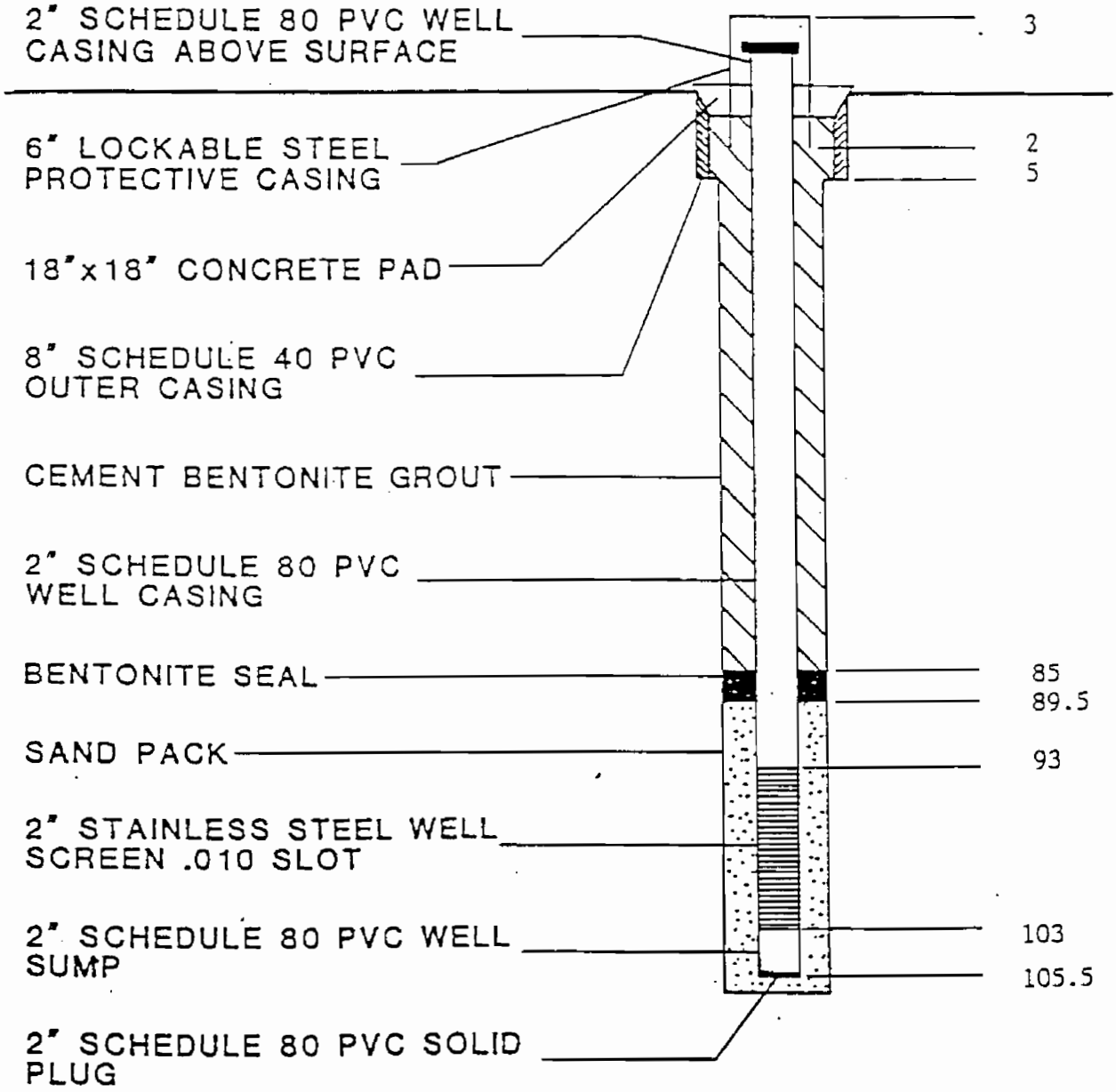


FIGURE : INTERMEDIATE AND DEEP GROUND-WATER MONITORING WELL CONSTRUCTION DETAILS

ALABAMA STATE DOCKS
MOBILE, ALABAMA

ERM-Southeast, Inc.
Brentwood, Tennessee

KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 11-I

PROJECT: AWTC

LOCATION: Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: K.H. STROEBEL
DATE: November 7, 1988

Ground Elevation: 9.1 feet
Top of Well Elev.: 11.56 feet
Depth of Well: 50 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
0			See Log for well 11-I (ERM-Southeast, Inc., Ground-Water Assessment Report, September 2, 1986)	
20	S	2-2-2	Gray fine to medium sand, little silty clay, slight creosote odor	
25	S	3-1-2	Brown Silty CLAY, some fine to medium sand	
30	S	11-16-20	Gray fine to medium SAND, trace clay	
35	S	18-27-2		
40	S	10-15-2	Gray fine to medium to coarse SAND	

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 11-I

PROJECT: AWTC

LOCATION: Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: K.H. STROEBEL
DATE: November 7, 1988

Ground Elevation: 9.1 feet
Top of Well Elev.: 11.56 feet
Depth of Well: 50 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
45	S	10-18-[illegible]	Gray fine to medium to coarse SAND	
50	S	14-14-[illegible]		
			Bottom of Boring = 50'	
70		11-16-20		

2" STAINLESS-STEEL SAND TRAP

KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 12-I

PROJECT: AWTC" **LOCATION:** Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: K.H. STROEBEL
DATE: November 4, 1988

Ground Elevation: 9.0 feet
Top of Well Elev.: 11.87 feet
Depth of Well: 50feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
5			See Description for 12-S Log from 1986 ERM Report	
10				
15				
20	S		Gray fine Sand	
25	S		Gray SILT and CLAY, little shell fragments, trace organic matter (wood fragments)	
30	S		Yellow to brown fine to medium grained Sand, very faint creosote odor	
35	S		White fine to medium grained Sand, faint creosote odor	
40	S			

KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 12-I

PROJECT: AWTC **LOCATION:** Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: K.H. STROEBEL
DATE: November 4, 1988

Ground Elevation: 9.0 feet
Top of Well Elev.: 11.87 feet
Depth of Well: 50 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
40	S		White fine to medium grained Sand, little shell fragments, trace clay	
45	S			
50	S		Bottom of Boring = 50'	2"STAINLESS-STEEL SAND TRAP
55				
60				
65				
70				
75				
80				

ABANDONED

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 13-S

PROJECT: AWTC" LOCATION: Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: K.H. STROEBEL
DATE: November 7, 1988

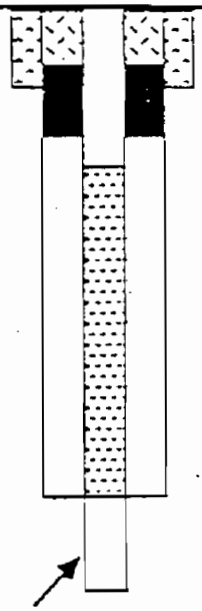
Ground Elevation: 9.2 feet
Top of Well Elev.: 11.01 feet
Depth of Well: 15 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" Casing
10" Casing

Depth	Sample	SPT Blow Counts	Description	Construction
5			See Description for Well 13-I Log	
10				
15			Bottom of Boring = 15'	
20				
25				
30				
35				
40				



KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 13-I

PROJECT: AWTC **LOCATION:** Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.
GEOLOGIST: K.H. STROEBEL
DATE: November 4,-7 1988

Ground Elevation: 9.2 feet
Top of Well Elev.: 11.82 feet
Depth of Well: 51.5 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT
SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
5	S	7-5-1	Gray fine to medium SAND, trace clay	
10	S	4-2-2	Brown CLAY & SILT, little fine to medium sand, slight creosote odor	
	S	5-3-4		
15	S	1-2-1	Brown - gray fine to medium SAND, trace clay, slight creosote odor	
20	S	2-2-3		
25	S	2-2-3	Brown - orange fine to medium SAND, little clay, trace fine to medium gravel	
30			Brown Silty CLAY, trace fine sand, trace shell fragments, faint creosote odor	
35			Gray to white fine to medium Sand, faint creosote odor	
40				

KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 13-I

PROJECT: AWTC

LOCATION: Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: K.H. STROEBEL
DATE: November 4-7, 1988

Ground Elevation: 9.2 feet
Top of Well Elev.: 11.82 feet
Depth of Well: 51.5 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
5" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
40			Gray to white fine to medium Sand, faint creosote odor	
45	S			
	S			
50			Gray to white fmc Sand, trace fine gravel, trace shell fragments, faint creosote odor	
			Bottom of Boring = 51.5'	
55				
60				
65				
70				
75				
80				

2" STAINLESS-STEEL SAND TRAP

ABANDONED

G & E SERVICES, INC. BORING LOG

Drill Rig:	CME	Date Drilled:	11/6/00	Logged By:
Boring Dia:	6 Inches	Boring:	AWTC MW 13-D	C. Wyckoff

Sample	Blow Counts	Completion	Gr. Water (Feet)	Depth Feet	Lithology	Description
				0		Tan Silty Sand
			GW	5		Tan Fine Sand W/Clay Lenses
				10		
				15		
				20		
				25		
				30		
				35		
				40		
				45		
				50		
				55		
				60		
				65		
				70		
				75		
				80		
				85		
				90		
				95		
■	5-10-10-14			100		Dark Gray Stiff Clay

Completion Notes:

Six Inch PVC outer casing installed about five feet. Mud rotary boring was completed to about 100 feet using a six inch bit. 10' feet of screen with .010 inch slots installed, 16-30 sand placed about two feet above the screen. Bentonite seal placed about two feet thick above the sand and remaining annular space grouted. Above ground well cover installed and well developed.

Site:

AWTC
ASD AWTC Site
Mobile, Al.

Project No.: 00-196 Page 1

ABANDONED

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 14-S

PROJECT: AWTC

LOCATION: Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: K.H. STROEBEL
DATE: November 14, 1988

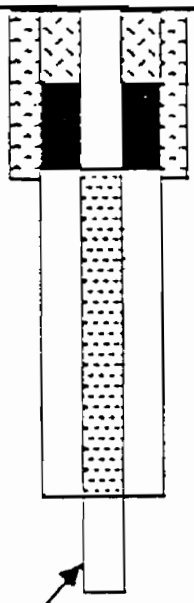
Ground Elevation: 9.0 feet
Top of Well Elev.: 11.12 feet
Depth of Well: 18 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
5			See Description for Well Log14-D	
10				
15				
20			Bottom of Boring = 18'	2" STAINLESS-STEEL SAND TRAP
25				
30				
35				
40				



Sheet 1 of 1

ABANDONED

KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 14-I

PROJECT: AWTC

LOCATION: Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: S. Colton/J. Zubrow
DATE: November 14, 1988

Ground Elevation: 9.0 feet
Top of Well Elev.: 11.02 feet
Depth of Well: 50 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
5			See Description of Log for Well 14-D	
10				
15				
20				
25				
30				
35				
40				

ABANDONED

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 14-I

PROJECT: AWTC **LOCATION:** Mobile, AL

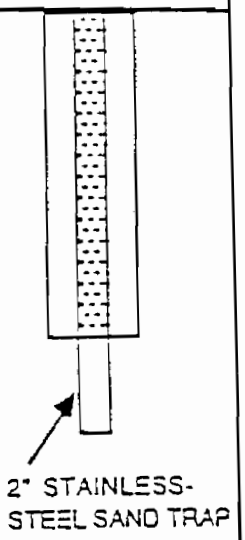
DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.
GEOLOGIST: K.H. STROEBEL
DATE: November 14, 1988

Ground Elevation: 9.0 feet
Top of Well Elev.: 11.02 feet
Depth of Well: 50 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT
SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
45				
50				
55				
60				
65				
70				
75				
80				



ABANDONED

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 14-D

PROJECT: AWTC .

LOCATION: Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: K.H. STROEBEL
DATE: November 11, 1988

Ground Elevation: 9.0 feet
Top of Well Elev.: 10.99 feet
Depth of Well: 97 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
0	G		Gray to black fine to medium grained SAND, little clay, trace wood fragments, slight creosote odor	
5	S		Brown medium to fine SAND, trace organic matter (wood fragments), oily, creosote odor	
	S		Brown CLAY & SILT, little fine to medium gravel, creosote odor	
10	S	1-2-3		
	S	1-1-1		
15				
	S	1-1-1		
20			Brown fine SAND, little silt & clay, creosote odor	
	S	3-5-5		
25				
	S	5-6-5		
30				
	S	4-8-14		
35			Brown fine to medium to coarse SAND, trace clay, creoste odor	
	S	10-21-23		
40			Brown medium to coarse SAND, trace silt, creoste odor	

ABANDONED

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 14-D

PROJECT: AWTC

LOCATION: Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: S. Colton/J. Zubrow
DATE: November 11, 1988

Ground Elevation: 9.0 feet
Top of Well Elev.: 10.99 feet
Depth of Well: 97 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description
			Brown medium to coarse SAND, trace silt, creosote odor
45	S	15-35	
50	S	14-23-29	Gray coarse to medium SAND, creosote odor
55	S	13-19-2	
60	S	10-50/3	
65	S	16-44-33	
			Brown - orange Silty CLAY, trace fine to medium sand
70	S	9-16-18	Brown - orange coarse to medium sand
75	S	10-7-4	Brown - green Silty CLAY, trace fine sand, slight odor
80	S	16-34 50/3	Brown fine to medium to coarse SAND, trace clay, odor

Construction

ABANDONED

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 14-D

PROJECT: AWTC . LOCATION: Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: S. Colton/J. Zubrow
DATE: November 11, 1988

Ground Elevation: 9.0 feet
Top of Well Elev.: 10.99 feet
Depth of Well: 97 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
			Brown fine to medium to coarse SAND, trace clay, odor	
85	S	16-35-45		
90	S	15-21-30		
	S	16-22-22		
95	S	16-14-1		
	T		Gray - green CLAY	
			Bottom of Boring = 97'	
100				
105				

2" STAINLESS-STEEL SAND TRAP

KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 15-S

PROJECT: AWTC

LOCATION: Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: S. Colton
DATE: November 3, 1988

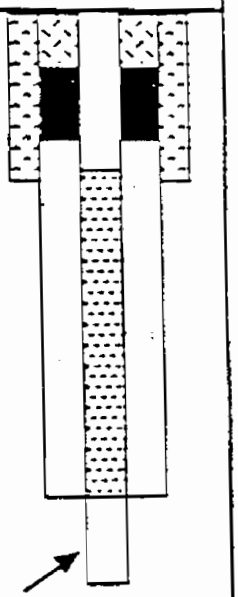
Ground Elevation: 7.5 feet
Top of Well Elev.: 10.17 feet
Depth of Well: 18 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
5			See Description of Log for Well 15-I	
10				
15			Bottom of Boring - 18'	
20				
25				
30				
35				
40				



KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 15-I

PROJECT: AWTC

LOCATION: Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: S. Colton
DATE: November 2, 1988

Ground Elevation: 7.5 feet
Top of Well Elev.: 10.07 feet
Depth of Well: 51.5 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
5	G		Brown fine to medium Sand, little Silt	
	S	4-2-2	Gray fine to medium Sand, little Silt	
10	S	3-2-3	Gray CLAY & SILT, little fine sand	
	S	2-2-2	Gray fine to medium SAND	
15	S	2-2-3		
20	S	2-2-1		
25	S	5-5-5	Gray fine to medium SAND, trace clay	
30	S	4-5-5		
35	S	9-12-13		
40	S	16-16-16		

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 15-I

PROJECT: AWTC

LOCATION: Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: S. Colton
DATE: November 2, 1988

Ground Elevation: 7.5 feet
Top of Well Elev.: 10.07 feet
Depth of Well: 51.5 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
45	S	10-15-21	Brown coarse SAND, trace clay	
50	S	11-15		
			Bottom of Boring = 51.5'	2" STAINLESS-STEEL SAND TRAP
55				
60				
65				
70				
75				
80				

LOG OF BORING MW 15-D

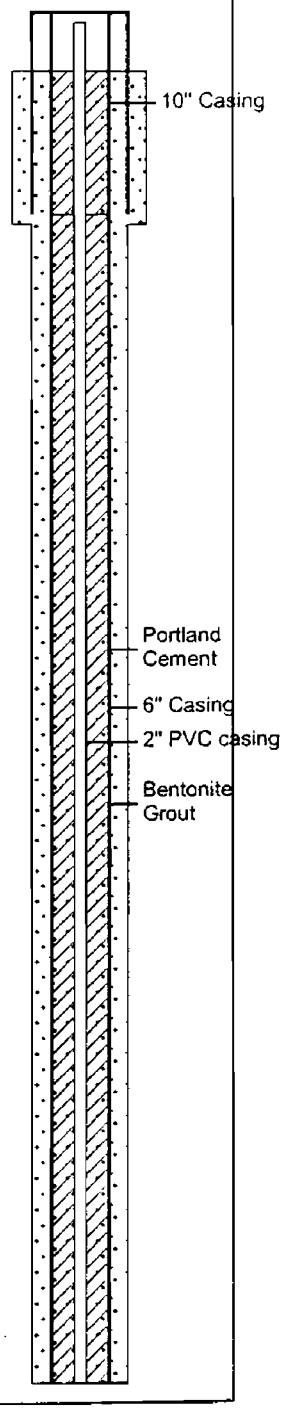
QST ENVIRONMENTAL

Alabama State Docks
AWTC Site
Mobile, Alabama

Date Completed	: 4/30/98	Driller	: Charlie Wycoff
Hole Diameter	: 10 in	Surface Elev.	: 7.99
Drilling Method	: Mud Rotary	Logged By:	:
Sampling Method	: Split Spoon	Northing:	: 243315.051
Drilling Company	: G & E Services	Easting:	: 1799934.312

Depth in Feet	DESCRIPTION	USCS	GRAPHIC	Samples	Blow Count	Blow Count Graph (0 20 40 60 80)	Water Levels
0	SILTY SAND						
2	light gray sand and shale						
	Fine grained, drk. brown						
4	Fine grained, orangish brown						
	wet, gray sand			1	4 5 7		
6							
8							
10							
12							
14				2	4 5 7		
	Gray, fine grain, silty, quartz sand (Slightly clayey at top of spoon from +/- 10' interval.)						
16							
18		SM					
		SW					
20							
22							
24				3	3 3 3		
	Same as above with <10% shell fragments	SP					
26							
28							
30							
32							
34				4	13		
	SAND, Well Graded, Gray to white, fine to medium grained, well sorted, quartz sand						
36							
	SAND, Poorly Graded, medium to coarse grained, poorly sorbed, light gray to dirty white sand. (Slight gravelly content; ,5% pebbles 1/16" diameter)						
38							
40							
42							
44				5	14 17 17 17		
46							

Well: MW-15D
Elev.: 10.30



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LOG OF BORING MW 15-D

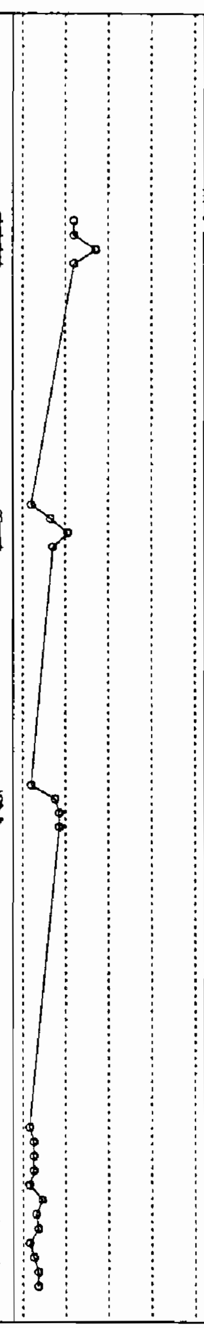
QST ENVIRONMENTAL

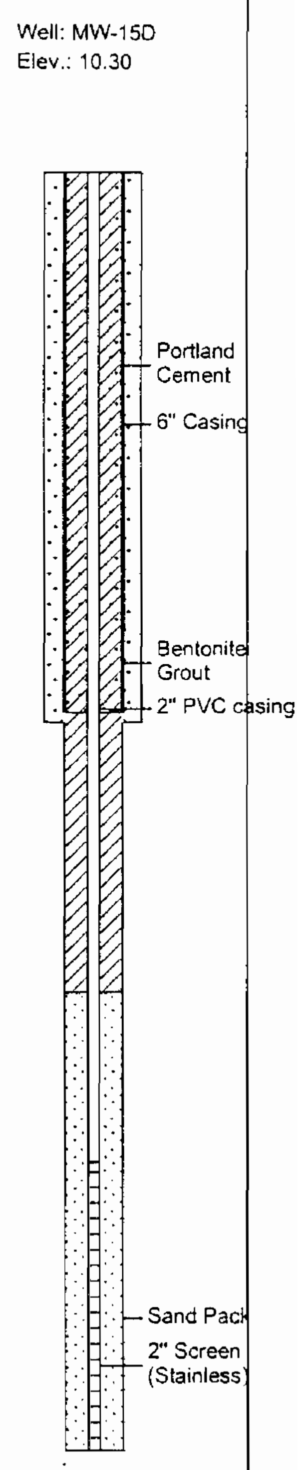
Alabama State Docks
AWTC Site
Mobile, Alabama

Date Completed	: 4/30/98	Driller	: Charlie Wycoff
Hole Diameter	: 10 in	Surface Elev.	: 7.99
Drilling Method	: Mud Rotary	Logged By:	:
Sampling Method	: Split Spoon	Northing:	: 243315.051
Drilling Company	: G & E Services	Easting:	: 1799934.312

Depth in Feet	DESCRIPTION	USCS	Samples	Blow Count
46–84	Varicolored (gray/brown/reddish tan) coarse grained, gravelly sand; pebbles up to 1/8" dia - mostly subangular	SP	6	24, 24, 34, 24
	Sand, medium to dark gray, coarse, poorly sorted with little gravelly content. Few pebbles - 1 large (1/2") phosphate/chert nodule.	SP	7	4, 13, 21, 14
	Light to dark brown (reddish brown, very coarse sand, poorly sorted with small pebbles throughout gravelly)	SP	8	4, 15, 17, 17
85–87	CLAYEY SAND, silty caly stiff, dry, gray/green; 10% quartz	CL	9	3 [illegible]
87–89	SAND, Poorly Graded, SILTY SAND, gray to greenish-gray	SP/SM	10	[illegible]
89–92		CL	11	[illegible] 7

Blow Count Graph (0, 20, 40, 60, 80)





KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 16-I

PROJECT: AWTC .

LOCATION: Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: K.H. STROEBEL
DATE: November 15, 1988

Ground Elevation: 6.8 feet
Top of Well Elev.: 9.91 feet
Depth of Well: 53 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
0	G		Brown to gray fine to medium SAND	
5	S	1-2-3		
	S	4-3-4		
10	S	5-5-8		
	S	3-6-9	Gray fine to medium SAND, trace clay	
15				
	S	12-9-10		
20				
	S	11-12-[illegible]		
25				
	S	11-14-[illegible]	Brown fine to medium SAND	
30				
	S	8-12-18	Brown fine to medium SAND, slight creosote odor	
35				
	S	9-16-24	White - gray fine SAND, slight creosote odor	
40				

KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 16-I

PROJECT: AWTC .

LOCATION: Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: K.H. STROEBEL
DATE: November 15, 1988

Ground Elevation: 6.8 feet
Top of Well Elev.: 9.91 feet
Depth of Well: 53 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
45	S	12-18 -22	White-gray fine SAND, slight creosote odor	
50	S	14-20 -25		
			Bottom of Boring = 53'	2" STAINLESS-STEEL SAND TRAP
55				
60				
65				
70				
75				
80				

KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 16 - D

PROJECT: AWTC- Phase II **LOCATION:** Mobile, AL

DRILLING METHOD:Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: M. Valesky & J. ZUBROW
DATE: September 13, 1989

Ground Elevation: 7.12 feet
Top of Well Elev.: 9.05 feet
Depth of Well: 106 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
12" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
5			SEE LOG OF WELL 16-I FOR GEOLOGIC DESCRIPTION FROM 0-50'	
10				
15				
20				
25				
30				
35				
40				

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 16 - D

PROJECT: AWTC- Phase II **LOCATION:** Mobile, AL

DRILLING METHOD:Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.
GEOLOGIST: M. Valesky & J. ZUBROW
DATE: September 13, 1989

Ground Elevation: 7.12 feet
Top of Well Elev.: 9.05 feet
Depth of Well: 106 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT
SCREEN
6" PVC Casing
12" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
45			SEE LOG OF WELL 16-I FOR GEOLOGIC DESCRIPTION FROM 0-50'	
50				
55	S	11 12 17		
60	S	12 14 14	White fine to medium to coarse SAND, slight creosote-like odor	
65	S	12 12 21		
70	S	15 22 28		
75	S	N/A		
80	S	5 8 14	White medium to coarse to fine SAND, trace silt, trace fine gravel, slight creosote-like odor	

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 16 - D

PROJECT: AWTC- Phase II **LOCATION:** Mobile, AL

DRILLING METHOD:Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.
GEOLOGIST: M. Valesky & J. ZUBROW
DATE: September 13, 1989

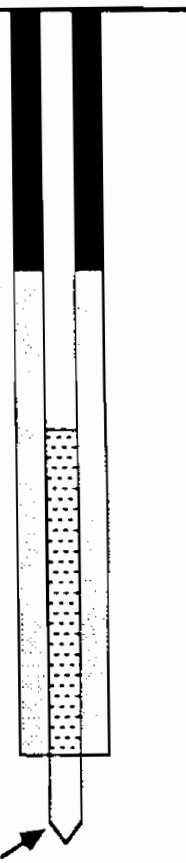
Ground Elevation: 7.12 feet
Top of Well Elev.: 9.05 feet
Depth of Well: 106 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT
SCREEN
6" PVC Casing
12" PVC Casing

Depth	Sample	SPT Blow Counts	Description
			Gray-white medium to coarse to fine SAND, trace silt, trace fine gravel, slight creosote-like odor
			Gray Silty CLAY
85	S	5 9 22	Gray medium to fine to coarse SAND, little silt
90	S	8 10 20	
95	S	29 30 40	Gray -white medium to coarse to fine SAND, trace silt, trace gravel
100	S	19 30 26	
105	S	Pushed	Gray Silty CLAY
			Bottom of Boring = 106.5'
110			
105			
120			

Construction



KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 17-S

PROJECT: AWTC **LOCATION:** Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.
GEOLOGIST: K.H. STROEBEL
DATE: November 3, 1988

Ground Elevation: 7.5 feet
Top of Well Elev.: 10.37 feet
Depth of Well: 15 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
5			See Description for Well 17-I Log	
10				
15			Bottom of Boring = 17'	2" STAINLESS-STEEL SAND TRAP
20				
25				
30				
35				
40				

ABANDONED

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 17-I

PROJECT: AWTC **LOCATION:** Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.
GEOLOGIST: S. Colton
DATE: November 9, 1988

Ground Elevation: 7.5 feet
Top of Well Elev.: 9.92 feet
Depth of Well: 50 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
0	G		Tan to gray fine to medium grained SAND, wood fragments, oily @ 3.5', creosote odor	
5	S		Black fine to medium grained SAND, heavy oil fraction present in pore space	
	S			
10	S			
	S		Brown-gray Silty CLAY, little fine to medium sand, oily	
	S		Brown-gray Silty CLAY, small heavy oil pockets @15-16.5' little organic matter (wood fibers)	
15	S			
	S			
20			Gray CLAY, trace organic matter (wood fibers), very stiff	
	S			
25				
	S	5-3-6		
30			Brown fine to medium SAND, trace silt, odor	
	S	9-13-21		
35				
	S	11-22-27		
40				

ABANDONED

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 17-I

PROJECT: AWTC **LOCATION:** Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.
GEOLOGIST: S. Colton
DATE: November 9, 1988

Ground Elevation: 7.50 feet
Top of Well Elev.: 9.92 feet
Depth of Well: 50 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT
SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
40				
	S	15-27-35	Brown fine to medium Sand, trace silt faint creosote odor	
45				
	S	10-17-23		
50			Gray to white fine Sand, faint creosote odor	
			Bottom of Boring = 50'	
55				
60				
65				
70				
75				
80				

2" STAINLESS-STEEL SAND TRAP

KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 17 - D

PROJECT: AWTC- Phase II **LOCATION:** Mobile, AL

DRILLING METHOD:Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: J. ZUBROW
DATE: September 7, 1989

Ground Elevation: 7.98 feet
Top of Well Elev.: 9.77 feet
Depth of Well: 106 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
12" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
5			SEE LOG OF WELL 17-I FOR GEOLOGIC DESCRIPTION FROM 0-50'	
10				
15				
20				
25				
30				
35				
40				

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 17 - D

PROJECT: AWTC- Phase II **LOCATION:** Mobile, AL

DRILLING METHOD:Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.
GEOLOGIST: J. ZUBROW
DATE: September 7, 1989

Ground Elevation: 7.98 feet
Top of Well Elev.:9.77 feet
Depth of Well: 106 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
12" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
			SEE LOG OF WELL 17-I FOR GEOLOGIC DESCRIPTION FROM 0-50'	
50	S	13 14 16	Gray to white fine to medium SAND, little silt, creosote like odor	
55	S	23 43 40	Gray to brown medium to fine to coarse SAND, little silt, creosote like odor, light oil sheen	
60	S	8 20 23		
65	S	7 12 13	Brown to orange medium to fine to coarse SAND, trace gravel, trace silt, creosote-like odor	
70	S	14 13 13	Gray to white medium to fine to coarse SAND, trace gravel, trace silt, creosote-like odor	
75	S	16 29 35	Brown medium to fine to coarse SAND, trace silt, pore space saturated with non-aqueous phase liquid (creosote)	
80	S		Gray to white medium to fine SAND, some silt	

KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 17 - D

PROJECT: AWTC- Phase II **LOCATION:** Mobile, AL

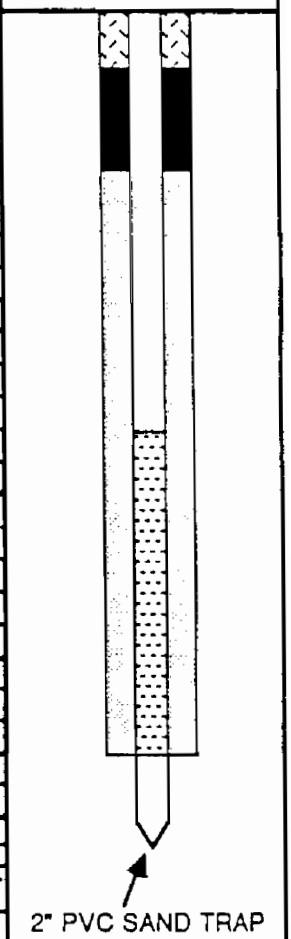
DRILLING METHOD:Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.
GEOLOGIST: J. ZUBROW
DATE: September 7, 1989

Ground Elevation: 7.98 feet
Top of Well Elev.: 9.77 feet
Depth of Well: 106 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT
SCREEN
6" PVC Casing
12" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
85	S	2 13 15	Gray fine to medium SAND, little silt, slight creosote-like odor	
90	S	23 40 54	Gray to white medium to fine to coarse SAND, little silt, slight creosote like odor	
			Gray Silty CLAY	
95	S	12 23 28	Gray to white medium to coarse to fine SAND, little silt, very slight creosote like odor	
100	S	28 48 50		
105	S	Push	Gray Silty CLAY	
			Bottom of Boring = 106.5'	
110				
115				
120				



ABANDONED

KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 18-S

PROJECT: AWTC **LOCATION:** Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: K.H. STROEBEL
DATE: November 2, 1988

Ground Elevation: 6.3 feet
Top of Well Elev.: 8.76 feet
Depth of Well: 15 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
5			SEE DESCRIPTION FOR WELL 18-I LOG	
10				
15				
			Bottom of Boring = 17.5'	
20				
25				
30				
35				
40				

2" STAINLESS-STEEL SAND TRAP

ABANDONED

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 18-I

PROJECT: AWTC

LOCATION: Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: K.H. STROEBEL
DATE: November 2, 1988

Ground Elevation: 6.3 feet
Top of Well Elev.: 8.79 feet
Depth of Well: 50 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
0	G		Brown to gray fine to medium SAND, slight creosote odor	
5	S			
	S		Brown to gray fine to medium SAND, trace coarse gravel, light oil fraction in pores, creosote odor	
10	S			
	S		Brown Silty CLAY, trace organic matter (wood chips and fibers), slight creosote odor	
15	S		Brown to gray CLAY, very faint creosote odor	
20	S			
25	S		Brown fine to medium SAND	
30	S			
35	S		White to gray fine to medium SAND	
40	S			

ABANDONED

KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 18-I

PROJECT: AWTC

LOCATION: Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: K.H. STROEBEL
DATE: November 2, 1988

Ground Elevation: 6.3 feet
Top of Well Elev.: 8.79 feet
Depth of Well: 50 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
40	S		Gray Silty CLAY, some fmc sand, slight creosote odor, light oil sheen	
	S		White to gray fmc SAND, slight creosote odor	
50	S		Bottom of Boring = 50'	2" STAINLESS - STEEL SAND TRAP
55				
60				
65				
70				
75				
80				

ABANDONED

KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 18 - D

PROJECT: AWTC- Phase II **LOCATION:** Mobile, AL

DRILLING METHOD:Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: K.H. STROEBEL
DATE: August 29, 1989 - September 1, 1989

Ground Elevation: 6.70 feet
Top of Well Elev.: 8.72 feet
Depth of Well: 101 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
12" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction

SEE LOG OF WELL 18-I FOR GEOLOGIC DESCRIPTION FROM 0-50'

ABANDONED

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 18 - D

PROJECT: AWTC- Phase II **LOCATION:** Mobile, AL

DRILLING METHOD:Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.
GEOLOGIST: K.H. STROEBEL
DATE: August 29, 1989 - September 1, 1989

Ground Elevation: 6.7 feet
Top of Well Elev.: 8.72 feet
Depth of Well: 101 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
12" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
45			SEE LOG OF WELL 18-I FOR GEOLOGIC DESCRIPTION FROM 0-50'	
50				
55	S	12 22 26	Gray fine to medium SAND, trace fine to medium gravel, slight creosote-like odor	
60	S	14 18 26		
65	S	29 35 30	Gray fine to medium SAND, trace fine to medium gravel	
70	S	18 25 23	Brown to gray fine to medium SAND, trace fine to medium gravel	
75	S	17 16 27	White to gray fine to medium SAND, trace fine to medium gravel	
80				

ABANDONED

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 18 - D

PROJECT: AWTC- Phase II **LOCATION:** Mobile, AL

DRILLING METHOD:Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.
GEOLOGIST: K.H. STROEBEL
DATE: August 29, 1989 - September 1, 1989

Ground Elevation: 6.7 feet
Top of Well Elev.: 8.72 feet
Depth of Well: 101 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT
SCREEN
6" PVC Casing
12" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
	S	10 24 27	White to gray, fine to medium to coarse SAND, trace fine to medium gravel, trace organic matter (wood fragments)	
85	S	13 14 21	Gray fine to medium to coarse SAND	
90	S	26 27 31	Yellow to gray, fine to medium to coarse SAND, trace fine to medium gravel, trace quartz pebbles	
95	S	32 50 50/4"		
100	S	6 10 14	Gray to white, fine to medium to coarse SAND, trace fine gravel	2" PVC SAND TRAP
105	S	Pushed	Gray to green CLAY	
110				

thompson ENGINEERING

AASHTO R18

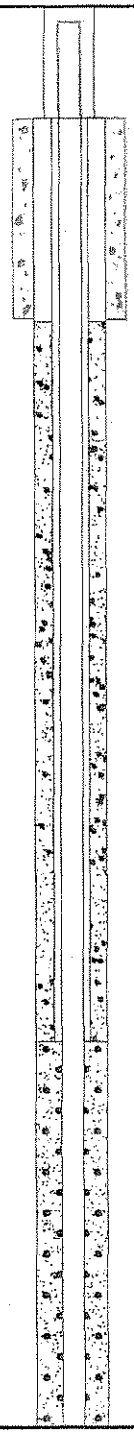
MONITORING WELL CONSTRUCTION DETAILS

CLIENT: Alabama State Port Authority **T.O.C ELEVATION:**

PROJECT: Ezra Trice Bypass Rail Track Project

JOB NO.: 10-2116-0125 **DATE DRILLED:** February 14 and 16, 2012 **GR. WATER DEPTH:** 4.5 feet btoc

BORING NO.: MWRS-18IR **LOCATION:** See Figure 2 **TYPE BORING:** Hollow Stem

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		See Monitoring Well Construction Log for MW-18DR	Highly-visible protective security casing 10 inch diameter PVC casing to 5.5 feet bgs 6 inch diameter PVC casing to 25 feet bgs 2 inch diameter PVC casing to 40	Grout	
5					
10					
15					
20					
25					
30					
35					

thompson ENGINEERING

AAP SM AASHTO R18

SOIL BORING LOG

CLIENT: Alabama State Port Authority

PROJECT: Ezra Trice Bypass Rail Track Project **DATUM:**

JOB NO.: 10-2116-0125 **DATE DRILLED:** February 14 and 16, 2012 **GR. WATER DEPTH:** 4.5 feet btoc

BORING NO.: MWRS-18IR **LOCATION:** See Figure 2 **TYPE BORING:** Hollow Stem

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
			feet bgs	Bentonite seal	
				Uniformly graded quartz sand filter pack	
40			2 inch diameter stainless steel casing (0.010 inch machine slotted intake) from 40 feet bgs to 50 feet bgs		
45					
50		B.T. @ 50 feet bgs			
55					
60					
65					
70					

thompson ENGINEERING

AAASHTO R18

MONITORING WELL CONSTRUCTION DETAILS

CLIENT: Alabama State Port Authority **T.O.C ELEVATION:**

PROJECT: Ezra Trice Bypass Rail Track Project

JOB NO.: 10-2116-0125 **DATE DRILLED:** February 9, 10, and 14, 2012 **GR. WATER DEPTH:** 9.8 feet btoc

BORING NO.: MWRS-18DR **LOCATION:** See Figure 2 **TYPE BORING:** Hollow Stem

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
			Highly visible protective security casing		
0		Dark SILTY SAND		Grout	
		Orange SILTY SAND	10 inch diameter PVC casing to 5 feet bgs		
		Orange CLAYEY SILTY SAND			
5		Orange CLAYEY SILT			
		Brown fine SAND with staining			
10					
		Brown SILTY CLAY with organics			
15					
		Green clean SILTY CLAY			
20					
		Brown and green SANDY CLAY			
25					
		Light gray to white fine SAND			
30					
		Fine CLAYEY SAND			
35					

thompson ENGINEERING

AAR SM AASHTO R18

SOIL BORING LOG

CLIENT: Alabama State Port Authority

PROJECT: Ezra Trice Bypass Rail Track Project **DATUM:**

JOB NO.: 10-2116-0125 **DATE DRILLED:** February 9, 10, and 14, 2012 **GR. WATER DEPTH:** 9.8 feet btoc

BORING NO.: MWRS-18DR **LOCATION:** See Figure 2 **TYPE BORING:** Hollow Stem

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
40		Gray and brown medium SAND			
45					
50					
55					
60		Orange fine SAND	6 inch diameter PVC casing to 68 feet bgs		
65					
70		Gray fine SAND			

thompson ENGINEERING

AASHTO R18

SOIL BORING LOG

CLIENT: Alabama State Port Authority

PROJECT: Ezra Trice Bypass Rail Track Project **DATUM:**

JOB NO.: 10-2116-0125 **DATE DRILLED:** February 9, 10, and 14, 2012 **GR. WATER DEPTH:** 9.8 feet btoc

BORING NO.: MWRS-18DR **LOCATION:** See Figure 2 **TYPE BORING:** Hollow Stem

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
75		Gray coarse SAND	2 inch diameter PVC casing to 40 feet bgs		
80					
85		Gray fine SILTY SAND			
90		Fine gray and yellow SAND		Bentonite seal	
95				Uniformly graded quartz sand filter pack	
100			2 inch diameter stainless steel casing (0.010 inch machine slotted intake) from 40 feet bgs to 50 feet bgs		
105		Gray stiff CLAY			
110		B.T. @ 105 feet bgs			

thompson ENGINEERING

AASHTO R18

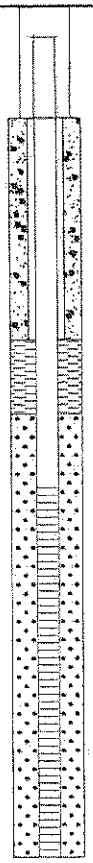
MONITORING WELL CONSTRUCTION DETAILS

CLIENT: Alabama State Port Authority **T.O.C ELEVATION:**

PROJECT: Ezra Trice Bypass Rail Track Project

JOB NO.: 10-2116-0125 **DATE DRILLED:** November 7, 2011 **GR. WATER DEPTH:** 6.7 feet btoc

BORING NO.: MW-19SR **LOCATION:** See Figure 2 **TYPE BORING:** Hollow Stem

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		See attached original well log	Highly visible protective security casing 10 inch diameter PVC casing to 5 feet bgs 2 inch diameter PVC casing to 10 feet bgs 2 inch diameter stainless steel casing (0.010 inch machine slotted intake) from 10 feet bgs to 20 feet bgs	Grout Bentonite seal Uniformly graded quartz sand filter pack	
5					
10					
15					
20		B.T. @ 20 feet bgs			
25					
30					
35					

ABANDONED

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 19 - S

PROJECT: AWTC - Phase II **LOCATION:** Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.
GEOLOGIST: K.H. STROEBEL
DATE: September 30, 1989

Ground Elevation: 7.77 feet
Top of Well Elev.: 10.27 feet
Depth of Well: 20 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

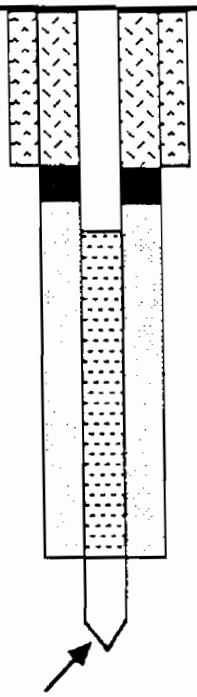
Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" Casing
10" Casing

Depth	Sample	SPT Blow Counts	Description
0	G		Brown to yellow to gray, fine to medium SAND, trace clay
5	S	4-3-2	
	S	4-4-3	Brown to gray SILTY CLAY, trace very fine sand, trace organic matter (wood)
10	S	2-1-1	
	S	3-5-4	Gray fine to medium SAND
15	S	5-4-2	
	S	3-2-2	Dark gray SILT & CLAY, trace very fine sand
20	S	1-2-2	Dark gray SILTY CLAY, trace very fine sand, trace organic matter (wood fragments)
	S	3-5-7	Gray to yellow, fine to medium SAND
25			Bottom of Boring = 24'
30			
35			
40			

Construction



ABANDONED

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 19 - I

PROJECT: AWTC - Phase II **LOCATION:** Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.
GEOLOGIST: K.H. STROEBEL
DATE: August 31, 1989

Ground Elevation: 7.63 feet
Top of Well Elev.: 10.25 feet
Depth of Well: 53 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT
SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
5			SEE LOG OF WELL 19-S FOR GEOLOGIC DESCRIPTION FROM 0-25'	
10				
15				
20	S			
25	S	WOH/12		
	S	1	Gray to yellow, fine to medium SAND	
30	S	2-9-8		
35	S	13-16		
		24	Gray fine to medium to coarse SAND	
40				

ABANDONED

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 19 - I

PROJECT: AWTC - Phase II **LOCATION:** Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.
GEOLOGIST: K.H. STROEBEL
DATE: August 31, 1989

Ground Elevation: 7.63 feet
Top of Well Elev.: 10.25 feet
Depth of Well: 53 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT
SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
	S	8 17 22	Gray fine to medium to coarse SAND	
45	S	14 19 27	White fine to medium to coarse SAND, trace fine gravel, trace pebbles	
50	S	12 19 24	Bottom of Boring = 51.5'	
55				2" PVC SAND TRAP
60				
65				
70				
75				
80				

KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 20 - I

PROJECT: AWTC - Phase II **LOCATION:** Mobile, AL

DRILLING METHOD:Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: M. VALESKY
DATE: September 7, 1989

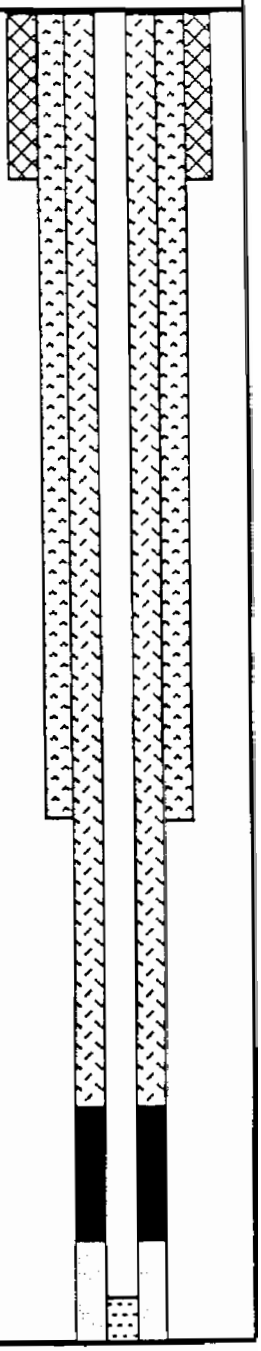
Ground Elevation: 7.25 feet
Top of Well Elev.: 9.42 feet
Depth of Well: 53 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description
	G		Gray fine to medium SAND, trace silt
5	S	2-1-2	Dark gray SILT & CLAY, trace fine sand, creosote oil in pore spaces
	S	3-2-1	Dark brown fine to medium to coarse SAND
10	S	2-2-1	Gray SILT & CLAY, trace organic matter (wood fragments), creosote staining in pore spaces
	S	1-2-1	
15	S	2-1-2	
	S	1 3 3	
20			
	S	2 2 5	Gray fine to medium to coarse SAND, creosote like odor
25			
	S	7 8 10	
30			
	S	5 12 15	-pore space saturated with creosote oil at 33.5'-35'
35			
	S	5 10 14	
40			



KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 20 - I

PROJECT: AWTC - Phase II **LOCATION:** Mobile, AL

DRILLING METHOD:Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: M. VALESKY
DATE: September 7, 1989

Ground Elevation: 7.25 feet
Top of Well Elev.: 9.42 feet
Depth of Well: 53 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
45	S		Gray fine to medium to coarse SAND, creosote like odor	2" PVC SAND TRAP
50	S			
55	S		Bottom of Boring = 55'	
60				
65				
70				
75				
80				

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 21 - S

PROJECT: AWTC - Phase II **LOCATION:** Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: J. ZUBROW
DATE: September 5, 1989

Ground Elevation: 8.53 feet
Top of Well Elev.: 9.92 feet
Depth of Well: 20 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" Casing
10" Casing

Depth	Sample	SPT Blow Counts	Description	Construction
5	G		Dark brown fine to medium SAND, some silt, creosote like odor, oily patches	
	S	2-3-7		
10	S	1-2-3	Brown medium to fine to coarse SAND, little silt, slight creosote like odor	
	S	1-1-2	Gray-green sandy SILT, some clay, creosote like odor, oily patches	
15	S	2-3-4	Dark brown to gray Silty CLAY, some organic matter (wood, plant fibers)	
	S	1-2-3	Gray-green Silty CLAY, trace organic matter (wood, plant fibers)	
20	S	1-2-4	Gray-green CLAY, trace organic matter	
			Bottom of Boring = 20'	2" PVC SAND TRAP
25				
30				
35				
40				

KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 21 - I

PROJECT: AWTC - Phase II **LOCATION:** Mobile, AL

DRILLING METHOD:Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.
GEOLOGIST: J. ZUBROW
DATE: September 9, 1989

Ground Elevation: 8.55 feet
Top of Well Elev.: 10.04 feet
Depth of Well: 50.5 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
			SEE LOG OF WELL 21-S FOR GEOLOGIC DESCRIPTION FROM 0-20'	
20	S		Light gray-green Clayey SILT, trace very fine sand	
25	S	1 2 3	Light gray-green Sandy SILT, trace clay, creosote like odor, oily patches Gray Silty CLAY lens from 28.5' -28.8'	
30	S	4 10 10	Orange-brown fine to medium SAND, some silt	
35	S	9 14 14	Gray-white medium to fine to coarse SAND, litle silt, very slight creosote like odor	
40	S	12 19 28	Gray-brown medium to coarse to fine SAND, little silt, trace gravel	

KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 21 - I

PROJECT: AWTC - Phase II **LOCATION:** Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.
GEOLOGIST: J. ZUBROW
DATE: September 9, 1989

Ground Elevation: 8.55 feet
Top of Well Elev.: 10.04 feet
Depth of Well: 50.5 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
			Gray-brown medium to coarse to fine SAND, trace gravel	
45	S	13 19 24	Gray-white medium to coarse to fine SAND, trace silt, very slight creosote like odor	
50	S	17 16 20	Bottom of Boring = 50.5'	2" PVC SAND TRAP
55				
60				
65				
70				
75				
80				

ABANDONED

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 22 - S

PROJECT: AWTC - Phase II **LOCATION:** Mobile, AL

DRILLING METHOD:Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.
GEOLOGIST: J. ZUBROW
DATE: September 8, 1989

Ground Elevation: 8.72 feet
Top of Well Elev.: 10.96 feet
Depth of Well: 20.5 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

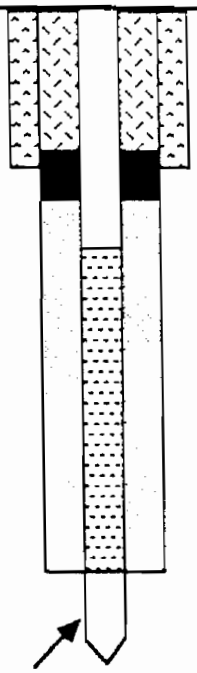
Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" Casing
10" Casing

Depth	Sample	SPT Blow Counts	Description
5			White to gray fine to medium SAND, trace silt
10	S	1-1-1	Dark gray-brown Clayey SILT, trace fine sand, trace organic matter (plant material), creosote like odor, oily patches
	S	3-5-4	Dark gray medium to fine to coarse SAND, trace silt, creosote like odor, oily patches
15	S	3-4-1	Gray fine to medium SAND, little silt, creosote like odor, oily patches
	S	2-2-2	Gray-orange SILT & CLAY, some fine sand, creosote like odor
20	S	5-5-8	Gray Silty SAND, creosote like odor, oily patches
			Bottom of Boring = 20.5'
25			
30			
35			
40			

Construction



2" STAINLESS-STEEL SAND TRAP

KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 23 -I

PROJECT: AWTC - Phase II **LOCATION:** Mobile, AL

DRILLING METHOD:Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: M. VALESKY
DATE: September 6, 1989

Ground Elevation: 9.16 feet
Top of Well Elev.: 11.18 feet
Depth of Well: 48.5 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction

SEE LOG OF WELL 23-D FOR GEOLOGIC DESCRIPTION FROM 0-53'

KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 23 -I

PROJECT: AWTC - Phase II **LOCATION:** Mobile, AL

DRILLING METHOD:Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: M. VALESKY
DATE: September 6, 1989

Ground Elevation: 9.16 feet
Top of Well Elev.: 11.18 feet
Depth of Well: 48.5 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
45			SEE LOG OF WELL 23-D FOR GEOLOGIC DESCRIPTION FROM 0-53'	2" PVC SAND TRAP
50				
			Bottom of Boring = 53'	
55				
60				
65				
70				
75				
80				

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 23 - D

PROJECT: AWTC- Phase II **LOCATION:** Mobile, AL

DRILLING METHOD:Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: M. VALESKY/K.H. STROEBEL
DATE: September 9, 1989-September 14, 1989

Ground Elevation: 9.11 feet
Top of Well Elev.:11.01 feet
Depth of Well: 101 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

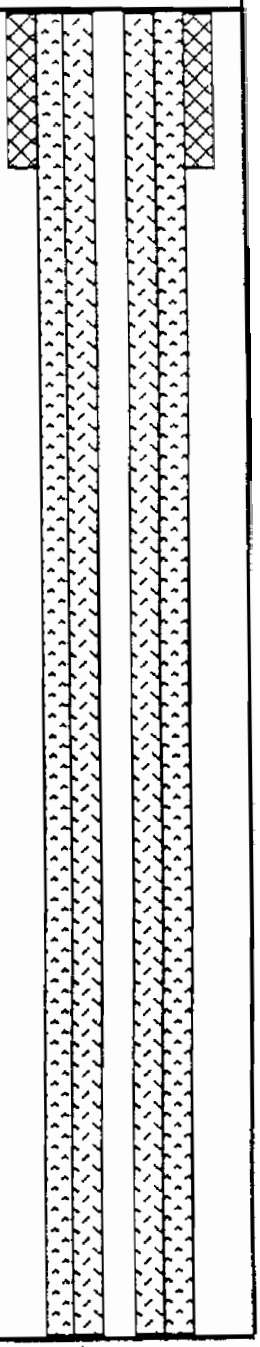
Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
12" PVC Casing

Depth	Sample	SPT Blow Counts	Description
5	G		Dark gray fine to medium SAND, some organic matter (wood)
	S	2-1-2	
10	S	1-2-1	Dark gray fine SAND and SILT, trace organic matter (wood fragments)
	S	1-2-3	
15	S	2-1-2	Dark gray fine SAND, some silt, trace organic matter (wood fragments)
	S	2-1-2	
20	S	1-1-1	
25	S	6 10 16	White-gray fine to medium to coarse SAND, trace silt, trace gravel
30	S	5 8 7	
35	S	3 3 5	Gray fine to medium to coarse SAND
40	S	7 8 11	- slight creosote like odor noted in sample from 38.5'-40'

Construction



KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 23 - D

PROJECT: AWTC- Phase II **LOCATION:** Mobile, AL

DRILLING METHOD:Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: M. VALESKY/K.H. STROEBEL
DATE: September 9, 1989-September 14, 1989

Ground Elevation: 9.11 feet
Top of Well Elev.: 11.01 feet
Depth of Well: 101 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
12" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
45	S	7 8 11	Dark gray fine to medium SAND, some organic matter (wood)	
50	S	8 11 14	Dark gray fine SAND and SILT, trace organic matter (wood fragments)	
55	S	9 9 10	Dark gray fine SAND, some silt, trace organic matter (wood fragments)	
60	S	6 10 16		
65	S	4 5 5		
70	S	15 28 36	White-gray fine to medium to coarse SAND, trace silt, trace gravel	
75	S	28 33 30		
80	S	4 6 11	Gray coarse to medium to fine SAND, some fine gravel	

KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 23 - D

PROJECT: AWTC- Phase II **LOCATION:** Mobile, AL

DRILLING METHOD:Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: M. VALESKY/K.H. STROEBEL
DATE: September 9, 1989-September 14, 1989

Ground Elevation: 9.11 feet
Top of Well Elev.: 11.01 feet
Depth of Well: 101 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
12" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
85	S	14 23 21	White coarse to medium SAND, trace fine gravel, trace pebbles	
90	S	16 19 32		
95	S	11 21 32	White fine to medium to coarse SAND	
100	S	29 50/5"		
			Green-gray CLAY	2" PVC SAND TRAP
105	S			
			Bottom of Boring = 107'	
110				

ABANDONED

KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 25 - S

PROJECT: AWTC - Phase II **LOCATION:** Mobile, AL

DRILLING METHOD:Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: M. VALESKY
DATE: August 30, 1989

Ground Elevation: 8.28 feet
Top of Well Elev.: 9.82 feet
Depth of Well: 18 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" Casing
10" Casing

Depth	Sample	SPT Blow Counts	Description	Construction
5			SEE LOG OF WELL 25-I FOR GEOLOGIC DESCRIPTION	
10				
15				
			Bottom of Boring = 18'	2" PVC SAND TRAP
20				
25				
30				
35				
40				

KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 25 - I

PROJECT: AWTC - Phase II **LOCATION:** Mobile, AL

DRILLING METHOD:Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: M. VALESKY
DATE: August 30-31, 1989

Ground Elevation: 8.32 feet
Top of Well Elev.: 10.46 feet
Depth of Well: 53 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
	G		Gray fine to medium SAND, trace silt	
5	S	WOH/6 1-1	Dark gray SILT & CLAY, trace organic matter (peat)	
	S	WOH/6 1-2		
10			Brown to gray SILT & fine to medium SAND, some clay	
	S	3-2-2	Brown to gray, fine to medium SAND, trace silt	
	S	2-2-2		
15				
	S	1/18"	Brown to gray SILT & fine SAND, trace shell fragments, trace organic matter (wood fragments)	
20				
	S	2 2 2		
25				
	S	10 11 15	Gray to brown, fine to medium to coarse SAND, creosote like odor	
30				
	S	8 12 15		
35				
	S	9 13 17		
40				

KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 25 - I

PROJECT: AWTC - Phase II **LOCATION:** Mobile, AL

DRILLING METHOD:Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: M. VALESKY
DATE: August 30-31, 1989

Ground Elevation: 8.28 feet
Top of Well Elev.: 10.46 feet
Depth of Well: 53 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
			White to brown medium to coarse SAND, some gravel	
45	S	16 24 28		
			Gray to brown fine to medium to coarse SAND, some fine gravel, creosote like odor	
50	S	10 13 17		
			Bottom of Boring = 53'	2" PVC SAND TRAP
55				
60				
65				
70				
75				
80				

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 26 - I

PROJECT: AWTC - Phase II **LOCATION:** Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.
GEOLOGIST: M. VALESKY
DATE: August 31 - September 1, 1989

Ground Elevation: 8.07 feet
Top of Well Elev.: 10.18 feet
Depth of Well: 53 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT
SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description
0	G		Gray fine to medium SAND
5	S	WOH/6" 1-2	Dark brown SILT & CLAY, trace fine sand
10	S	1-2-3	Dark gray fine SAND, some organic matter (wood fragments)
	S	2-3-3	
15	S	3-2-2	Dark gray fine SAND, trace organic matter (wood fragments)
	S	1-1-2	
20	S	WOH/18"	Dark gray to black fine SAND, some silt, trace shell fragments
25	S	5 3 4	Gray fine to medium SAND, some shell fragments
30	S	4 3 6	Brown medium to fine to coarse SAND, slight hydrocarbon fuel like odor
35	S	8 9 17	Yellow to brown, medium to fine SAND, slight hydrocarbon fuel like odor
40	S	3 4 12	

Construction

KEYSTONE
ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 26 - I

PROJECT: AWTC - Phase II **LOCATION:** Mobile, AL

DRILLING METHOD: Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.
GEOLOGIST: M. VALESKY
DATE: August 31 - September 1, 1989

Ground Elevation: 8.07 feet
Top of Well Elev.: 10.18 feet
Depth of Well: 53 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
10" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
45	S	7 9 12	Yellow to brown, medium to fine SAND, slight hydrocarbon like (fuel oil) odor	
50	S	10 15 14		
			Bottom of Boring = 53'	2" PVC SAND TRAP
55				
60				
65				
70				
75				
80				

ABANDONED

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 27 - D

PROJECT: AWTC- Phase II **LOCATION:** Mobile, AL

DRILLING METHOD:Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.

GEOLOGIST: K.H. STROEBEL
DATE: September 12, 1989

Ground Elevation: 8.95 feet
Top of Well Elev.: 10.94 feet
Depth of Well: 100 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT

SCREEN
6" PVC Casing
12" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
5	G		Dark gray fine SAND, some silt, creosote stained soils	
	S	2-1-1		
10	S	2-2-2	Brown Organic Matter (peat)	
	S	2-3-3	Dark gray very fine SAND, some silt	
15	S	1-0-1		
	S	1-1-1	Dark gray very fine SAND and SILT, trace shell fragments	
20	S	2-2-4		
25	S	6 6 9		
30	S	11 14 14	Gray fine to medium SAND, some silt, creosote like odor present - creosote oil present 28.5'-30'	
35	S	7 11 18		
40	S	13 20 24	Brown fine to medium to coarse SAND, creosote like oil in pore space, creosote like odor	

ABANDONED

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 27 - D

PROJECT: AWTC- Phase II **LOCATION:** Mobile, AL

DRILLING METHOD:Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.
GEOLOGIST: J. ZUBROW / M. VALESKY
DATE: September 12, 1989

Ground Elevation: 8.95 feet
Top of Well Elev.: 10.94 feet
Depth of Well: 100 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT
SCREEN
6" PVC Casing
12" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
			Brown fine to medium to coarse SAND, creosote like oil in pore space, creosote like odor	
45	S	12 19 19	Gray-white medium to fine to coarse SAND,trace fine gravel	
50	S	5 10 13		
55	S	17 21 21	Gray-white medium to fine to coarse SAND, little silt, creosote like odor, heavy oil patch at 55'	
60	S	11 17 21		
65	S	19 15 23	Brown medium to coarse to fine SAND, trace silt, trace fine gravel, creosote like odor	
70	S	17 18 26	- heavy oil patch at 69.5'	
75	S	14 15 20		
	S	8 15 19	Gray to brown medium to fine to coarse SAND, slight creosote like odor	
80			Red-brown medium to fine SAND, little silt	

ABANDONED

KEYSTONE ENVIRONMENTAL RESOURCES, INC.

WELL LOG: 27 - D

PROJECT: AWTC- Phase II **LOCATION:** Mobile, AL

DRILLING METHOD:Mud Rotary
DRILLER: Ware Lind Furlow Engineers, Inc.
GEOLOGIST: J. ZUBROW / M. VALESKY
DATE: September 12, 1989

Ground Elevation: 8.95 feet
Top of Well Elev.: 10.94 feet
Depth of Well: 100 feet
Casing Material: 2" I.D. PVC
Screen: 2" I.D. St. Steel, #10 Slot

Sample Collection
G-grab
S-split spoon
T-shelby tube
C-rock core

GRAVEL PACK
BENTONITE
GROUT
SCREEN
6" PVC Casing
12" PVC Casing

Depth	Sample	SPT Blow Counts	Description	Construction
			Red-brown medium to fine SAND, little silt	
85	S	14 28 36	Gray to white, medium to coarse to fine SAND, trace silt, creosote like odor	
90	S	11 20 30	Brown to gray, medium to coarse to fine SAND, trace silt, trace fine gravel, very slight creosote like odor	
95	S	23 45 40	Gray medium to fine to coarse SAND, trace silt, saturated with heavy oil from 94.5' to 95'	
100	S	1 4 7	Gray Silty CLAY Bottom of Boring = 100.5'	2" PVC SAND TRAP
105				
110				
115				
120				

ABANDONED

QST ENVIRONMENTAL

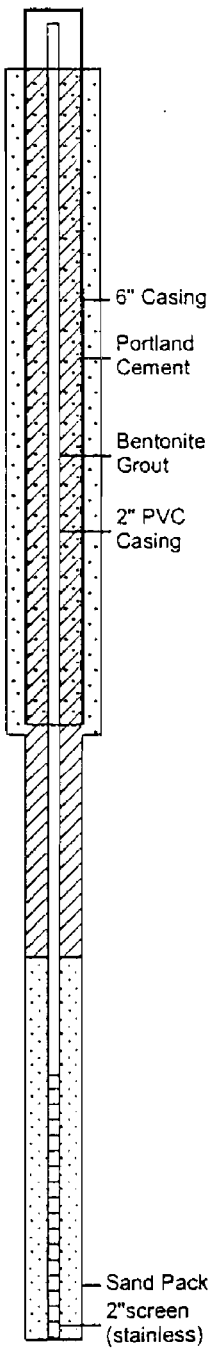
LOG OF BORING MW 30-I

Alabama State Docks
AWTC Site
Mobile, Alabama

Date Completed	: 5/1/98	Driller	: Charlie Wycoff
Hole Diameter	: 10 in	Surface Elev.	: 9.54
Drilling Method	: Mud Rotary	Logged By:	: D. Smoak
Sampling Method	: Split Spoon	Northing:	: 242975.595
Drilling Company	: G & E Services	Easting:	: 1797619.157

Depth in Feet	DESCRIPTION	USCS	GRAPHIC	Samples	Blow Count	Blow Count Graph (0 20 40 60 80)	Water Levels
0	SEE BORING LOG FOR MW 30-D						
2							
4							
6							
8							
10							
12							
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							
36							
38							
40							
42							
44							
46							
48							
50							

Well:
Elev.: 11.27



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ABANDONED

QST ENVIRONMENTAL

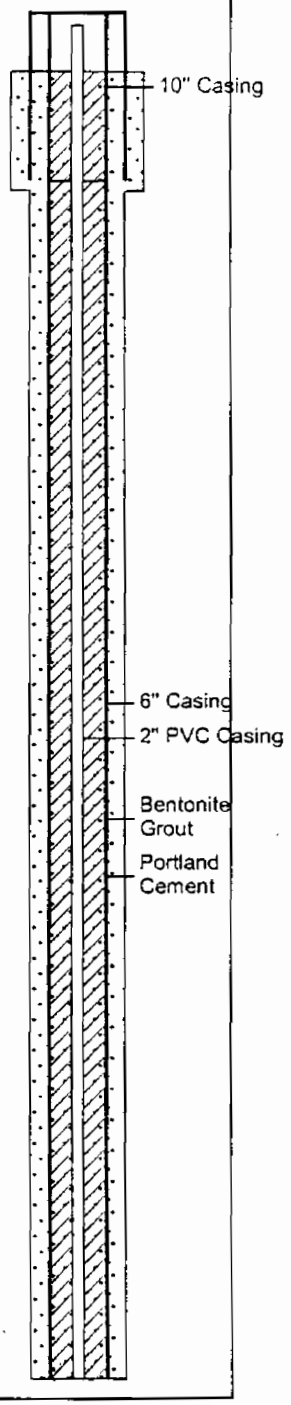
LOG OF BORING MW 30-D

Alabama State Docks
AWTC Site
Mobile, Alabama

Date Completed	: 5/1/98	Driller	: Charlie Wycoff
Hole Diameter	: 10 in	Surface Elev.	: 9.52
Drilling Method	: Mud Rotary	Logged By:	: D, Smoak
Sampling Method	: Split Spoon	Northing:	: 242972.542
Drilling Company	: G & E Services	Easting:	: 1797623.509

Depth in Feet	DESCRIPTION	USCS	GRAPHIC	Samples	Blow Count	Blow Count Graph (0 20 40 60 80)	Water Levels
0 - 12	SILTY SAND, slightly clayey, fine grained tan and reddish brown sand.	SM		1	8 22		
14 - 32	Dark gray, slightly sandy, plastic clay; slight tarry odor. Light gray, v. slight sand content, fat, slight clay - sheen came up during first samples.	CL		2 3	1 2		
34 - 42	SAND, Well Graded, Tan and light brown, medium grained, well sorted sand.	SW		4	5 5		
44 - 60	SAND, Poorly Graded, Same as above, light brown to white, medium to coarse grained. Medium brown and tan, medium to coarse grained silica sand with larger pebbles (quartz).	SP		5 6	2 9 15 24		

Well: MW-30D
Elev.: 11.64



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ABANDONED

QST ENVIRONMENTAL

LOG OF BORING MW 30-D

Alabama State Docks
AWTC Site
Mobile, Alabama

Date Completed	: 5/1/98	Driller	: Charlie Wycoff
Hole Diameter	: 10 in	Surface Elev.	: 9.52
Drilling Method	: Mud Rotary	Logged By:	: D. Smoak
Sampling Method	: Split Spoon	Northing:	: 242972.542
Drilling Company	: G & E Services	Easting:	: 1797623.509

Depth in Feet	DESCRIPTION	USCS	Samples	Blow Count
60				
62				
64	Very coarse, reddish brown, gravelly sand, subangular to sub-rounded fragments (Quartz) up to 1/4" to 1/2" diameter.		7	15 17 20
66				
68				
70				
72				
74	Dark brown, very coarse grained sand, few fragments from 1/16" tp 1/8" diameter - slight tarry odor.		8	15 24
76		SP		
78				
80				
82				
84				
86	Coarse gr., tan to dirty white w/ pebbles		9	14 27
88	s.a.a. - sl. odor, lt. brown, crs sand		10	35 35
90	clay, stiff, moist pliable, gray-green, silty		11	14 14
92	Sand, crs grained, drk. gray		12	10 11
94	SAND, Poorly Graded, GRAVEL, Well Graded, v. coarse grained, trace gravel, gray	SP/GV	13	12
96	SAND, Poorly Graded, clayey, gray, crs. to fine	SP	14	10
98	CLAYEY SAND, fine to crs grained, 8" seam, bottom. 6" sand med. gray-green	SC	15	22 24
100	SAND, Poorly Graded, medium grained, gray, well sorted, dense		16	50
102			17	100
104			18	50
106			19	21 25
108		SP	20	26 27
110	Sand, coarse, lt. gray & Gravel, common pebbles, faint petroleum odor		21	20 27
112			22	50
114	fine grained sand, brn/gray silty sand		23	10
116	SILTY SAND, SANDY CLAY, light brown grading to clayey sand, greenish-gray	SM	24	15 12
118			25	50
120		SP		

Blow Count Graph: 0 20 40 60 80

Water Levels

Well: MW-30D
Elev.: 11.64

6" Casing
Portland Cement
Bentonite Grout
2" PVC Casing
Sand Pack
2" Screen (Stainless)

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ABANDONED

QST ENVIRONMENTAL

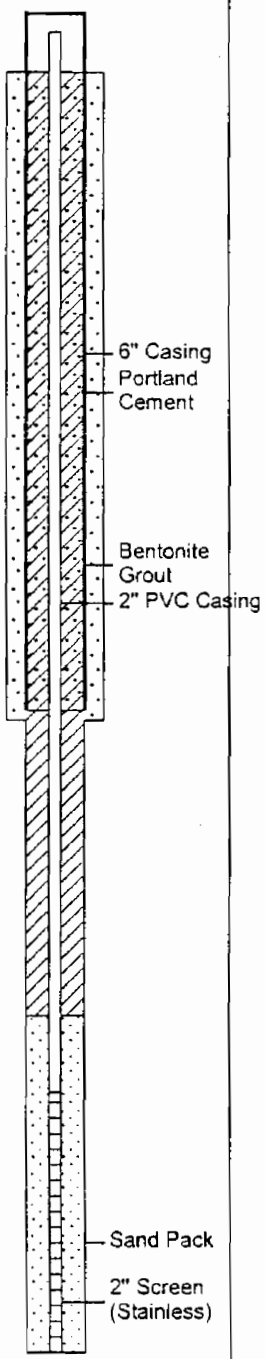
LOG OF BORING MW 31-I

Alabama State Docks
AWTC Site
Mobile, Alabama

Date Completed	: 5/1/98	Driller	: Charlie Wycoff
Hole Diameter	: 10 in	Surface Elev.	: 10.54
Drilling Method	: Mud Rotary	Logged By:	: D. Smoak
Sampling Method	: Split Spoon	Northing:	: 242249.023
Drilling Company	: G & E Services	Easting:	: 1798426.718

Depth in Feet	DESCRIPTION	USCS	GRAPHIC	Samples	Blow Count	Blow Count Graph (0 20 40 60 80)	Water Levels
0	SEE BORING LOG FOR MW 31-D						
3							
6							
9							
12							
15							
18							
21							
24							
27							
30							
33							
36							
39							
42							
45							
48							
51							

Well: MW-31I
Elev.: 12.11



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ABANDONED

QST ENVIRONMENTAL

LOG OF BORING MW 31-D

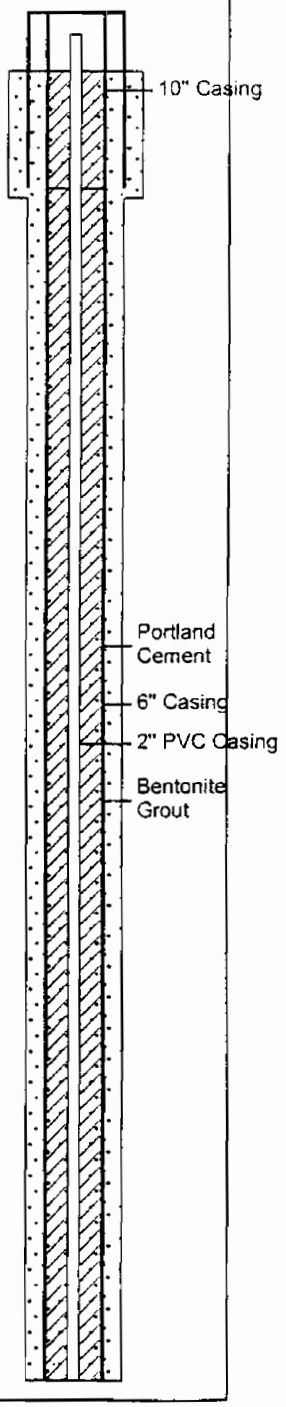
(Page 1 of 2)

Alabama State Docks
AWTC Site
Mobile, Alabama

Date Completed	: 5/7/98	Driller	: Charlie Wycoff
Hole Diameter	: 10 in	Surface Elev.	: 10.88
Drilling Method	: Mud Rotary	Logged By:	: D. Smoak
Sampling Method	: Split Spoon	Northing:	: 242972.542
Drilling Company	: G & E Services	Easting:	: 1797623.509

Depth in Feet	DESCRIPTION	USCS	GRAPHIC	Samples	Blow Count	Blow Count Graph (0 20 40 60 80)	Water Levels
0	SAND, Well Graded, Fine to med., brown to tan, no odor or staining	SW		1	2 2 2		
14	SANDY CLAY, Black, oily looking fluid came up out of teh mud. Drk gray, slightly clayey, fine grained quartz sand. Obvious sheen, slight tarry odor.			2	0 0 0		
22	Light gray, v. fine to fine grained, slightly clayey, sand. [Mud thinning out - remixed] (a little gray/brown clay in top of spoon)	SC		3	3 5 5		
34	SAND, Well Graded, bright orange/yellow & tan, med. to coarse grained.			4	10 10 18		
42	light tan to brown/pale yellow, well sorted, med. grained	SW		5	8 10 10		
52	s.a.a., dirty white color			6	0 0 0		
56							

Well: MW-31D
Elev.: 12.46



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ABANDONED

QST ENVIRONMENTAL

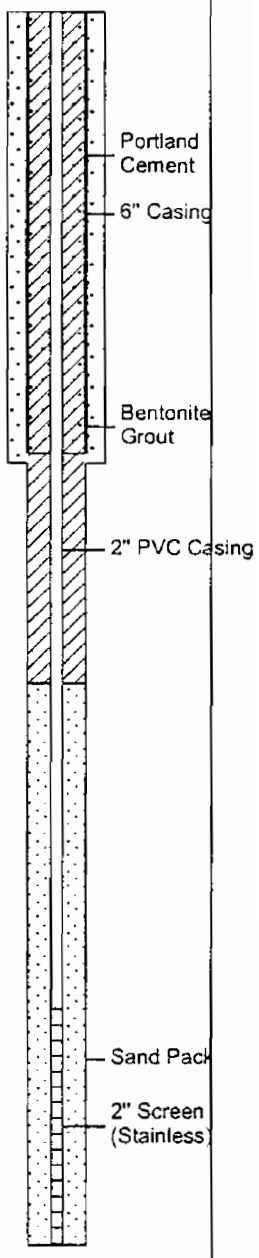
LOG OF BORING MW 31-D

Alabama State Docks
AWTC Site
Mobile, Alabama

Date Completed	: 5/7/98	Driller	: Charlie Wycoff
Hole Diameter	: 10 in	Surface Elev.	: 10.88
Drilling Method	: Mud Rotary	Logged By:	: D. Smoak
Sampling Method	: Split Spoon	Northing:	: 242972.542
Drilling Company	: G & E Services	Easting:	: 1797623.509

Depth in Feet	DESCRIPTION	USCS	GRAPHIC	Samples	Blow Count	Blow Count Graph (0 20 40 60 80)	Water Levels
56							
58							
60		SW					
62							
64	SAND, Poorly Graded, light brown & tan and coarse grained with assorted pebbles.			7	21 25 21		
66							
68							
70							
72							
74	lt. brown, coarse grained gravelly sand large (1/2" - 3/4") sub angular pebbles			8	32 50/5 50		
76	Drill out to 85'.sand fine to med. grained with coarse occasional pebbles; v. slight occasional sheen; v. faint HC odor in mud cuttings, less circulation.						
78							
80							
82		SP					
84							
86	med. to coarse, gray			9	10 10 20 21		
88							
90	v. lt. gray, med. grained w/ occasional gravel			10	22		
92				11			
94	coarse sand and gravel, gray			12			
96				13	23 50		
98				14	28 31		
100				15	25 50/5		
102	SAND, Poorly Graded, GRAVEL, Poorly Graded, medium grained sand with abundant gravel.			16	28 50		
104				17	24		
106		SP/GP		18			
108				19			
110	CLAYEY SAND, dense, fat, moist/dry, gray-green, waxy	CL		20			
112							

Well: MW-31D
Elev.: 12.46



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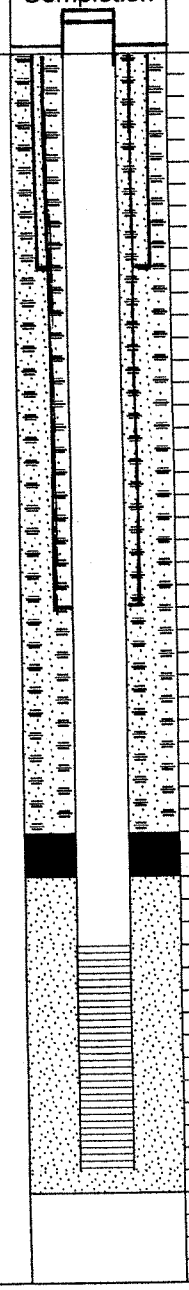
BORING LOG

Drill Rig:	Simco 2800	Date Drilled:	1/15/07	Logged By:
Boring Dia:	13/10/6 Inches	Boring Number:	31 IR	C. Wyckoff



Sample	Blow Counts	Depth Feet	Lithology	Description
	-W-	5		Red Fine Sand
		10		Grey, Brown, Tan Fine Sand
		15		Ground Water -W- @ 7.85'
		20		Grey, Brown, Tan Fine Sand
		25		Tan, Red, Grey Silty Clay
		30		Orange, Tan Fine Sand
		35		
		40		
		45		Tan Fine, Medium Sand & Gravel
		50		

Completion Notes:

Lat. N 30 39 58.2 Long. W 88 02 35.6; 10" PVC Casing in 13" Boring to 5' BLS; 6" PVC Casing in 10" Boring to 25' BLS
2" PVC Well Casing with 10' of .010 slotted screen in 6" Boring to 50'; Sand 37' -51' Bentonite 35' - 37', Grout 0-35'

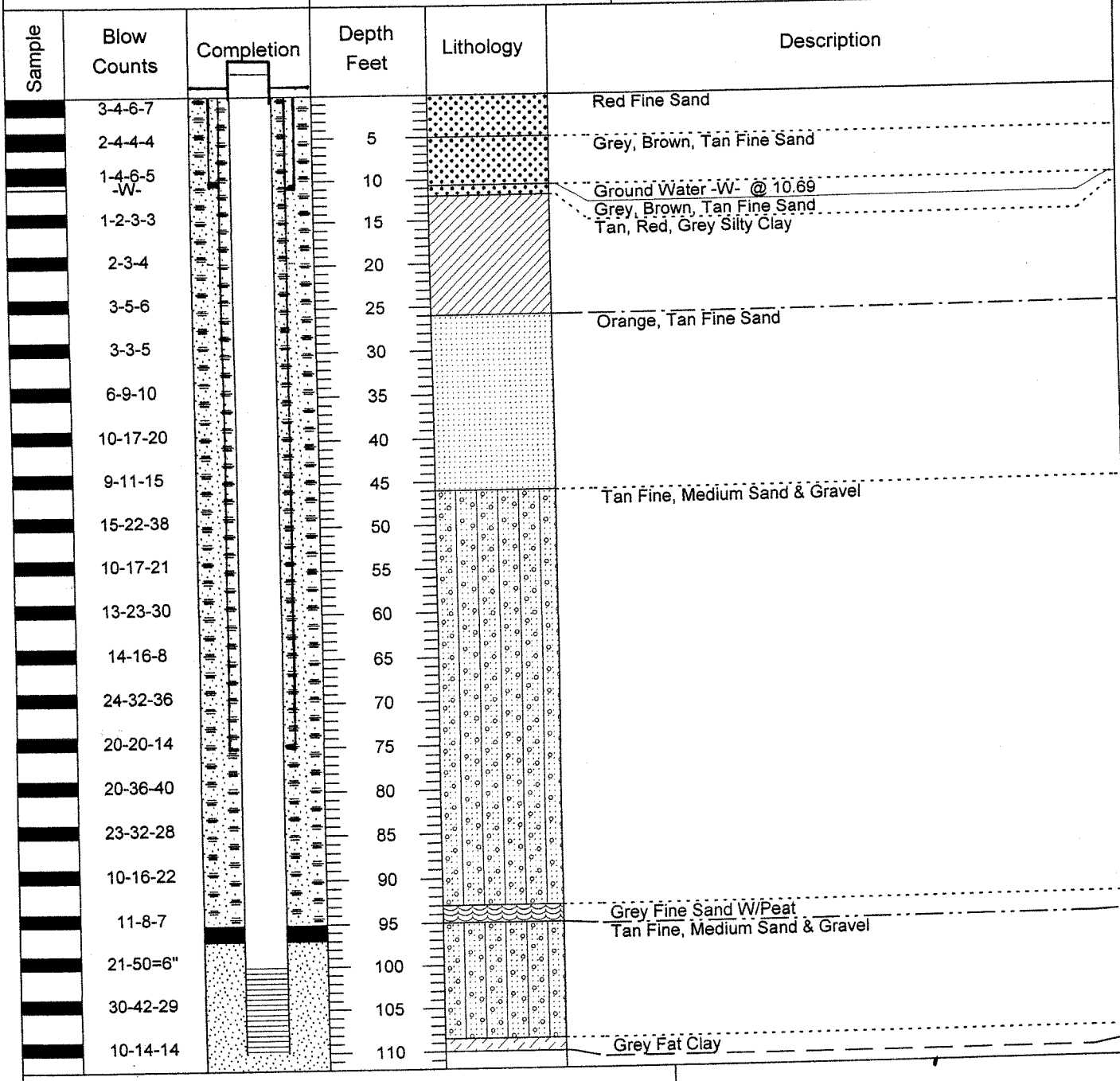
Site:

G & E Services, Inc.
Mobile, AL 36695

Project No.:

BORING LOG

Drill Rig:	Simco 2800	Date Drilled:	1/15/07	Logged By:
Boring Dia:	13/10/6 Inches	Boring Number:	31 DR	C. Wyckoff



Completion Notes:

Lat. N 30 39 58.2 Long. W 88 02 35.7; 10" PVC Casing in 13" Boring to 5' BLS; 6" PVC Casing in 10" Boring to 75' BLS 2" PVC Well Casing with 10' of .010 slotted screen in 6" Boring to 110'; Sand 97' -110' Bentonite 95' - 97', Grout 0-95'

Site:

G & E Services, Inc.
Mobile, AL 36695

Project No.:

LOG OF BORING MW 32-S

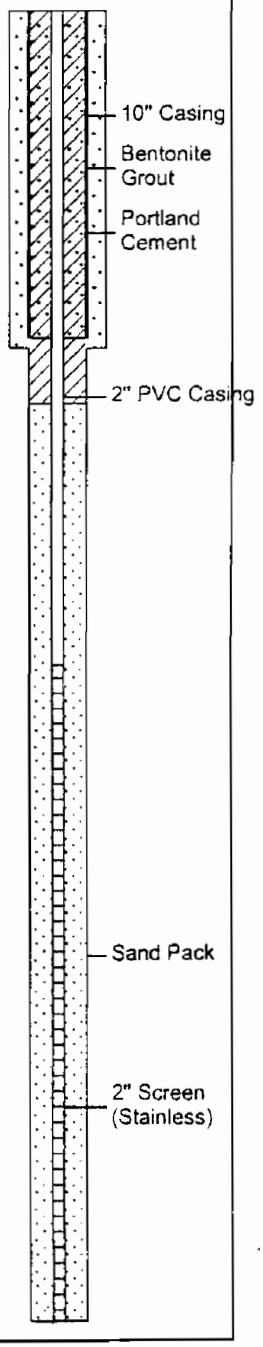
QST ENVIRONMENTAL

Alabama State Docks
AWTC Site
Mobile, Alabama

Date Completed	: 4/21/98	Driller	: Charlie Wycoff
Hole Diameter	: 10 in	Surface Elev.	: 10.78
Drilling Method	: Mud Rotary	Logged By:	: D. Smoak
Sampling Method	: Split Spoon	Northing:	: 242363.446
Drilling Company	: G & E Services	Easting:	: 1798433.676

Depth in Feet	DESCRIPTION	USCS	GRAPHIC	Samples	Blow Count	Blow Count Graph (0 20 40 60 80)	Water Levels
0	SEE BORING LOG FOR MW 32-I						
2							
4							
6							
8							
10							
12							
14							
16							
18							
20							

Well: MW-32S
Elev.: 10.78



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LOG OF BORING MW 32-I

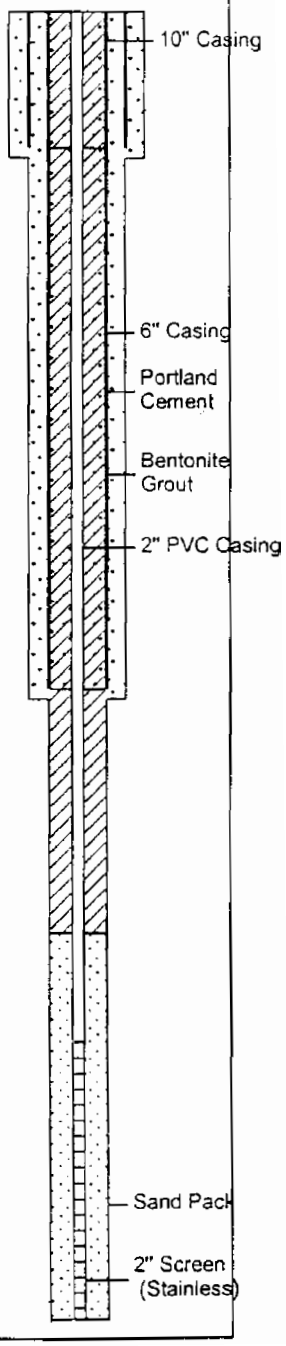
QST ENVIRONMENTAL

Alabama State Docks
AWTC Site
Mobile, Alabama

Date Completed	: 4/24/98	Driller	: Charlie Wycoff
Hole Diameter	: 10 in	Surface Elev.	: 10.89
Drilling Method	: Mud Rotary	Logged By:	: D. Smoak
Sampling Method	: Split Spoon	Northing:	: 242369.542
Drilling Company	: G & E Services	Easting:	: 1798426.718

Depth in Feet	DESCRIPTION	USCS
0	SILTY SAND, fine, brown	
2		
4	sand, fine, dark	
6		
8		
10	s.a.a. with organics and wood chips	
12		
14		
16	s.a.a with sheen globules	SM
18	clay seam present	
20	silty sand, fine, gray, trace organics.	
22		
24		
26		
28		
30	fine to med. grained, sm. shell fragments, tr. organics	
32	CLAYEY SAND, silty, brown	CL
34	SILTY SAND, gray/brown, tr, shell fragments	
36		
38		
40		SM
42		
44	fine grained, white to gray w/ trace silt brown, trace med. grain sand.	
46		
48		

GRAPHIC | Samples | Blow Count | Blow Count Graph (0 20 40 60 80) | Water Levels



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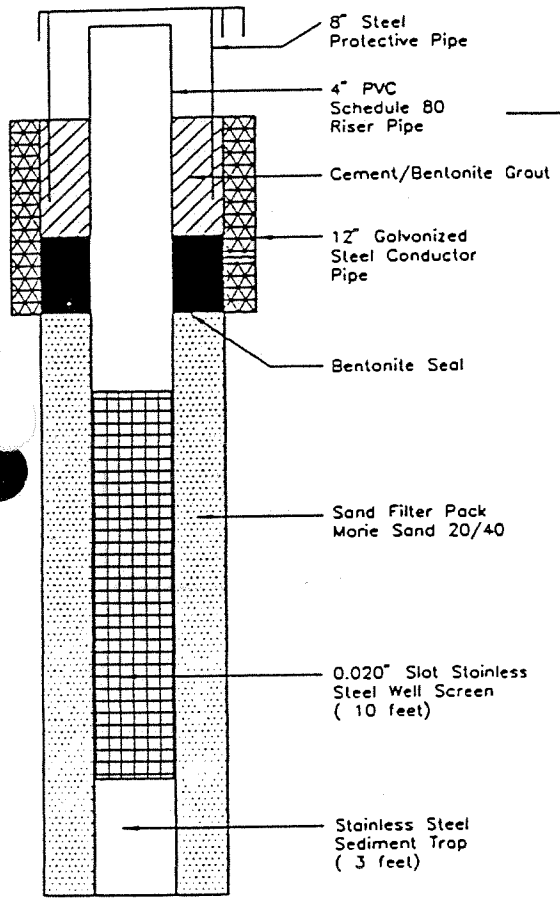
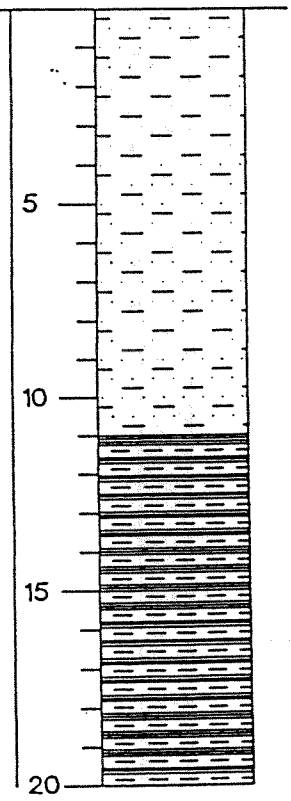
RECOVERY WELL RW-1

BORING
SHEET 1 OF 1

REMEDIATION TECHNOLOGIES INC		CONTRACTOR G.E.T	SCREEN SIZE 0.020 Stainless steel
OJECT AWTC		DRILLER Mike	RISER 10'
OJECT # 30-545-610		RIG TYPE Mobile	SCREEN from 7' to 17'
TE 4/11/92 @ 8:00am		METHOD Hollow Stem Auger	FILTER PACK from 5' to 20'
MPLETED 4/11/92 @ 2:00pm		CASING ID 12" PVC	SEAL from 3' to 5'
TAL DEPTH 20'		WELL CASING ID 4"	GROUT from 0 to 3'
GGED BY EC		WELL CASING TYPE PVC Sch 80	WELL ELEV. 10.22
		SEDIMENT TRAP 3' Stainless steel	GROUND ELEV. 7.93



DEPTH RANGE	DESCRIPTION
0 to 11'	Dark brown fine to medium sand, with some silt, creosote odor, oily
11' to 20'	Greenish silty clay, some organic matter



Boring terminoted at 20'

MARKS:

ABANDONED

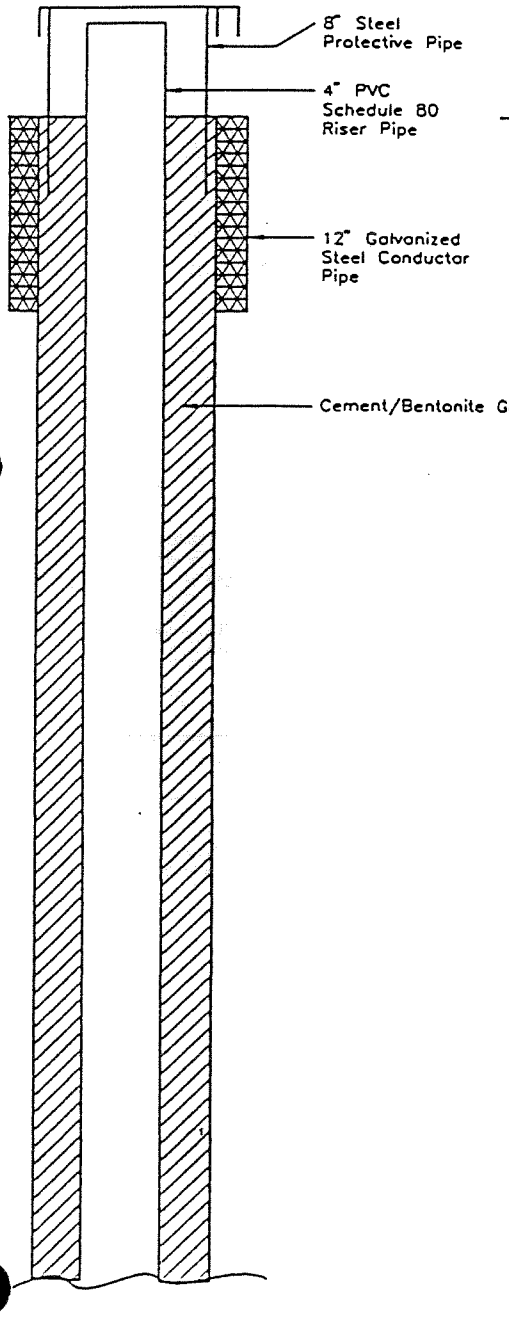
REIEC

REMEDIATION TECHNOLOGIES INC

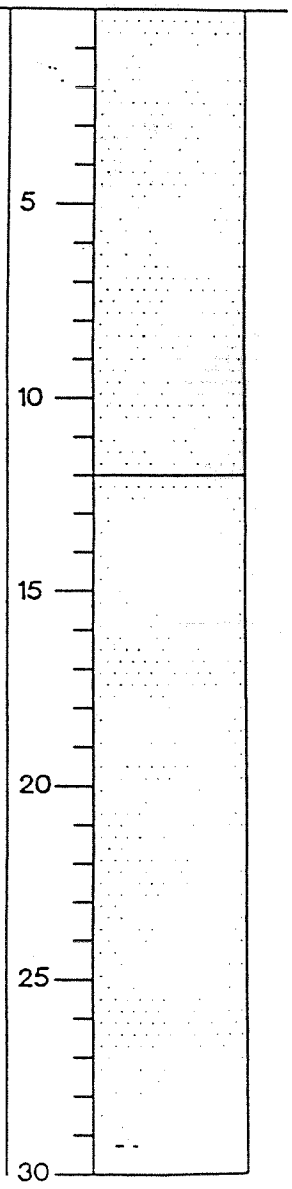
RECOVERY WELL RW-2

BORING
SHEET 1 OF 3

PROJECT	AWTC	CONTRACTOR G.E.T.	SCREEN SIZE 0.020 Stainless steel
PROJECT #	30-545-610	DRILLER Steve	RISER 92.5'
DATE	4/14/92 @ 11:00am	RIG TYPE GeoSpace	SCREEN from 89.5' to 99.5'
COMPLETED	4/15/92 @ 1:35pm	METHOD Mud Rotary	FILTER PACK from 86' to 103'
TOTAL DEPTH	103'	CASING ID 12"	SEAL from 82.5' to 86'
LOGGED BY	EC	WELL CASING ID 4"	GROUT from 0 to 82.5'
		WELL CASING TYPE PVC Sch 80	WELL ELEV. 9.81'
		SEDIMENT TRAP 3' Stainless steel	GROUND ELEV. 7.64'



DEPTH RANGE	DESCRIPTION
0 to 12'	Grey fine to medium sond
12' to 35'	Grey fine to medium sand, slight odor, little creosote in mud



REMARKS:

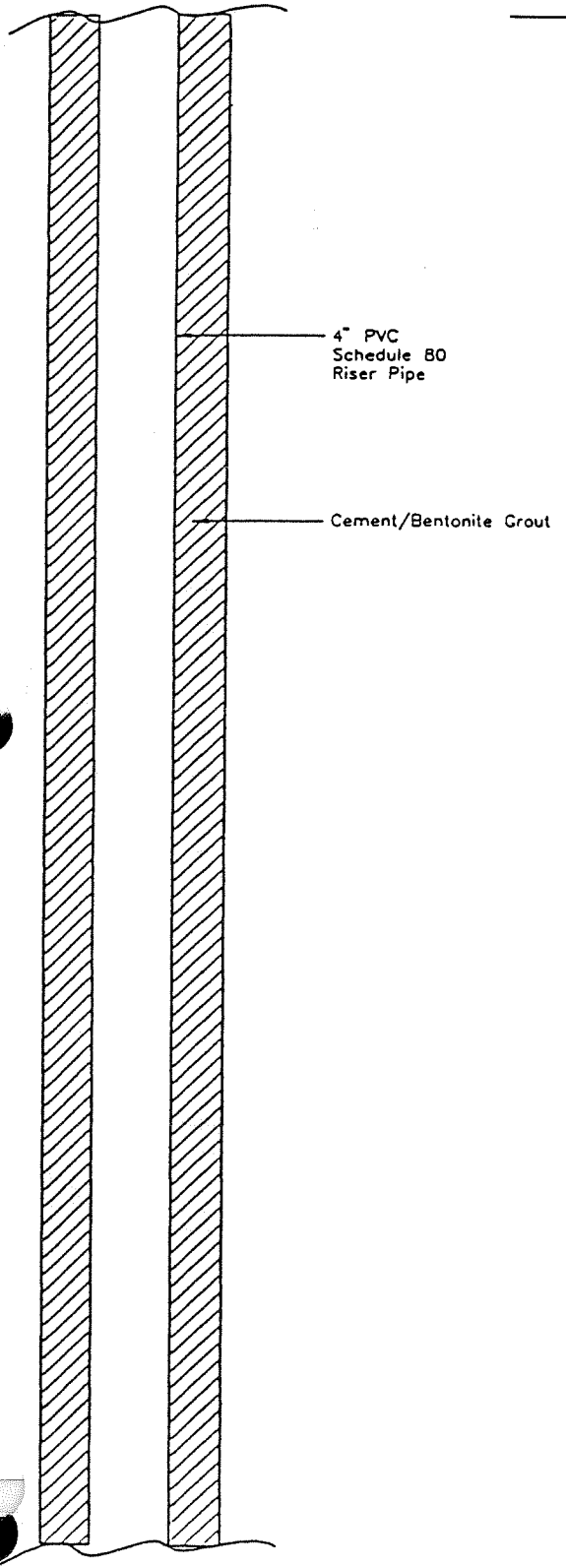
Possibly encountered tree @ 87'

ABANDONED

REMEDIATION TECHNOLOGIES INC

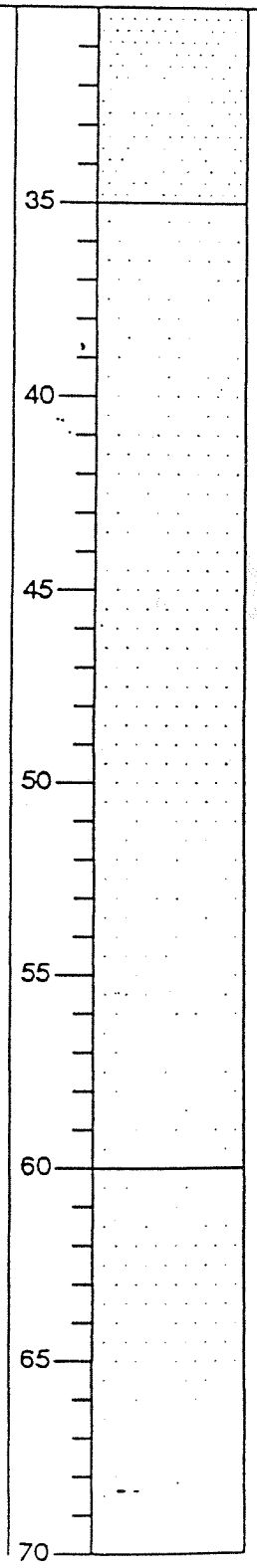
RECOVERY WELL RW-2

BORING
SHEET 2 OF 3



DEPTH RANGE	DESCRIPTION
30' TO 35' (cont)	Grey fine to medium sand, slight odor, little creosote in mud
35' to 60'	Light grey medium sand
60' to 85'	Light grey medium to coarse sand

LITHOLOGY



MARKS:

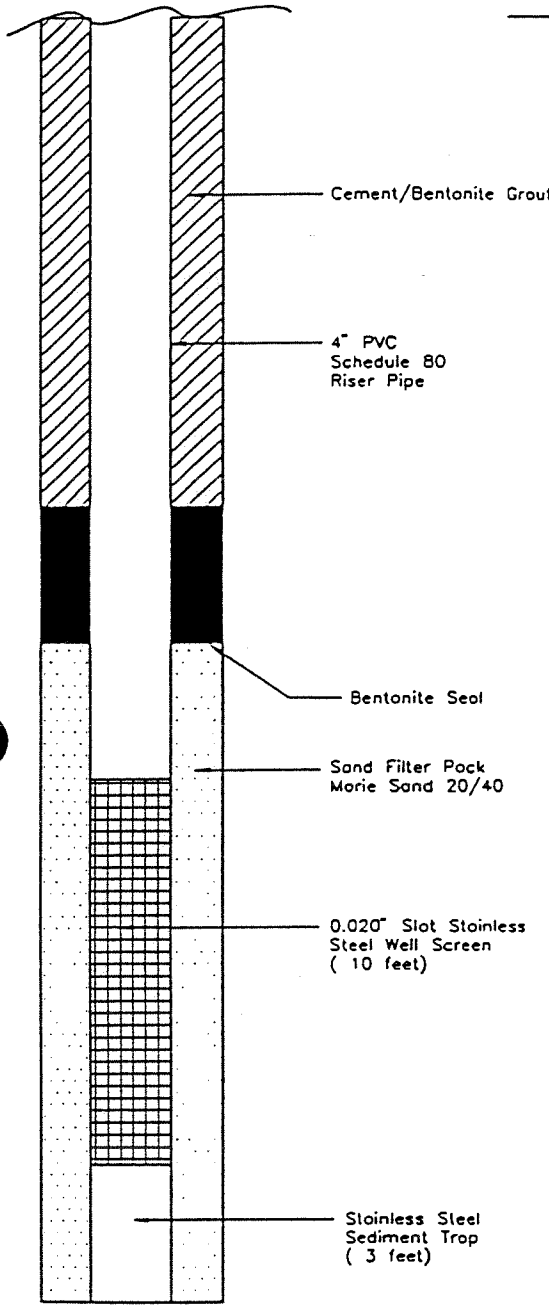
ABANDONED

REIEC

EMEDIATION
ECHNOLOGIES INC

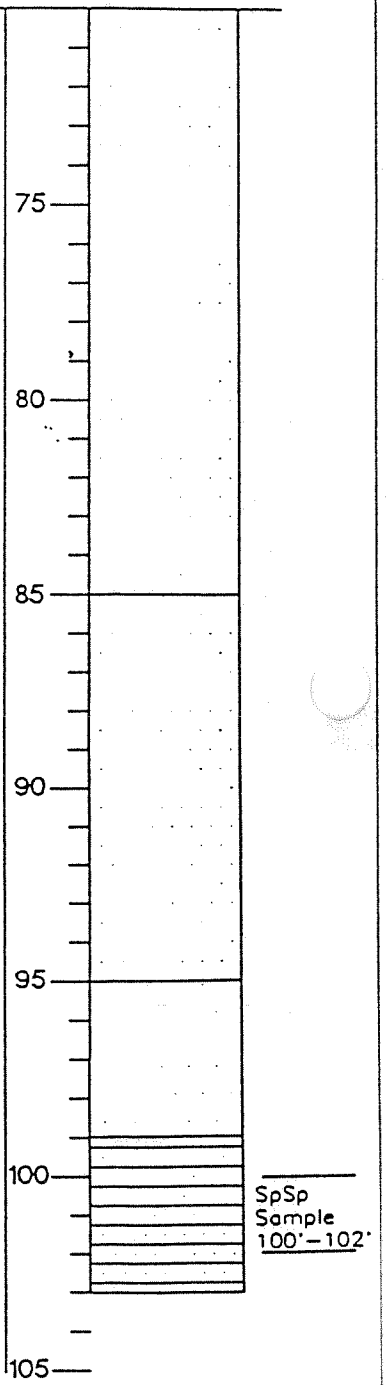
RECOVERY WELL RW-2

BORING
SHEET 3 OF 3



DEPTH RANGE	DESCRIPTION
70' to 85' (cont.)	Light grey medium to coarse sand
85' to 95'	Light grey medium to coarse sand, organic matter (tree) at 87'
95' to 99'	Very coarse sand with some gravel
99' to 103'	Greenish grey clay with some fine sand & silt, wet, no odor
Boring terminated at 103'	

LITHOLOGY

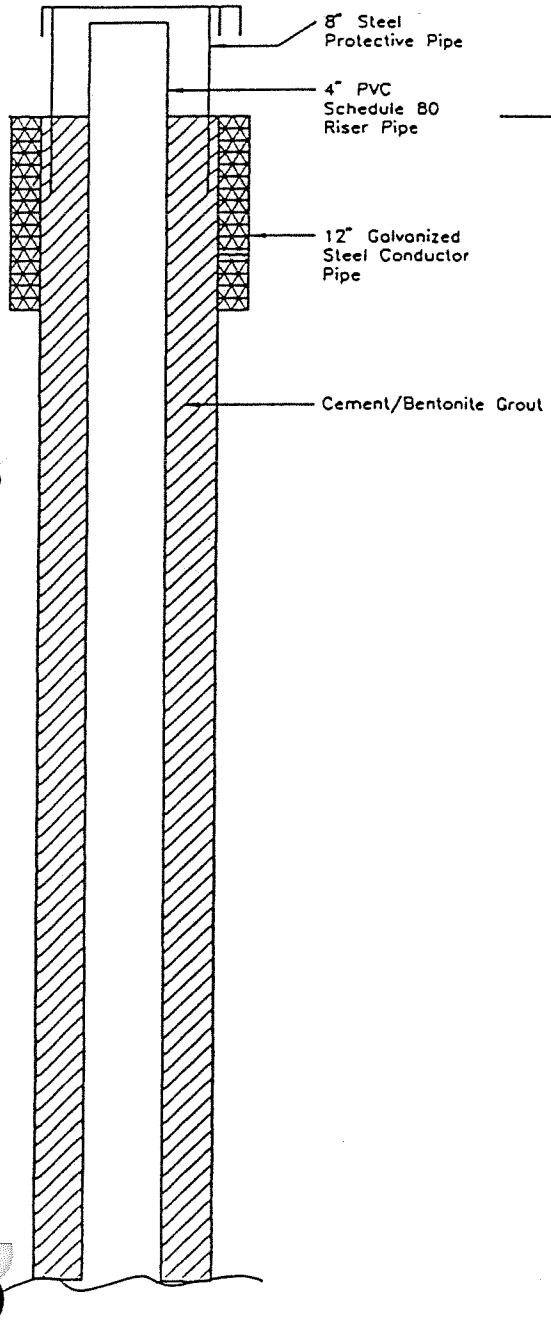


EMARKS:

RECOVERY WELL RW-3.

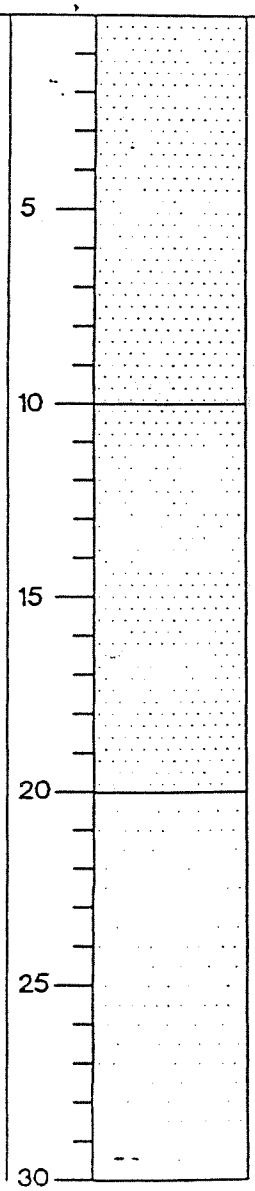
BORING
SHEET 1 OF 3

REMEDIATION TECHNOLOGIES INC	CONTRACTOR G.E.T.	SCREEN SIZE 0.020 Stainless steel
PROJECT AWTC	DRILLER Steve	RISER 90'
PROJECT # 30-545-610	RIG TYPE GeoSpoce	SCREEN from 87' to 97'
DATE 4/9/92 @ 8:30am	METHOD Mud Rotary	FILTER PACK from 82' to 100'
COMPLETED 4/10/92 @ 9:30pm	CASING ID 12"	SEAL from 76' to 82'
TOTAL DEPTH 101'	WELL CASING ID 4" PVC	GROUT from 0 to 76'
LOGGED BY EC	WELL CASING TYPE PVC Sch 80	WELL ELEV. 11.61
	SEDIMENT TRAP 3' Stainless steel	GROUND ELEV. 9.13



DEPTH RANGE	DESCRIPTION
0 to 10'	Dark grey fine sand with some silt, odor, creosote staining
10' to 20'	Dark grey fine sand with some silt, odor, creosote present
20' to 30'	Grey fine to coarse sand, possible creosote present

LITHOLOGY



REMARKS:

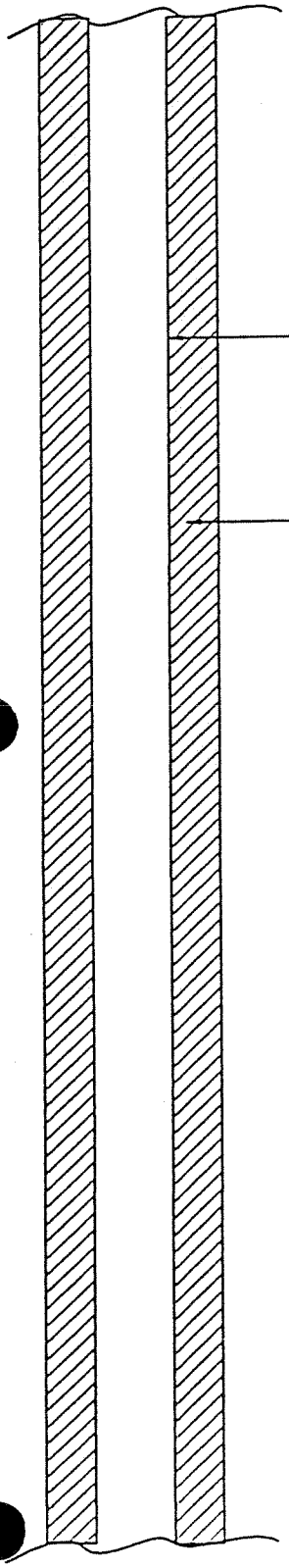
Drilled to 90' on 4/9 - hole collapsed overnight. Hole collapsed to 30'. Redrilled & set well on 4/10. Encountered heavy organic matter layer @ 40' and 70'. Because of organic layers, not sure bentonite pellets reached top of sand pack. Added 5' of benseal to top of bentonite pellet layer to assure proper seal.

REIEC

EMEDIATION
ECHNOLOGIES INC

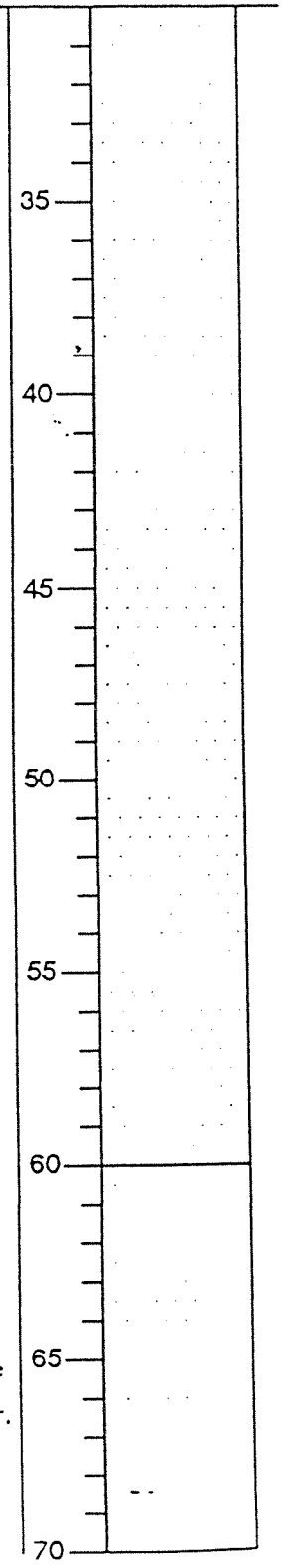
RECOVERY WELL RW-3

BORING
SHEET 2 OF 3



DEPTH RANGE	DESCRIPTION
30' TO 60'	Grey medium to course sand, organic matter, odor
60' to 95'	Grey medium to coarse sand, with some small pebbles, organic matter, creosote odor, creosote present

LITHOLOGY



EMARKS:

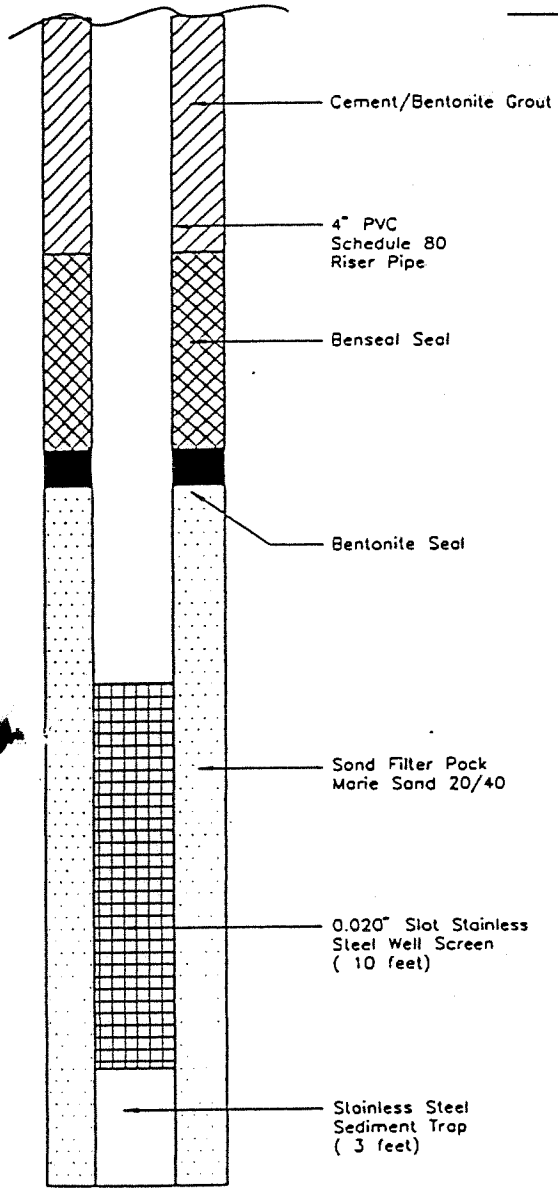
OVM reading - 2.5ppm @ 30'

REIEC

REMEDIATION TECHNOLOGIES INC

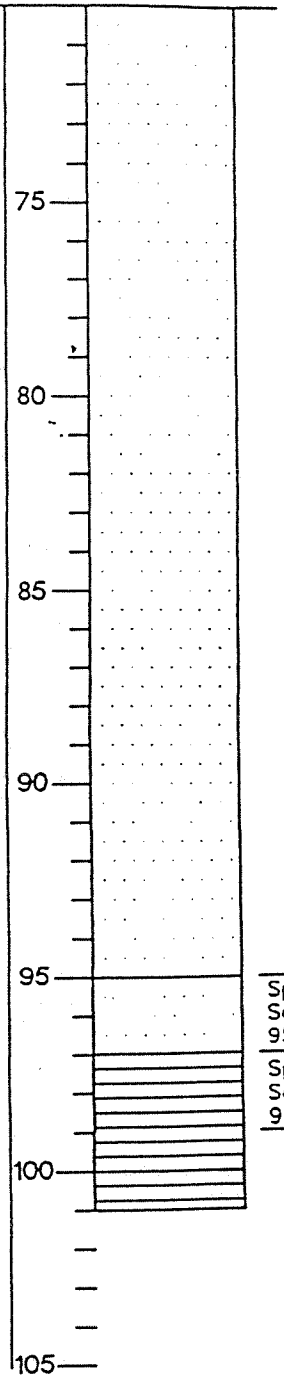
RECOVERY WELL RW-3

BORING
SHEET 3 OF 3



DEPTH RANGE	DESCRIPTION
70' to 95' (cont.)	Grey medium to course sand, pebbles, organics, creosote odor, creosote
95' to 97'	Dark grey medium to course sand, saturated, odor, creosote present, small pebbles, bottom 4" brown medium sand, saturated, odor, creosote present
99' to 103'	Top 4" dark course sand, saturated, odor, creosote present. Dark green clay, firm, no odor
	Boring terminated at 101'

LITHOLOGY

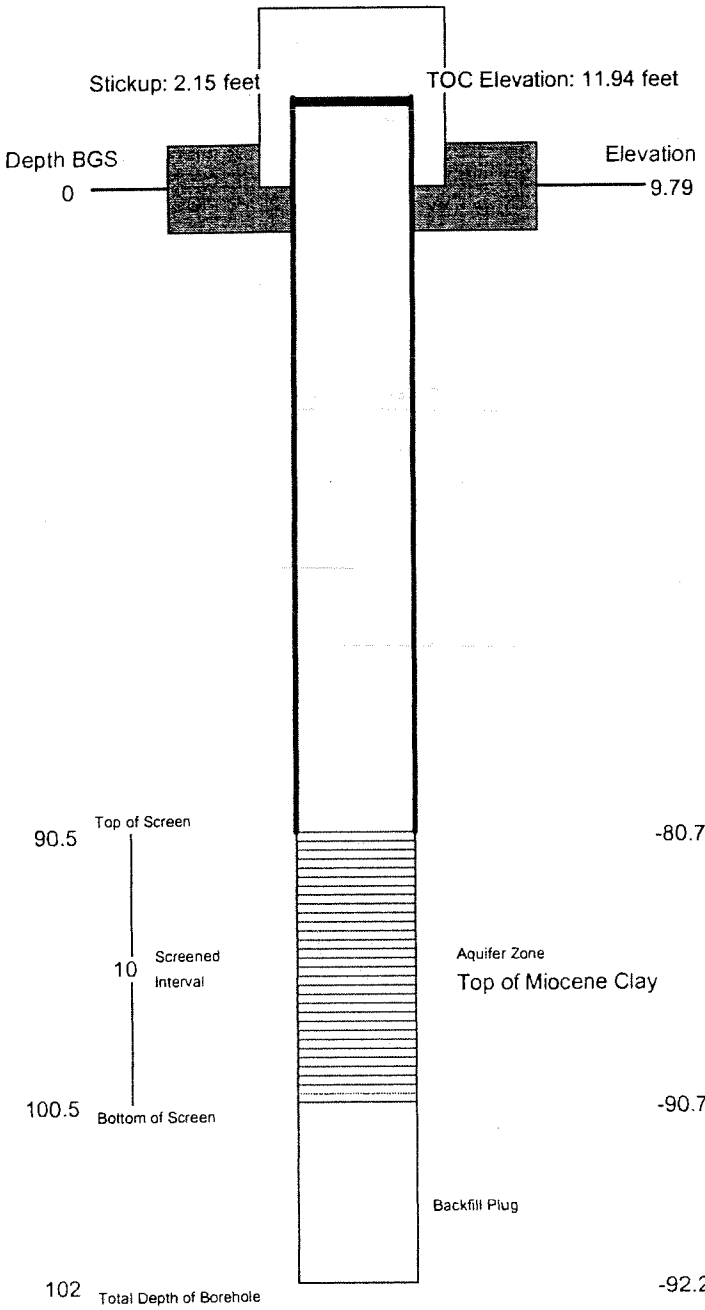


REMARKS:

Pumping Well Construction

RW-4

FACILITY NAME		DESCRIPTION	OWNER	USE
Alabam State Docks/AWTC		Recovery Well	Alabama State Docks	DNAPL Recovery
LOCATION METH.	ELEVATION METH.	CLIENT	INSTL DATE START	INSTL DATE END
	Surveyed		4/12/99	4/13/99
CHARACTERISTICS		NORTHING	EASTING	DATUM
				MSL
CONTRACTOR		DRILLER		DRILLING METHOD
Charlie Wyckoff		Charlie Wyckoff		Mud Rotary
PROJECT		PROJECT NUM.	COMMENT:	
DNAPL Recovery		37990005	Recovery well located adjacent to DB-2 location 8-inch outer casing 2-foot sump	

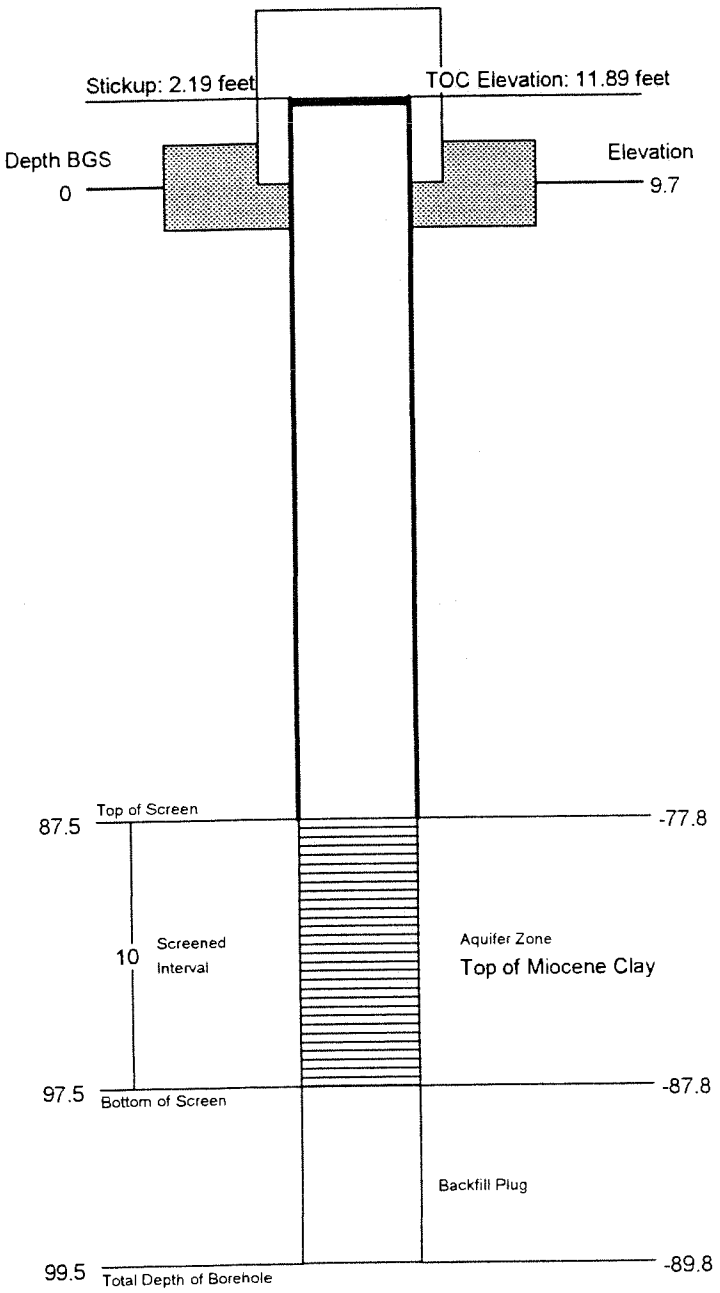


PAD	Concrete
PROTECTION	Concrete Berm
CASING MATERIAL	Stainless Steel
WELL DIAMETER	4"
CASING DIAMETER	4"
FILTER PACK	Sand
SEAL	None
BACKFILL	Benontite/Cement Grout
PLUG	Benontite/Cement Grout
SCREEN	Stainless Steel
DEVELOPMENT	Pumped until clear
INSTALLED BY	G&E Services
LOGGED BY	Dave Smoak
FLUSH MOUNT	☐
LOCK	☐
GUARD PIPE	☒

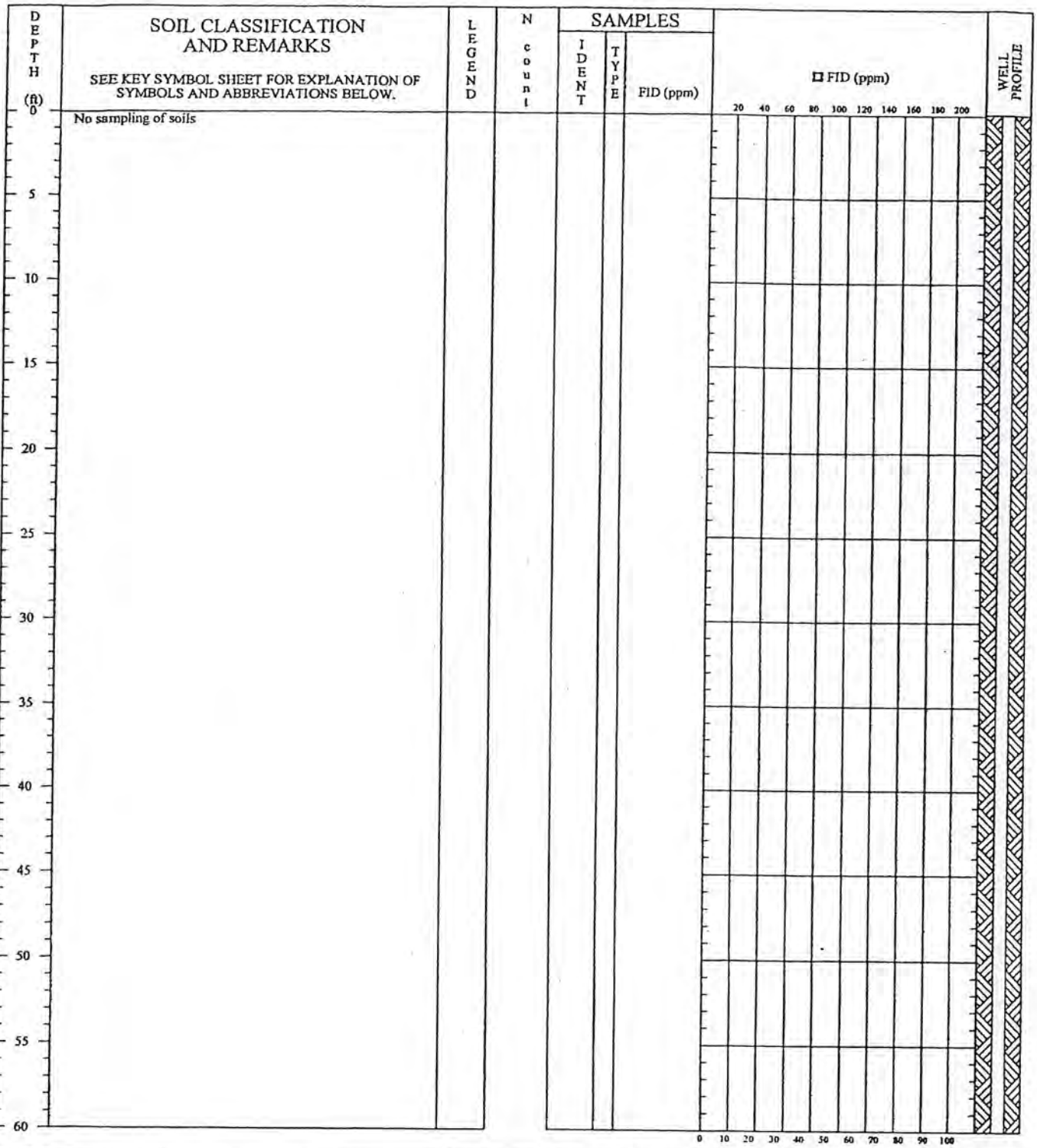
Pumping Well Construction

RW-5

FACILITY NAME: Alabam State Docks/AWTC	DESCRIPTION: Recovery Well	OWNER: Alabama State Docks	USE: DNAPL Recovery
LOCATION METH. / ELEVATION METH.	CLIENT	INSTL DATE START: 4/14/99	INSTL DATE END: 4/14/99
CHARACTERISTICS	NORTHING	EASTING	DATUM: MSL
CONTRACTOR: Charlie Wyckoff	DRILLER: Charlie Wyckoff		DRILLING METHOD: Mud Rotary
PROJECT: DNAPL Recovery	PROJECT NUM.: 37990005	COMMENT: Recovery well located adjacent to DB-6 location 8-inch outer casing 2-foot sump	



PAD	Concrete
PROTECTION	Concrete Berm
CASING MATERIAL	Stainless Steel
WELL DIAMETER	4"
CASING DIAMETER	4"
FILTER PACK	Sand
SEAL	None
BACKFILL	Benontite/Cement Grout
PLUG	Benontite/Cement Grout
SCREEN	Stainless Steel
DEVELOPMENT	Pumped until clear
INSTALLED BY	G&E Services
LOGGED BY	Dave Smoak
FLUSH MOUNT	☐
LOCK	☐
GUARD PIPE	☒
COMMENT	Recovery well located adjacent to DB-6 location 8-inch surface casing 2-foot sump



DRILLER: Miller Drilling
EQUIPMENT:
METHOD: Roto-Sonic
HOLE DIA.: 8 inches
WELL DIA.: 4 inches
▽ Water Level at time of boring
▼ Stabilized Water Level

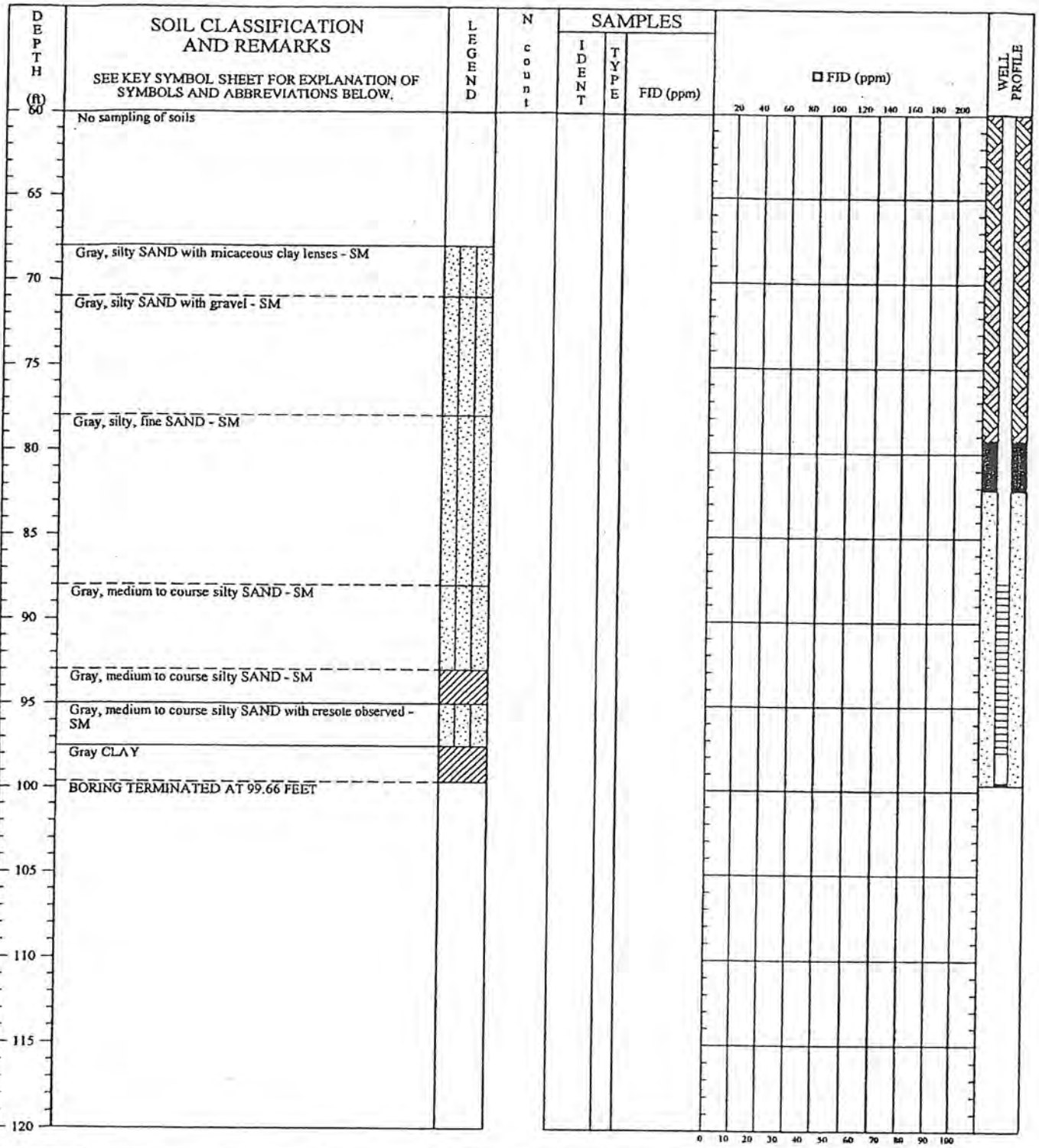
THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

WELL LOG RECORD

PROJECT: Alabama Wood Treating Corporation (AWTC)
LOCATION: Mobile, Alabama
PROJ. NO.: 6187-04-0022.01.21
July 14, 2004

BORING NO.: RW-6
PAGE 1 OF 2

MACTEC



DRILLER:	Miller Drilling
EQUIPMENT:	
METHOD:	Roto-Sonic
HOLE DIA.:	8 inches
WELL DIA.:	4 inches

▽ Water Level at time of boring

▼ Stabilized Water Level

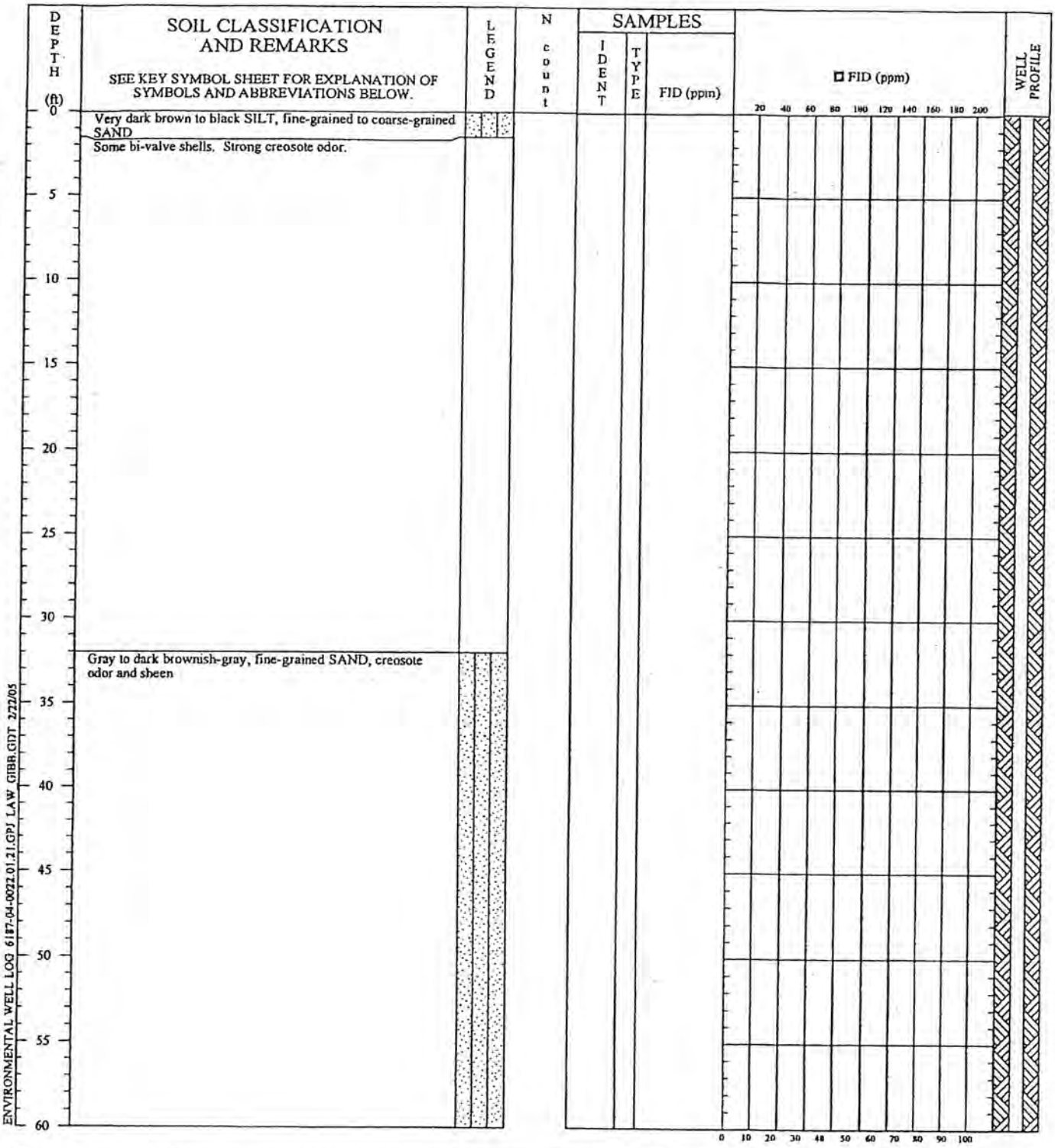
THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

WELL LOG RECORD

PROJECT:	Alabama Wood Treating Corporation (AWTC)
LOCATION:	Mobile, Alabama
PROJ. NO.:	6187-04-0022.01.21
	July 14, 2004

BORING NO.: RW-6

MACTEC



ENVIRONMENTAL WELL LOG 6187-04-0022.01.21.GPJ LAW_GIBB.GDT 2/22/05

DRILLER: Miller Drilling
EQUIPMENT:
METHOD: Roto-Sonic
HOLE DIA.: 8 inches
WELL DIA.: 4 inches
▽ Water Level at time of boring
▼ Stabilized Water Level

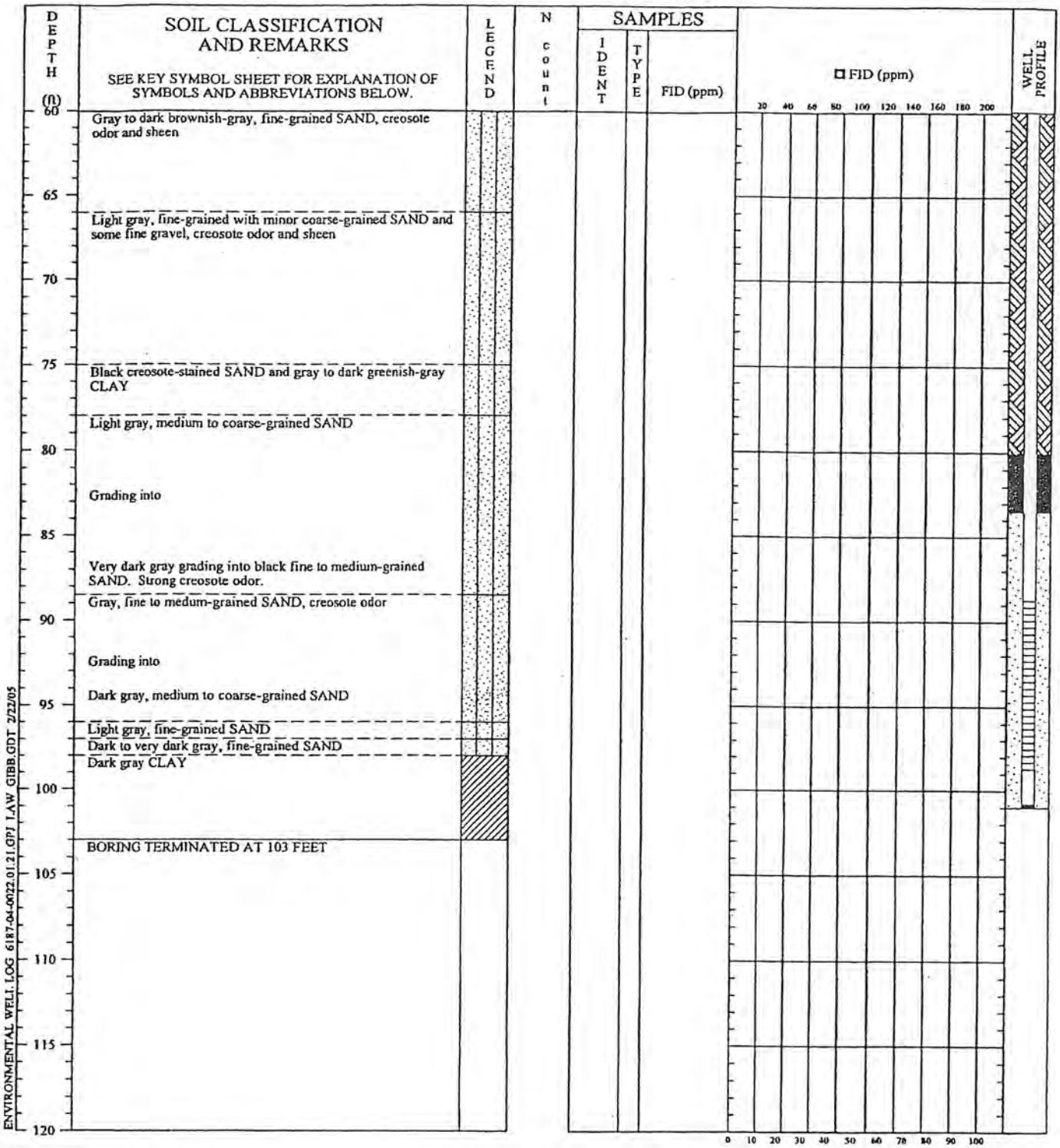
THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

WELL LOG RECORD

PROJECT: Alabama Wood Treating Corporation (AWTC)
LOCATION: Mobile, Alabama
PROJ. NO.: 6187-04-0022.01.21
July 20, 2004

BORING NO.: RW-7
PAGE 1 OF 2

MACTEC



ENVIRONMENTAL WELL LOG 6187-04-0022.01.21.GPJ LAW GIBB.GDT 2/22/05

DRILLER: Miller Drilling
EQUIPMENT:
METHOD: Roto-Sonic
HOLE DIA.: 8 inches
WELL DIA.: 4 inches
▽ Water Level at time of boring
▼ Stabilized Water Level

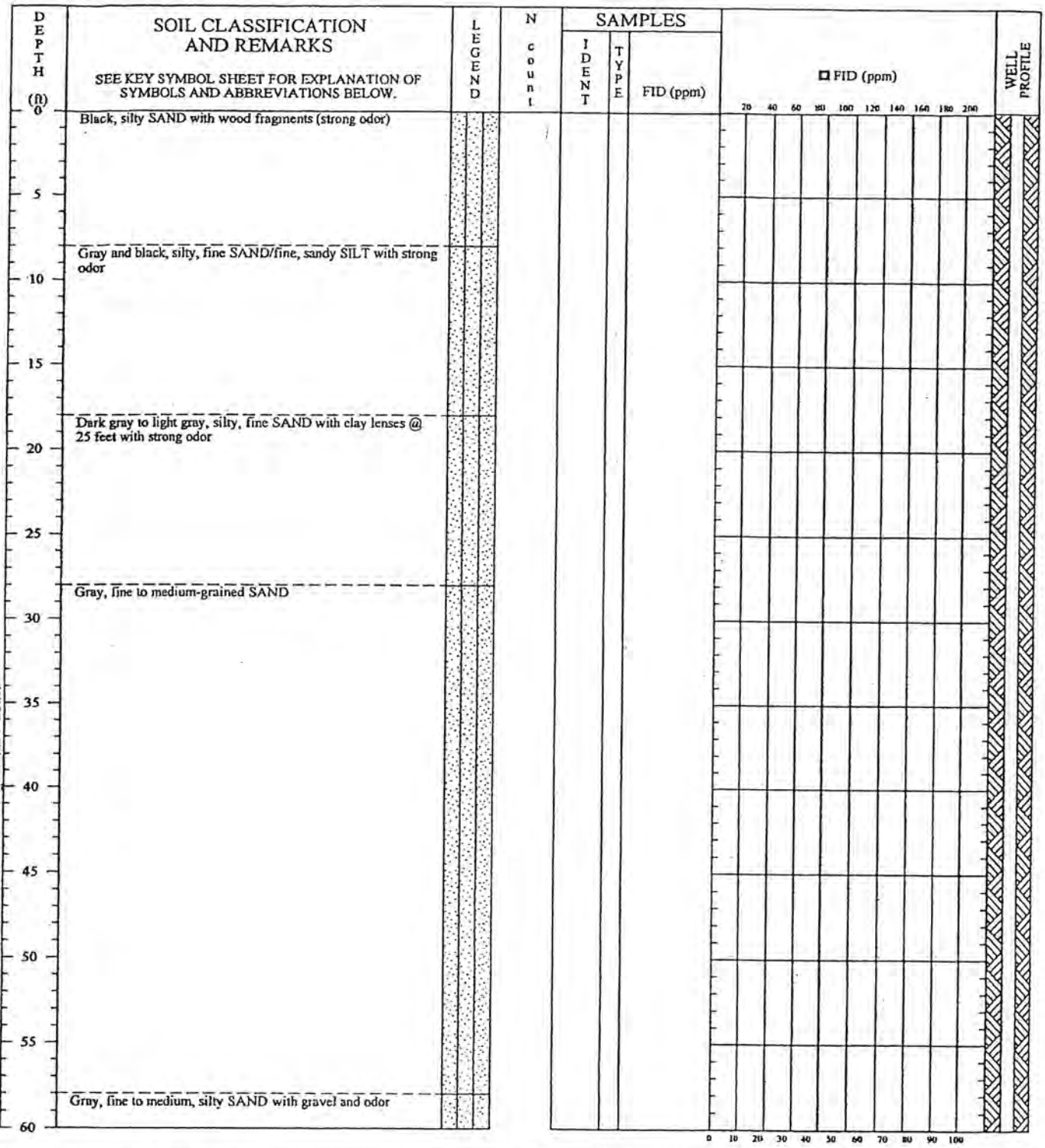
THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

WELL LOG RECORD

PROJECT: Alabama Wood Treating Corporation (AWTC)
LOCATION: Mobile, Alabama
PROJ. NO.: 6187-04-0022.01.21
July 20, 2004

BORING NO.: RW-7
PAGE 2 OF 2

MACTEC



ENVIRONMENTAL WELL LOG 6187-04-0022.01.21.GPJ LAW_GIBB.GDT 2/21/05

DRILLER:	Miller Drilling
EQUIPMENT:	
METHOD:	Roto-Sonic
HOLE DIA.:	8 inches
WELL DIA.:	4 inches

▽ Water Level at time of boring

▼ Stabilized Water Level

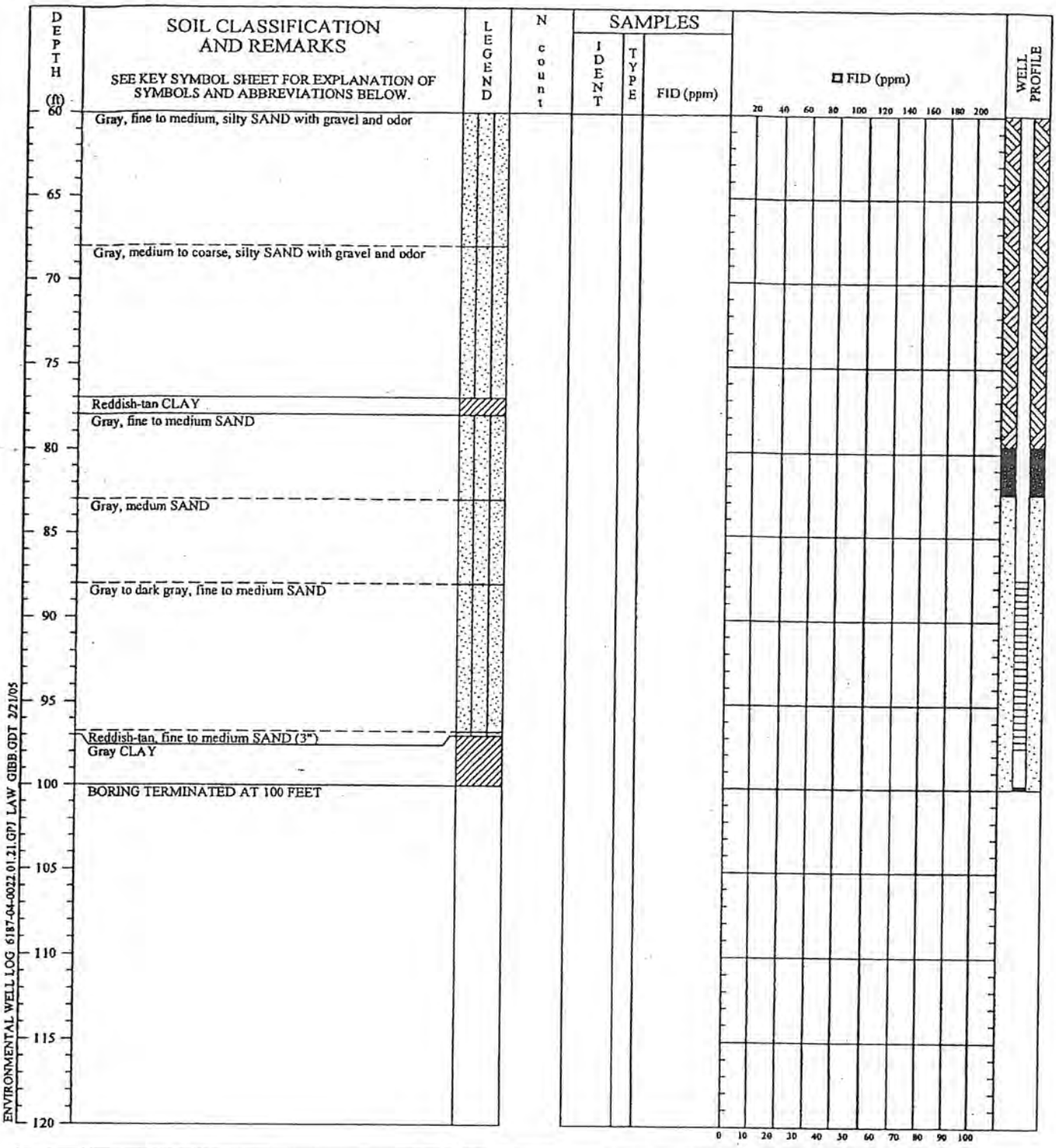
THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

WELL LOG RECORD

PROJECT:	Alabama Wood Treating Corporation (AWTC)
LOCATION:	Mobile, Alabama
PROJ. NO.:	6187-04-0022.01.21
	July 6, 2004

BORING NO.: RW-8

MACTEC



DRILLER:	Miller Drilling
EQUIPMENT:	
METHOD:	Roto-Sonic
HOLE DIA.:	8 inches
WELL DIA.:	4 inches

▽ Water Level at time of boring

▼ Stabilized Water Level

THIS RECORD IS A REASONABLE INTERPRETATION OF SUBSURFACE CONDITIONS AT THE EXPLORATION LOCATION. SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND AT OTHER TIMES MAY DIFFER. INTERFACES BEWEEN STRATA ARE APPROXIMATE. TRANSITIONS BETWEEN STRATA MAY BE GRADUAL.

WELL LOG RECORD

PROJECT:	Alabama Wood Treating Corporation (AWTC)
LOCATION:	Mobile, Alabama
PROJ. NO.:	6187-04-0022.01.21
	July 6, 2004

BORING NO.: RW-8

MACTEC

Eco-Systems, Inc.
Consultants, Engineers and Scientists

Boring Log

Sheet: 1 of 1

Project: **ASPA-AWTC Piezometer Installation** Well/Boring No.: **PZ-1-S**

Project No.: 11056 Date(s): 4.16.12 - 4.17.12 Logged By: C. Brent Eanes

Well/Boring Location: **30° 40' 12.54", -88° 02' 34.61"**

Drilling Method: Mud Rotary Drilling Contractor: G & E Services, Inc.

Depth to Groundwater: 5.91' Date: 4.30.12 Reference: TOC

Elevations - Top of casing: 13.06' Inner Casing: 13.06' - (-6.34') Outer Casing: NA

Water Table: 7.15' Date: 4.30.12 Reference: Top of casing AMSL

Remarks: (Bottom of casing) BMSL

No odors, no staining. 10.70' = Surveyed elevation of well identification plate in well pad.

Depth (' BGS)	Sample Interval	USCS Designation	Lithologic Description	Graphical Logs: Strata	Graphical Logs: Well Const	Geotechnical Sample Number and Corresponding Blow Counts G=Grab sample SS=Split spoon sample WOH=Weight of hammer	Elevation (MSL)
		(SC)	Dry to saturated, brown to orange to gray, poorly graded, fine, Sand and Clayey Sand		13.06' / 10.70'	G	
		(SC-CL)				SS-1 / WOH	0.70'
10		(CL-MH)	Saturated, dark gray, soft to firm, Sandy Clay grading to Clay			SS-2 / 1-2-2	
		(CL)	Boring Terminated at 20 ft bgs			SS-3 / 2-1-2	-9.30'
20							

Note: Not all portions of this form are applicable to all projects

Apr-12

Eco-Systems, Inc.
Consultants, Engineers and Scientists

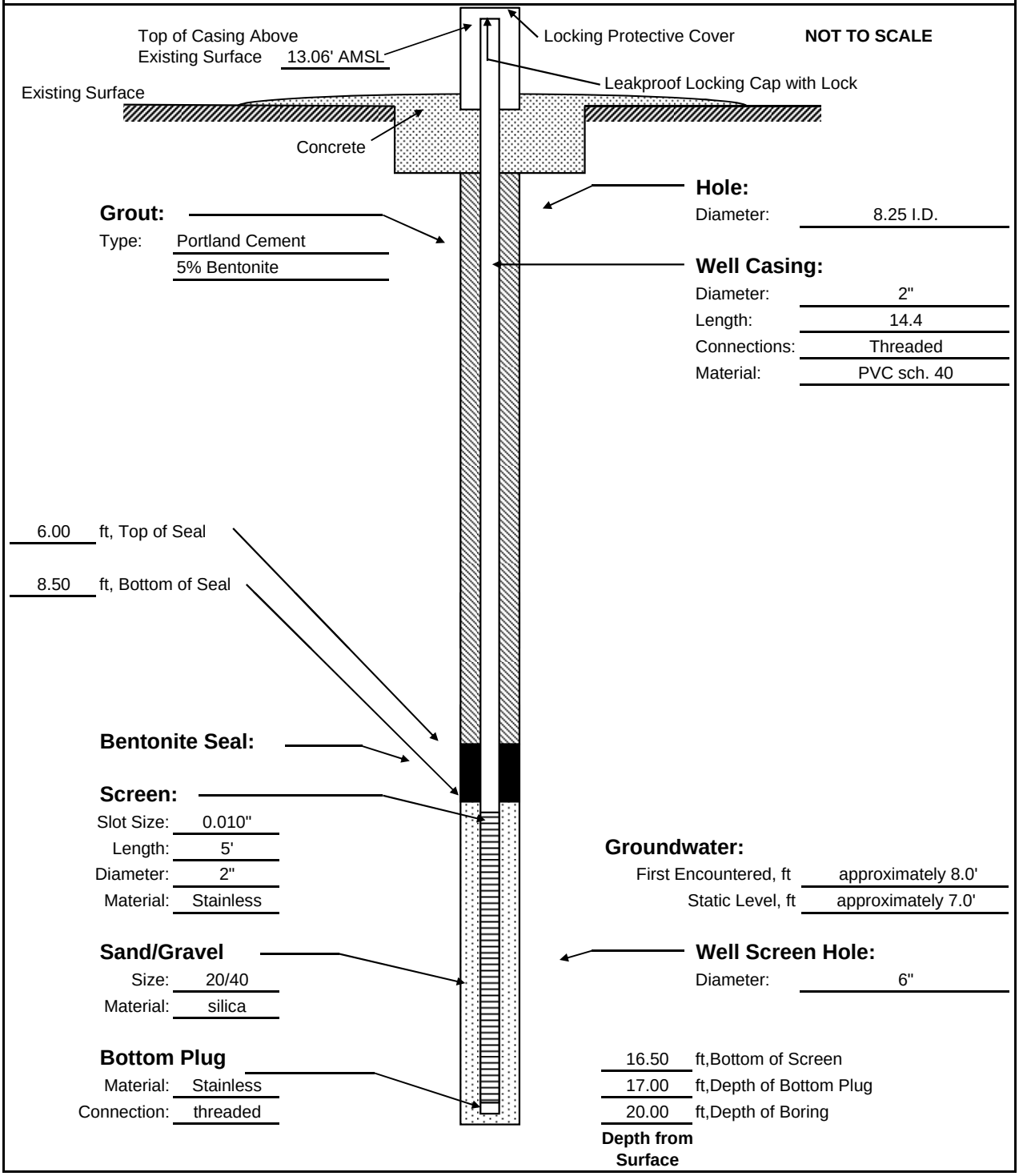
Piezometer Schematic

Project: **ASPA-AWTC Piezometer installation** Well/Boring No.: **PZ-1-S**

Project No.: 11056 Drilling Supervisor: Brent Eanes

Boring Location: **30° 40' 12.54", -88° 02' 34.61"** Date(s): 4.16.12 to 4.17.12

Drilling Method: Mud Rotary Drilling Contractor: G & E Services, Inc.



Eco-Systems, Inc.
Consultants, Engineers and Scientists

Boring Log

Sheet: 1 of 2

Project:	**ASPA-AWTC Piezometer Installation**			Well/Boring No.:	**PZ-1-D**
Project No.:	11156	Date(s):	4.13.12 to 4.19.12	Logged By:	C. Brent Eanes
Well/Boring Location:	**30° 40' 12.57", -88° 02' 34.56"**				
Drilling Method:	Mud Rotary	Drilling Contractor:	G & E Services, Inc.		
Depth to Groundwater:	11.43'	Date:	4.30.12	Reference:	TOC
Elevations - Top of casing:	13.28' AMSL	Inner Casing:	13.28' to (-88.20')	Middle Casing	10.86' to (-49.14')
		Outer Casing	10.86'-4.86'	Reference:	Top of casing AMSL
Water Table:	1.85' AMSL or 11.43' BTOC	Date:	4.30.12		(Bottom of casing) BMSL

Remarks: No odors, no staining. 10.86 = Surveyed elevation of the well identification plate in well pad.

Depth (' BGS)	Sample Interval	USCS Designation	Lithologic Description	Graphical Logs: Strata / Well Const	Geotechnical Sample Number and Corresponding Blow Counts (G=Grab sample, SS=Split spoon sample, WOH=Weight of hammer)	Elevation (MSL)
				13.28' / 10.86'	G	
			Dry to saturated, brown to orange to gray, poorly graded, fine, Sand and Clayey Sand		G	
10		(SC)			SS / WOH	0.86'
		(CL-MH)	Moist, gray, firm, Sandy Clay grading to Silty Clay		SS / 1-2-2	
20		(CH)			SS / 2-1-2	-9.14'
		(SP)			SS-1 / 4-7-10	
		(SP)	Saturated, gray/brown/tan/orange, poorly graded, to well graded, fine to coarse, Sand with traces of mica, gravel and Clayey Sands		SS-2 / 7-11-14	-19.14'
30		(SP)			SS-3 / 6-6-9	
		(SW)			SS-4 / 6-10-10	-29.14'
40		(SW)			SS-5 / 6-9-10	
		(SP)			SS-6 / 14-18-11	-39.14'

Eco-Systems, Inc.
Consultants, Engineers and Scientists

Boring Log

Sheet: 2 of 2

Project: **ASPA-AWTC Piezometer Installation** Well/Boring No.: **PZ-1-D**

Project No.: 11156 Date(s): 4.13.12 to 4.19.12 Logged By: C. Brent Eanes

Well/Boring Location: **30° 40' 12.57", -88° 02' 34.56"**

Drilling Method: Mud Rotary Drilling Contractor: G & E Services, Inc.

Depth to Groundwater: 11.43' Date: 4.30.12 Reference: TOC

Elevations - Top of casing: 13.28' AMSL Inner Casing: 13.28' to (-88.20') Middle Casing: 10.86' to (-49.14')

Outer Casing 10.86'-4.86' Reference: Top of casing AMSL

Water Table: 1.85' AMSL or 11.43' BTOC Date: 4.30.12 (Bottom of casing) BMSL

Remarks:

Depth (' BGS)	Sample Interval	USCS Designation	Lithologic Description	Graphical Logs: Strata / Well Construction	Geotechnical Sample Number and Corresponding Blow Counts G=Grab sample SS=Split spoon sample WOH=Weight of hammer	Elevation (MSL)
		(SP-SM)	Saturated, gray/brown/tan/orange, poorly graded, to well graded, fine to coarse, Sand with traces of mica, gravel and Clayey Sands		SS-7 / 7-11-13	
		(GW-SW)	Saturated, Sandy Gravel (1/4-12" subangular-subrounded)		SS-8 / 8-12-10	-49.14'
60		(SP)			SS-9 / 8-11-12	
		(SW)			SS-10 / 9-8-5	-59.14'
70		(SW-SM)	Saturated, gray/brown/tan/orange, poorly graded, to well graded, fine to coarse, Sand with traces of mica, gravel and Clayey Sands (organics at 72 ft bgs)		SS-11 / 4-5-8	
		(SP)			SS-12 / 13-34-40	-69.14'
80		(CL-SP)	Moist, dark gray, very stiff, Clay (CL) 83.5' ft bgs		SS-13 / 9-12-18	
		(SC)			SS-14 / 10-10-18	-79.14'
90		(SP)	Saturated, gray/brown/tan/orange, poorly graded, to well graded, fine to coarse, Sand with traces of mica, gravel and Clayey Sands (organics at 100' ft bgs)		SS-15 / 4-4-7	
		(SP)	Boring Terminated at 100 ft bgs		SS-16 / 3-4-5	-89.14'

Note: Not all portions of this form are applicable to all projects

Apr-12

Eco-Systems, Inc.
Consultants, Engineers and Scientists

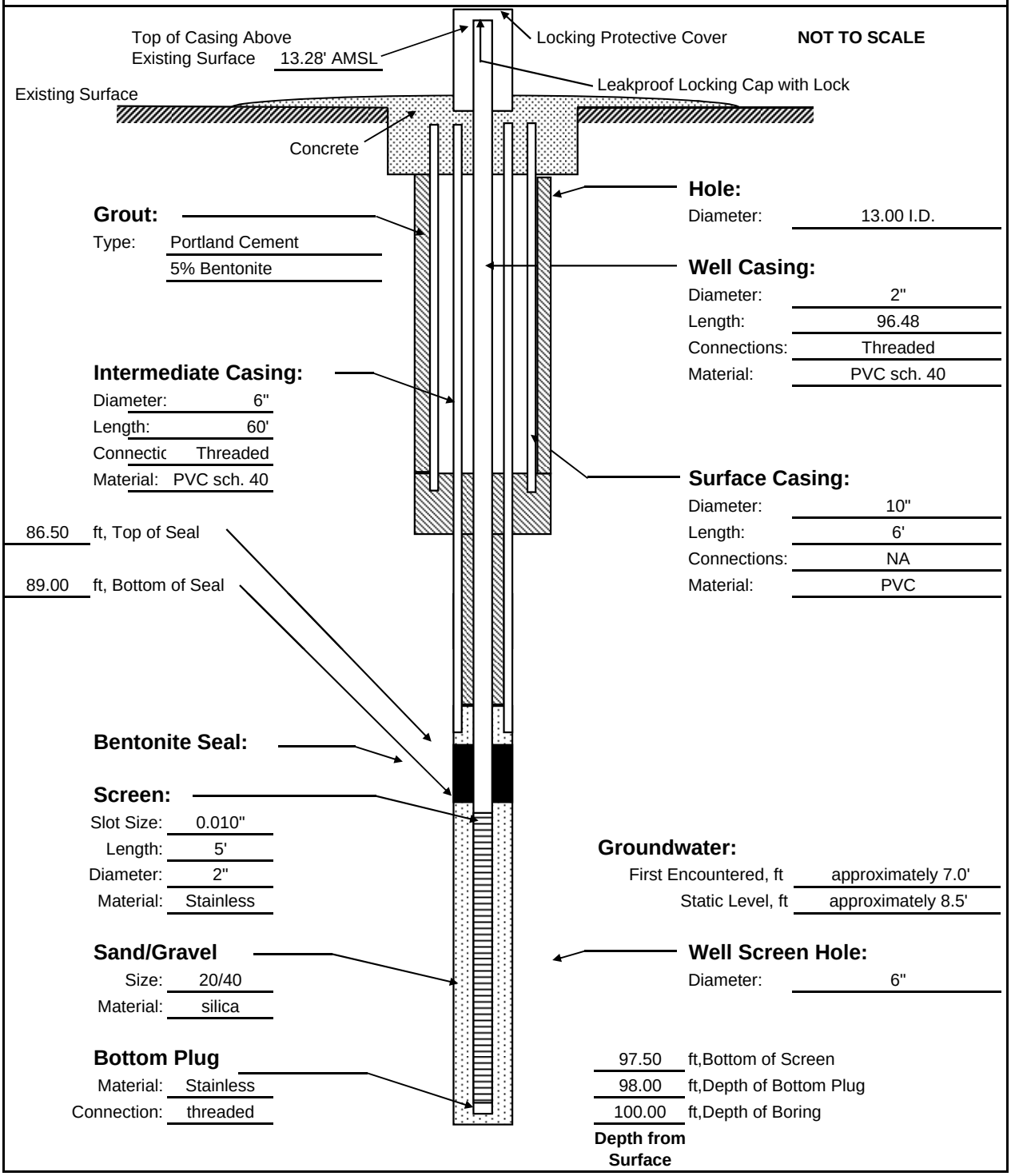
Piezometer Schematic

Project: **ASPA-AWTC Piezometer installation** Well/Boring No.: **PZ-1-D**

Project No.: 11156 Drilling Supervisor: Brent Eanes

Boring Location: **30° 40' 12.57", -88° 02' 34.56"** Date(s): 4.13.12 to 4.19.12

Drilling Method: Mud Rotary Drilling Contractor: G & E Services, Inc.



Eco-Systems, Inc.
Consultants, Engineers and Scientists

Boring Log

Sheet: 1 of 2

Project: **ASPA-AWTC Piezometer Installation** Well/Boring No.: **PZ-13-D**

Project No.: 11156 Date(s): 4.9.12 to 4.12.12 Logged By: C. Brent Eanes

Well/Boring Location: **30° 40' 12.81", -88° 02' 16.63"**

Drilling Method: Mud Rotary Drilling Contractor: G & E Services, Inc.

Depth to Groundwater: 15.87' Date: 4.30.12 Reference: TOC

Elevations - Top of casing: 17.01' AMSL Inner Casing: 17.01' (-78.70') Middle Casing: 14.65' (-42.35')

Outer Casing 14.65'-7.65' Reference: Top of casing AMSL

Water Table: 1.14' AMSL or 15.87' BTOC Date: 4.30.12 (Bottom of casing) BMSL

Remarks: No odors, no staining. 14.65' surveyed ground elevation adjacent to well pad.

Depth (' BGS)	Sample Interval	USCS Designation	Lithologic Description	Graphical Logs: Strata / Well Const (17.01', 14.65')	Geotechnical Sample Number and Corresponding Blow Counts G=Grab sample SS=Split spoon sample WOH=Weight of hammer	Elevation (MSL)
		(SP)	Dry to saturated, brown to orange to gray, poorly graded, fine, Sand and Clayey Sand		G-1	
		(SP)			G-2	
		(SC)			G-3	
		(SC)			SS-4 / 1-1-1-1 ▽	4.65'
10					▼	
		(SP)			SS-5 / 4-7-2	
		(CL)	Moist, gray, firm, Sandy Clay		SS-6 / 2-1-2	-5.35'
20		(SC)			SS-7 / 2-1-1	
		(SP)			SS-8 / 5-7-3	-15.35'
30		(SP)	Saturated, gray/brown/tan/orange, poorly graded, to well graded, fine to coarse, Sand with traces of mica, gravel and Clayey Sands		SS-9 / 6-4-3	
		(SP)			SS-10 / 8-11-11	-25.35'
40		(SP)			SS-11 / 8-14-18	
		(SP)			SS-12 / 9-12-16	-35.35'

Note: Not all portions of this form are applicable to all projects

Apr-12

Eco-Systems, Inc.
Consultants, Engineers and Scientists

Boring Log

Sheet: 2 of 2

Project: **ASPA-AWTC Piezometer Installation** Well/Boring No.: **PZ-13-D**

Project No.: 11156 Date(s): 4.9.12 to 4.12.12 Logged By: C. Brent Eanes

Well/Boring Location: **30° 40' 12.81", -88° 02' 16.63"**

Drilling Method: Mud Rotary Drilling Contractor: G & E Services, Inc.

Depth to Groundwater: 15.87' Date: 4.30.12 Reference: TOC

Elevations - Top of casing: 17.01' AMSL Inner Casing: 17.01' to (-78.70') Middle Casing: 14.65' to (-42.35')

Outer Casing 14.65'-7.65' Reference: Top of casing AMSL

Water Table: 1.14' AMSL or 15.87' BTOC Date: 4.30.12 (Bottom of casing) BMSL

Remarks:

Depth (' BGS)	Sample Interval	USCS Designation	Lithologic Description	Graphical Logs: Strata	Graphical Logs: Well Construction	Geotechnical Sample Number and Corresponding Blow Counts G=Grab sample SS=Split spoon sample WOH=Weight of hammer	Elevation (MSL)
		(SP)	Saturated, gray/brown/tan/orange, poorly graded, to well graded, fine to coarse, Sand with traces of mica, gravel and Clayey Sands			SS-13 / 7-15-14	
60		(SW)				SS-14 / 8-21-26	-45.35'
		(SW)	Moist, mix of Gravel and Clay (GC) 64.5' ft bgs			SS-15 / 15-34-40	
70		(SP)				SS-16 / 15-28-30	-55.35'
		(SW)				SS-17 / 15-25-28	
		(SC-SW)	Saturated, gray/brown/tan/orange, poorly graded, to well graded, fine to coarse, Sand with traces of mica, gravel and Clayey Sands			SS-18 / 17-39-41	-65.35'
80		(SP-SM)				SS-19 / 10-18-22	
		(SP)				SS-20 / 14-19-27	-75.35'
90		(SW)				SS-21 / 25-26-27	
		(SW)	Boring Terminated at 100 ft bgs			SS-22 / 19-28-30	-85.35'

Note: Not all portions of this form are applicable to all projects

Apr-12

Eco-Systems, Inc.
Consultants, Engineers and Scientists

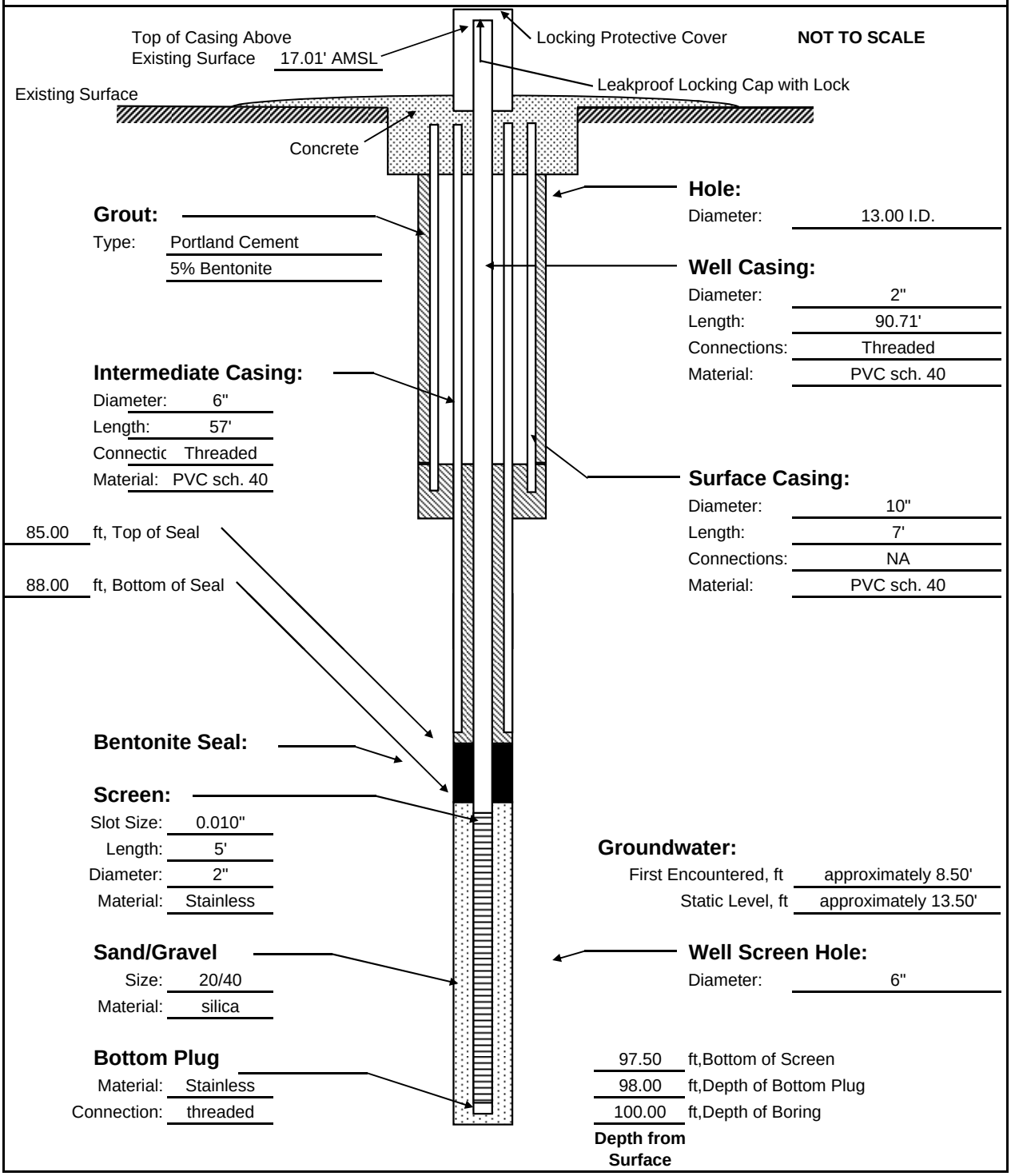
Piezometer Schematic

Project: **ASPA-AWTC Piezometer installation** Well/Boring No.: **PZ-13-D**

Project No.: 11156 Drilling Supervisor: Brent Eanes

Boring Location: 30° 40' 12.81", -88° 02' 16.63" Date(s): 4.9.12 to 4.12.12

Drilling Method: Mud Rotary Drilling Contractor: G & E Services, Inc.



Eco-Systems, Inc.
Consultants, Engineers and Scientists

Boring Log

Sheet: 1 of 1

Project: **ASPA-AWTC Piezometer Installation** Well/Boring No.: **PZ-16-S**

Project No.: 11056 Date(s): 4.16.12 - 4.17.12 Logged By: C. Brent Eanes

Well/Boring Location: **30° 39' 55.53", -88° 02' 18.47"**

Drilling Method: Mud Rotary Drilling Contractor: G & E Services, Inc.

Depth to Groundwater: 8.25' Date: 4.30.12 Reference: TOC

Elevations - Top of casing: 10.40' Inner Casing: 10.40' - (-10.11') Outer Casing: NA

Water Table: 2.15' Date: 4.30.12 Reference: Top of casing AMSL

Remarks: (Bottom of casing) BMSL

No odors, no staining. 7.67' = Surveyed elevation of well identification plate in well pad.

Depth (' BGS)	Sample Interval	USCS Designation	Lithologic Description	Graphical Logs: Strata / Well Const	Geotechnical Sample Number and Corresponding Blow Counts G=Grab sample SS=Split spoon sample WOH=Weight of hammer	Elevation (MSL)
			Dry, crushed rock (fill)	10.40' / 7.67'		
		(SP-SM)			G	
		(SC)			G	
10		(SC)	Dry to saturated, red to dark gray, fine, poorly sorted, Silty Sand, Clayey Sand grading to Sand - Trace shell		SS-1 / 5-6-10-10	-2.33'
		(SP-SM)			SS-2 / 3-5-6	
20		(SP)	Boring Terminated at 20 ft bgs		SS-3 / 2-3-3	-12.33'

Note: Not all portions of this form are applicable to all projects

Apr-12

Eco-Systems, Inc.
Consultants, Engineers and Scientists

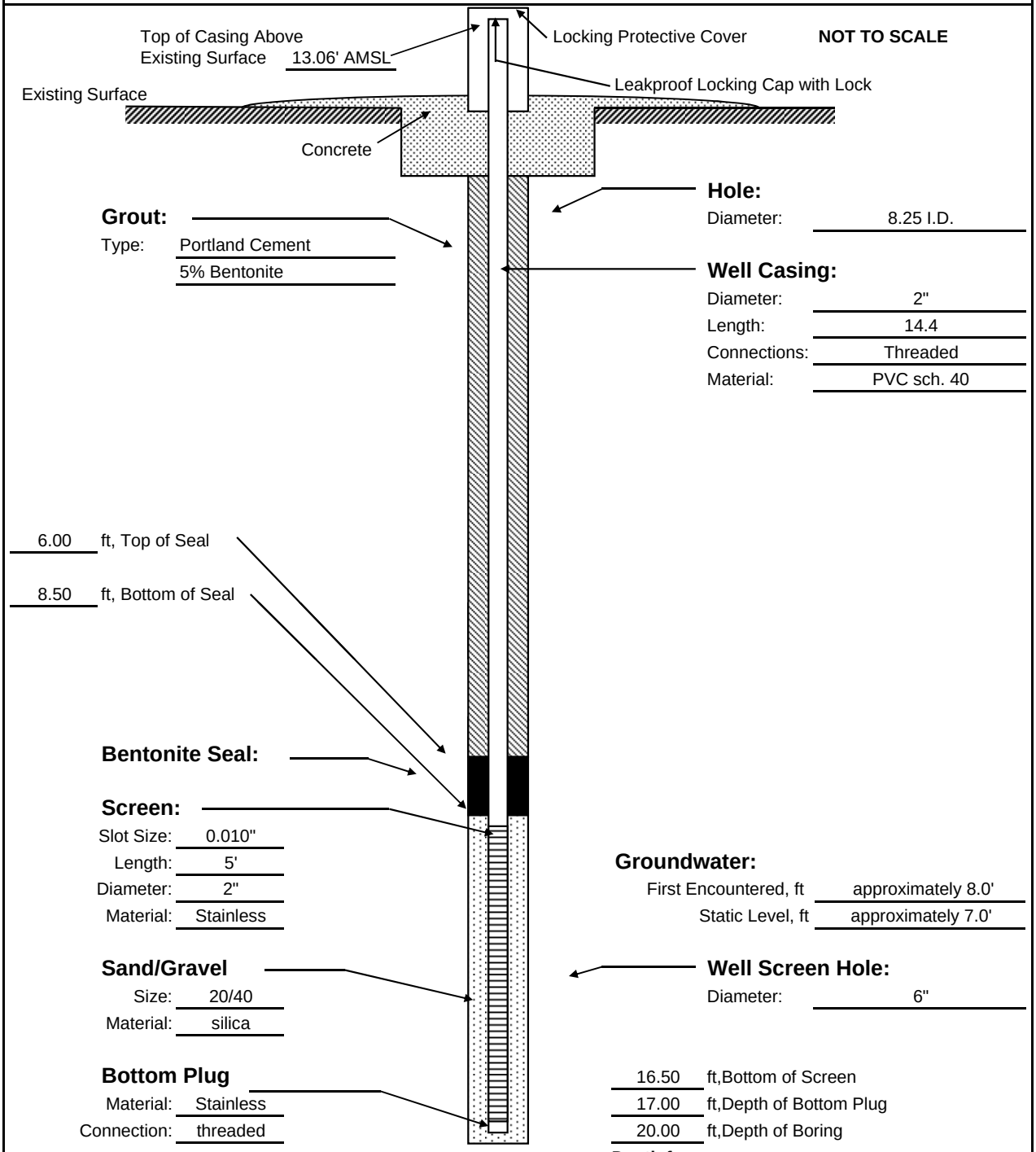
Piezometer Schematic

Project: **ASPA-AWTC Piezometer installation** Well/Boring No.: **PZ-16-S**

Project No.: 11056 Drilling Supervisor: Brent Eanes

Boring Location: **30° 39' 55.53", -88° 02' 18.47"** Date(s): 4.16.12 to 4.17.12

Drilling Method: Mud Rotary Drilling Contractor: G & E Services, Inc.



Eco-Systems, Inc.
Consultants, Engineers and Scientists

Boring Log

Sheet: 1 of 1

Project: **ASPA-AWTC Piezometer Installation** Well/Boring No.: **PZ-19-I**

Project No.: 11056 Date(s): 4.13.12 to 4.17.12 Logged By: C. Brent Eanes

Well/Boring Location: **30° 40' 08.36", -88° 02' 34.26"**

Drilling Method: Mud Rotary Drilling Contractor: G & E Services, Inc.

Depth to Groundwater: 11.25' Date: 4.30.12 Reference: TOC

Elevations - Top of casing: 12.95' AMSL Inner Casing: 12.95' to (-35.00') Outer Casing: 10.32' to (-14.18')

Water Table: 1.70' Date: 4.30.12 Reference: Top of casing AMSL

Remarks: (Bottom of casing) BMSL

No odors, no staining. 10.32' = Surveyed elevation of well identification plate in well completion pad.

Depth (' BGS)	Sample Interval	USCS Designation	Lithologic Description	Graphical Logs: Strata	Graphical Logs: Well Const	Geotechnical Sample Number and Corresponding Blow Counts G=Grab sample SS=Split spoon sample WOH=Weight of hammer	Elevation (MSL)
		(SP)	Dry to moist , brown, fine, poorly graded, Sand		12.95'	SS-1 / 3-3-3-3	
		(SP)			10.32'	SS-2 / 4-3-3-4	
		(SP)				SS-3 / 3-2-2-3	
10		(ML)	Saturated (8.0' ft bgs), gray to orange, soft to very stiff, Sandy Clay grading to Clay			SS-4 / WOH	0.32'
		(CH)				SS-5 / 1-3-3	
20		(CL)				SS-6 / WOH	-9.68'
		(CL)				SS-7 / 1-3-5	
30		(SP-SC)	Saturated, tan to gray, fine, poorly graded, Clayey Sand to Sand			SS-8 / 4-6-8	-19.68'
		(SP-SM)				SS-9 / 6-7-9	
40		(SP)				SS-10 / 6-9-11	-29.68'
		(SP)				SS-11 / 10-12-14	
		(SP)	Boring Terminated at 50 ft bgs			SS-12 / 9-14-16	-39.68'

Note: Not all portions of this form are applicable to all projects

Apr-12

Eco-Systems, Inc.
Consultants, Engineers and Scientists

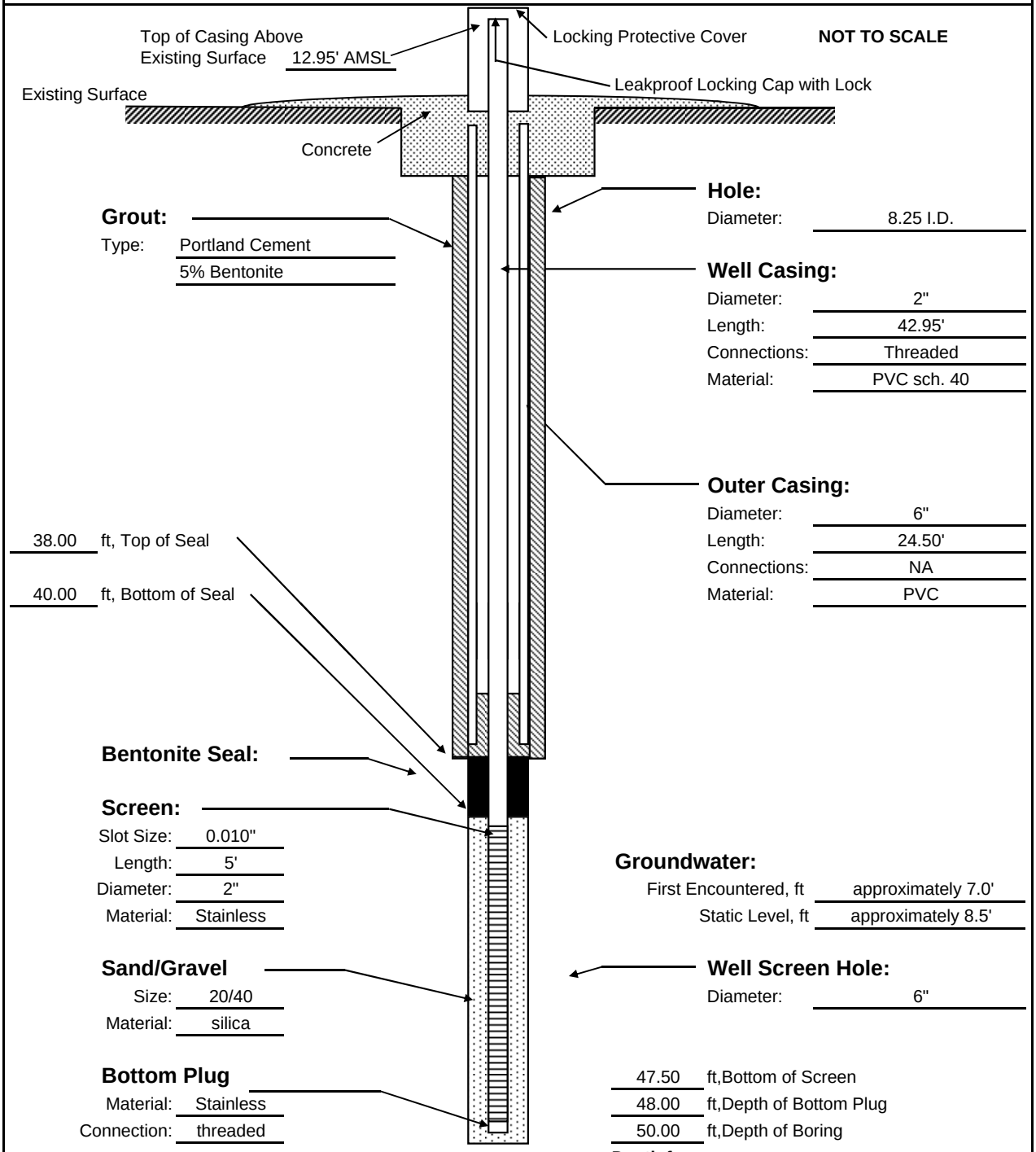
Piezometer Schematic

Project: **ASPA-AWTC Piezometer installation** Well/Boring No.: **PZ-19-I**

Project No.: 11056 Drilling Supervisor: Brent Eanes

Boring Location: **30° 40' 08.36", -88° 02' 34.26"** Date(s): 4.13.12 to 4.17.12

Drilling Method: Mud Rotary Drilling Contractor: G & E Services, Inc.



Eco-Systems, Inc.
Consultants, Engineers and Scientists

Boring Log

Sheet: 1 of 2

Project: **ASPA-AWTC Piezometer Installation** Well/Boring No.: **PZ-30-D**

Project No.: 11156 Date(s): 4.19.12 to 4.23.12 Logged By: C. Brent Eanes

Well/Boring Location: **30° 40' 00.83", -88° 02' 35.65"**

Drilling Method: Mud Rotary Drilling Contractor: G & E Services, Inc.

Depth to Groundwater: 9.60' Date: 4.30.12 Reference: TOC

Elevations - Top of casing: 11.26' AMSL Inner Casing: 11.26' to (-82.75') Middle Casing: 9.31' to (-45.69')

Outer Casing 9.31' - 3.31' Reference: Top of casing AMSL

Water Table: 1.66' AMSL or 11.26' BTOC Date: 4.30.12 (Bottom of casing) BMSL

Remarks: 9.31' = Surveyed elevation of the well identification plate in well pad.

Slight creosote odor and staining present in 13.5-20 ft interval.

Depth (' BGS)	Sample Interval	USCS Designation	Lithologic Description	Graphical Logs: Strata / Well Const	Geotechnical Sample Number and Corresponding Blow Counts (G=Grab sample, SS=Split spoon sample, WOH=Weight of hammer)	Elevation (MSL)
		(SM)	Dry to saturated, brown to black, poorly graded, fine, Sand and Silty Sand (traces of wood)	11.26' / 9.31'	G	
					G	
		(CL)			G	
		(CL)			SS-1 / 1-1-1-1	-9.69'
10			Moist to saturated, gray, soft to stiff, Sandy Clay grading to Silty Clay (slight creosote odor and sheen at approximately 13.5- 20 ft bgs)			
		(CH)			SS-2 / 1-2-3	
		(CH)			SS-3 / 1-2-2	-10.69'
20						
		(SC)			SS-4 / 4-4-4	
		(SP)			SS-5 / 6-5-6	-20.69'
30						
		(SP)	Saturated, gray/brown/tan/orange, poorly graded, to well graded, fine to coarse, Sand with traces of mica, gravel and Clayey Sands		SS-6 / 9-14-14	
		(SP)			SS-7 / 15-17-19	-30.69'
40						
		(SW)			SS-8 / 10-12-15	
		(SW			SS-9 / 8-15-19	-40.69'

Eco-Systems, Inc.
Consultants, Engineers and Scientists

Boring Log

Sheet: 2 of 2

Project: **ASPA-AWTC Piezometer Installation** Well/Boring No.: **PZ-30-D**

Project No.: 11156 Date(s): 4.19.12 to 4.23.12 Logged By: C. Brent Eanes

Well/Boring Location: **30° 40' 00.83", -88° 02' 35.65"**

Drilling Method: Mud Rotary Drilling Contractor: G & E Services, Inc.

Depth to Groundwater: 9.60' Date: 4.30.12 Reference: TOC

Elevations - Top of casing: 11.26' AMSL Inner Casing: 11.26' to (-82.75') Middle Casing: 9.31' to (-45.69')

Outer Casing 9.31' - 3.31' Reference: Top of casing AMSL

Water Table: 1.66' AMSL or 11.26' BTOC Date: 4.30.12 (Bottom of casing) BMSL

Remarks:

Depth (' BGS)	Sample Interval	USCS Designation	Lithologic Description	Graphical Logs: Strata / Well Construction	Geotechnical Sample Number and Corresponding Blow Counts G=Grab sample SS=Split spoon sample WOH=Weight of hammer	Elevation (MSL)
		(SW)	Saturated, gray/brown/tan/orange, poorly graded, to well graded, fine to coarse, Sand with traces of mica, gravel and Clayey Sands		SS-10 / 14-19-20	
60		(SP)			SS-11 / 7-5-4	-50.69'
		(SP)			SS-12 / 5-9-13	
70		(SP)			SS-13 / 14-13-18	-60.69'
		(SW)	Saturated, gray/brown/tan/orange, poorly graded, to well graded, fine to coarse, Sand with traces of mica, gravel and Clayey Sands (organics at 72 ft bgs)		SS-14 / 14-20-16	
80		(SW			SS-15 / 11-13-16	-70.69'
		(GV-CL-SW)	Moist, dark gray, very stiff, Clay (CL) 84.0 ft bgs		SS-16 / 12-18-20	
			Saturated, gray/brown/tan/orange, poorly graded, to well graded, fine to coarse, Sand with traces of mica, gravel and Clayey Sands			
90		(SP)			SS-17 / 12-19-26	-80.69'
		(SP)			SS-18 / 10-12-16	
		(SW-	Saturated, gray, fine to coarse, well graded, Sand and Gravel mix (organics at 100 ft bgs) Boring Terminated at 100 ft bgs		SS-19 / 12-15-20	-90.69'

Note: Not all portions of this form are applicable to all projects

Apr-12

Eco-Systems, Inc.
Consultants, Engineers and Scientists

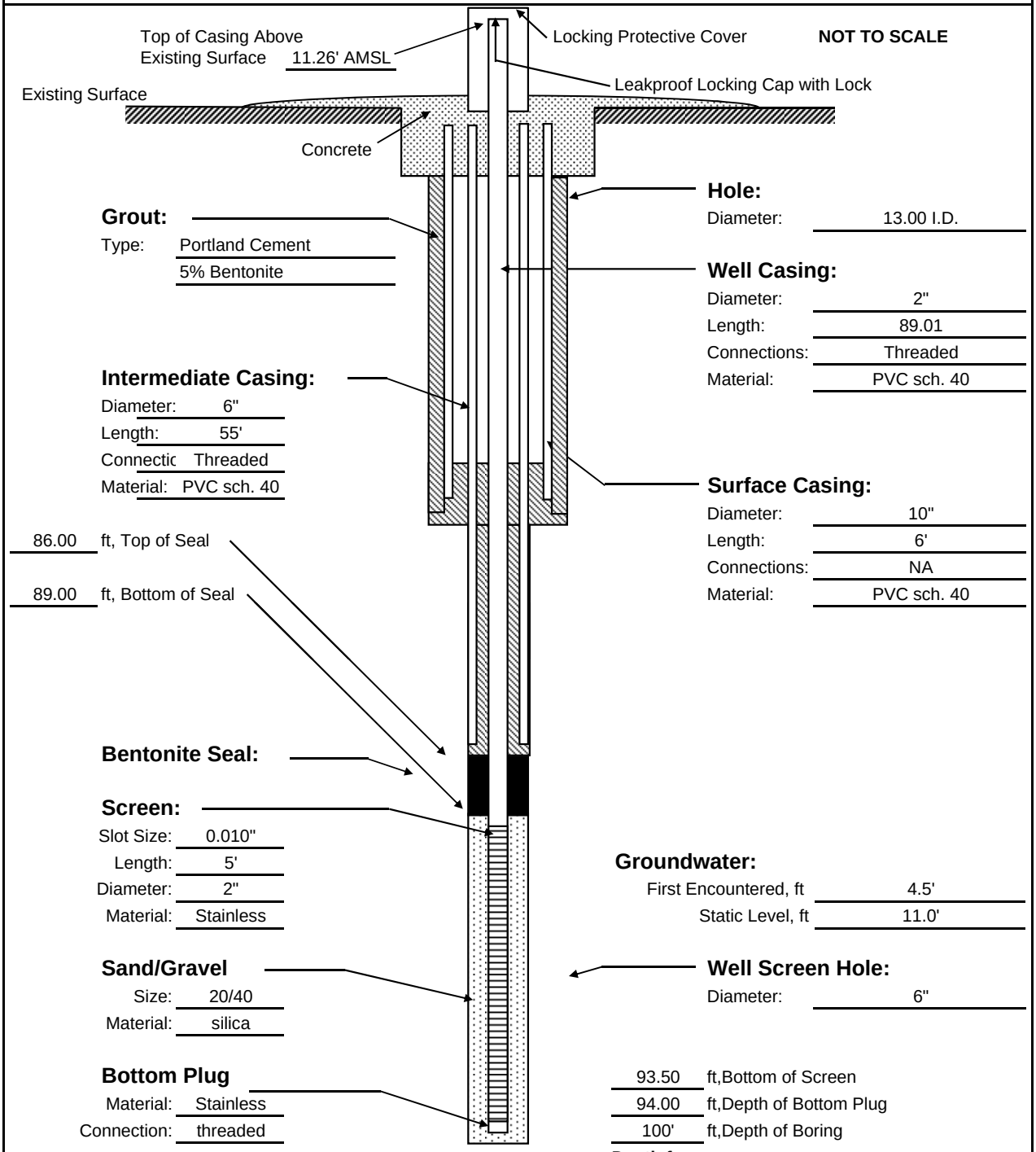
Piezometer Schematic

Project: **ASPA-AWTC Piezometer installation** Well/Boring No.: **PZ-30-D**

Project No.: 11156 Drilling Supervisor: Brent Eanes

Boring Location: **30° 40' 00.83", -88° 02' 35.65"** Date(s): 4.19.12 to 4.23.12

Drilling Method: Mud Rotary Drilling Contractor: G & E Services, Inc.



Environmental Resources Management

Drilling Log

Project: Alabama State Docks Owner:

Location: Background Location Sampling Methods: split spoon

Boring Number: B-6 Total Depth: 121.5' Diameter: 6" bit

Surface Elevation: 9.8 Water Level: Initial: 24-hrs.:

Drilling Company: Thompson Eng. Drilling Method: Mud Rotary

Driller: John Cosby Log By: John Russell Date Drilled: 5/26/86

Comments: Hollow auger stem used to set surface casing

Sketch Map

Notes

Depth (Feet)	Graphic Log	Blow Count per 6-inches	Sample Type/No.	Description/Soil Classification (Color, Texture, Structures)
0			SS1	top 6" med. to coarse, lt-brown sand w/ltl clay matrix; next 6" orange & dk-brown, clayey, fine to med. sand w/some shell frags.
1		11/14	SS2	8" of lt-tan, fine to med. sand
2		10/12	SS3	10" of lt-tan to white, med. sand w/pieces of black cinders & some brown, clayey, med. sand
3		12/18		no recovery
4		5/8	SS4	8" of off-white to lt-gray, med. sand w/shell hash & black organic material
5			SS5	10" of lt-brown to lt-gray, med-coarse sand w/3" of gray, clayey silt
6			SS6	5" of lt-gray, fine-med. sand w/1" layer of black sand
7			SS7	8" of lt-gray silt w/small black streak have oil/grease odor
8			SS8	8" - top 4" black, med. sand; bottom 4" lt-gray, med.sand & oil/grease odors as above
9			SS9	6" of dk-gray to black, med. sand w/oil/grease odors as above
10				
11				
12				
13				
14				
15			SS10	18" of lt- to dk-gray clay
16				
17				
18				
19				
20			SS11	18" as above
21				
22				
23				
24				
25			ST1	bottom of tube orange silty sand

Environmental Resources Management

Drilling Log

Project: Alabama State Docks Owner:

Location: Background Location Sampling Methods: split spoon

Boring Number: B-6 Total Depth: 121.5' Diameter: 6" bit

Surface Elevation: 9.8 Water Level: Initial: 24-hrs.:

Drilling Company: Thompson Eng. Drilling Method: Mud Rotary

Driller: John Cosby Log By: John Russell Date Drilled: 5/26/86

Comments: Hollow auger stem used to set surface casing

Sketch Map

Notes

Depth (Feet)	Graphic Log	Blow Count per 6-inches	Sample Type/No.	Description/Soil Classification (Color, Texture, Structures)
26				
27				
28				
29				
30			SS12	top 12"-orange to lt-brown, fine-med.sand w/tiny black layers/striations intersersed; orange sections are somewhat clayey silt; 1.5" dk-brown clay layer bottom 4" dk-gray clay
31				
32				
33				
34				
35			SS13	top 3"gray clay as above;then 4"of lt-brown/lt-gray med. sand; bottom 5" of coarse, off-white sand
36				
37				
38				
39				
40			SS14	8" of lt-brown/off-white, coarse sand; hard drilling
41				
42				
43				
44				
45			SS15	4" coarse, off-white sand
46				
47				
48				
49				
50		42/50	SS16	top 9" as above; bottom 3" of dk-gray clay as earlier; easier drilling

Environmental Resources Management

Drilling Log

Project: Alabama State Docks Owner:

Location: Background Location Sampling Methods: split spoon

Boring Number: B-6 Total Depth: 121.5' Diameter: 6" bit

Surface Elevation: 9.8 Water Level: Initial: 24-hrs.:

Drilling Company: Thompson Eng. Drilling Method: Mud Rotary

Driller: John Cosby Log By: John Russell Date Drilled: 5/26/86

Comments: Hollow auger stem used to set surface casing

Sketch Map

Notes

Depth (Feet)	Graphic Log	Blow Count per 6-inches	Sample Type/No.	Description/Soil Classification (Color, Texture, Structures)
51				
52				
53				
54				
55			SS17	8" of lt-brown, coarse sand w/some small white quartz pebbles
56				
57				
58				
59				
60			SS18	8" of orange, coarse sand w/1" gravel pieces
61				
62				
63				
64				
65			SS19	4" of lt-orange to dk-orange, coarse sand/gravel w/1.2" of orange silty clay at bottom of spoon
66				
67				
68				
69				
70		1/3 /46	SS20	18" of off-white, coarse sand w/3" layer of lt-gray clay
71				
72				
73				
74				
75		50	SS21	3" lt-brown, coarse sand

Environmental Resources Management

Drilling Log

Project: Alabama State Docks Owner:

Location: Background Location Sampling Methods: split spoon

Boring Number: B-6 Total Depth: 121.5' Diameter: 6" bit

Surface Elevation: 9.8 Water Level: Initial: 24-hrs.:

Drilling Company: Thompson Eng Drilling Method: Mud Rotary

Driller: John Cosby Log By: John Russell Date Drilled: 5/26/86

Comments: Hollow auger stem used to set surface casing

Sketch Map

Notes

Depth (Feet)	Graphic Log	Blow Count per 6-inches	Sample Type/No.	Description/Soil Classification (Color, Texture, Structures)
76				
77				
78				
79				
80		50	SS22	4" above w/pebbles and 1/4" layer of black, clayey sand w/natural organic odor
81				
82				
83				
84				
85		50	SS23	8" lt-brown/off-white, coarse sand
86				
87				
88				
89				
90		44/36/30	SS24	10"-top 5" is brown, coarse sand; bottom 5" of lt-gray/off-white, coarse sand
91				
92				
93				
94				
95		18/40/28	SS25	7"of off-white/lt-gray, very coarse sand to pea gravel w/black, clayey organic layers (1/2")
96				
97				
98				
99				
100			SS26	6" lt- to dk-gray, very coarse sand

Environmental Resources Management

Drilling Log

Project: Alabama State Docks Owner:

Location: Background Location Sampling Methods: split spoon

Boring Number: B-6 Total Depth: 121.5' Diameter: 6" bit

Surface Elevation: 9.8 Water Level: Initial: 24-hrs.:

Drilling Company: Thompson Eng. Drilling Method: Mud Rotary

Driller: John Cosby Log By: John Russell Date Drilled: 5/26/86

Comments: Hollow auger stem used to set surface casing

Sketch Map

Notes

Depth (Feet)	Graphic Log	Blow Count per 6-Inches	Sample Type/No.	Description/Soil Classification (Color, Texture, Structures)
101				
102				
103				
104				
105		6/15/23	SS27	16" of dk-gray clay w/large chunk of black wood
106				
107				
108		7/16/18	SS28	18" of black to very dk-brown wood/organics (highly decomposed wood)
109				
110				
111				
112				
113				
114				
115		8/13/15	SS29	18" lt-gray/bluish gray, silty clay to clayey silt
116				
117				
118				
119				
120		7/13/18	SS30	18" of above; boring terminated at 121.5'.

Environmental Resources Management

Drilling Log

Project: Alabama State Docks Owner:

Location: Sampling Methods: split spoon

Boring Number: B-6D Total Depth: 96.5 Diameter: 6" bit

Surface Elevation: 7.4' Water Level: Initial: 24-hrs.:

Drilling Company: Thompson Eng Drilling Method: Mud Rotary

Driller: Henry Presley Log By: John Russell Date Drilled: 6/24/86

Comments:

Sketch Map

Notes

Depth (Feet)	Graphic Log	Blow Count per 6-inches	Sample Type/No.	Description/Soil Classification (Color, Texture, Structures)
0			SS1	6" - top 3" shell hash w/silt; bottom 3" red, fine sand
1			SS2	top 3" black, organic-rich, clayey, fine sand w/possible odor (?)
2			SS3	8"-lt-gray, fine sand w/faint black striations but no distinguishable odors
3			SS4	7" as above but more brown in color
4			SS5	10" lt-gray, clayey silt to fine sand w/black and brown organic striations (1/8-1/4") - no odor
5			SS6	10" lt-gray, fine sand w/striations - no odor
6			SS7	5" as above w/black, organic striations - no odor
7			SS8	4" dk-gray to off-white, coarse sand w/no odor
8				as above
9			SS9	8" - dk-gray to black, clayey, organic-rich, silt to fine sand w/heavy creosote(?) odor
10			SS10	10"-lt- to dk-gray, clayey silt to fine sand w/organics and distinct odor
11			SS11	10"-as above w/odor
12			SS12	10"-as above w/black creosote zones (saturated) and some organics
13			SS13	6"-gray, med. sand w/slight odor
14			SS14	8"-as above w/black spots and odors
15			SS15	10"-as above
16			SS16	4"-as above w/no black spots
17				as above
18			SS17	6" lt-gray, fine sand w/odors
19			SS18	8"-as above
20				
21				
22		7/9/15	SS19	16" gray, creosote-stained, med. sand - distinct odor (creosote)
23				
24				
25			SS20	14" off-white, med. sand w/odor

Environmental Resources Management

Drilling Log

Project Alabama State Docks Owner

Location Sampling Methods

Boring Number B-6D Total Depth 96.5 Diameter 6" bit

Surface Elevation 7.4' Water Level: Initial 24-hrs.

Drilling Company Thompson Eng. Drilling Method Mud Rotary

Driller Henry Presley Log By John Russell Date Drilled 6/24/86

Comments

Sketch Map

Notes

Depth (Feet)	Graphic Log	Blow Count per 6 Inches	Sample Type/No.	Description/Soil Classification (Color, Texture, Structures)
26				
27				
28				
29				
30				
31				
32				
33				
34				
35			SS21	8" off wht, med. sand w/slight odor
36				
37				
38				
39				
40				
41				
42				
43				
44				
45		12/31 /36	SS22	14" as above w/stronger odor
46				
47				
48				
49				
50				

Environmental Resources Management

Drilling Log

Project Alabama State Docks Owner

Location Sampling Methods split spoon

Boring Number B-6D Total Depth 96.5 Diameter 6" bit

Surface Elevation 7.4' Water Level: Initial 24-hrs.

Drilling Company Thompson Eng. Drilling Method Mud Rotary

Driller Henry Presley Log By John Russell Date Drilled 6/24/86

Comments

Sketch Map

Notes

Depth (Feet)	Graphic Log	Blow Count per 6-inches	Sample Type/No.	Description/Soil Classification (Color, Texture, Structures)
51				
52				
53				
54				
55		24/39/38	SS23	14" lt brown, med. to coarse sand w/odor
56				
57				
58				
59				
60				
61				
62				
63				
64				
65		33/33	SS24	12" lt brwn, med. sand w/odor
66				
67				
68				
69				
70				
71				
72				
73				
74				
75			SS25	14" lt brwn, med. to very coarse sand w/pebble frags. and small clay layer - all w/odors

Environmental Resources Management

Drilling Log

Project Alabama State Docks Owner

Location Sampling Methods

Boring Number B-6D Total Depth 96.5 Diameter 6" bit

Surface Elevation 7.4' Water Level: Initial 24-hrs.

Drilling Company Thompson Eng. Drilling Method Mud Rotary

Driller Henry Presley Log By John Russell Date Drilled 6/24/86

Comments

Sketch Map

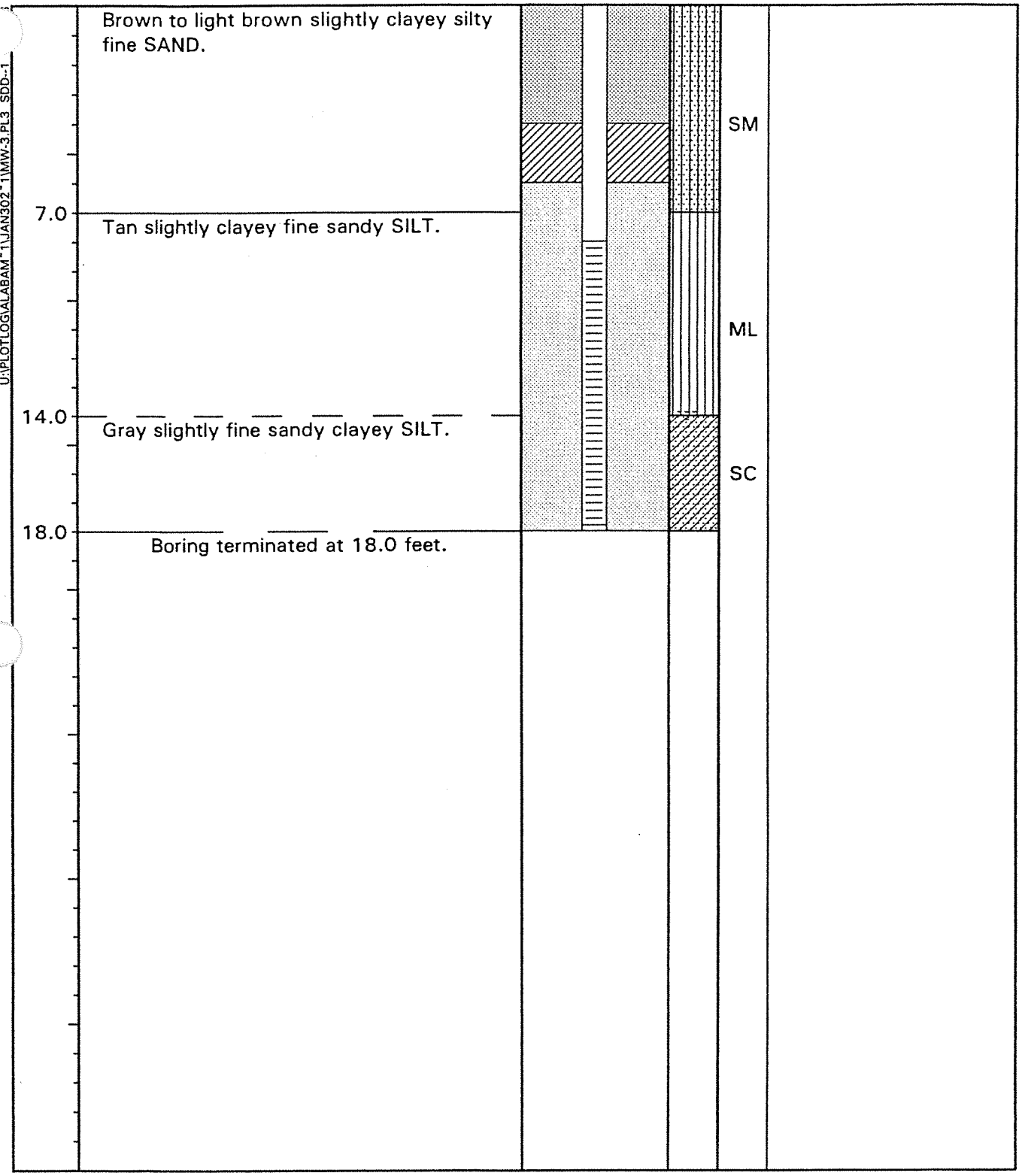
Notes

Depth (Feet)	Graphic Log	Blow Count per 6-inches	Sample Type/No.	Description/Soil Classification (Color, Texture, Structures)
76				
77				
78				
79				
80				
81				
82				
83				
84				
85		14/50	SS26	12" off wht/lt brwn, coarse sand w/pebbles and slight odors
86				
87				
88				
89				
90		25/50	SS27	12" as above w/possible odors(?)
91				
92				
93				
94				
95		6/17 /14	SS28	18" lt gray clay; boring terminated at 96.5'
96				
97				
98				
99				
100				

TEST BORING RECORD

DEPTH (FEET)	DESCRIPTION	WELL DIAGRAM	SYMBOL USCS	Comments
	Brown to light brown slightly clayey silty fine SAND.		SM	
7.0	Tan slightly clayey fine sandy SILT.		ML	
14.0	Gray slightly fine sandy clayey SILT.		SC	
18.0	Boring terminated at 18.0 feet.			

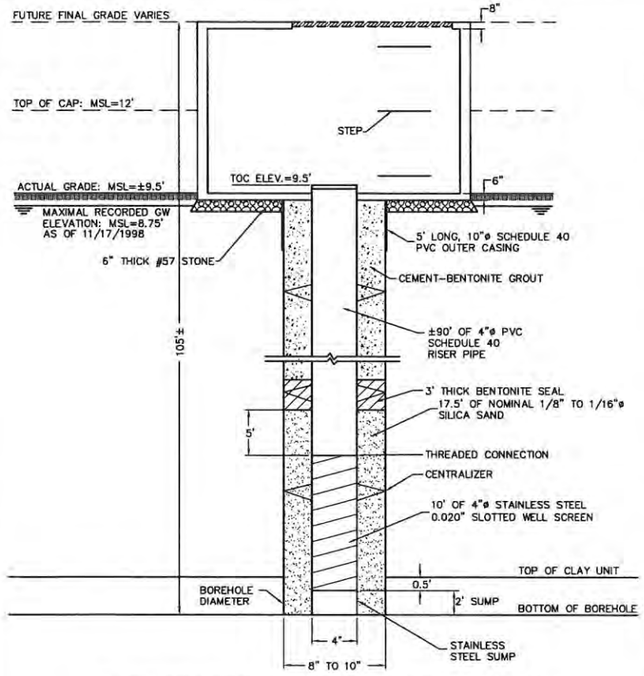
U:\PLOTLOG\ALABAM~1\JAN302~1\MW-3.PL3 SDD--1



REMARKS:

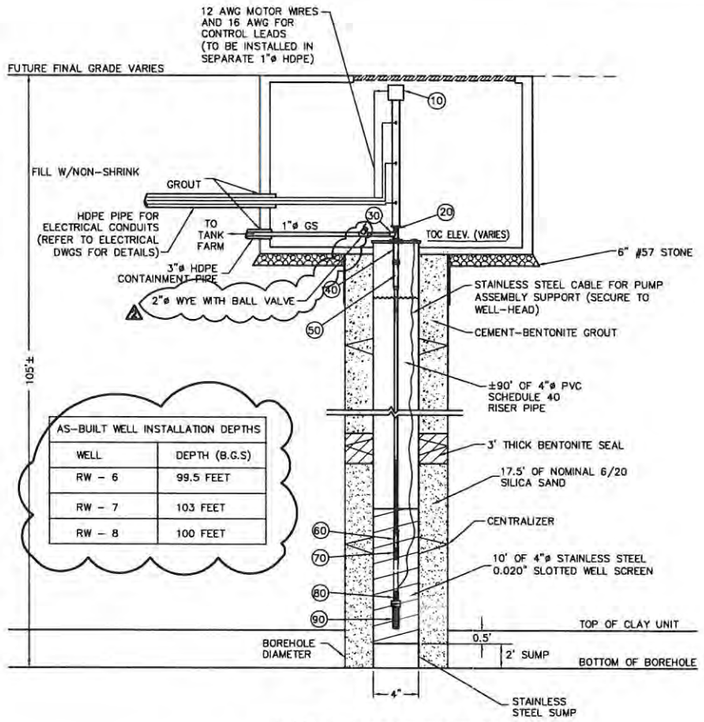
DRILLED BY	G&E Services	BORING NUMBER	S11-MW-1
LOGGED BY	Steve Freeman	DATE STARTED	1/30/03
CHECKED BY	Stacy Durden	DATE COMPLETED	1/30/03
APPROVED BY	N. Thompson	JOB NUMBER	12000-2-0014

MACTEC



NOTE: RISER PIPE IN THE EXISTING RECOVERY WELLS RW-3, RW-4 AND RW-5 AND MONITORING WELLS MW-6-S, MW-6-I, MW-7-S, MW-7-IR, MW-7-D, MW-11-S, MW-11-I, MW-12-I, MW-13-I, MW-14-D AND MW-25-I TO BE EXTENDED AS REQUIRED (APPROXIMATELY 3 FT AT EACH WELL LOCATION).

RECOVERY WELL INSTALLATION
NOT TO SCALE



AS-BUILT WELL INSTALLATION DEPTHS	
WELL	DEPTH (B.G.S)
RW - 6	99.5 FEET
RW - 7	103 FEET
RW - 8	100 FEET

RECOVERY WELL EQUIPMENT INSTALLATION
NOT TO SCALE

FINAL CLEANING AND DEMOBILIZATION

1. REMOVE ALL EQUIPMENT, VEHICLES, MATERIALS AND DEBRIS CREATED BY OR BROUGHT ON SITE BY CONTRACTOR.
2. FINAL CLEANUP OF THE SITE AS SPECIFIED ABOVE MUST BE COMPLETED PRIOR TO FINAL ACCEPTANCE OF THE WORK.

TRANSPORTATION AND DISPOSAL

1. CONTAIN ALL SOIL CUTTINGS AND DRILLING FLUIDS IN WATERTIGHT CONTAINERS (DRUMS) PENDING ANALYSIS AND PROPER DISPOSAL. CONTRACTOR SHALL PROVIDE ENGINEER ANALYTICAL RESULTS PRIOR TO TRANSPORT AND DISPOSAL OF MEDIA. MEDIA SHALL BE DISPOSED OF IN ACCORDANCE WITH SPECIFICATIONS.
2. CONTRACTOR SHALL PROVIDE AND PREPARE CONTAINERS FOR TRANSPORT, MANAGE AND SCHEDULE THE TRANSPORT AND DISPOSAL (EXCAVATED SOIL, DRILLING FLUID AND GROUND WATER) AS APPROPRIATE.
3. DECONTAMINATE ALL THE VEHICLES EXITING THE SITE.
4. TRANSPORTATION OF WASTE MEDIA SHALL COMPLY WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

GENERAL NOTE:

CONTRACTOR SHALL COMPLY WITH OSHA HAZWOPER REGULATIONS FOR HAZARDOUS WASTE SITES. CONTRACTOR MUST DEVELOP, FOLLOW AND BE RESPONSIBLE FOR IMPLEMENTIING THEIR OWN HEALTH AND SAFETY PLAN.

EQUIPMENT LIST

* (10) ELECTRICAL ANCHOR PUMP MODEL 101E BY BLACKHAWK OR APPROVED EQUAL (REDUCED ABOVE WELL HEIGHT OF 36.5")
* (20) STUFFING BOX
* (30) DISCHARGE TEE (HEIGHT OF 5.5")
* (40) RISER PIPE
* (50) DRIVE ROD
* (60) PISTON CYLINDER ASSEMBLY
* (70) PISTON
* (80) FOOT VALVE
* (90) SCREEN (REMOVABLE)

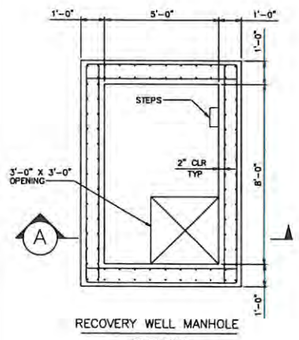
* - EQUIPMENT PROVIDED BY PUMP MANUFACTURER (BLACKHAWK, INC.)

WELL RW-6, RW-7 AND RW-8 INSTALLATION INSTRUCTIONS:

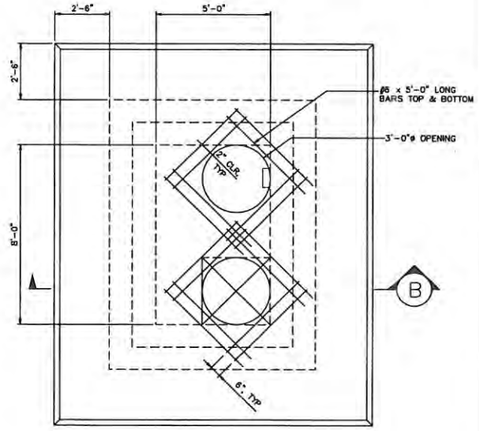
1. STEAM CLEAN ALL DRILLING EQUIPMENT AND DOWNHOLE TOOLS PRIOR TO INITIATION OF DRILLING.
2. ROTARY WASH OR AIR ROTARY DRILLING TECHNIQUES SHALL BE USED TO DRILL THE BOREHOLE.
3. RECOVERY WELL SHALL BE DRILLED TO THE SPECIFIED DEPTH OF ABOUT 105 FEET (2.5-FT INTO CLAY UNIT). RECOVERY SHALL HAVE A BOREHOLE DIAMETER OF AT LEAST 8 INCHES TO ACCOMODATE A 4-INCH DIAMETER WELL CASING WITH CENTRALIZERS.
4. RECOVERY WELL SHALL BE CONSTRUCTED OF 4-INCH DIAMETER PVC SCHEDULE 40 RISER PIPE, 5 FEET LONG 10" DIAMETER PVC OUTER CASING AND 2-FT DEEP STAINLESS STEEL SUMP INSTALLED AT ITS BOTTOM.
5. WELL SCREEN SHALL CONSIST OF APPROXIMATELY 10 FEET LONG, CONTINUOUS WRAP, 0.020-INCH SLOTTED SECTION. RISER PIPE SHALL CONSIST OF ABOUT 90 FEET IN LENGTH OF 4-INCH DIAMETER PVC SCHEDULE 40 PIPE. THE RISER PIPE SHALL TERMINATE APPROXIMATELY 1 FOOT ABOVE VAULT BOTTOM (AT AN ELEVATION OF 9.5 FT BGS) IN ORDER TO ACCOMODATE PIPING AND PUMP DRIVER. AT LEAST 4 SETS OF CENTRAUZERS SHALL BE ATTACHED TO THE WELL CASING.
6. RECOVERY WELL SHALL BE CONSTRUCTED WITH A FILTER PACK CONSISTING OF 6/20 CLEAN SILICA CLEAN SAND. THE FILTER PACK SHALL BE PLACED AT THE BOTTOM OF THE BOREHOLE AND UP THROUGH ANNULUS. THE RECOVERY WELL SHALL BE PUMPED AFTER INSTALLATION OF THE FILTER PACK AND PRIOR TO INSTALLATION OF THE BENTONITE-PELLET SEAL TO CONSOLIDATE THE FILTER PACK. A 2 TO 3 FOOT THICK BENTONITE SEAL SHALL BE PLACED ON TOP OF THE FILTER PACK AND HYDRATED. A CEMENT-BENTONITE GROUT SHALL BE PLACED ABOVE THE BENTONITE-PELLET SEAL TO WITHIN 1.5 FEET OF THE TOP OF THE WELL CASING. CONTRACTOR TO BE RESPONSIBLE FOR SUPPORTING THE RECOVERY WELL PUMP AND MOTOR.
7. WELL SHALL BE COMPLETED WITH A MANHOLE CONSTRUCTED AS SHOWN ON THIS SHEET.
8. THE RECOVERY WELL SHALL BE DEVELOPED UNDER ENGINEER AND/OR OWNER NOT LESS THAN 24 HOURS AFTER INSTALLATION OF THE CEMENT BENTONITE GROUT. WELL SHALL BE FREE OF SEDIMENT AND DEBRIS PRIOR TO INSTALLATION OF RECOVERY WELL EQUIPMENT.

EXISTING WELL RW-3, RW-4 AND RW-5 PROTECTION PROCEDURE:

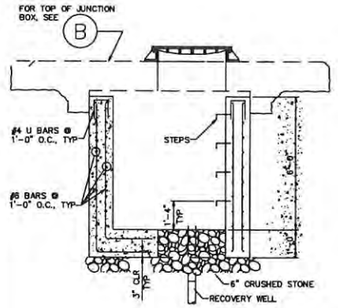
1. RECOVERY WELLS RW-3, RW-4 AND RW-5 SHALL BE PROTECTED DURING SOIL COVER CONSTRUCTION. PROTECTION SHALL CONSIST OF 4' DIAMETER, 6' LONG SECTION OF REINFORCED CONCRETE PIPE (OR APPROVED EQUAL) INSTALLED ON ACTUAL GROUND ELEVATION.
2. AFTER CAP COMPLETION, THE WELL CASING SHALL BE EXTENDED TO MSL OF 9.5'. WELL SHALL BE COMPLETED WITH A CONCRETE MANHOLE, SUCH AS SHOWN ON THIS DRAWING (PROVIDED BY MOFFAT & NICHOLS, INC.)



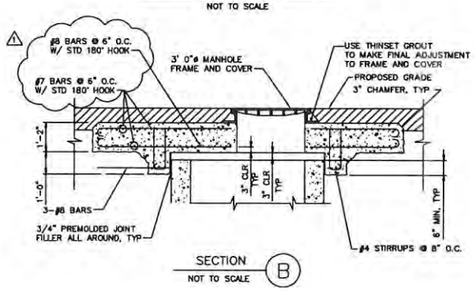
RECOVERY WELL MANHOLE
NOT TO SCALE



RECOVERY WELL MANHOLE TOP
NOT TO SCALE



SECTION A
NOT TO SCALE



SECTION B
NOT TO SCALE

MANHOLE NOTES:

1. C.I. FRAME WITH DUCTILE IRON COVER SHALL BE NEENAH R-3492C (RATED FOR 145,000 POUND MINIMUM WHEEL LOAD) OR APPROVED EQUAL.
2. ALL MANHOLE COVERS SHALL BE BOLTED TO THE FRAME.
3. WHEN LIFTING THE PRECAST JUNCTION BOX, A BAR SHALL BE PLACED HORIZONTALLY THROUGH THE LIFTING HOLES, PROVIDED AT THE TIME OF MANUFACTURE. THE LIFTING DEVICES SHALL BE PLACED ONLY ON THAT BAR. THE BAR AND HOLES SHALL BE AS APPROVED BY THE ENGINEER. THE LIFTING HOLES SHALL BE FILLED WITH GROUT AFTER THE JUNCTION BOX IS IN POSITION.
4. SPLICE LENGTHS REQUIRED FOR REINFORCING BARS: #4 BAR, 2'-8"; #5 BAR, 3'-4"; #6 BAR, 4'-0"; #7 BAR, 5'-10".
5. CONCRETE STRENGTH AT 28 DAYS SHALL BE A MINIMUM OF 4,000 PSI FOR CAST-IN PLACE JUNCTION BOXES, AND 5,000 PSI FOR PRECAST JUNCTION BOXES.
6. REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60.
7. JUNCTION BOX TOP SHALL BE CAST IN PLACE TO ALLOW ADJUSTMENT.

MANHOLE DESIGN PROVIDED BY MOFFAT & NICHOLS, INC. (JANUARY 2003).

⚠ REINFORCEMENT REVISED BY MOFFAT AND NICHOL
⚠ PRESSURE RELIEF VALVE REPLACED W/ WYE

REVISIONS

NO.	DATE	DESCRIPTION	APPROVED
0	12/5/03	ISSUED FOR BID	
⚠	2/12/04	REVISED REINFORCEMENT	
	4/11/05	AS-BUILTS	

DESIGNED BY: M. ILIC
DRAWN BY: C. BUDSOCK
CHECKED BY: P. PAUQUETTE
DRAWING DATE: 12/4/02

MACTEC
3200 TOWN POINT DRIVE, NW
Kennesaw, GA 30144
770-421-3400

CORRECTIVE MEASURES IMPLEMENTATION
ALABAMA STATE PORT AUTHORITY
AWTC SITE AND AREA
MOBILE, ALABAMA

DNAPL RECOVERY WELL AND EQUIPMENT INSTALLATION (AS-BUILT)

M1

Appendix C

Closure Documentation

9100234?

NOTICE OF RESTRICTIONS ON USE

WHEREAS, the Alabama State Docks Department owns certain property located in Mobile County, Alabama, which is more particularly described on Exhibit A which is attached hereto and made a part hereof (the "Property"); and

WHEREAS, in instances where land has been used to manage K001 waste, Subpart G of Part 264 of Chapter 40 of the Code of Federal Regulations and Rule 335-14-5-.07 of the Administrative Code of the Alabama Department of Environmental Management require that the owner of such property place on record a specified notice regarding the use of such property; and

WHEREAS, the Property has been used for the management of soils which were, at one time, in contact with K001 waste, as defined in Subpart I of Part 264 of Chapter 40 of the Code of Federal Regulations, such that a notice regarding the use of the Property is required.

NOW, THEREFORE, in order to comply with the rule and regulation referred to above, the Alabama State Docks Department does hereby give notice of the following:

(1) The Property has been used for the management and storage of soils which were, at one time, in contact with K001 waste.

RP 3670 PG 004

RP 3720 PG 638

(2) Post-closure use of the Property on or in which such waste remains after partial or final closure must never be allowed to disturb the integrity of the final cover, liner(s), or any other components of the containment system or the function of the facility's monitoring systems, unless the Alabama Department of Environmental Management and/or Environmental Protection Agency find that the disturbance:

(a) is necessary to the proposed use of the property and will not increase the potential hazard to human health or the environment; or

(b) is necessary to reduce a threat to human health or the environment.

(3) A survey plat of the Property and a record of the type, location and quantity of the waste disposed of within the Property have been filed with the Planning Commission of the City of Mobile and the Alabama Department of Environmental Management.

(4) Henceforth, the concrete slab over the Property will not be used for anything other than roadways, parking lots or paved open storage areas.

IN WITNESS WHEREOF, the Alabama State Docks has caused this instrument to be duly executed on this 11th day of January, 1991.

ALABAMA STATE DOCKS DEPARTMENT

By: C. J. Fuller

Its: Asst. Director

STATE OF ALABAMA,
COUNTY OF MOBILE.

I, the undersigned Notary Public in and for said County in said State, hereby certify that C. J. Fuller, whose name as Asst. Director of the ALABAMA STATE DOCKS DEPARTMENT, is signed to the foregoing instrument and who is known to me, acknowledged before me on this day that, being informed of the contents of said instrument, he, as such officer and with full authority, executed the same voluntarily on the day the same bears date for and as the act of said Corporation.

Given under my hand and seal on this 11th day of January, 1991.

Helma M. Bauer
NOTARY PUBLIC

MY COMMISSION EXPIRES
AUGUST 11, 1991

This Instrument Prepared By:

Thomas E. Sharp, III, Esq.
Vickers, Riis, Murray and Curran
8th Floor, First Alabama Bank Building
Mobile, Alabama 36602

RECORD FEE 8.50
STATE OF ALA. MOBILE CO.
I CERTIFY THIS INSTRUMENT
WAS FILED & RECORDED
JAN 11 1 41 PM '91

JUDGE OF PROBATE

RP 3670 PG 006

RP 3720 PG 640

EXHIBIT A

Commencing at the intersection of the west right of way line of Water Street and the north line of Choctaw Point tract, run south 08°-00'-22" west 539.85 feet to the point of beginning of the property herein described; thence south 81°-43'-54" east 227.96 feet; thence south 08°-01'-07" west 161.17 feet; thence south 69°-04'-09" west 160.23 feet; thence north 81°-52'-11" west 68.68 feet; thence north 36°-06'-46" west 28.39 feet; thence north 08°-12'-04" east 219.21 feet to the point of beginning.

RP 3720 PG 641

RECORD FEE
STATE OF ALA. MOBILE CO.
I CERTIFY THIS INSTRUMENT
WAS FILED & RECORDED

MAY 17 3 52 PM '91

MTG TAX
MTG EXMP TAX
DEED TAX
TRS
BEEN PD. ON THIS INSTRUMENT

JUDGE OF PROBATE

RECORD OF K001 WASTE
MANAGEMENT UNIT

The Alabama State Docks Department, as owner of the property described on Exhibit A and on the survey plat which accompanies this document and which is made a part hereof, files this document pursuant to Subpart G of Part 264 of Chapter 40 of the Code of Federal Regulations and Rule 335-14-5-.07 of the Administrative Code of the Alabama Department of Environmental Management. The property which is described on Exhibit A, being the area designated in the attached survey plat as a K001 waste management unit, is being used for the management of soils which were, at one time, in contact with K001 waste. K001 is the EPA designation for "Bottom Sediment Sludge from the Treatment of Wastewaters from Wood Preserving Processes that use Creosote and/or Pentachlorophenol." All bottom sediment sludge has been removed from the K001 waste management unit which now contains approximately 106 cubic yards of soils which were, at one time, in contact with K001 waste.

I hereby certify, as required by the above mentioned rule and regulation, that the Alabama State Docks Department has recorded in the office of the Judge of Probate of Mobile County, Alabama, a Notice of Restrictions on Use of the property described on Exhibit A attached hereto.

Dated this 11th day of January, 1991.

ALABAMA STATE DOCKS DEPARTMENT

By: _____

Its: Asst. Director

STATE OF ALABAMA,
COUNTY OF MOBILE.

I, the undersigned Notary Public in and for said County in said State, hereby certify that A. J. Pollox, whose name as Asst. Director of the ALABAMA STATE DOCKS DEPARTMENT, is signed to the foregoing instrument and who is known to me, acknowledged before me on this day that, being informed of the contents of said instrument, he, as such officer and with full authority, executed the same voluntarily on the day the same bears date for and as the act of said Corporation.

Given under my hand and seal on this 11th day of January, 1991.

Helma M. Bowers
NOTARY PUBLIC

MY COMMISSION EXPIRES
AUGUST 11, 1991

EXHIBIT A

Commencing at the intersection of the west right of way line of Water Street and the north line of Choctaw Point tract, run south 08°-00'-22" west 539.85 feet to the point of beginning of the property herein described; thence south 81°-43'-54" east 227.96 feet; thence south 08°-01'-07" west 161.17 feet; thence south 69°-04'-09" west 160.23 feet; thence north 81°-52'-11" west 68.68 feet; thence north 36°-06'-46" west 28.39 feet; thence north 08°-12'-04" east 219.21 feet to the point of beginning.

WARE LIND FURLOW ENGINEERS, INC.

GEOTECHNICAL AND EARTH SCIENCE CONSULTANTS

SITE ASSESSMENT • DESIGN
TECHNICAL SUPPORT • MONITORING

859 PEAR ORCHARD ROAD • POST OFFICE BOX 13955 • JACKSON, MISSISSIPPI 39236-3955 • AREA CODE 601: 956-4467

September 25, 1990

AWTC Joint Technical Committee
c/o Dr. Fred Ziegler
ERM - Southeast, Inc.
Post Office Box 881
Brentwood, Tennessee 37027

Report No. 87066

Certification of Closure
Alabama Wood Treating Company Facility
Mobile, Alabama

Gentlemen:

Submitted herein is the summary report of the closure of the Alabama Wood Treating Company facility located in Mobile, Alabama. This report includes information obtained during monitoring and inspection of the closure activities performed at the facility during the period June 8, 1987 to February 25, 1990.

Monitoring and inspection services for the purpose of Quality Assurance were provided by a representative of Ware Lind Furlow Engineers for all closure activities. The closure activities of the Contractors were performed in general accordance with the Interim Status Closure Plan dated July 1, 1986, Addendums to the Interim Status Closure Plan dated March 24, 1988 and August 5, 1988, Contract Plans and Specifications dated November, 1986, and the revised Contract Plans and Specifications dated July, 1988.

We appreciate this opportunity to provide you with our services. If we can answer any questions or provide any additional data, please call on us.

Very truly yours,

WARE LIND FURLOW ENGINEERS, Inc.

Charles R. Furlow

Charles R. Furlow, P. E.

CRF/cw

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

WARE LIND FURLOW ENGINEERS, Inc.

Charles R. Furlow, President

September 25, 1990
Date

We hereby certify that this report was prepared by Ware Lind Furlow Engineers under our direct supervision and that Eugene G. Wardlaw is a duly Registered Professional Engineer under the laws of the State of Alabama.

WARE LIND FURLOW ENGINEERS, Inc.

Charles R. Furlow, President

Eugene G. Wardlaw, Vice President

September 25, 1990
Date

CERTIFICATION BY OWNER/OPERATOR

We do hereby certify that all activities have been accomplished in general accordance with the approved closure plan and plans and specifications and each party understood and accepted the areas of responsibility and that they performed their function(s) in accordance with the approved Plan.

ERM Southeast
Design Engineer

Alabama State Docks
Owner

Ware Lind Furlow Engineers, Inc.
Control Quality Assurance Officer

AET
Construction Contractor

2018055808 1/6
Bk: LR7684 Pg:1063
Document Type: D

Mobile County,Alabama
Bk: LR7684 Pg:1063
filed on : 09/26/2018 01:54:28 PM
Don Davis, Probate Judge
Deed Tax : $.00
Mortgage Tax: $.00
Mineral Tax : $.00
No Tax : $.00 **2018055808**
Judge Fee : $.00 **Bk: LR7684 Pg:1063**
SR Fee: $2.00
Surcharge Fee: $.00
Recording Fee: $16.00
Total : $18.00

EXECUTION VERSION

SLT-171721
STATE OF ALABAMA §
COUNTY OF MOBILE

This Instrument Prepared By:
T. Bruce McGowin, Esq.
Hand Arendall Harrison Sale LLC
104 St. Francis Street, Suite 300
Mobile, Alabama 36602
(251) 694-6342

STATUTORY WARRANTY DEED

Effective as of 12:01 AM Central Time on September 24, 2018, ALABAMA STATE PORT AUTHORITY, an agency of the State of Alabama, formerly known as The Alabama State Docks Department, an agency of the State of Alabama (**"GRANTOR"**), for and in consideration of the sum of Ten Dollars ($10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, has granted, bargained, sold, conveyed and delivered, and by these presents GRANTS, BARGAINS, SELLS, CONVEYS and DELIVERS unto **MERCHANTS ALABAMA, LLC**, an Alabama limited liability company (**"GRANTEE"**), its successors and assigns, subject to the exceptions, reservations and other matters specifically mentioned below, that certain parcel of land located in Mobile County, State of Alabama and more particularly described on **Exhibit A** attached hereto and made a part hereof for all purposes, and all buildings, structures, improvements, fixtures, easements, streets, roads, alleys, rights-of-ways, strips and gores, all other benefits accruing to the land and all other appurtenances thereon and thereto (all the foregoing being collectively referred to hereinafter as the **"Land"**), but expressly RESERVING unto Grantor, its successors and assigns, the right to withdraw and/or reinject sub-surface groundwater underlying the Land but without the right to drill, mine, explore, operate, produce, store or remove any such water through or on the surface of the Land and provided such withdrawal and/or reinjection shall not cause or result in any material subsidence of the Land or material change in the topography thereof and shall be conducted in accordance with all applicable federal, state, and local statutes and regulations, including, without limitation, Alabama Department of Environmental Management regulations and guidelines.

The Land is conveyed subject to the Permitted Encumbrances set forth in **Exhibit B**, attached hereto and made a part hereof.

TO HAVE AND TO HOLD the LAND, together with all and singular the rights, members, privileges, tenements, improvements, hereditaments, easements and appurtenances thereunto belonging or in anywise appertaining; subject, however, to the matters, exceptions and reservations to which reference is herein made, unto the said GRANTEE, and to the successors and assigns of GRANTEE, forever.

GRANTOR covenants to and with the GRANTEE that, except as to the matters, exceptions and reservations above referred to, GRANTOR is lawfully seized of said Land, the same is free from all encumbrances, and it and its successors will forever warrant and defend the

title to said Land, as herein conveyed, unto the said GRANTEE, and unto the successors and assigns of GRANTEE, against the lawful claims of all persons claiming by, through or under GRANTOR, but not otherwise.

All recordations mentioned herein refer to the records in the office of the Judge of Probate of Mobile County, Alabama, unless otherwise indicated.

IN WITNESS WHEREOF, this Statutory Warranty Deed is executed and attested effective as of the date first provided above.

ALABAMA STATE PORT AUTHORITY,
an Agency of the State of Alabama,
formerly known as The Alabama State
Docks Department, an Agency of the State
of Alabama

ATTEST:

By: _____
Name: Larry K. Doan

By: _____
James K. Lyons
Its: Director

Witness: _____
Print Name Deborah J. Geiger

Witness: _____
Print Name Sheri Collins

STATE OF ALABAMA
COUNTY OF MOBILE

I, the undersigned Notary Public, in and for said County in said State, hereby certify that James K. Lyons, whose name as the Director and CEO of ALABAMA STATE PORT AUTHORITY, an agency of the State of Alabama, formerly known as The Alabama State Docks Department, an agency of the State of Alabama, is signed to the foregoing instrument and who is known to me, acknowledged before me on this day that, being informed of the contents of the instrument, he, as such Director and CEO and with full authority, executed the same voluntarily for and as the act of said state agency.

GIVEN under my official hand and seal this the 20 day of September, 2018.

_____
Notary Public
My Commission Expires: My Commission Expires 05/10/2020

AMANDA A THOMPSON NOTARY PUBLIC

EXHIBIT "A" TO
STATUTORY WARRANTY DEED FROM
ALABAMA STATE PORT AUTHORITY TO
MERCHANTS ALABAMA, LLC
(Land)

Beginning at the intersection of the East right of way line of Lawrence Street, (50' public R\W), with the Northeast right of way line of Yeend Street, (50' public R\W), in the City of Mobile, Alabama, said point being at Alabama State Plane coordinate, West Zone, NAD 1983 (1992), North 242,827.00 and East 1,796,289.46 and being marked by a 4-inch concrete monument; Thence N-08°-08'-32"-E, along the East right of way line of said Lawrence Street, for 146.12 feet to a point at the intersection of the East right of way line of said Lawrence Street with the South right of way line of Baker Street Extension, (variable width public R\W); Thence Northeasterly, leaving the East right of way line of said Lawrence Street, along the South right of way line of said Baker Street Extension and around a curve to the right having a radius of 260.00 feet and a delta angle of 36°-01'-25", the chord of which bears N-80°-38'-26"-E for 160.79 feet, for an arc distance of 163.47 feet; Thence S-81°-20'-51"-E, along the South right of way line of said Baker Street Extension, (80-foot public R\W), for 954.81 feet; Thence S-00°-30'-14"-E, leaving the South right of way line of said Baker Street Extension, for 158.49 feet; Thence S 37°-51'-11"-E for 192.19 feet; Thence S-21°-37'-48"-E for 50.00 feet; Thence S-68°-22'-12"-W for 42.39 feet; Thence S-05°-31'-32"-E for 52.56 feet; Thence S-76°-15'-32"-E for 83.34 feet; Thence S-02°-15'-25"-E for 251.26 feet; Thence S-17°-15'-36"-W for 139.46 feet; Thence S-56°-36'-45"-W for 91.57 feet; Thence S-25°-22'-17"-W for 184.80 feet; Thence N-21°-37'-48" W for 536.42 feet; Thence N-81°-20'-51"-W for 104.31 feet; Thence S-68°-22'-12"-W for 366.93 feet to a point at the Southeast corner of the right of way of aforesaid Yeend Street; Thence N 36°-47'-48"-W, along the Northeast right of way line of said Yeend Street, for 799.02 feet to the Point of Beginning and containing 18.026 acres or 785213 square feet, more or less.

EXHIBIT "B" TO
STATUTORY WARRANTY DEED FROM
ALABAMA STATE PORT AUTHORITY TO
MERCHANTS ALABAMA, LLC
(Permitted Encumbrances)

1. All rollback taxes, if any, for any year and the current year's taxes, assessments, water rates and other governmental charges of any kind or nature imposed on or levied against or on account of the Land.

2. Restrictions on Grantee's ability to build upon or use the Land imposed by the Grantor's Architectural Standards and any current or future building or zoning ordinances or any other law or regulation of any Governmental Authority.

3. All claims of Governmental Authorities in and to any portion of the Land lying in the bed of any streams, creeks or waterways or other submerged lands as shown on the Survey (as hereafter defined).

4. Any and all restrictions on use of the Land due to environmental protection laws, including, without limitation, wetlands protection laws, rules, regulations and orders.

5. All previous reservations, exceptions and conveyances of oil, gas, associated hydrocarbons, minerals and mineral substances and royalty and other mineral rights.

6. Permanent drainage easement granted the City of Mobile, a municipal corporation by the Alabama State Port Authority, an agency of the State of Alabama, dated April 1, 2002 and recorded in Real Property Book 5147, Page 292, and related culverts, as amended by instrument dated January 21, 2014 and recorded in Land Records Book 7116, Page 50, as shown on survey by W. J. Lawler, HI, PLS, of Lawler and Company, dated November 13, 2017, Project No. 17-057 as lastly revised on April 16, 2018 (the "Survey").

7. Right of way granted Mobile Gas Service Corporation by the State of Alabama, acting by and through the Alabama State Docks Department, an agency of the State of Alabama, dated March 17, 1997 and recorded in Real Property Book 4456, Page 1372, as shown on the Survey.

8. Easement granted Alabama Power Company by the Alabama State Docks Department, dated July 1, 1986 and recorded in Real Property Book 2957, Page 708, as shown on the Survey.

9. Terms, conditions, provisions and restrictions of all permits and licenses of federal, state and local government, including applicable agencies and departments and private and quasi-governmental agencies having jurisdiction over the real property, including, but not limited to restrictions on construction of any areas delineated by government agencies as wetlands, the general location of said wetlands being shown on the Survey.

10. Any claim arising by reason of fences not being located on the true property lines as shown on the Survey.

11. Overhead utility lines, poles, guy anchors, twenty-four-inch reinforced concrete pipe, sheet pile wall, sanitary sewer lines, and proposed City of Mobile drainage easements, as shown on the Survey.

12. Non-Exclusive Construction Easement Agreement by and between the Alabama State Port Authority, an agency of the State of Alabama, and the Board of Water and Sewer Commissioners of the City of Mobile, a public corporation organized under the laws of the State of Alabama, dated June 26, 2015 and recorded in Land Records Book 7286, Page 1519, as noted on the Survey.

13. Rights of the United States, State of Alabama, or other parties in and to the bed, shore and waters of Garrows Bend.

14. Agreement by and between Gulf, Mobile and Ohio Railroad Company, a corporation, and the Board of Water and Sewer Commissioners of the City of Mobile, a public corporation as to a forty-eight (48) inch sewer pipe, dated August 9, 1972 and recorded in Real Property Book 1213, Page 797, as shown on the Survey.

15. Any existing pipelines located within the vacated easement area, as evidenced by that certain right of way for roadway and pipe line purposes granted the Board of Water and Sewer Commissioners of the City of Mobile, Alabama, by Gulf, Mobile and Ohio Railroad Company, a corporation, dated September 30, 1954 and recorded in Deed Book 624, Page 603, as shown on the Survey.

Inst. # 2020038974 Pages: 1 of 6 I certify this instrument filed on: 7/1/2020 3:40 PM
Doc: D Don Davis, Judge of Probate Mobile County, AL Rec: $19.00 DeedTx: $0.00 MinTx $0.00
Clerk: JHANCOCK ERecorded

SLT-174194

REAL ESTATE VALIDATION FORM

The following information is provided pursuant to Alabama Code §40-22-1, and is verified by the signature of Grantor below:

Grantor's Name:	**Alabama State Port Authority**	**Grantee's Name**	**Alabama Department of Environmental Management**
Mailing Address	**250 N. Water Street Suite 300 Mobile, AL 36602**	**Mailing Address:**	**Atten: General Counsel Post Office Box 301463 Montgomery, Alabama 36130-1463**
Property Address:	**South Broad Street Mobile, Alabama**	**Date of Sale:**	**June 29, 2020**
		Purchase Price:	**$680,000.00**
		Non-producing Acreage:	**N/A**

STATUTORY WARRANTY DEED FOR LAND

STATE OF ALABAMA §
COUNTY OF MOBILE

This Instrument Prepared By and To Be Returned To:
T. Bruce McGowin, Esq.
Hand Arendall Harrison Sale LLC
Merchants Tower
104 St. Francis Street, Suite 300
Mobile, Alabama 36602
(251) 694-6342

STATUTORY WARRANTY DEED

Effective as of 12:01AM Central Time on June 29, 2020, the ALABAMA STATE PORT AUTHORITY, an agency of the State of Alabama (**"GRANTOR"**), for and in consideration of the sum of SIX HUNDRED EIGHTY THOUSAND AND NO/100 ($680,000.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, has granted, bargained, sold, conveyed and delivered, and by these presents grants, bargains, sells, conveys and delivers unto the ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT, an agency of the State of Alabama (**"GRANTEE"**), its successors and assigns, subject to the exceptions, reservations and other matters specifically mentioned below, that certain parcel of land located in Mobile County, State of Alabama and more particularly described on **Exhibit A** attached hereto and made a part hereof for all purposes, and all buildings, structures, improvements, fixtures, easements, streets, roads, alleys, rights-of-ways, strips and gores, all other

benefits accruing to the land and all other appurtenances thereon and thereto (all the foregoing being collectively referred to hereinafter as the **"Land"**).

The Land is conveyed subject to the Permitted Encumbrances set forth in **Exhibit B**, attached hereto and made a part hereof.

TO HAVE AND TO HOLD the LAND, together with all and singular the rights, members, privileges, tenements, improvements, hereditaments, easements and appurtenances thereunto belonging or in anywise appertaining; subject, however, to the matters, exceptions and reservations to which reference is herein made, unto the said GRANTEE, and to the successors and assigns of GRANTEE, forever.

GRANTOR covenants to and with the GRANTEE that, except as to the matters, exceptions and reservations above referred to, GRANTOR is lawfully seized of said Land, the same is free from all encumbrances, and it and its successors will forever warrant and defend the title to said Land, as herein conveyed, unto the said GRANTEE, and unto the successors and assigns of GRANTEE, against the lawful claims of all persons claiming by, through or under GRANTOR, but not otherwise.

All recordations mentioned herein refer to the records in the office of the Judge of Probate of Mobile County, Alabama, unless otherwise indicated.

IN WITNESS WHEREOF, this Statutory Warranty Deed is executed and attested effective as of the date first provided above.

ALABAMA STATE PORT AUTHORITY
An Agency of the State of Alabama [SEAL]

By: _____
Name: John C. Driscoll
Title: Director/Chief Executive Officer

Date: June 26, 2020

STATE OF ALABAMA

COUNTY OF MOBILE

I, the undersigned Notary Public, in and for said County in said State, hereby certify that John C. Driscoll, whose name as the Director and Chief Executive Officer of the ALABAMA STATE PORT AUTHORITY, an agency of the State of Alabama, is signed to the foregoing instrument and who is known to me, acknowledged before me on this day that, being informed of

the contents of the instrument, he, as such Director and Chief Executive Officer and with full authority, executed the same voluntarily for and as the act of said state agency.

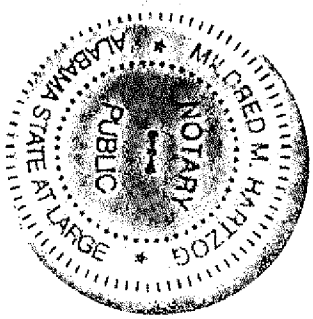
GIVEN under my official hand and seal this the 26th day of June, 2020.

Mildred M. Hartzog

Notary Public

My Commission Expires:_____

MILDRED M. HARTZOG
Notary Public, Alabama State at Large
My Commission Expires Sept. 12, 2021



Surety Land Title
5909 Airport Blvd.
Mobile, AL 36608

EXHIBIT "A" TO
STATUTORY WARRANTY DEED FROM
ALABAMA STATE PORT AUTHORITY TO
THE ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
(Land)

That real property situated in the County of Mobile, State of Alabama, described as follows, to-wit:

Commencing at the intersection of the East right of way line of South Broad Street, (variable width public R/W), with the South line of Lot 6, Block 1 of the Mandeville Tract, as recorded in Deed Book 4, O.S., page 375 of the Probate Court records of Mobile County, Alabama; Thence S-24°-46'-05"-W, along the East right of way line of said South Broad Street, for 730.93 feet; Thence Southwesterly, along the East right of way line of said South Broad Street, and around a curve to the left having a radius of 1541.00 feet and a delta angle of 070-39.-33", the chord of which bears S-20°-56'-18"-W for 205.85 feet, for an arc distance of 206.00 feet to the Point of Beginning of the property herein described; Thence S-82°-31'-02"-E, leaving the East right of way line of said South Broad Street, for 718.21 feet; Thence S-47°-00'-41"-W for 366.27 feet; Thence N-82°-31'-02"-W for 507.06 feet to a point on the East right of way line of aforesaid South Broad Street; Thence N-07°-31-02"-W, along the East right or way line of said South Broad Street, for 38.23 feet; Thence Northeasterly, along the East right of way of said South Broad Street and around a curve to the right having a radius of 1541.00 feet and a delta angle of 09°¬07.-39", the chord of which bears N-12°-32.-42"-E for 245.23 feet, for an arc distance of 245.49 feet, to the Point of Beginning and containing 4.000 acres, more or less.

EXHIBIT "B" TO
STATUTORY WARRANTY DEED
PERMITTED ENCUMBRANCES

1. Rights, if any, relating to the construction and maintenance in connection with any public utility of wires, poles, pipes, conduits and appurtenances thereto, on, under or across the Land;

2. All rollback taxes, if any, for any year and the current year's taxes, assessments, water rates and other governmental charges of any kind or nature imposed on or levied against or on account of the Land;

3. Restrictions on Grantee's ability to build upon or use the Land imposed by any current or future building or zoning ordinances or any other law or regulation of any governmental authority;

4. Any and all restrictions on use of the Land due to environmental protection laws, including, without limitation, wetlands protection laws, rules, regulations and orders;

5. All previous reservations, exceptions and conveyances of oil, gas, associated hydrocarbons, minerals and mineral substances and royalty and other mineral rights;

6. Twenty (20) foot drainage easement granted the City of Mobile by instrument dated September 13, 1951 and recorded in Deed Book 538, Page 427, as shown on survey by Lawler and Company dated August 5, 2019.

7. Sanitary sewer easement condemned by the Board of Water & Sewer Commissioners of the City of Mobile by proceedings in the Probate Court of Mobile County, Alabama, Case No. 27,641, as evidenced by Lis Pendens Notice dated July 26, 1972 and recorded in Real Property Book 1153, Pages 134-143; said parcel affecting the subject property being found at Page 141, as shown on survey by Lawler and Company dated August 5, 2019.

8. Any portion of Land lying within the right of way of any public road or utility.

9. Twenty (20) foot Mobile Area Water and Sewer System force main easement and forty-eight (48) inch force main, as shown on survey by Lawler and Company dated August 5, 2019.

10. Sanitary sewer easement granted the Board of Water and Sewer Commissioners of the City of Mobile by the City of Mobile, a municipal corporation, dated

October 17, 1972 and recorded in Real Property Book 1189, Page 460, as shown on survey by Lawler and Company dated August 5, 2019.

11. Any claim which might arise by reason of any fence which may not coincide with the lot lines, as shown on survey by Lawler and Company dated August 5, 2019.

12. Terms, conditions, and provisions of that certain Pipeline Right of Way and Relocation Agreement by and between the Alabama State Port Authority and the Board of Water and Sewer Commissioners of the City of Mobile, dated February 25, 2020 and recorded in Instrument No. 2020013732.

Appendix D

Summary Tables of Groundwater Analytical Results and Statistical Evaluation

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID:	7-D	7-D	7-D	7-D	7-D	7-D	7-D	7-D	7-D	7-D	7-D	7-D	7-D	7-IR	7-IR	7-IR	7-IR	7-IR	7-IR	7-IR
Sample Date:	6/20/2014	9/3/2014	6/4/2015	6/30/2016	6/13/2017	6/9/2018	6/14/2019	9/16/2019	6/12/2020	6/15/2021	6/21/2022	6/13/2023	6/13/2023	6/27/2013	6/20/2014	6/20/2014	9/3/2014	6/4/2015	6/4/2015	6/23/2016
Sample Type:		Resample					App. IX Well	Resample					Duplicate			Duplicate	Resample		Duplicate	
1,2-Dibromoethane - SW846 8011, ug/L																				
1,2-Dibromo-3-Chloropropane	NA	NA	NA	NA	NA	NA	< 0.052	< 0.0052	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	NA	NA	NA	NA	NA	NA	NA	< 0.0048	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorinated Herbicides - SW846 8151, 8151A, 8321, ug/L																				
2,2-Dichloropropionic acid (Dalapon)	NA	NA	NA	NA	NA	NA	NA	NA	< 0.344	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-T	< 0.04	NA	NA	NA	NA	NA	< 0.016	NA	< 0.258	< 0.258	NA	< 0.573	< 0.573	NA	< 0.04	< 0.04	NA	NA	NA	NA
2,4,5-TP (Silvex)	< 0.018	NA	< 0.018	< 0.036	< 0.0036	< 0.0073	< 0.0073	NA	< 0.335	< 0.335	< 0.335	< 0.807	< 0.807	NA	< 0.018	< 0.018	NA	< 0.018	< 0.018	< 0.036
2,4-D	< 0.26	NA	NA	NA	NA	NA	< 0.10	NA	< 0.547	< 0.547	NA	< 1.00	< 1.00	NA	< 0.26	< 0.26	NA	NA	NA	NA
2,4-DB	NA	NA	NA	NA	NA	NA	NA	NA	< 0.302	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dicamba	NA	NA	NA	NA	NA	NA	NA	NA	< 0.245	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorprop	NA	NA	NA	NA	NA	NA	NA	NA	< 1.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinoseb	< 0.16	NA	NA	NA	NA	NA	NA	NA	< 0.250	NA	NA	NA	NA	NA	< 0.16	< 0.16	NA	NA	NA	NA
MCPA (2-Methyl-4-Chlorophenoxyacetic acid)	NA	NA	NA	NA	NA	NA	NA	NA	< 13.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MCPP	NA	NA	NA	NA	NA	NA	NA	NA	< 66.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide - EPA 846 9012A, EPA 335.2, 335.4, mg/L																				
Cyanide	< 0.0035	NA	NA	NA	NA	NA	< 0.0035	NA	NA	NA	< 0.0012	< 0.0069	< 0.0069	NA	< 0.0035	< 0.0035	NA	NA	NA	NA
Dioxins/Furans - SW846 8290, 8290A, pg/L																				
1,2,3,4,6,7,8,9-OCDD (OCDD)	NA	NA	6.0 J	33 J	21 J	25 J	9.0 U	NA	19 BJ U	76 J U	< 1.9	< 10	58 J	NA	NA	NA	NA	3.7 J	2.0 J	44 J
1,2,3,4,6,7,8,9-OCDF (OCDF)	NA	NA	0.63 J	3.5 J	< 1.0	< 0.77	< 1.6	NA	< 2.5	< 17	< 1.0	< 5.7	< 4.4	NA	NA	NA	NA	0.42 J	< 0.72	2.6 J
1,2,3,4,6,7,8-HpCDD	NA	NA	1.0 J	5.5 J	3.5 J	5.8 J	1.8 J	NA	3.3 J	< 14	< 0.95	< 4.7	< 2.3	NA	NA	NA	NA	0.78 J	1.2 J	< 0.40
1,2,3,4,6,7,8-HpCDF	NA	NA	0.32 J	1.4 J	1.1 J	< 0.61	< 0.85	NA	0.72 IJ U	< 9.8	< 0.78	< 2.4	< 1.9	NA	NA	NA	NA	0.35 J	< 0.24	0.92 J
1,2,3,4,7,8,9-HpCDF	NA	NA	NA	NA	1.4 J	3.9 J	< 1.0	NA	< 1.3	< 13	< 0.49	< 2.7	< 2.9	NA	NA	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDD	< 0.47	NA	NA	NA	NA	NA	< 0.96	NA	< 0.48	< 9.2	< 0.65	< 2.6	< 1.6	NA	< 0.69	< 0.95	NA	NA	NA	NA
1,2,3,4,7,8-HxCDF	< 0.34	NA	NA	NA	NA	NA	< 1.1	NA	< 0.48	< 8.0	< 0.53	< 1.2	< 0.87	NA	< 0.37	< 0.65	NA	NA	NA	NA
1,2,3,6,7,8-HxCDD	< 0.46	NA	NA	NA	NA	NA	< 0.88	NA	< 0.74	< 10	< 0.55	< 1.7	< 1.5	NA	< 0.68	< 0.93	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	< 0.31	NA	NA	NA	NA	NA	< 1.0	NA	< 0.44	< 7.0	< 0.61	< 1.7	< 0.98	NA	< 0.34	< 0.59	NA	NA	NA	NA
1,2,3,7,8,9-HxCDD	< 0.42	NA	NA	NA	NA	NA	< 0.87	NA	< 0.67	< 6.3	< 0.44	< 1.7	< 1.4	NA	< 0.62	< 0.85	NA	NA	NA	NA
1,2,3,7,8,9-HxCDF	< 0.36	NA	NA	NA	NA	NA	1.9 U	NA	< 0.57	< 9.0	< 0.42	< 1.7	< 0.98	NA	< 0.39	< 0.68	NA	NA	NA	NA
1,2,3,7,8-PeCDD	< 5.7	NA	NA	NA	NA	NA	< 1.7	NA	< 0.87	< 5.4	< 0.62	< 1.9	< 1.0	NA	< 2.6	< 1.6	NA	NA	NA	NA
1,2,3,7,8-PeCDF	< 4.9	NA	NA	NA	NA	NA	< 0.73	NA	< 0.78	< 4.9	< 0.66	< 1.5	< 0.89	NA	< 1.7	< 1.5	NA	NA	NA	NA
2,3,4,6,7,8-HxCDF	< 0.33	NA	NA	NA	NA	NA	< 1.1	NA	< 0.40	< 5.9	< 0.54	< 1.5	< 0.83	NA	< 0.36	< 0.62	NA	NA	NA	NA
2,3,4,7,8-PeCDF	< 5.1	NA	NA	NA	NA	NA	< 0.75	NA	< 0.34	< 3.6	< 0.23	< 1.6	< 0.66	NA	< 1.8	< 1.6	NA	NA	NA	NA
2,3,7,8-TCDD	< 0.71	NA	NA	NA	NA	NA	< 0.92	NA	< 0.55	< 9.6	< 0.58	< 1.8	< 1.7	NA	< 0.7	< 1.2	NA	NA	NA	NA
2,3,7,8-TCDF	< 0.72	NA	NA	NA	NA	NA	< 0.67	NA	< 0.62	< 7.4	< 0.54	< 2.1	< 0.81	NA	< 0.69	< 0.71	NA	NA	NA	NA
TEQ-WHO 2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.006	0.13	NA	NA	NA	NA	NA	NA	NA
Total HpCDD	NA	NA	2.1 J	8.6 J	5.6 J	11 J	1.8 J	NA	3.3 J	< 14	< 0.95	< 4.7	< 2.3	NA	NA	NA	NA	1.4 J	1.2 J	1.9 J
Total HpCDF	NA	NA	0.32 J	2.8 J	2.5 J	3.9 J	< 1.0	NA	1.2 J	< 9.8	< 0.49	< 2.4	< 1.9	NA	NA	NA	NA	0.35 J	< 0.30	1.6 J
Total HxCDD	< 1.2	NA	0.15 J	1.9 J	5.0 J	3.3 J	< 0.96	NA	< 0.48	< 6.3	< 0.44	< 1.7	< 1.4	NA	< 0.69	4.8 J	NA	0.3 J	< 0.49	< 1.9
Total HxCDF	< 0.36	NA	< 1.9	2.7 J	< 1.3	9.6 J	1.9 U	NA	< 0.4	< 5.9	< 0.42	< 1.2	< 0.83	NA	< 0.39	< 0.68	NA	< 1.9	< 0.29	< 1.9
Total PeCDD	< 5.7	NA	NA	NA	NA	NA	< 1.7	NA	< 0.87	< 5.4	< 0.62	< 1.9	< 1.0	NA	< 2.6	< 1.6	NA	NA	NA	NA
Total PeCDF	< 5.1	NA	NA	NA	NA	NA	< 0.77	NA	< 0.34	< 3.6	< 0.23	< 1.5	< 0.66	NA	< 1.8	< 1.6	NA	NA	NA	NA
Total TCDD	4.2 J	NA	< 0.18	< 1.9	< 0.74	1.4 J	< 1.0	NA	< 0.55	< 9.6	< 0.58	< 1.8	< 1.7	NA	2.4 J	< 1.2	NA	< 0.16	< 0.37	< 1.9
Total TCDF	< 0.72	NA	NA	NA	NA	NA	< 0.67	NA	< 0.62	< 7.4	< 0.54	< 2.1	< 0.81	NA	< 0.69	< 0.71	NA	NA	NA	NA
Mercury, Total - SW846 7470, 7470A, mg/L																				
Mercury	< 0.000091	NA	0.00013 J	< 0.000070	< 0.00007	< 0.00007	0.000078 J	NA	NA	< 0.00010	< 0.00010	< 0.00010	< 0.00010	NA	< 0.000091	< 0.000091	NA	< 0.00007	< 0.00007	< 0.000070
Metals, Total - SW846 6010C, 6020, 6020A, mg/L																				
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	< 0.01	NA	NA	NA	NA	NA	< 0.0015	NA	NA	< 0.00063	< 0.00063	< 0.0017	< 0.0017	NA	< 0.01	< 0.01	NA	NA	NA	NA
Arsenic	< 0.004	NA	0.0013	0.0014	0.0019	0.0032	0.0027	NA	0.00043 J	0.00066 J	0.0019	0.0023 J	0.0026 J	0.084	0.087 J	0.083 J	NA	0.1	0.1	0.096
Barium	0.079	NA	0.098	0.11	0.12	0.12	0.090	NA	0.0899	0.0876	0.086	0.085	0.088	NA	0.081	0.081	NA	0.085	0.081	0.084
Beryllium	< 0.001	NA	NA	NA	NA	NA	< 0.00013	NA	NA	< 0.00012	< 0.00012	< 0.0010	< 0.0010	NA	< 0.001	< 0.001	NA	NA	NA	NA
Cadmium	< 0.001	NA	< 0.00059	< 0.00034	< 0.000068	< 0.000068	< 0.00025	NA	< 0.00008	0.000083 J	< 0.000080	< 0.00095	< 0.00095	NA	< 0.001	< 0.001	NA	< 0.00059	< 0.00059	< 0.00034
Chromium	0.0052 J	NA	0.0011 J	0.0011 J	0.00056	0.0038	0.00087 J	NA	0.0012	0.0022	0.0010	< 0.0032	< 0.0032	NA	< 0.002	< 0.002	NA	0.00085 J	0.00092 J	< 0.0011
Cobalt	0.0063 J	NA	0.0028	0.0023 J	0.0022	0.0038	0.0035	NA	0.0001 J	0.00029 J	0.0015	0.0019 J	0.0025 J	NA	< 0.003	< 0.003	NA	0.00026 J	0.00035 J	< 0.00040
Copper	0.0036 J	NA	< 0.0019	< 0.0021	0.00047 J	0.0031	0.00069 J	NA	< 0.00083	0.0016 J	< 0.00083	< 0.0084	< 0.0084	0.0048 J	< 0.002	< 0.002	NA	< 0.0019	< 0.0019	< 0.0021
Lead	0.0025 J	NA	0.0011 J	< 0.00035	< 0.00007	0.00049	< 0.00017	NA	0.00012 J	0.00062 J	< 0.000070	< 0.0034	< 0.0034	NA	0.002 J	0.0023 J	NA	0.00047 J	0.00034 J	< 0.00035
Nickel	0.0037 J	NA	0.0021 J	0.0022 J	0.0029	0.0042	0.0024	NA	0.0013	0.0037	0.0025	< 0.0031	< 0.0031	NA	< 0.003	< 0.003	NA	< 0.0007	< 0.0007	< 0.0018
Selenium	< 0.004	NA	< 0.00033	< 0.00024	0.00054	0.00029 B	0.0044 J	NA	< 0.00037	< 0.00037	< 0.00037	< 0.0013	< 0.0013	NA	< 0.004	< 0.004	NA	< 0.00033	< 0.00033	< 0.00024
Silver	< 0.002	NA	NA	NA	NA	NA	< 0.0004	NA	NA	< 0.000080	< 0.000080	< 0.0010	< 0.0010	NA	< 0.002	< 0.002	NA	NA	NA	NA
Thallium	< 0.004	NA	< 0.000017	< 0.000085	< 0.000017	0.000038 J	< 0.00014	NA	< 0.00008	< 0.000080	< 0.000080	< 0.00055	< 0.00055	NA	< 0.004	< 0.004	NA	< 0.000017	< 0.000017	< 0.000085
Tin	< 0.005	NA	NA	NA	NA	NA	< 0.0013	NA	NA	< 0.00043	< 0.00043	< 0.0032	< 0.0032	NA	< 0.005	< 0.005	NA	NA	NA	NA
Vanadium	< 0.003	NA	< 0.0022	< 0.0014	< 0.00028	0.00045 J	< 0.0013	NA	< 0.0023	< 0.0023	< 0.0023	< 0.0012	< 0.0012	NA	< 0.003	< 0.003	NA	< 0.0022	< 0.0022	< 0.0014
Zinc	0.01 J	NA	< 0.014	NA	NA	NA	0.0085 B	NA	0.0052 J	0.0202	0.0055 U	< 0.036	< 0.036	NA	< 0.008	< 0.008	NA	< 0.014	< 0.014	NA
Organophosphorus Pesticides - SW846 8141, ug/L																				
Basudin, Neocidol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorpyrifos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Coumaphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dasanit	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Demeton	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Demeton-s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibrom	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorvos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethoate (Cygon)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disulfoton	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethoprophos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl Parathion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fenthion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Folex	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	7-D 6/20/2014	7-D 9/3/2014 Resample	7-D 6/4/2015	7-D 6/30/2016	7-D 6/13/2017	7-D 6/9/2018	7-D 6/14/2019 App. IX Well	7-D 9/16/2019 Resample	7-D 6/12/2020	7-D 6/15/2021	7-D 6/21/2022	7-D 6/13/2023	7-D 6/13/2023 Duplicate	7-IR 6/27/2013	7-IR 6/20/2014	7-IR 6/20/2014 Duplicate	7-IR 9/3/2014 Resample	7-IR 6/4/2015	7-IR 6/4/2015 Duplicate	7-IR 6/23/2016
Guthion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Malathion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl parathion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mevinphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phorate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ronnel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfotepp	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulprofos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachlorvinphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetraethyl diphosphate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tokuthion (Prothiofos)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloronate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organophosphorus Pesticides - SW846 8270-PEST, ug/L																				
Dimethoate (Cygon)	< 2.9	NA	NA	NA	NA	NA	< 0.31	NA	< 5.05	< 5.05	NA	< 5.05	< 5.05	NA	< 14	< 2.9	NA	NA	NA	NA
Disulfoton	< 2.9	NA	NA	NA	NA	NA	< 0.48	NA	NA	NA	NA	NA	NA	NA	< 14	< 2.9	NA	NA	NA	NA
Ethyl Parathion	< 2.9	NA	NA	NA	NA	NA	< 0.23	NA	NA	NA	NA	NA	NA	NA	< 14	< 2.9	NA	NA	NA	NA
Famphur	< 2.9	NA	NA	NA	NA	NA	< 0.32	NA	< 3.92	< 3.92	NA	< 3.92	< 3.92	NA	< 14	< 2.9	NA	NA	NA	NA
Methyl parathion	< 2.9	NA	NA	NA	NA	NA	< 0.22	NA	NA	NA	NA	NA	NA	NA	< 14	< 2.9	NA	NA	NA	NA
Phorate	< 2.9	NA	NA	NA	NA	NA	< 0.27	NA	NA	NA	NA	NA	NA	NA	< 14	< 2.9	NA	NA	NA	NA
Sulfotepp	< 2.9	NA	NA	NA	NA	NA	< 0.30	NA	< 3.99	< 3.99	NA	< 3.99	< 3.99	NA	< 14	< 2.9	NA	NA	NA	NA
Thionazin	< 2.9	NA	NA	NA	NA	NA	< 0.26	NA	< 4.07	< 4.07	NA	< 4.07	< 4.07	NA	< 14	< 2.9	NA	NA	NA	NA
Pesticides - SW846 8081, 8081A, 8081B, ug/L																				
4,4'-DDD	< 0.0029	NA	NA	NA	NA	NA	< 0.0028	NA	NA	< 0.0177	NA	< 0.0177	< 0.0177	NA	< 0.0029	< 0.0029	NA	NA	NA	NA
4,4'-DDE	< 0.0021	NA	NA	NA	NA	NA	< 0.0038	NA	NA	< 0.0154	NA	< 0.0154	< 0.0154	NA	< 0.0021	< 0.0021	NA	NA	NA	NA
4,4'-DDT	< 0.0037	NA	NA	NA	NA	NA	< 0.0037	NA	NA	< 0.0198	NA	< 0.0198	< 0.0198	NA	< 0.0037	< 0.0037	NA	NA	NA	NA
Aldrin	< 0.0029	NA	NA	NA	NA	NA	0.0039 J	< 0.0029	NA	< 0.0198	< 0.0198	< 0.0198	< 0.0198	NA	< 0.0029	0.0033 J	< 0.0029	NA	NA	NA
alpha-BHC	< 0.0034	NA	NA	NA	NA	NA	< 0.0034	NA	NA	< 0.0172	NA	< 0.0172	< 0.0172	NA	< 0.0034	< 0.0034	NA	NA	NA	NA
alpha-Chlordane	NA	NA	NA	NA	NA	NA	< 0.0040	NA	NA	< 0.0149	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
beta-BHC	< 0.0029	NA	NA	NA	NA	NA	< 0.0028	NA	NA	< 0.0208	NA	< 0.0208	< 0.0208	NA	< 0.0029	< 0.0029	NA	NA	NA	NA
beta-Chlordane	NA	NA	NA	NA	NA	NA	< 0.0030	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlordane	< 0.12	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0198	NA	< 0.0198	< 0.0198	NA	< 0.12	< 0.12	NA	NA	NA	NA
Chlordane, technical	NA	NA	NA	NA	NA	NA	< 0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzilate	< 0.037	NA	NA	NA	NA	NA	< 0.037	NA	NA	NA	NA	NA	NA	NA	< 0.037	< 0.037	NA	NA	NA	NA
delta-BHC	< 0.002	NA	NA	NA	NA	NA	< 0.0026	NA	NA	< 0.015	NA	< 0.0150	< 0.0150	NA	< 0.002	< 0.002	NA	NA	NA	NA
Dieldrin	0.0061 J	< 0.0056	NA	NA	NA	NA	< 0.0056 UJ	NA	NA	< 0.0162	NA	< 0.0162	< 0.0162	NA	< 0.0029	< 0.0029	NA	NA	NA	NA
Endosulfan I	< 0.0029	NA	NA	NA	NA	NA	< 0.0028	NA	NA	< 0.016	NA	< 0.0160	< 0.0160	NA	< 0.0029	< 0.0029	NA	NA	NA	NA
Endosulfan II	< 0.007	NA	NA	NA	NA	NA	< 0.0070	NA	NA	< 0.0164	NA	< 0.0164	< 0.0164	NA	< 0.007	< 0.007	NA	NA	NA	NA
Endosulfan sulfate	< 0.002	NA	NA	NA	NA	NA	< 0.0020	NA	NA	< 0.0217	NA	< 0.0217	< 0.0217	NA	< 0.002	< 0.002	NA	NA	NA	NA
Endrin	0.011 J	< 0.0029	NA	NA	NA	NA	< 0.0028	NA	NA	< 0.0161	NA	< 0.0161	< 0.0161	NA	< 0.0029	< 0.0029	NA	NA	NA	NA
Endrin aldehyde	< 0.0027	NA	NA	NA	NA	NA	< 0.0026	NA	NA	< 0.0237	NA	< 0.0237	< 0.0237	NA	< 0.0027	< 0.0027	NA	NA	NA	NA
Endrin ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0219	< 0.0219	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	< 0.024	NA	NA	NA	NA	NA	< 0.024	NA	NA	< 0.0209	NA	< 0.0209	< 0.0209	NA	< 0.024	< 0.024	NA	NA	NA	NA
gamma-Chlordane	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0137	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.037 J	< 0.003	NA	NA	NA	NA	< 0.0029	NA	NA	< 0.0148	NA	< 0.0148	< 0.0148	NA	< 0.003	< 0.003	NA	NA	NA	NA
Heptachlor Epoxide	0.038 J	< 0.003	NA	NA	NA	NA	< 0.0030	NA	NA	< 0.0183	NA	< 0.0183	< 0.0183	NA	< 0.003	< 0.003	NA	NA	NA	NA
Hexachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0176	< 0.0176	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	< 0.0039	NA	NA	NA	NA	NA	< 0.0039	NA	NA	< 0.0193	NA	< 0.0193	< 0.0193	NA	0.0054 J	< 0.0039	< 0.0039	NA	NA	NA
Toxaphene	< 0.29	NA	NA	NA	NA	NA	< 0.38	NA	NA	< 0.168	NA	< 0.168	< 0.168	NA	< 0.29	< 0.29	NA	NA	NA	NA
Phenolics - E420.1, E420.4, SW9065, mg/L																				
Total Recoverable Phenolics	NA	NA	0.015	0.023	0.025	0.011	< 0.09	NA	0.017 J	0.0212 U	< 0.0250	0.036	0.016 J	0.031	NA	NA	NA	0.095	0.12	0.11
Polychlorinated Biphenyl (PCB) - SW846 8082, 8082A, ug/L																				
PCB-1016	< 0.046	NA	NA	NA	NA	NA	< 0.045	NA	NA	NA	NA	NA	NA	NA	< 0.046	< 0.046	NA	NA	NA	NA
PCB-1221	< 0.21	NA	NA	NA	NA	NA	< 0.21	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	NA	NA	NA	NA
PCB-1232	< 0.095	NA	NA	NA	NA	NA	< 0.39	NA	NA	NA	NA	NA	NA	NA	< 0.095	< 0.095	NA	NA	NA	NA
PCB-1242	< 0.032	NA	NA	NA	NA	NA	< 0.17	NA	NA	NA	NA	NA	NA	NA	< 0.032	< 0.032	NA	NA	NA	NA
PCB-1248	< 0.019	NA	NA	NA	NA	NA	< 0.019	NA	NA	NA	NA	NA	NA	NA	< 0.019	< 0.019	NA	NA	NA	NA
PCB-1254	< 0.054	NA	NA	NA	NA	NA	< 0.29	NA	NA	NA	NA	NA	NA	NA	< 0.054	< 0.054	NA	NA	NA	NA
PCB-1260	< 0.032	NA	NA	NA	NA	NA	< 0.032	NA	NA	NA	NA	NA	NA	NA	< 0.032	< 0.032	NA	NA	NA	NA
PCB-1262	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1268	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semi-Volatile Organic Compounds - SW846 8270C, 8270D, 8270-LL, ug/L																				
1,2,4,5-Tetrachlorobenzene	< 0.51	NA	NA	NA	NA	NA	< 0.64	NA	< 0.0647	< 0.0647	NA	< 0.0647	< 0.0647	NA	< 2.5	< 0.5	NA	NA	NA	NA
1,2,4-Trichlorobenzene	< 0.52	NA	NA	NA	NA	NA	< 0.65	NA	< 0.0698	< 0.0698	NA	< 0.0698	< 0.0698	NA	< 2.5	< 0.5	NA	NA	NA	NA
1,2-Dichlorobenzene	< 0.56	NA	NA	NA	NA	NA	< 0.70	NA	< 0.0713	< 0.0713	NA	< 0.0713	< 0.0713	NA	< 2.7	< 0.54	NA	NA	NA	NA
1,3,5-Trinitrobenzene	< 2.0	NA	NA	NA	NA	NA	< 2.5	NA	< 1.32	< 1.32	NA	< 1.32	< 1.32	NA	< 9.5	< 1.9	NA	NA	NA	NA
1,3-Dichlorobenzene	< 0.46	NA	NA	NA	NA	NA	< 0.58	NA	< 0.132	< 0.132	NA	< 0.132	< 0.132	NA	< 2.2	< 0.45	NA	NA	NA	NA
1,3-Dinitrobenzene	< 0.98	NA	NA	NA	NA	NA	< 1.2	NA	< 0.359	< 0.359	NA	< 0.359	< 0.359	NA	< 4.8	< 0.95	NA	NA	NA	NA
1,4-Dichlorobenzene	< 0.51	NA	NA	NA	NA	NA	< 0.64	NA	< 0.0942	< 0.0942	NA	< 0.0942	< 0.0942	NA	< 2.5	< 0.5	NA	NA	NA	NA
1,4-Dioxane (p-Dioxane)	< 0.98	NA	< 1.0	< 1.0	< 0.98	< 1.1	< 1.2	NA	NA	< 0.0447	0.128 U	< 0.0447	< 0.0447	NA	< 4.8	< 0.95	NA	< 1.0	< 1.0	< 5.0
1,4-Naphthoquinone	< 3.9	NA	NA	NA	NA	NA	< 4.9	NA	< 5.56 R	< 5.56 R	NA	< 5.56	< 5.56	NA	< 19	< 3.8	NA	NA	NA	NA
1-Methylnaphthalene	< 0.49	NA	0.26	0.24	0.21 B	0.067 J	< 0.025	NA	< 0.0790	0.126 J	0.0997 J	0.0950 J	< 0.0790	58	120 J	140 J	NA	100	130	120 B
1-Naphthylamine	5.7 J	NA	6.8 J	< 4.0	5.2 J	< 4.3	< 4.9	NA	< 0.289	< 0.289	1.92 J	3.93 J	6.17 J	< 2.7	< 19	< 3.8	NA	< 4.0	< 4.0	< 20
2,2'-Oxybis(1-chloropropane)	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	NA	< 0.210	< 0.210	NA	NA	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	< 0.63	NA	NA	NA	NA	NA	< 0.79	NA	< 0.231	< 0.231	NA	< 0.231	< 0.231	NA	< 3.0	< 0.61	NA	NA	NA	NA
2,4,5-Trichlorophenol	< 3.6	NA	NA	NA	NA	NA	< 4.5	NA	< 0.109	< 0.109	NA	< 0.109	< 0.109	NA	< 18	< 3.5	NA	NA	NA	NA
2,4,6-Trichlorophenol	< 3.4	NA	NA	NA	NA	NA	< 4.3	NA	< 0.100	< 0.1	NA	< 0.100	< 0.100	NA	< 17	< 3.3	NA	NA	NA	NA
2,4-Dichlorophenol	< 2.9	NA	NA	NA	NA	NA	< 3.7	NA	< 0.102	< 0.102	NA	< 0.102	< 0.102	NA	< 14	< 2.9	NA	NA	NA	NA
2,4-Dimethylphenol	< 3.4	NA	< 3.5	< 3.5	< 3.4	< 3.8	< 4.3	NA	< 0.0636	< 0.0636	< 0.0636	< 0.0636	< 0.0636	< 3.3	< 17	< 3.3	NA	< 3.5	< 3.5	< 18

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	7-D 6/20/2014	7-D 9/3/2014 Resample	7-D 6/4/2015	7-D 6/30/2016	7-D 6/13/2017	7-D 6/9/2018	7-D 6/14/2019 App. IX Well	7-D 9/16/2019 Resample	7-D 6/12/2020	7-D 6/15/2021	7-D 6/21/2022	7-D 6/13/2023	7-D 6/13/2023 Duplicate	7-IR 6/27/2013	7-IR 6/20/2014	7-IR 6/20/2014 Duplicate	7-IR 9/3/2014 Resample	7-IR 6/4/2015	7-IR 6/4/2015 Duplicate	7-IR 6/23/2016
2,4-Dinitrophenol	< 3.3	NA	NA	NA	NA	NA	< 4.2	NA	< 5.93	< 5.93	NA	< 5.93	< 5.93	NA	< 16	< 3.2	NA	NA	NA	NA
2,4-Dinitrotoluene	< 1.9	NA	NA	NA	NA	NA	< 2.3	NA	< 0.0983	< 0.0983	NA	< 0.0983	< 0.0983	NA	< 9.0	< 1.8	NA	NA	NA	NA
2,6-Dichlorophenol	< 3.9	NA	NA	NA	NA	NA	< 4.9	NA	< 0.102	< 0.102	NA	< 0.102	< 0.102	NA	< 19	< 3.8	NA	NA	NA	NA
2,6-Dinitrotoluene	< 1.9	NA	NA	NA	NA	NA	< 2.3	NA	< 0.250	< 0.25	NA	< 0.250	< 0.250	NA	< 9.0	< 1.8	NA	NA	NA	NA
2-Acetylaminofluorene	< 3.9	NA	NA	NA	NA	NA	< 4.9	NA	< 0.253	< 0.253	NA	< 0.253	< 0.253	NA	< 19	< 3.8	NA	NA	NA	NA
2-Chloronaphthalene	< 0.51	NA	NA	NA	NA	NA	< 0.64	NA	< 0.0648	< 0.0648	NA	< 0.0648	< 0.0648	NA	< 2.5	< 0.5	NA	NA	NA	NA
2-Chlorophenol	< 2.2	NA	NA	NA	NA	NA	< 2.7	NA	< 0.133	< 0.133	NA	< 0.133	< 0.133	NA	< 10	< 2.1	NA	NA	NA	NA
2-Methylaniline (o-Toluidine)	< 5.9	NA	< 6.0	< 6.0	< 5.9	< 6.5	< 7.4	NA	< 3.53	< 3.53	< 3.53	< 3.53	< 3.53	< 0.95	< 29	< 5.7	NA	< 6.0	< 6.0	< 30
2-Methylnaphthalene	< 0.53	NA	< 6.3	0.12 J	0.096 J	0.058 J	< 0.025	NA	< 0.117	< 0.117	< 0.117	< 0.117	< 0.117	15	80 J	88 J	NA	35	45	16
2-Methylphenol (o-Cresol)	< 1.8	NA	NA	NA	NA	NA	< 2.2	NA	< 0.0929	< 0.0929	NA	< 0.0929	< 0.0929	NA	< 8.6	< 1.7	NA	NA	NA	NA
2-Naphthylamine	10	NA	15	9.5 J	14	8.6 J	< 4.9	NA	< 4.48	< 4.48	< 4.48	< 4.48	< 4.48	< 2.8	< 19	< 3.8	NA	< 4.0	< 4.0	< 20
2-Nitroaniline	< 2.2	NA	NA	NA	NA	NA	< 2.7	NA	< 0.102	< 0.102	NA	< 0.102	< 0.102	NA	< 10	< 2.1	NA	NA	NA	NA
2-Nitrophenol	< 0.64	NA	NA	NA	NA	NA	< 0.80	NA	< 0.117	< 0.117	NA	< 0.117	< 0.117	NA	< 3.1	< 0.62	NA	NA	NA	NA
2-Picoline	< 5.9	NA	NA	NA	NA	NA	< 7.4	NA	< 6.83	< 6.83	NA	< 6.83	< 6.83	NA	< 29	< 5.7	NA	NA	NA	NA
3,3'-Dichlorobenzidine	< 2.5	NA	NA	NA	NA	NA	< 3.2	NA	< 0.212	< 0.212	NA	< 0.212	< 0.212	NA	< 12	< 2.5	NA	NA	NA	NA
3,3'-Dimethylbenzidine	< 7.8	NA	NA	NA	NA	NA	< 9.8	NA	< 3.39	< 3.39	NA	< 3.39	< 3.39	NA	< 38	< 7.6	NA	NA	NA	NA
3+4-Methylphenol (m,p-Cresol)	NA	NA	< 1.0	< 1.0	< 1.0	< 1.1	< 1.3	NA	< 0.168	< 0.168	< 0.168	< 0.168	< 0.168	< 0.37	NA	NA	NA	< 1.0	< 1.0	< 5.2
3-Methylchloranthrene	< 2.2	NA	NA	NA	NA	NA	< 2.7	NA	< 0.164	< 0.164	NA	< 0.164	< 0.164	NA	< 10	< 2.1	NA	NA	NA	NA
3-Methylphenol (m-Cresol)	< 0.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.9	< 0.37	NA	NA	NA	NA
3-Nitroaniline	< 1.8	NA	NA	NA	NA	NA	< 2.2	NA	< 0.0869	< 0.0869	NA	< 0.0869	< 0.0869	NA	< 8.6	< 1.7	NA	NA	NA	NA
4,6-Dinitro-2-Methylphenol	< 2.0	NA	NA	NA	NA	NA	< 2.5	NA	< 1.12	< 1.12	NA	< 1.12	< 1.12	NA	< 9.5	< 1.9	NA	NA	NA	NA
4-Aminobiphenyl	< 4.1	NA	NA	NA	NA	NA	< 5.2	NA	< 0.461	< 0.461	NA	< 0.461	< 0.461	NA	< 20	< 4.0	NA	NA	NA	NA
4-Bromophenyl phenyl ether	< 0.31	NA	NA	NA	NA	NA	< 0.39	NA	< 0.0877	< 0.0877	NA	< 0.0877	< 0.0877	NA	< 1.5	< 0.3	NA	NA	NA	NA
4-Chloro-3-Methylphenol	< 3.7	NA	NA	NA	NA	NA	< 4.7	NA	< 0.131	< 0.131	NA	< 0.131	< 0.131	NA	< 18	< 3.6	NA	NA	NA	NA
4-Chloroaniline	< 3.3	NA	NA	NA	NA	NA	< 4.2	NA	< 0.234	< 0.234	NA	< 0.234	< 0.234	NA	< 16	< 3.2	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	< 2.0	NA	NA	NA	NA	NA	< 2.5	NA	< 0.0926	< 0.0926	NA	< 0.0926	< 0.0926	NA	< 9.5	< 1.9	NA	NA	NA	NA
4-Dimethylaminoazobenzene	< 2.3	NA	NA	NA	NA	NA	< 2.8	NA	< 3.69	< 3.69	NA	< 3.69	< 3.69	NA	< 11	< 2.2	NA	NA	NA	NA
4-Methylphenol (p-Cresol)	< 0.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.9	NA	NA	NA	NA	NA
4-Nitroaniline	< 2.4	NA	NA	NA	NA	NA	< 3.0	NA	< 0.0910	< 0.091	NA	< 0.0910	< 0.0910	NA	< 12	< 2.4	NA	NA	NA	NA
4-Nitrophenol	< 2.1	NA	NA	NA	NA	NA	< 2.6	NA	< 0.143	< 0.143	NA	< 0.143	< 0.143	NA	< 10	< 2.0	NA	NA	NA	NA
4-Nitroquinoline-N-Oxide	< 2.0	NA	NA	NA	NA	NA	< 2.5 UJ	NA	< 2.03	< 2.03	NA	< 2.03	< 2.03	NA	< 9.5	< 1.9	NA	NA	NA	NA
5-Nitro-O-Toluidine	< 2.9	NA	NA	NA	NA	NA	< 3.7	NA	< 1.99	< 1.99	NA	< 1.99	< 1.99	NA	< 14	< 2.9	NA	NA	NA	NA
7,12-Dimethylbenz(a)anthracene	< 3.6	NA	NA	NA	NA	NA	< 4.5	NA	< 1.71	< 1.71	NA	< 1.71	< 1.71	NA	< 18	< 3.5	NA	NA	NA	NA
Acenaphthene	0.67 J	NA	0.35	0.56	0.45	< 0.022	< 0.025	NA	< 0.0886	0.371 J	0.462 U	0.161 J	< 0.0886	93	140 J	160 J	NA	140	170	150 B
Acenaphthylene	< 0.55	NA	0.14 J	0.18 J	0.14 J	< 0.022	0.055 J	NA	< 0.0921	< 0.0921	< 0.0921	< 0.0921	< 0.0921	0.59	< 2.7	0.81 J	NA	1.2	1.7	1.2
Acetophenone	< 0.61	NA	NA	NA	NA	NA	< 0.76	NA	< 0.208	< 0.208	NA	< 0.208	< 0.208	NA	< 3.0	< 0.59	NA	NA	NA	NA
alpha, alpha-Dimethylphenethylamine	< 9.8	NA	NA	NA	NA	NA	< 12	NA	< 3.13 R	< 3.13 R	NA	< 3.13	< 3.13	NA	< 48	< 9.5	NA	NA	NA	NA
Aniline	< 3.7	NA	NA	NA	NA	NA	< 4.7	NA	< 1.65	< 1.65	NA	< 1.65	< 1.65	NA	< 18	< 3.6	NA	NA	NA	NA
Anthracene	< 0.41	NA	0.26	0.28	< 0.02	< 0.022	0.15 J	NA	< 0.0804	< 0.0804	< 0.0804	< 0.0804	< 0.0804	1.7	2.3 J	2.9 J	NA	< 0.10	< 0.10	3.2
Aramite	< 2.0	NA	NA	NA	NA	NA	< 2.5	NA	< 16.7	< 16.7	NA	< 16.7	< 16.7	NA	< 9.5	< 1.9	NA	NA	NA	NA
Benzo(a)anthracene	< 0.33	NA	< 0.092	0.054 J	< 0.039	< 0.043	< 0.049	NA	< 0.199	< 0.199	< 0.199	< 0.199	< 0.199	< 0.038	< 1.6	< 0.32	NA	< 0.46	< 0.46	< 0.040
Benzo(a)pyrene	< 0.42	NA	< 0.20	< 0.040	< 0.039	< 0.043	< 0.049	NA	< 0.0381	0.0627 J	< 0.0381	< 0.0381	< 0.0381	0.049 J	< 2.0	< 0.41	NA	< 1.0	< 1.0	< 0.040
Benzo(b)fluoranthene	< 0.37	NA	< 0.092	< 0.040	< 0.039	< 0.043	< 0.049	NA	< 0.130	0.144 J	< 0.13	< 0.130	< 0.130	0.099 J	< 1.8	< 0.36	NA	< 0.46	< 0.46	< 0.040
Benzo(g,h,i)perylene	< 1.0	NA	< 0.040	< 0.040	< 0.039	< 0.043	< 0.049	NA	< 0.121	< 0.121	< 0.121	< 0.121	< 0.121	0.071 J	< 5.0	< 1.0	NA	< 0.20	< 0.20	< 0.040
Benzo(k)fluoranthene	< 0.53	NA	< 0.92	< 0.040	< 0.039	< 0.043	< 0.049	NA	< 0.120	< 0.12	< 0.12	< 0.120	< 0.120	< 0.038	< 2.6	< 0.51	NA	< 4.6	< 4.6	< 0.040
Benzyl Alcohol	< 2.0	NA	NA	NA	NA	NA	< 2.5	NA	< 0.563	< 0.563	NA	< 0.563	< 0.563	NA	< 9.5	< 1.9	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	< 0.68	NA	NA	NA	NA	NA	< 0.85	NA	< 0.116	< 0.116	NA	< 0.116	< 0.116	NA	< 3.3	< 0.66	NA	NA	NA	NA
bis(2-Chloroethyl)ether	< 0.73	NA	NA	NA	NA	NA	< 0.91	NA	< 0.137	< 0.137	NA	< 0.137	< 0.137	NA	< 3.5	< 0.7	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	< 0.79	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.9	< 0.77	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	< 2.2	NA	< 6.0	< 2.3	8.2	7.7 J	< 6.1	NA	< 0.895	< 0.895	< 0.895	< 0.895	< 0.895	< 1.9	< 11	11 J	NA	< 6.0	< 6.0	22 J
Butyl benzyl phthalate	< 0.68	NA	NA	NA	NA	NA	< 0.85	NA	< 0.765	< 0.765	NA	< 0.765	< 0.765	NA	< 3.3	< 0.66	NA	NA	NA	NA
Chlorobenzilate	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.84	NA	< 3.84	< 3.84	NA	NA	NA	NA	NA	NA	NA
Chrysene	< 0.48	NA	< 9.2	0.041 J	< 0.039	< 0.043	< 0.049	NA	< 0.130	< 0.13	< 0.13	< 0.130	< 0.130	< 0.038	< 2.3	< 0.47	NA	< 46	< 46	< 0.040
Diallate	< 2.9	NA	NA	NA	NA	NA	< 3.7	NA	< 0.524	< 0.524	NA	< 0.524	< 0.524	NA	< 14	< 2.9	NA	NA	NA	NA
Dibenzo(a,h)anthracene	< 1.1	NA	NA	NA	NA	NA	< 1.4	NA	< 0.0644	< 0.0644	NA	< 0.0644	< 0.0644	NA	< 5.6	< 1.1	NA	NA	NA	NA
Dibenzofuran	< 0.51	NA	< 1.2	< 0.52	< 0.51	< 0.56	< 0.64	NA	< 0.0970	< 0.097	< 0.097	< 0.0970	< 0.0970	2.5 J	3.4 J	4.4 J	NA	< 1.2	< 1.2	< 2.6
Diethyl phthalate	< 0.69	NA	NA	NA	NA	NA	< 0.86	NA	< 0.287	< 0.287	NA	0.978 J	< 0.287	NA	< 3.3	< 0.67	NA	NA	NA	NA
Dimethyl phthalate	< 0.59	NA	NA	NA	NA	NA	< 0.74	NA	< 0.260	< 0.26	NA	< 0.260	< 0.260	NA	< 2.9	< 0.57	NA	NA	NA	NA
Di-n-butyl phthalate	NA	NA	NA	NA	NA	NA	< 3.3	NA	< 0.453	< 0.453	NA	< 0.453	< 0.453	NA	NA	NA	NA	NA	NA	NA
Di-n-octyl phthalate	< 0.43	NA	< 0.44	0.48 J	< 0.43	< 0.48	< 0.54	NA	< 0.932	< 0.932	< 0.932	< 0.932	< 0.932	< 0.16	< 2.1	< 0.42	NA	< 0.44	< 0.44	< 2.2
Dinoseb	NA	NA	NA	NA	NA	NA	< 3.7	NA	< 8.01	< 8.01	NA	< 8.01	< 8.01	NA	NA	NA	NA	NA	NA	NA
Diphenylamine	< 2.9	NA	NA	NA	NA	NA	< 3.7	NA	< 2.37	< 2.37	NA	< 2.37	< 2.37	NA	< 14	< 2.9	NA	NA	NA	NA
Ethyl methanesulfonate	< 2.9	NA	NA	NA	NA	NA	< 3.7	NA	< 0.326	< 0.326	NA	< 0.326	< 0.326	NA	< 14	< 2.9	NA	NA	NA	NA
Fluoranthene	< 0.75	NA	0.45	0.75	0.43	0.75	0.83 J	NA	< 0.102	0.415 J	< 0.102	0.249 J	0.339 J	1.0	< 3.7	3.7 J	NA	1.3	1.6	1.9
Fluorene	< 0.55	NA	< 0.021	< 0.021	< 0.021	< 0.023	< 0.026	NA	< 0.0844	0.0973 J	0.314 U	0.244 J	0.218 J	16	44 J	52 J	NA	38	48	39
Hexachlorobenzene	< 0.25	NA	NA	NA	NA	NA	< 0.31	NA	< 0.0755	< 0.0755	NA	< 0.0755	< 0.0755	NA	< 1.2	< 0.24	NA	NA	NA	NA
Hexachlorobutadiene	< 3.5	NA	NA	NA	NA	NA	< 4.4	NA	< 0.0968	< 0.0968	NA	< 0.0968	< 0.0968	NA	< 17	< 3.4	NA	NA	NA	NA
Hexachlorocyclopentadiene	< 2.5	NA	NA	NA	NA	NA	< 3.2	NA	< 0.0598	< 0.0598	NA	< 0.0598	< 0.0598	NA	< 12	< 2.5	NA	NA	NA	NA
Hexachloroethane	< 4.1	NA	< 4.8	< 4.2	< 4.1	< 4.5	< 5.2	NA	< 0.127	< 0.127	< 0.127	< 0.127	< 0.127	< 4.0	< 20	< 4.0	NA	< 4.8	< 4.8	< 21
Hexachlorophene	< 98	NA	NA	NA	NA	NA	< 120	NA	< 1.44	< 1.44	NA	< 1.44	< 1.44	NA	< 480	< 95	NA	NA	NA	NA
Hexachloropropene	< 2.0	NA	NA	NA	NA	NA	< 2.5 UJ	NA	< 0.149	< 0.149	NA	< 0.149	< 0.149	NA	< 9.5	< 1.9	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	< 1.0	NA	< 0.092	< 0.040	< 0.039	< 0.043	< 0.049	NA	< 0.279	< 0.279	< 0.279	< 0.279	< 0.279	0.066 J	< 4.9	< 0.97	NA	< 0.46	< 0.46	< 0.040
Isodrin	< 2.9	NA	NA	NA	NA	NA	< 3.7	NA	< 4.11	< 4.11	NA	< 4.11	< 4.11	NA	< 14	< 2.9	NA	NA	NA	NA
Isophorone	< 0.56	NA	NA	NA	NA	NA	< 0.70	NA	< 0.143	< 0.143	NA	< 0.143	< 0.143	NA	< 2.7	< 0.54	NA	NA	NA	NA
Isosafrole	< 2.9	NA	NA	NA	NA	NA	< 3.7	NA	< 3.88	< 3.88	NA	< 3.88	< 3.88	NA	< 14	< 2.9	NA	NA	NA	NA
Kepone	< 0.2	NA	NA	NA	NA	NA	< 0.25	NA	< 2.66	< 2.66	NA	< 2.66	< 2.66	NA	< 0.95	< 0.19	NA	NA	NA	NA
Methapyrilene	< 7.8	NA	NA	NA	NA	NA	< 9.8	NA	< 10.0	< 10	NA	< 10.0	< 10.0	NA	< 38	< 7.6	NA	NA	NA	NA
Methyl methanesulfonate	< 2.9	NA	NA	NA	NA	NA	< 3.7	NA	< 3.40	< 3.4	NA	< 3.40	< 3.40	NA	< 14	< 2.9	NA	NA	NA	NA
Naphthalene	< 0.62	NA	< 0.62	0.21	0.18 J	0.1 J	< 0.025	NA	< 0.159	< 0.159	< 0.159	< 0.159	< 0.159	1.5	< 3.0	2.4 J	NA	< 3.1	< 3.1	1.9

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Location ID: / Sample Date: / Sample Type:	7-D 6/20/2014	7-D 9/3/2014 Resample	7-D 6/4/2015	7-D 6/30/2016	7-D 6/13/2017	7-D 6/9/2018	7-D 6/14/2019 App. IX Well	7-D 9/16/2019 Resample	7-D 6/12/2020	7-D 6/15/2021	7-D 6/21/2022	7-D 6/13/2023	7-D 6/13/2023 Duplicate	7-IR 6/27/2013	7-IR 6/20/2014	7-IR 6/20/2014 Duplicate	7-IR 9/3/2014 Resample	7-IR 6/4/2015	7-IR 6/4/2015 Duplicate	7-IR 6/23/2016
Nitrobenzene	< 0.54	NA	NA	NA	NA	NA	< 0.68	NA	< 0.297	< 0.297	NA	< 0.297	< 0.297	NA	< 2.6	< 0.52	NA	NA	NA	NA
N-Nitrosodiethylamine	< 4.7	NA	NA	NA	NA	NA	< 5.9	NA	< 3.57	< 3.57	NA	< 3.57	< 3.57	NA	< 23	< 4.6	NA	NA	NA	NA
N-Nitrosodimethylamine	< 3.4	NA	NA	NA	NA	NA	< 4.3	NA	< 0.998	< 0.998	NA	< 0.998	< 0.998	NA	< 17	< 3.3	NA	NA	NA	NA
N-Nitrosodi-n-butylamine	< 4.2	NA	NA	NA	NA	NA	< 5.3	NA	< 3.91	< 3.91	NA	< 3.91	< 3.91	NA	< 20	< 4.1	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	< 3.2	NA	NA	NA	NA	NA	< 4.1	NA	< 0.261	< 0.261	NA	< 0.261	< 0.261	NA	< 16	< 3.1	NA	NA	NA	NA
N-Nitrosodiphenylamine	< 0.46	NA	< 1.0	< 0.47	< 0.46	< 0.51	< 0.58	NA	< 2.37	< 2.37	< 2.37	< 2.37	< 2.37	< 0.17	< 2.2	< 0.45	NA	< 1.0	< 1.0	< 2.4
N-Nitrosomethylethylamine	< 2.9	NA	NA	NA	NA	NA	< 3.7	NA	< 3.25	< 3.25	NA	< 3.25	< 3.25	NA	< 14	< 2.9	NA	NA	NA	NA
N-Nitrosomorpholine	< 3.9	NA	NA	NA	NA	NA	< 4.9	NA	< 3.25	< 3.25	NA	< 3.25	< 3.25	NA	< 19	< 3.8	NA	NA	NA	NA
N-Nitrosopiperidine	< 3.9	NA	NA	NA	NA	NA	< 4.9	NA	< 3.72	< 3.72	NA	< 3.72	< 3.72	NA	< 19	< 3.8	NA	NA	NA	NA
N-Nitrosopyrrolidine	< 4.9	NA	NA	NA	NA	NA	< 6.1	NA	< 3.39	< 3.39	NA	< 3.39	< 3.39	NA	< 24	< 4.8	NA	NA	NA	NA
O,O,O-Triethyl Phosphorothioate	< 3.9	NA	NA	NA	NA	NA	< 4.9	NA	NA	< 2.93	NA	< 2.93	< 2.93	NA	< 19	< 3.8	NA	NA	NA	NA
Pentachlorobenzene	< 2.0	NA	NA	NA	NA	NA	< 2.5	NA	< 4.15	< 4.15	NA	< 4.15	< 4.15	NA	< 9.5	< 1.9	NA	NA	NA	NA
Pentachloroethane	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 9.5	< 1.9	NA	NA	NA	NA
Pentachloronitrobenzene	< 2.9	NA	NA	NA	NA	NA	< 3.7	NA	< 4.15	< 4.15	NA	< 4.15	< 4.15	NA	< 14	< 2.9	NA	NA	NA	NA
Pentachlorophenol	< 1.8	NA	< 1.8	< 1.8	< 1.8	< 2.0	< 2.2	NA	< 0.313	< 0.313	< 0.313	< 0.313	< 0.313	< 1.3	< 8.6	< 1.7	NA	< 1.8	< 1.8	< 9.1
Phenacetin	< 2.9	NA	NA	NA	NA	NA	< 3.7	NA	< 4.66	< 4.66	NA	< 4.66	< 4.66	NA	< 14	< 2.9	NA	NA	NA	NA
Phenanthrene	< 0.4	NA	< 0.020	0.17 J	0.16 J	< 0.022	0.052 J	NA	< 0.112	0.132 J	< 0.112	< 0.112	< 0.112	23	51 J	56 J	NA	39	51	34
Phenol	< 2.5	NA	< 2.6	< 2.6	< 2.5	< 2.8	< 3.2	NA	< 4.33	< 4.33	< 4.33	< 4.33	< 4.33	< 2.5	< 12	< 2.5	NA	< 2.6	< 2.6	< 13
P-Phenylenediamine	< 0.98	NA	NA	NA	NA	NA	< 1.2 R	NA	< 387 R	< 387 R	NA	< 387	< 387	NA	< 4.8	< 0.95	NA	NA	NA	NA
Pronamide (Kerb)	< 2.9	NA	NA	NA	NA	NA	< 3.7	NA	< 4.21	< 4.21	NA	< 4.21	< 4.21	NA	< 14	< 2.9	NA	NA	NA	NA
Pyrene	< 1.1	NA	0.39	0.43	0.31	0.31	0.37 J	NA	< 0.107	0.324 J	0.111 J	0.254 J	0.223 J	0.49	< 5.2	1.5 J	NA	0.57 J	0.76 J	0.71
Pyridine	< 3.1	NA	NA	NA	NA	NA	< 3.9	NA	< 0.627	< 0.627	NA	< 0.627	< 0.627	NA	< 15	< 3.0	NA	NA	NA	NA
Safrole	< 3.9	NA	NA	NA	NA	NA	< 4.9	NA	< 3.68	< 3.68	NA	< 3.68	< 3.68	NA	< 19	< 3.8	NA	NA	NA	NA
Sulfide - EPA846 376.1, SM4500-S2-D, mg/L																				
Sulfide	< 0.036	NA	0.086 J	0.39	0.16	< 0.057	< 0.057 R	< 0.057	0.75	0.28	< 0.0040 UJ	< 0.012	< 0.012	NA	0.07 J	0.055 J	NA	0.076 J	0.069 J	0.064 J
Volatile Organic Compounds - SW846 8260B, 8260C, ug/L																				
1,1,1,2-Tetrachloroethane	< 0.52	NA	NA	NA	NA	NA	< 0.52	NA	< 0.147	< 0.147	NA	< 0.147	< 0.147	NA	< 0.52	< 0.52	NA	NA	NA	NA
1,1,1-Trichloroethane	< 0.5	NA	NA	NA	NA	NA	< 0.50	NA	< 0.149	< 0.149	NA	< 0.149	< 0.149	NA	< 0.5	< 0.5	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	< 0.5	NA	NA	NA	NA	NA	< 0.50	NA	< 0.133	< 0.133	NA	< 0.133	< 0.133	NA	< 0.5	< 0.5	NA	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NA	NA	NA	NA	NA	NA	NA	NA	< 0.180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	< 0.5	NA	NA	NA	NA	NA	< 0.50	NA	< 0.158	< 0.158	NA	< 0.158	< 0.158	NA	< 0.5	< 0.5	NA	NA	NA	NA
1,1-Dichloroethane	< 0.5	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.100	< 0.1	< 0.1	< 0.100	< 0.100	NA	< 0.5	< 0.5	NA	< 0.50	< 0.50	< 0.50
1,1-Dichloroethene	< 0.5	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.188	< 0.188	< 0.188	< 0.188	< 0.188	NA	< 0.5	< 0.5	NA	< 0.50	< 0.50	< 0.50
1,1-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.142	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.230	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	< 0.84	NA	NA	NA	NA	NA	< 0.84	NA	< 0.237	< 0.237	NA	< 0.237	< 0.237	NA	< 0.84	< 0.84	NA	NA	NA	NA
1,2,3-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.104	< 0.104	NA	< 0.104	< 0.104	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.481	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.322	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	< 1.5	NA	NA	NA	NA	NA	< 1.5	NA	< 0.276	< 0.276	NA	NA	NA	NA	< 1.5	< 1.5	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	< 0.5	NA	NA	NA	NA	NA	< 0.50	NA	< 0.126	< 0.126	NA	NA	NA	NA	< 0.5	< 0.5	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	< 0.50	NA	< 0.107	NA	NA	< 0.107	< 0.107	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	< 0.5	NA	NA	NA	NA	NA	< 0.50	NA	< 0.0819	< 0.0819	NA	< 0.0819	< 0.0819	NA	< 0.5	< 0.5	NA	NA	NA	NA
1,2-Dichloropropane	< 0.5	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.149	< 0.149	< 0.149	< 0.149	< 0.149	NA	< 0.5	< 0.5	NA	< 0.50	< 0.50	< 0.50
1,3,5-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.104	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Butadiene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.299	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	< 0.110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane (p-Dioxane)	NA	NA	NA	NA	NA	NA	NA	NA	< 36.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	< 7.30 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2,4-Trimethylpentane	NA	NA	NA	NA	NA	NA	NA	NA	< 0.391	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	< 0.161	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (Methyl ethyl ketone)	< 2.6	NA	NA	NA	NA	NA	< 2.6	NA	< 1.19	< 1.19	NA	< 1.19	< 1.19	NA	< 2.6	< 2.6	NA	NA	NA	NA
2-Chloro-1,3-Butadiene	< 0.7	NA	NA	NA	NA	NA	< 0.70	NA	< 1.45	< 1.45	NA	< 1.45	< 1.45	NA	< 0.7	< 0.7	NA	NA	NA	NA
2-Chloroethyl vinyl ether	NA	NA	NA	NA	NA	NA	NA	NA	< 0.575	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.106	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	< 3.1	NA	NA	NA	NA	NA	< 3.1	NA	< 0.787	< 0.787	NA	< 0.787	< 0.787	NA	< 3.1	< 3.1	NA	NA	NA	NA
2-Methyl-1-Propanol (isobutyl alcohol)	< 8.5	NA	NA	NA	NA	NA	< 10	NA	< 42.1	< 42.1	NA	< 42.1	< 42.1	NA	< 8.5	< 8.5	NA	NA	NA	NA
2-Methyl-2-Butanol	NA	NA	NA	NA	NA	NA	NA	NA	< 4.90	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	< 7.18 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitropropane	NA	NA	NA	NA	NA	NA	NA	NA	< 1.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.114	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Isopropyltoluene (Cymene)	NA	NA	NA	NA	NA	NA	NA	NA	< 0.120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	< 10	NA	< 10	< 10	< 10	< 10	< 10	NA	< 11.3	< 11.3	< 11.3	< 11.3	< 11.3	NA	< 10	< 10	NA	< 10	< 10	< 10
Acetonitrile	< 12	NA	NA	NA	NA	NA	< 12	NA	< 24.0	< 24	NA	< 24.0	< 24.0	NA	< 12	< 12	NA	NA	NA	NA
Acrolein	< 10	NA	NA	NA	NA	NA	< 10	NA	< 2.54	< 2.54	NA	< 2.54	< 2.54	NA	< 10	< 10	NA	NA	NA	NA
Acrylonitrile	< 2.8	NA	NA	NA	NA	NA	< 2.8	NA	< 0.671	< 0.671	NA	< 0.671	< 0.671	NA	< 2.8	< 2.8	NA	NA	NA	NA
Allyl chloride (3-Chloropropene)	< 1.0	NA	NA	NA	NA	NA	< 1.0	NA	< 0.500	< 0.5	NA	< 0.500	< 0.500	NA	< 1.0	< 1.0	NA	NA	NA	NA
Benzene	< 0.34	NA	< 0.38	0.67 J	< 0.38	< 0.38	< 0.38	NA	< 0.0941	< 0.0941	< 0.0941	< 0.0941	< 0.0941	1.0	6.6 J	6.6 J	NA	2.6	2.7	0.47 J
Bromobenzene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.118	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane (Dichlorobromomethane)	< 0.5	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.136	< 0.136	< 0.136	< 0.136	< 0.136	NA	< 0.5	< 0.5	NA	< 0.50	< 0.50	< 0.50
Bromoform (Tribromomethane)	< 0.71	NA	NA	NA	NA	NA	< 0.71	NA	< 0.129	< 0.129	NA	< 0.129	< 0.129	NA	< 0.71	< 0.71	NA	NA	NA	NA
Bromomethane (Methyl bromide)	< 0.98	NA	NA	NA	NA	NA	< 0.98	NA	< 0.605	< 0.605	NA	< 0.605	< 0.605	NA	< 0.98	< 0.98	NA	NA	NA	NA
Carbon disulfide	< 0.5	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.0962	< 0.0962	< 0.0962	< 0.0962	< 0.0962	NA	< 0.5	< 0.5	NA	< 0.50	< 0.50	< 0.50
Carbon tetrachloride	< 0.5	NA	NA	NA	NA	NA	< 0.50	NA	< 0.128	< 0.128	NA	< 0.128	< 0.128	NA	< 0.5	< 0.5	NA	NA	NA	NA
Chlorobenzene	< 0.5	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.116	< 0.116	< 0.116	< 0.116	< 0.116	NA	< 0.5	< 0.5	NA	< 0.50	< 0.50	< 0.50
Chlorobromomethane (Bromochloromethane)	NA	NA	NA	NA	NA	NA	NA	NA	< 0.128	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorodibromomethane (Dibromochloromethane)	< 0.5	NA	NA	NA	NA	NA	< 0.50	NA	< 0.140	< 0.14	NA	< 0.140	< 0.140	NA	< 0.5	< 0.5	NA	NA	NA	NA

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	7-D 6/20/2014	7-D 9/3/2014 Resample	7-D 6/4/2015	7-D 6/30/2016	7-D 6/13/2017	7-D 6/9/2018	7-D 6/14/2019 App. IX Well	7-D 9/16/2019 Resample	7-D 6/12/2020	7-D 6/15/2021	7-D 6/21/2022	7-D 6/13/2023	7-D 6/13/2023 Duplicate	7-IR 6/27/2013	7-IR 6/20/2014	7-IR 6/20/2014 Duplicate	7-IR 9/3/2014 Resample	7-IR 6/4/2015	7-IR 6/4/2015 Duplicate	7-IR 6/23/2016
Chloroethane	< 0.76	NA	NA	NA	NA	NA	< 0.76	NA	< 0.192	< 0.192	NA	< 0.192	< 0.192	NA	< 0.76	< 0.76	NA	NA	NA	NA
Chloroform	< 0.6	NA	< 0.60	< 0.60	< 0.6	< 0.6	< 0.60	NA	< 0.111	< 0.111	< 0.111	< 0.111	< 0.111	NA	< 0.6	< 0.6	NA	< 0.60	< 0.60	< 0.60
Chloromethane (Methyl chloride)	< 0.83	NA	NA	NA	NA	NA	< 0.83	NA	< 0.960	< 0.96	NA	< 0.960	< 0.960	NA	< 0.83	< 0.83	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.126	< 0.126	< 0.126	< 0.126	< 0.126	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50
cis-1,3-Dichloropropene	< 0.5	NA	NA	NA	NA	NA	< 0.50	NA	< 0.111	< 0.111	NA	< 0.111	< 0.111	NA	< 0.5	< 0.5	NA	NA	NA	NA
Cyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	< 0.188	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexanone	NA	NA	NA	NA	NA	NA	NA	NA	< 3.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromomethane (Methylene bromide)	< 0.59	NA	NA	NA	NA	NA	< 0.59	NA	< 0.122	< 0.122	NA	< 0.122	< 0.122	NA	< 0.59	< 0.59	NA	NA	NA	NA
Dichlorodifluoromethane (Freon 12)	< 0.85	NA	NA	NA	NA	NA	< 0.85	NA	< 0.374	< 0.374	NA	< 0.374	< 0.374	NA	< 0.85	< 0.85	NA	NA	NA	NA
Dichloromonofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	< 0.130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dicyclopentadiene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.253	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethanol	NA	NA	NA	NA	NA	NA	NA	NA	< 42.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl acetate	NA	NA	NA	NA	NA	NA	NA	NA	< 3.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl methacrylate	< 0.6	NA	NA	NA	NA	NA	< 0.60	NA	< 1.48	< 1.48	NA	< 1.48	< 1.48	NA	< 0.6	< 0.6	NA	NA	NA	NA
Ethylbenzene	< 0.5	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.137	< 0.173	< 0.173	< 0.173	< 0.173	NA	< 0.5	< 0.5	NA	< 0.50	0.53 J	< 0.50
Hexachlorobutadiene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.337	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	< 0.316	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane (Methyl iodide)	< 0.68	NA	NA	NA	NA	NA	< 0.90	NA	< 6.00	< 6	NA	< 6.00	< 6.00	NA	< 0.68	< 0.68	NA	NA	NA	NA
Isopropyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	21.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl ether	NA	NA	NA	NA	NA	NA	NA	NA	< 0.105	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	NA	NA	NA	NA	NA	NA	NA	NA	< 0.105	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m+p-Xylenes	NA	NA	NA	NA	NA	NA	NA	NA	< 0.430	< 0.43	< 0.43	< 0.430	< 0.430	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	NA	NA	NA	NA	NA	NA	NA	NA	< 1.29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl isobutyl ketone (4-Methyl-2-pentanone)	< 1.8	NA	NA	NA	NA	NA	< 1.8	NA	< 0.478	< 0.478	NA	< 0.478	< 0.478	NA	< 1.8	< 1.8	NA	NA	NA	NA
Methyl methacrylate	< 5.0	NA	NA	NA	NA	NA	< 5.0	NA	< 1.52	< 1.52 UJ	NA	< 1.52	< 1.52	NA	< 5.0	< 5.0	NA	NA	NA	NA
Methyl tertiary butyl ether (MTBE)	NA	NA	NA	NA	NA	NA	NA	NA	< 0.101	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylacrylonitrile	< 6.0	NA	NA	NA	NA	NA	< 6.0	NA	< 14.2	< 14.2	NA	< 14.2	< 14.2	NA	< 6.0	< 6.0	NA	NA	NA	NA
Methylcyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	< 0.660	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride (Dichloromethane)	< 3.0	NA	NA	NA	NA	NA	< 3.0	NA	< 0.430	< 0.43	NA	< 0.430	< 0.430	NA	< 3.0	< 3.0	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	< 1.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	< 150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.157	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Heptane	NA	NA	NA	NA	NA	NA	NA	NA	< 0.373	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Hexane	NA	NA	NA	NA	NA	NA	NA	NA	< 0.749	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.174	< 0.174	< 0.174	< 0.174	< 0.174	NA	NA	NA	NA	NA	NA	NA
Pentachloroethane	NA	NA	NA	NA	NA	NA	< 0.60	NA	< 2.30	< 2.3	NA	< 2.30	< 2.30	NA	NA	NA	NA	NA	NA	NA
Propionitrile	< 7.0	NA	NA	NA	NA	NA	< 7.0	NA	< 16.2	< 16.2	NA	< 16.2	< 16.2	NA	< 7.0	< 7.0	NA	NA	NA	NA
Propylene (Propene)	NA	NA	NA	NA	NA	NA	NA	NA	< 0.936	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene (2-Phenylbutane)	NA	NA	NA	NA	NA	NA	NA	NA	< 0.125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	< 1.0	NA	NA	NA	NA	NA	< 1.0	NA	< 0.118	< 0.118	NA	< 0.118	< 0.118	NA	< 1.0	< 1.0	NA	NA	NA	NA
tert-Amyl methyl ether	NA	NA	NA	NA	NA	NA	NA	NA	< 0.195	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tert-buty formate	NA	NA	NA	NA	NA	NA	NA	NA	< 4.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	< 4.06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butyl ethyl ether	NA	NA	NA	NA	NA	NA	NA	NA	< 0.101	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.127	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene (PCE)	< 0.58	NA	NA	NA	NA	NA	< 0.58	NA	< 0.300	< 0.3	NA	< 0.300	< 0.300	NA	< 0.58	< 0.58	NA	NA	NA	NA
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	< 0.929	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	< 0.7	NA	< 0.70	< 0.70	< 0.7	< 0.7	< 0.41	NA	< 0.278	< 0.278	< 0.278	< 0.278	< 0.278	NA	< 0.7	< 0.7	NA	< 0.70	< 0.70	< 0.70
trans-1,2-Dichloroethene	< 0.5	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.149	< 0.149	< 0.149	< 0.149	< 0.149	NA	< 0.5	< 0.5	NA	< 0.50	< 0.50	< 0.50
trans-1,3-Dichloropropene	< 0.5	NA	NA	NA	NA	NA	< 0.50	NA	< 0.118	< 0.118	NA	< 0.118	< 0.118	NA	< 0.5	< 0.5	NA	NA	NA	NA
trans-1,4-Dichlorobutene	< 1.0	NA	NA	NA	NA	NA	< 1.0	NA	< 0.467	< 0.467	NA	< 0.467	< 0.467	NA	< 1.0	< 1.0	NA	NA	NA	NA
Trichloroethene (TCE)	< 0.5	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.190	< 0.19	< 0.19	< 0.190	< 0.190	NA	< 0.5	< 0.5	NA	< 0.50	< 0.50	< 0.50
Trichlorofluoromethane (Freon 11)	< 0.52	NA	NA	NA	NA	NA	< 0.52	NA	< 0.160	< 0.16	NA	< 0.160	< 0.160	NA	< 0.52	< 0.52	NA	NA	NA	NA
Vinyl acetate	< 2.0	NA	NA	NA	NA	NA	< 2.0	NA	< 0.692	< 0.692	NA	< 0.692	< 0.692	NA	< 2.0	< 2.0	NA	NA	NA	NA
Vinyl chloride	< 0.5	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.234	< 0.234	< 0.234	< 0.234	< 0.234	NA	< 0.5	< 0.5	NA	< 0.50	< 0.50	< 0.50
Xylenes, Total	< 1.6	NA	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	NA	< 0.174	< 0.174	< 0.174	< 0.174	< 0.174	4.2 J	11 J	10 J	NA	5.4 J	5.9 J	< 1.6

Notes:
mg/L = milligrams per liter
pg/L = picograms per liter
ug/L = micrograms per liter
2014 event performed in accordance with previous permit, with Appendix IX sampling at all program wells every 5 years; subsequent events perfomed annually at rotating list of wells per current permit

Data Qualifier Definitions:
B = The analyte was positively identified, the associated numerica value is estimated due to blank contamination
I = Interference present
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
NA = Not Analyzed
R = The sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified
U = The analyte was analyzed for but was not detected at a concentration greater than the reported sample quantitation limit
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample
< = Not detected at or above the associated Method Detection Limit
As described in annual CMERs, the constituents presented represent the established permit list in effect at time of sampling, and varies annually based on additional Appendix IX detections.
DQE flags may vary by lab and based on professional judgement applied by DQE analyst.

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	7-IR 6/23/2016 Duplicate	7-IR 6/14/2017	7-IR 6/11/2018	7-IR 6/14/2019 App. IX Well	7-IR 9/16/2019 Resample	7-IR 6/12/2020	7-IR 6/15/2021	7-IR 6/21/2022	7-IR 6/21/2022 Duplicate	7-IR 6/13/2023	7-S 6/27/2013	7-S 6/18/2014	7-S 9/3/2014 Resample	7-S 6/4/2015	7-S 6/23/2016	7-S 6/14/2017	7-S 6/11/2018	7-S 6/14/2019 App. IX Well	7-S 9/16/2019 Resample	7-S 6/12/2020
1,2-Dibromoethane - SW846 8011, ug/L																				
1,2-Dibromo-3-Chloropropane	NA	NA	NA	< 0.0057	< 0.0057	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0053	< 0.0053	NA
1,2-Dibromoethane (Ethylene dibromide)	NA	NA	NA	NA	< 0.0052	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0049	NA
Chlorinated Herbicides - SW846 8151, 8151A, 8321, ug/L																				
2,2-Dichloropropionic acid (Dalapon)	NA	NA	NA	NA	NA	< 0.344	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.344
2,4,5-T	NA	NA	NA	< 0.016	NA	< 0.258	< 0.258	NA	NA	< 0.573	NA	< 0.04	NA	NA	NA	NA	NA	< 0.016	NA	< 0.258
2,4,5-TP (Silvex)	< 0.036	< 0.0036	< 0.0073	< 0.0073	NA	< 0.335	< 0.335	< 0.335	< 0.335	< 0.807	NA	< 0.018	NA	< 0.018	< 0.036	< 0.0036	< 0.0073	< 0.0073	NA	< 0.335
2,4-D	NA	NA	NA	< 0.10	NA	< 0.547	< 0.547	NA	NA	< 1.00	NA	< 0.26	NA	NA	NA	NA	NA	< 0.10	NA	< 0.547
2,4-DB	NA	NA	NA	NA	NA	< 0.302	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.302
Dicamba	NA	NA	NA	NA	NA	< 0.245	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.245
Dichlorprop	NA	NA	NA	NA	NA	< 1.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.04
Dinoseb	NA	NA	NA	NA	NA	< 0.250	NA	NA	NA	NA	NA	< 0.16	NA	NA	NA	NA	NA	NA	NA	< 0.250
MCPA (2-Methyl-4-Chlorophenoxyacetic acid)	NA	NA	NA	NA	NA	< 13.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 13.1
MCPP	NA	NA	NA	NA	NA	< 66.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 66.0
Cyanide - EPA 846 9012A, EPA 335.2, 335.4, mg/L																				
Cyanide	NA	NA	NA	< 0.0035	NA	NA	NA	0.0013 U	0.0016 U	< 0.0069	NA	< 0.0035	NA	NA	NA	NA	NA	< 0.0035	NA	NA
Dioxins/Furans - SW846 8290, 8290A, pg/L																				
1,2,3,4,6,7,8,9-OCDD (OCDD)	35 J	21 J	25 J	15 U	NA	< 14	< 8.5	< 3.6	< 1.0	12 J	NA	NA	NA	6.7 J	17 J	22 J	11 J	< 1.7	NA	< 14
1,2,3,4,6,7,8,9-OCDF (OCDF)	2.1 J	6.5 J	4.5 J	< 2.2	NA	< 14	< 8.1	< 1.6	< 0.9	< 4.7	NA	NA	NA	3.2 J	7.8 J	5.2 J	3.3 J	< 2.3	NA	< 9.1
1,2,3,4,6,7,8-HpCDD	1.6 J	5.8 J	3.5 J	< 1.1	NA	< 4.6	< 3.7	< 0.83	< 1.0	< 5.0	NA	NA	NA	2.0 J	3.3 J	4.0 J	2.0 J	< 0.95	NA	< 4.9
1,2,3,4,6,7,8-HpCDF	0.71 J	5.6 J	1.6 J	< 1.1	NA	< 4.9	< 2.7	< 0.98	< 4.6 UJ	< 3.7	NA	NA	NA	1.4 J	2.4 J	2.6 J	1.4 J	< 1.1	NA	< 4.5
1,2,3,4,7,8,9-HpCDF	NA	3.1 J	15 J	< 1.4	NA	< 5.1	< 4.4	< 1.6	< 1.9 UJ	< 5.2	NA	NA	NA	NA	NA	< 0.65	11 J	< 1.3	NA	< 6.8
1,2,3,4,7,8-HxCDD	NA	NA	NA	< 1.1	NA	< 3.2	< 2.4	< 0.93	< 0.55	< 3.5	NA	< 1.1	NA	NA	NA	NA	NA	< 1.2	NA	< 2.4
1,2,3,4,7,8-HxCDF	NA	NA	NA	< 1.4	NA	< 2.6	< 2.3	< 0.35	< 0.7 UJ	< 1.5	NA	< 1.1	NA	NA	NA	NA	NA	< 1.4	NA	< 3.0
1,2,3,6,7,8-HxCDD	NA	NA	NA	< 0.97	NA	< 2.5	< 3.0	< 0.87	< 0.98	< 1.3	NA	< 1.0	NA	NA	NA	NA	NA	< 1.1	NA	< 2.7
1,2,3,6,7,8-HxCDF	NA	NA	NA	< 1.3	NA	< 2.5	< 1.8	< 0.26	< 1.3 UJ	< 1.7	NA	< 1.0	NA	NA	NA	NA	NA	< 1.2	NA	< 2.1
1,2,3,7,8,9-HxCDD	NA	NA	NA	< 0.96	NA	< 2.2	< 2.6	< 0.85	< 0.89	< 3.4	NA	< 0.87	NA	NA	NA	NA	NA	< 1.1	NA	< 2.8
1,2,3,7,8,9-HxCDF	NA	NA	NA	2.4 UJ	NA	< 2.5	< 2.4	< 0.53	< 0.53 UJ	< 2.2	NA	< 1.1	NA	NA	NA	NA	NA	2.2 UJ	NA	< 2.7
1,2,3,7,8-PeCDD	NA	NA	NA	< 1.9	NA	< 3.0	< 2.7	< 0.38	< 0.37	< 1.3	NA	< 2.8	NA	NA	NA	NA	NA	< 1.7	NA	< 2.6
1,2,3,7,8-PeCDF	NA	NA	NA	< 1.1	NA	< 3.1	< 2.7	< 0.62	< 0.47	< 1.4	NA	< 3.9	NA	NA	NA	NA	NA	< 0.92	NA	< 2.0
2,3,4,6,7,8-HxCDF	NA	NA	NA	< 1.4	NA	< 2.5	< 2.8	< 0.46	< 0.21	< 1.6	NA	< 1.1	NA	NA	NA	NA	NA	< 1.3	NA	< 2.6
2,3,4,7,8-PeCDF	NA	NA	NA	< 1.1	NA	< 3.1	< 1.6	< 0.46	< 0.12	< 1.3	NA	< 4.0	NA	NA	NA	NA	NA	< 0.94	NA	< 1.4
2,3,7,8-TCDD	NA	NA	NA	< 1.3	NA	< 1.9	< 6.2	< 0.91	< 0.59	< 1.7	NA	< 3.2	NA	NA	NA	NA	NA	< 1.2	NA	< 2.2
2,3,7,8-TCDF	NA	NA	NA	< 0.86	NA	< 2.3	< 5.5	< 0.51	< 0.31	< 1.3	NA	< 11	NA	NA	NA	NA	NA	< 0.92	NA	< 1.7
TEQ-WHO 2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0037	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total HpCDD	3.3 J	9.0 J	8.1 J	< 2.4	NA	< 4.6	< 3.7	< 0.83	< 1.0	< 5.0	NA	NA	NA	2.0 J	4.6 J	8.1 J	4.6 J	< 0.95	NA	< 4.9
Total HpCDF	0.71 J	8.7 J	20 J	< 1.4	NA	< 4.9	< 2.7	< 0.98	< 1.9	< 3.7	NA	NA	NA	1.4 J	4.4 J	2.6 J	15 J	< 1.3	NA	< 4.5
Total HxCDD	< 1.9	10 J	2.1 J	< 1.1	NA	< 2.2	< 2.4	< 0.85	< 0.55	< 1.3	NA	16 J	NA	2.5 J	4.7 J	5.6 J	1.1 J	< 1.2	NA	< 2.4
Total HxCDF	< 1.9	14 J	34 J	2.4 J	NA	< 2.1	< 1.8	< 0.26	< 0.21	< 1.5	NA	3.3 J	NA	< 0.32	6.3 J	5.1 J	25 J	2.2 UJ	NA	< 2.1
Total PeCDD	NA	NA	NA	< 1.9	NA	< 3.0	< 2.7	< 0.38	< 0.37	< 1.3	NA	< 2.0	NA	NA	NA	NA	NA	< 1.7	NA	< 2.6
Total PeCDF	NA	NA	NA	< 1.1	NA	< 1.8	< 1.6	< 0.46	< 0.12	< 1.3	NA	< 2.0	NA	NA	NA	NA	NA	< 0.94	NA	< 1.4
Total TCDD	< 1.9	2.1 J	1.1 J	< 1.3	NA	< 1.9	< 6.2	< 0.91	< 0.59	< 1.7	NA	< 3.2	NA	< 0.46	< 0.46	< 0.39	< 2.2	< 1.2	NA	< 2.2
Total TCDF	NA	NA	NA	< 0.86	NA	< 2.3	< 5.5	< 0.51	< 0.31	< 1.3	NA	< 2.0	NA	NA	NA	NA	NA	< 0.92	NA	< 1.7
Mercury, Total - SW846 7470, 7470A, mg/L																				
Mercury	< 0.000070	< 0.00007	< 0.00007	0.000077 J	NA	NA	< 0.00010	< 0.00010	< 0.00010	< 0.00010	NA	0.00012 J	NA	< 0.00007	< 0.000070	< 0.00007	< 0.00007	0.000083 J	NA	NA
Metals, Total - SW846 6010C, 6020, 6020A, mg/L																				
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	NA	NA	NA	< 0.0015	NA	NA	< 0.00063	< 0.00063	< 0.00063	< 0.00034	NA	< 0.01	NA	NA	NA	NA	NA	< 0.0015	NA	NA
Arsenic	0.096	0.078	0.091	0.067	NA	0.0758	0.0682	0.077	0.075	0.079	0.02	0.065 J	NA	0.025	0.097	0.078	0.091	0.11	NA	0.0944
Barium	0.085	0.09	0.094	0.084	NA	0.0908	0.0861	0.085	0.082	0.09	NA	0.2	NA	0.2	0.23	0.29	0.35	0.29	NA	0.343
Beryllium	NA	NA	NA	< 0.00013	NA	NA	< 0.00012	< 0.00012	< 0.00012	< 0.00021	NA	< 0.001	NA	NA	NA	NA	NA	< 0.00013	NA	NA
Cadmium	< 0.00034	< 0.000068	< 0.000068	< 0.00025	NA	< 0.00008	< 0.000080	< 0.000080	< 0.000080	< 0.00019	NA	< 0.001	NA	< 0.00059	< 0.00034	< 0.000068	< 0.000068	< 0.00025	NA	< 0.00008
Chromium	< 0.0011	0.00096	0.00074	0.00081 J	NA	0.0011	0.0011	0.0015	0.0013	0.00099 J	NA	0.0058 J	NA	< 0.00063	< 0.0011	0.00023 J	0.00026 J	< 0.0005	NA	< 0.00062
Cobalt	< 0.00040	0.00028 J	0.00027 J	0.00024 J	NA	0.00024 J	0.00025 J	0.00028 J	0.00028 J	0.00026 J	NA	< 0.003	NA	0.00031 J	< 0.00040	0.00035 J	0.0003 J	0.00027 J	NA	0.00034 J
Copper	< 0.0021	< 0.00042	0.00088	< 0.0005	NA	< 0.00083	< 0.00083	< 0.00083	< 0.00083	< 0.0017	0.0024 J	0.01 J	NA	< 0.0019	< 0.0021	< 0.00042	< 0.00042	< 0.0005	NA	< 0.00083
Lead	< 0.00035	0.00077	0.00032	0.00022 J	NA	0.00022 J	0.00044 J	0.00016 J	0.00016 J	< 0.00069	NA	0.0051	0.0027 J	< 0.00017	< 0.00035	< 0.00007	0.000081 J	< 0.00017	NA	< 0.00007
Nickel	< 0.0018	0.00037 J	0.00055	< 0.00086	NA	< 0.00056	0.0014	0.0030	0.0035	< 0.00062	NA	0.0081	< 0.003	< 0.0007	< 0.0018	< 0.00036	< 0.00036	< 0.00086	NA	0.00065 J
Selenium	< 0.00024	0.000054 J	0.000067 J	< 0.0023	NA	< 0.00037	< 0.00037	< 0.00037	< 0.00037	< 0.00026	NA	0.0045 J	NA	< 0.00033	0.00037 J	0.0002 J	0.00014 J	0.0028 U	NA	< 0.00037
Silver	NA	NA	NA	< 0.0004	NA	NA	< 0.000080	< 0.000080	< 0.000080	< 0.00020	NA	< 0.002	NA	NA	NA	NA	NA	< 0.0004	NA	NA
Thallium	< 0.000085	< 0.000017	< 0.000017	< 0.00014	NA	< 0.00008	< 0.000080	< 0.000080	< 0.000080	< 0.00011	NA	< 0.004	NA	< 0.000017	< 0.000085	< 0.000017	< 0.000017	< 0.00014	NA	< 0.00008
Tin	NA	NA	NA	0.0016 J	NA	NA	< 0.00043	< 0.00043	< 0.00043	< 0.00065	NA	< 0.005	NA	NA	NA	NA	NA	< 0.0013	NA	NA
Vanadium	< 0.0014	< 0.00028	< 0.00028	< 0.0013	NA	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.00023	NA	0.0033 J	NA	< 0.0022	< 0.0014	0.00048 J	0.00048 J	< 0.0013	NA	< 0.0023
Zinc	NA	NA	NA	0.015 B	NA	0.0046 J	0.0077 J	< 0.0044	< 0.0044	< 0.0072	NA	0.04	< 0.008	< 0.014	NA	NA	NA	0.0091	NA	< 0.0044
Organophosphorus Pesticides - SW846 8141, ug/L																				
Basudin, Neocidol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorpyrifos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Coumaphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dasanit	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Demeton	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Demeton-s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibrom	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorvos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethoate (Cygon)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disulfoton	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethoprophos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl Parathion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fenthion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Folex	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	7-IR 6/23/2016 Duplicate	7-IR 6/14/2017	7-IR 6/11/2018	7-IR 6/14/2019 App. IX Well	7-IR 9/16/2019 Resample	7-IR 6/12/2020	7-IR 6/15/2021	7-IR 6/21/2022	7-IR 6/21/2022 Duplicate	7-IR 6/13/2023	7-S 6/27/2013	7-S 6/18/2014	7-S 9/3/2014 Resample	7-S 6/4/2015	7-S 6/23/2016	7-S 6/14/2017	7-S 6/11/2018	7-S 6/14/2019 App. IX Well	7-S 9/16/2019 Resample	7-S 6/12/2020
Guthion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Malathion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl parathion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mevinphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phorate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ronnel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfotepp	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulprofos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachlorvinphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetraethyl diphosphate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tokuthion (Prothiofos)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloronate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organophosphorus Pesticides - SW846 8270-PEST, ug/L																				
Dimethoate (Cygon)	NA	NA	NA	< 0.24	NA	< 5.05	< 5.05	NA	NA	< 5.05	NA	< 3.0	NA	NA	NA	NA	NA	< 0.24 UJ	NA	< 5.05
Disulfoton	NA	NA	NA	< 0.37	NA	NA	NA	NA	NA	NA	NA	< 3.0	NA	NA	NA	NA	NA	< 0.37 UJ	NA	NA
Ethyl Parathion	NA	NA	NA	< 0.18	NA	NA	NA	NA	NA	NA	NA	< 3.0	NA	NA	NA	NA	NA	< 0.18 UJ	NA	NA
Famphur	NA	NA	NA	< 0.25	NA	< 3.92	< 3.92	NA	NA	< 3.92	NA	< 3.0	NA	NA	NA	NA	NA	< 0.25 UJ	NA	< 3.92
Methyl parathion	NA	NA	NA	< 0.17	NA	NA	NA	NA	NA	NA	NA	< 3.0	NA	NA	NA	NA	NA	< 0.17 UJ	NA	NA
Phorate	NA	NA	NA	< 0.21	NA	NA	NA	NA	NA	NA	NA	< 3.0	NA	NA	NA	NA	NA	< 0.21 UJ	NA	NA
Sulfotepp	NA	NA	NA	< 0.23	NA	< 3.99	< 3.99	NA	NA	< 3.99	NA	< 3.0	NA	NA	NA	NA	NA	< 0.23 UJ	NA	< 3.99
Thionazin	NA	NA	NA	< 0.20	NA	< 4.07	< 4.07	NA	NA	< 4.07	NA	< 3.0	NA	NA	NA	NA	NA	< 0.20 UJ	NA	< 4.07
Pesticides - SW846 8081, 8081A, 8081B, ug/L																				
4,4'-DDD	NA	NA	NA	< 0.0029 R	NA	NA	< 0.0177	NA	NA	< 0.0177	NA	< 0.0029	NA	NA	NA	NA	NA	< 0.0029 R	NA	NA
4,4'-DDE	NA	NA	NA	< 0.0038 R	NA	NA	0.0595	NA	NA	< 0.0154	NA	< 0.0021	NA	NA	NA	NA	NA	< 0.0038 R	NA	NA
4,4'-DDT	NA	NA	NA	< 0.0037 R	NA	NA	< 0.0198	NA	NA	< 0.0198	NA	< 0.0038	NA	NA	NA	NA	NA	< 0.0037 R	NA	NA
Aldrin	NA	NA	NA	< 0.0029 R	NA	NA	< 0.0198	< 0.0198	< 0.0198	< 0.0198	NA	< 0.0029	NA	NA	NA	NA	NA	< 0.0029 R	NA	NA
alpha-BHC	NA	NA	NA	< 0.0034 R	NA	NA	< 0.0172	NA	NA	< 0.0172	NA	< 0.0035	NA	NA	NA	NA	NA	< 0.0034 R	NA	NA
alpha-Chlordane	NA	NA	NA	< 0.0040 R	NA	NA	< 0.0149	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0040 R	NA	NA
beta-BHC	NA	NA	NA	< 0.0029 R	NA	NA	< 0.0208	NA	NA	< 0.0208	NA	< 0.0029	NA	NA	NA	NA	NA	< 0.0029 R	NA	NA
beta-Chlordane	NA	NA	NA	< 0.0031 R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0030 R	NA	NA
Chlordane	NA	NA	NA	NA	NA	NA	< 0.0198	NA	NA	< 0.0198	NA	< 0.13	NA	NA	NA	NA	NA	NA	NA	NA
Chlordane, technical	NA	NA	NA	< 0.12 R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.12 R	NA	NA
Chlorobenzilate	NA	NA	NA	< 0.037 R	NA	NA	NA	NA	NA	NA	NA	< 0.038	NA	NA	NA	NA	NA	< 0.037 R	NA	NA
delta-BHC	NA	NA	NA	< 0.0026 R	NA	NA	< 0.015	NA	NA	< 0.0150	NA	< 0.002	NA	NA	NA	NA	NA	< 0.0026 R	NA	NA
Dieldrin	NA	NA	NA	< 0.0056 R	NA	NA	< 0.0162	NA	NA	< 0.0162	NA	< 0.0029	NA	NA	NA	NA	NA	< 0.0056 R	NA	NA
Endosulfan I	NA	NA	NA	< 0.0029 R	NA	NA	< 0.016	NA	NA	< 0.0160	NA	< 0.0029	NA	NA	NA	NA	NA	< 0.0029 R	NA	NA
Endosulfan II	NA	NA	NA	< 0.0071 R	NA	NA	< 0.0164	NA	NA	< 0.0164	NA	< 0.0072	NA	NA	NA	NA	NA	< 0.0070 R	NA	NA
Endosulfan sulfate	NA	NA	NA	< 0.0020 R	NA	NA	< 0.0217	NA	NA	< 0.0217	NA	< 0.002	NA	NA	NA	NA	NA	< 0.0020 R	NA	NA
Endrin	NA	NA	NA	< 0.0029 R	NA	NA	< 0.0161	NA	NA	< 0.0161	NA	< 0.0029	NA	NA	NA	NA	NA	< 0.0029 R	NA	NA
Endrin aldehyde	NA	NA	NA	< 0.0027 R	NA	NA	< 0.0237	NA	NA	< 0.0237	NA	< 0.0027	NA	NA	NA	NA	NA	< 0.0027 R	NA	NA
Endrin ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0219	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	NA	NA	NA	< 0.024 R	NA	NA	< 0.0209	NA	NA	< 0.0209	NA	< 0.024	NA	NA	NA	NA	NA	< 0.024 R	NA	NA
gamma-Chlordane	NA	NA	NA	NA	NA	NA	< 0.0137	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	NA	NA	NA	< 0.0030 R	NA	NA	< 0.0148	NA	NA	< 0.0148	NA	< 0.003	NA	NA	NA	NA	NA	< 0.0030 R	NA	NA
Heptachlor Epoxide	NA	NA	NA	< 0.0031 R	NA	NA	< 0.0183	NA	NA	< 0.0183	NA	< 0.0031	NA	NA	NA	NA	NA	< 0.0030 R	NA	NA
Hexachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0176	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	NA	NA	NA	< 0.0039 R	NA	NA	< 0.0193	NA	NA	< 0.0193	NA	< 0.004	NA	NA	NA	NA	NA	< 0.0039 R	NA	NA
Toxaphene	NA	NA	NA	< 0.38 R	NA	NA	< 0.168	NA	NA	< 0.168	NA	< 0.29	NA	NA	NA	NA	NA	< 0.38 R	NA	NA
Phenolics - E420.1, E420.4, SW9065, mg/L																				
Total Recoverable Phenolics	0.12	0.078	0.032	< 0.09	NA	0.13	0.213	0.0985	0.138	< 0.0093	0.01	0.018	NA	0.013	0.018	0.0078 J	0.011	< 0.09	NA	0.17
Polychlorinated Biphenyl (PCB) - SW846 8082, 8082A, ug/																				
PCB-1016	NA	NA	NA	< 0.046 R	NA	NA	NA	NA	NA	NA	NA	< 0.047	NA	NA	NA	NA	NA	< 0.046 R	NA	NA
PCB-1221	NA	NA	NA	< 0.21 R	NA	NA	NA	NA	NA	NA	NA	< 0.21	NA	NA	NA	NA	NA	< 0.21 R	NA	NA
PCB-1232	NA	NA	NA	< 0.39 R	NA	NA	NA	NA	NA	NA	NA	< 0.097	NA	NA	NA	NA	NA	< 0.39 R	NA	NA
PCB-1242	NA	NA	NA	< 0.17 R	NA	NA	NA	NA	NA	NA	NA	< 0.033	NA	NA	NA	NA	NA	< 0.17 R	NA	NA
PCB-1248	NA	NA	NA	< 0.019 R	NA	NA	NA	NA	NA	NA	NA	< 0.019	NA	NA	NA	NA	NA	< 0.019 R	NA	NA
PCB-1254	NA	NA	NA	< 0.30 R	NA	NA	NA	NA	NA	NA	NA	< 0.055	NA	NA	NA	NA	NA	< 0.30 R	NA	NA
PCB-1260	NA	NA	NA	< 0.032 R	NA	NA	NA	NA	NA	NA	NA	< 0.033	NA	NA	NA	NA	NA	< 0.032 R	NA	NA
PCB-1262	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1268	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semi-Volatile Organic Compounds - SW846 8270C, 8270D																				
1,2,4,5-Tetrachlorobenzene	NA	NA	NA	< 0.52	NA	< 0.0647	< 0.0647	NA	NA	< 0.0647	NA	< 0.52	NA	NA	NA	NA	NA	< 0.65 UJ	NA	< 0.0647
1,2,4-Trichlorobenzene	NA	NA	NA	< 0.53	NA	< 0.0698	< 0.0698	NA	NA	< 0.0698	NA	< 0.53	NA	NA	NA	NA	NA	< 0.66 UJ	NA	< 0.0698
1,2-Dichlorobenzene	NA	NA	NA	< 0.57	NA	< 0.0713	< 0.0713	NA	NA	< 0.0713	NA	< 0.57	NA	NA	NA	NA	NA	< 0.71 UJ	NA	< 0.0713
1,3,5-Trinitrobenzene	NA	NA	NA	< 2.0 UJ	NA	< 1.32	< 1.32	NA	NA	< 1.32	NA	< 2.0	NA	NA	NA	NA	NA	< 2.5 UJ	NA	< 1.32
1,3-Dichlorobenzene	NA	NA	NA	< 0.47	NA	< 0.132	< 0.132	NA	NA	< 0.132	NA	< 0.47	NA	NA	NA	NA	NA	< 0.59 UJ	NA	< 0.132
1,3-Dinitrobenzene	NA	NA	NA	< 1.0	NA	< 0.359	< 0.359	NA	NA	< 0.359	NA	< 1.0	NA	NA	NA	NA	NA	< 1.2 UJ	NA	< 0.359
1,4-Dichlorobenzene	NA	NA	NA	< 0.52	NA	< 0.0942	< 0.0942	NA	NA	< 0.0942	NA	< 0.52	NA	NA	NA	NA	NA	< 0.65 UJ	NA	< 0.0942
1,4-Dioxane (p-Dioxane)	< 1.0	< 1.0	< 1.2	< 1.0	NA	NA	< 0.0447	0.186 U	0.205 U	0.202 J	NA	< 1.0	NA	< 1.0	< 1.0	< 0.98	< 1.1	< 1.2 UJ	NA	NA
1,4-Naphthoquinone	NA	NA	NA	< 4.0 UJ	NA	< 5.56 R	< 5.56 R	NA	NA	< 5.56	NA	< 4.0	NA	NA	NA	NA	NA	< 5.0 UJ	NA	< 5.56 R
1-Methylnaphthalene	100 B	40 B	5.2	43	NA	11.8	20.8	20.1	22.9	41.2	120	56 J	NA	64	72 B	34 B	32	43	NA	14.2
1-Naphthylamine	< 4.0	< 4.1	< 4.7	< 4.0 UJ	NA	1.58 J	2.82 J	1.17 J	1.3 J	1.88 J	< 2.7	< 4.0	NA	< 4.0	< 4.0	< 3.9	< 4.5	< 5.0 UJ	NA	< 0.289
2,2'-Oxybis(1-chloropropane)	NA	NA	NA	NA	NA	NA	< 0.21	NA	NA	< 0.210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NA	NA	NA	< 0.65	NA	< 0.231	< 0.231	NA	NA	< 0.231	NA	< 0.64	NA	NA	NA	NA	NA	< 0.80 UJ	NA	< 0.231
2,4,5-Trichlorophenol	NA	NA	NA	< 3.7	NA	< 0.109	< 0.109	NA	NA	< 0.109	NA	< 3.7	NA	NA	NA	NA	NA	< 4.6 UJ	NA	< 0.109
2,4,6-Trichlorophenol	NA	NA	NA	< 3.5	NA	< 0.100	< 0.1	NA	NA	< 0.100	NA	< 3.5	NA	NA	NA	NA	NA	< 4.4 UJ	NA	< 0.100
2,4-Dichlorophenol	NA	NA	NA	< 3.0	NA	< 0.102	< 0.102	NA	NA	< 0.102	NA	< 3.0	NA	NA	NA	NA	NA	< 3.7 UJ	NA	< 0.102
2,4-Dimethylphenol	< 3.5	< 3.6	< 4.1	< 3.5	NA	< 0.0636	< 0.0636	< 0.0636	< 0.0636	< 0.0636	< 3.3	< 3.5	NA	< 3.5	< 3.5	< 3.4	< 4.0	< 4.4 UJ	NA	< 0.0636

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID:	7-IR	7-IR	7-IR	7-IR	7-IR	7-IR	7-IR	7-IR	7-IR	7-IR	7-S	7-S	7-S	7-S	7-S	7-S	7-S	7-S	7-S
Sample Date:	6/23/2016	6/14/2017	6/11/2018	6/14/2019	9/16/2019	6/12/2020	6/15/2021	6/21/2022	6/21/2022	6/13/2023	6/27/2013	6/18/2014	9/3/2014	6/4/2015	6/23/2016	6/14/2017	6/11/2018	6/14/2019	9/16/2019	6/12/2020
Sample Type:	Duplicate			App. IX Well	Resample				Duplicate				Resample					App. IX Well	Resample	
2,4-Dinitrophenol	NA	NA	NA	< 3.4	NA	< 5.93	< 5.93	NA	NA	< 5.93	NA	< 3.4	NA	NA	NA	NA	NA	< 4.2 UJ	NA	< 5.93
2,4-Dinitrotoluene	NA	NA	NA	< 1.9	NA	< 0.0983	< 0.0983	NA	NA	< 0.0983	NA	< 1.9	NA	NA	NA	NA	NA	< 2.4 UJ	NA	< 0.0983
2,6-Dichlorophenol	NA	NA	NA	< 4.0	NA	< 0.102	< 0.102	NA	NA	< 0.102	NA	< 4.0	NA	NA	NA	NA	NA	< 5.0 UJ	NA	< 0.102
2,6-Dinitrotoluene	NA	NA	NA	< 1.9	NA	< 0.250	< 0.25	NA	NA	< 0.250	NA	< 1.9	NA	NA	NA	NA	NA	< 2.4 UJ	NA	< 0.250
2-Acetylaminofluorene	NA	NA	NA	< 4.0 UJ	NA	< 0.253	< 0.253	NA	NA	< 0.253	NA	< 4.0	NA	NA	NA	NA	NA	< 5.0 UJ	NA	< 0.253
2-Chloronaphthalene	NA	NA	NA	< 0.52	NA	< 0.0648	< 0.0648	NA	NA	< 0.0648	NA	< 0.52	NA	NA	NA	NA	NA	< 0.65 UJ	NA	< 0.0648
2-Chlorophenol	NA	NA	NA	< 2.2	NA	< 0.133	< 0.133	NA	NA	< 0.133	NA	< 2.2	NA	NA	NA	NA	NA	< 2.7 UJ	NA	< 0.133
2-Methylaniline (o-Toluidine)	< 6.0	< 6.2	< 7.0	< 6.0 UJ	NA	3.64 J	5.01 J	3.65 J	3.78 J	< 3.53	< 0.95	< 6.0	NA	< 6.0	< 6.0	< 5.9	< 6.8	< 7.5 UJ	NA	< 3.53
2-Methylnaphthalene	14	1.5 B	0.5	1.5 J	NA	0.724 J	1.13	0.468 J	0.544 J	< 0.117	7.3	1.4 J	NA	< 6.3	< 0.020	< 0.02	< 0.023	< 0.025	NA	< 0.117
2-Methylphenol (o-Cresol)	NA	NA	NA	< 1.8	NA	< 0.0929	< 0.0929	NA	NA	< 0.0929	NA	< 1.8	NA	NA	NA	NA	NA	< 2.2 UJ	NA	< 0.0929
2-Naphthylamine	< 4.0	< 4.1	< 4.7	< 4.0 UJ	NA	< 4.48	< 4.48	< 4.48	< 4.48	< 4.48	< 2.8	< 4.0	NA	< 4.0	< 4.0	< 3.9	< 4.5	< 5.0 UJ	NA	< 4.48
2-Nitroaniline	NA	NA	NA	< 2.2	NA	< 0.102	< 0.102	NA	NA	< 0.102	NA	< 2.2	NA	NA	NA	NA	NA	< 2.7 UJ	NA	< 0.102
2-Nitrophenol	NA	NA	NA	< 0.66	NA	< 0.117	< 0.117	NA	NA	< 0.117	NA	< 0.65	NA	NA	NA	NA	NA	< 0.81 UJ	NA	< 0.117
2-Picoline	NA	NA	NA	< 6.0	NA	< 6.83	< 6.83	NA	NA	< 6.83	NA	< 6.0	NA	NA	NA	NA	NA	< 7.5 UJ	NA	< 6.83
3,3'-Dichlorobenzidine	NA	NA	NA	< 2.6	NA	< 0.212	< 0.212	NA	NA	< 0.212	NA	< 2.6	NA	NA	NA	NA	NA	< 3.2 UJ	NA	< 0.212
3,3'-Dimethylbenzidine	NA	NA	NA	< 8.1 UJ	NA	< 3.39	< 3.39	NA	NA	< 3.39	NA	< 8.0	NA	NA	NA	NA	NA	< 10 UJ	NA	< 3.39
3+4-Methylphenol (m,p-Cresol)	< 1.0	< 1.1	< 1.2	< 1.0	NA	< 0.168	< 0.168	< 0.168	< 0.168	< 0.168	< 0.37	NA	NA	< 1.0	< 1.0	< 1.0	< 1.2	< 1.3 UJ	NA	< 0.168
3-Methylchloranthrene	NA	NA	NA	< 2.2	NA	< 0.164	< 0.164	NA	NA	< 0.164	NA	< 2.2	NA	NA	NA	NA	NA	< 2.7 UJ	NA	< 0.164
3-Methylphenol (m-Cresol)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.39	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	NA	NA	NA	< 1.8	NA	< 0.0869	< 0.0869	NA	NA	< 0.0869	NA	< 1.8	NA	NA	NA	NA	NA	< 2.2 UJ	NA	< 0.0869
4,6-Dinitro-2-Methylphenol	NA	NA	NA	< 2.0	NA	< 1.12	< 1.12	NA	NA	< 1.12	NA	< 2.0	NA	NA	NA	NA	NA	< 2.5 UJ	NA	< 1.12
4-Aminobiphenyl	NA	NA	NA	< 4.2	NA	< 0.461	< 0.461	NA	NA	< 0.461	NA	< 4.2	NA	NA	NA	NA	NA	< 5.2 UJ	NA	< 0.461
4-Bromophenyl phenyl ether	NA	NA	NA	< 0.32	NA	< 0.0877	< 0.0877	NA	NA	< 0.0877	NA	< 0.32	NA	NA	NA	NA	NA	< 0.40 UJ	NA	< 0.0877
4-Chloro-3-Methylphenol	NA	NA	NA	< 3.8	NA	< 0.131	< 0.131	NA	NA	< 0.131	NA	< 3.8	NA	NA	NA	NA	NA	< 4.7 UJ	NA	< 0.131
4-Chloroaniline	NA	NA	NA	< 3.4	NA	< 0.234	< 0.234	NA	NA	< 0.234	NA	< 3.4	NA	NA	NA	NA	NA	< 4.2 UJ	NA	< 0.234
4-Chlorophenyl phenyl ether	NA	NA	NA	< 2.0	NA	< 0.0926	< 0.0926	NA	NA	< 0.0926	NA	< 2.0	NA	NA	NA	NA	NA	< 2.5 UJ	NA	< 0.0926
4-Dimethylaminoazobenzene	NA	NA	NA	< 2.3	NA	< 3.69	< 3.69	NA	NA	< 3.69	NA	< 2.3	NA	NA	NA	NA	NA	< 2.9 UJ	NA	< 3.69
4-Methylphenol (p-Cresol)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.39	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	NA	NA	NA	< 2.5	NA	< 0.0910	< 0.091	NA	NA	< 0.0910	NA	< 2.5	NA	NA	NA	NA	NA	< 3.1 UJ	NA	< 0.0910
4-Nitrophenol	NA	NA	NA	< 2.1	NA	< 0.143	< 0.143	NA	NA	< 0.143	NA	< 2.1	NA	NA	NA	NA	NA	< 2.6 UJ	NA	< 0.143
4-Nitroquinoline-N-Oxide	NA	NA	NA	< 2.0 UJ	NA	< 2.03	< 2.03	NA	NA	< 2.03	NA	< 2.0	NA	NA	NA	NA	NA	< 2.5 UJ	NA	< 2.03
5-Nitro-O-Toluidine	NA	NA	NA	< 3.0	NA	< 1.99	< 1.99	NA	NA	< 1.99	NA	< 3.0	NA	NA	NA	NA	NA	< 3.7 UJ	NA	< 1.99
7,12-Dimethylbenz(a)anthracene	NA	NA	NA	< 3.7 UJ	NA	< 1.71	< 1.71	NA	NA	< 1.71	NA	< 3.7	NA	NA	NA	NA	NA	< 4.6 UJ	NA	< 1.71
Acenaphthene	140 B	170	160	180	NA	62.9	101	61.3	65.2	98.2	190	92 J	NA	140	120 B	110	88	95	NA	46.7
Acenaphthylene	1.0	0.86	< 0.023	< 0.020	NA	< 0.0921	0.383 J	0.268 J	0.232 J	< 0.0921	0.9	< 0.56	NA	1.2	0.82	< 0.02	< 0.023	< 0.025	NA	< 0.0921
Acetophenone	NA	NA	NA	< 0.62	NA	< 0.208	< 0.208	NA	NA	< 0.208	NA	< 0.62	NA	NA	NA	NA	NA	< 0.77 UJ	NA	< 0.208
alpha, alpha-Dimethylphenethylamine	NA	NA	NA	< 10 UJ	NA	< 3.13 R	< 3.13 R	NA	NA	< 3.13	NA	< 10	NA	NA	NA	NA	NA	< 12 UJ	NA	< 3.13 R
Aniline	NA	NA	NA	< 3.8	NA	< 1.65	< 1.65	NA	NA	< 1.65	NA	< 3.8	NA	NA	NA	NA	NA	< 4.7 UJ	NA	< 1.65
Anthracene	2.8	< 0.021	< 0.023	< 0.020	NA	0.659 J	1.02	0.572 J	0.609 J	0.921 J	10	21 J	NA	5.0	7.1	4.4	4.4	3.6	NA	2.81
Aramite	NA	NA	NA	< 2.0	NA	< 16.7	< 16.7	NA	NA	< 16.7	NA	< 2.0	NA	NA	NA	NA	NA	< 2.5 UJ	NA	< 16.7
Benzo(a)anthracene	< 0.040	< 0.041	< 0.047	< 0.040	NA	< 0.199	< 0.199	< 0.199	< 0.199	< 0.199	0.13 J	< 0.34	NA	< 0.092	< 0.040	< 0.04	< 0.045	< 0.050	NA	< 0.199
Benzo(a)pyrene	< 0.040	< 0.41	0.066 J	< 0.040	NA	< 0.0381	< 0.0381	< 0.0381	< 0.0381	< 0.0381	< 0.038	< 0.43	NA	< 0.20	< 0.040	< 0.04	< 0.045	< 0.050	NA	< 0.0381
Benzo(b)fluoranthene	< 0.040	< 0.41	0.091 J	< 0.040	NA	< 0.130	< 0.13	< 0.13	< 0.13	< 0.130	0.095 J	< 0.38	NA	< 0.092	< 0.040	< 0.04	< 0.045	< 0.050	NA	< 0.130
Benzo(g,h,i)perylene	< 0.040	< 0.41	0.088 J	< 0.040	NA	< 0.121	< 0.121	< 0.121	< 0.121	< 0.121	0.16 J	< 1.1	NA	< 0.040	< 0.040	< 0.04	< 0.045	< 0.050	NA	< 0.121
Benzo(k)fluoranthene	< 0.040	< 0.41	0.088 J	< 0.040	NA	< 0.120	< 0.12	< 0.12	< 0.12	< 0.120	0.053 J	< 0.54	NA	< 0.92	< 0.040	< 0.04	< 0.045	< 0.050	NA	< 0.120
Benzyl Alcohol	NA	NA	NA	< 2.0	NA	< 0.563	< 0.563	NA	NA	< 0.563	NA	< 2.0	NA	NA	NA	NA	NA	< 2.5 UJ	NA	< 0.563
bis(2-Chloroethoxy)methane	NA	NA	NA	< 0.70	NA	< 0.116	< 0.116	NA	NA	< 0.116	NA	< 0.69	NA	NA	NA	NA	NA	< 0.86 UJ	NA	< 0.116
bis(2-Chloroethyl)ether	NA	NA	NA	< 0.75	NA	< 0.137	< 0.137	NA	NA	< 0.137	NA	< 0.74	NA	NA	NA	NA	NA	< 0.92 UJ	NA	< 0.137
bis(2-Chloroisopropyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.81	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	< 2.3	< 2.3	17	< 5.0	NA	< 0.895	< 0.895	< 0.895	< 0.895	< 0.895	< 1.9	< 2.3	NA	< 6.0	< 2.3	< 2.2	7.9 J	< 6.2 UJ	NA	< 0.895
Butyl benzyl phthalate	NA	NA	NA	< 0.70	NA	< 0.765	< 0.765	NA	NA	< 0.765	NA	< 0.69	NA	NA	NA	NA	NA	< 0.86 UJ	NA	< 0.765
Chlorobenzilate	NA	NA	NA	NA	NA	NA	< 3.84	NA	NA	< 3.84	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	< 0.040	< 0.041	< 0.047	< 0.040	NA	< 0.130	< 0.13	< 0.13	< 0.13	< 0.130	0.082 J	< 0.49	NA	< 9.2	< 0.040	< 0.04	< 0.045	< 0.050	NA	< 0.130
Diallate	NA	NA	NA	< 3.0	NA	< 0.524	< 0.524	NA	NA	< 0.524	NA	< 3.0	NA	NA	NA	NA	NA	< 3.7 UJ	NA	< 0.524
Dibenzo(a,h)anthracene	NA	NA	NA	< 1.2	NA	< 0.0644	< 0.0644	NA	NA	< 0.0644	NA	< 1.2	NA	NA	NA	NA	NA	< 1.5 UJ	NA	< 0.0644
Dibenzofuran	< 0.52	< 0.54	< 0.61	< 0.52	NA	< 0.0970	0.173 J	< 0.097	< 0.097	< 0.0970	< 0.16	1.3 J	NA	< 1.2	< 0.52	< 0.51	< 0.59	< 0.65 UJ	NA	< 0.0970
Diethyl phthalate	NA	NA	NA	< 0.71	NA	< 0.287	< 0.287	NA	NA	0.812 J	NA	< 0.7	NA	NA	NA	NA	NA	< 0.87 UJ	NA	< 0.287
Dimethyl phthalate	NA	NA	NA	< 0.60	NA	< 0.260	< 0.26	NA	NA	< 0.260	NA	< 0.6	NA	NA	NA	NA	NA	< 0.75 UJ	NA	< 0.260
Di-n-butyl phthalate	NA	NA	NA	< 2.7	NA	< 0.453	< 0.453	NA	NA	< 0.453	NA	NA	NA	NA	NA	NA	NA	< 3.4 UJ	NA	< 0.453
Di-n-octyl phthalate	< 0.44	< 0.46	< 0.51	< 0.44	NA	< 0.932	< 0.932	< 0.932	< 0.932	< 0.932	< 0.16	< 0.44	NA	< 0.44	0.89 J	< 0.43	< 0.5	< 0.55 UJ	NA	< 0.932
Dinoseb	NA	NA	NA	< 3.0 UJ	NA	< 8.01	< 8.01	NA	NA	< 8.01	NA	NA	NA	NA	NA	NA	NA	< 3.7 UJ	NA	< 8.01
Diphenylamine	NA	NA	NA	< 3.0	NA	< 2.37	< 2.37	NA	NA	< 2.37	NA	< 3.0	NA	NA	NA	NA	NA	< 3.7 UJ	NA	< 2.37
Ethyl methanesulfonate	NA	NA	NA	< 3.0	NA	< 0.326	< 0.326	NA	NA	< 0.326	NA	< 3.0	NA	NA	NA	NA	NA	< 3.7 UJ	NA	< 0.326
Fluoranthene	1.5	1.0	1.3	1.5 J	NA	0.548 J	0.772 J	0.413 J	0.441 J	0.829 J	7.1	8.1 J	NA	4.7	7.7	4.1	3.4	3.6	NA	2.5
Fluorene	36	22	15	12 J	NA	6.0	7.95	3.32	3.75	4.77	110	85 J	NA	64	77	35	35	36	NA	22.3
Hexachlorobenzene	NA	NA	NA	< 0.25	NA	< 0.0755	< 0.0755	NA	NA	< 0.0755	NA	< 0.25	NA	NA	NA	NA	NA	< 0.31 UJ	NA	< 0.0755
Hexachlorobutadiene	NA	NA	NA	< 3.6	NA	< 0.0968	< 0.0968	NA	NA	< 0.0968	NA	< 3.6	NA	NA	NA	NA	NA	< 4.5 UJ	NA	< 0.0968
Hexachlorocyclopentadiene	NA	NA	NA	< 2.6	NA	< 0.0598	< 0.0598	NA	NA	< 0.0598	NA	< 2.6	NA	NA	NA	NA	NA	< 3.2 UJ	NA	< 0.0598
Hexachloroethane	< 4.2	< 4.4	< 4.9	< 4.2	NA	< 0.127	< 0.127	< 0.127	< 0.127	< 0.127	< 4.0	< 4.2	NA	< 4.8	< 4.2	< 4.1	< 4.8	< 5.2 UJ	NA	< 0.127
Hexachlorophene	NA	NA	NA	< 100	NA	< 1.44	< 1.44	NA	NA	< 1.44	NA	< 100	NA	NA	NA	NA	NA	< 120 UJ	NA	< 1.44
Hexachloropropene	NA	NA	NA	< 2.0 UJ	NA	< 0.149	< 0.149	NA	NA	< 0.149	NA	< 2.0	NA	NA	NA	NA	NA	< 2.5 UJ	NA	< 0.149
Indeno(1,2,3-cd)pyrene	< 0.040	< 0.041	0.092 J	< 0.040	NA	< 0.279	< 0.279	< 0.279	< 0.279	< 0.279	0.15 J	< 1.0	NA	< 0.092	< 0.040	< 0.04	< 0.045	< 0.050	NA	< 0.279
Isodrin	NA	NA	NA	< 3.0 UJ	NA	< 4.11	< 4.11	NA	NA	< 4.11	NA	< 3.0	NA	NA	NA	NA	NA	< 3.7 UJ	NA	< 4.11
Isophorone	NA	NA	NA	< 0.57	NA	< 0.143	< 0.143	NA	NA	< 0.143	NA	< 0.57	NA	NA	NA	NA	NA	< 0.71 UJ	NA	< 0.143
Isosafrole	NA	NA	NA	< 3.0 UJ	NA	< 3.88	< 3.88	NA	NA	< 3.88	NA	< 3.0	NA	NA	NA	NA	NA	< 3.7 UJ	NA	< 3.88
Kepone	NA	NA	NA	< 0.20 UJ	NA	< 2.66	< 2.66	NA	NA	< 2.66	NA	< 0.2	NA	NA	NA	NA	NA	< 0.25 UJ	NA	< 2.66
Methapyrilene	NA	NA	NA	< 8.1	NA	< 10.0	< 10	NA	NA	< 10.0	NA	< 8.0	NA	NA	NA	NA	NA	< 10 UJ	NA	< 10.0
Methyl methanesulfonate	NA	NA	NA	< 3.0	NA	< 3.40	< 3.4	NA	NA	< 3.40	NA	< 3.0	NA	NA	NA	NA	NA	< 3.7 UJ	NA	< 3.40
Naphthalene	1.7	1.4 B	0.73	1.1 J	NA	0.605 J	0.732 J	0.333 U	0.372 U	0.591 J	0.31	< 0.63	NA	< 0.62	0.14 J	< 0.02	0.18 J	0.20 J	NA	< 0.159

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID:	7-IR	7-IR	7-IR	7-IR	7-IR	7-IR	7-IR	7-IR	7-IR	7-IR	7-S	7-S	7-S	7-S	7-S	7-S	7-S	7-S	7-S	7-S
Sample Date:	6/23/2016	6/14/2017	6/11/2018	6/14/2019	9/16/2019	6/12/2020	6/15/2021	6/21/2022	6/21/2022	6/13/2023	6/27/2013	6/18/2014	9/3/2014	6/4/2015	6/23/2016	6/14/2017	6/11/2018	6/14/2019	9/16/2019	6/12/2020
Sample Type:	Duplicate			App. IX Well	Resample				Duplicate				Resample					App. IX Well	Resample	
Nitrobenzene	NA	NA	NA	< 0.55	NA	< 0.297	< 0.297	NA	NA	< 0.297	NA	< 0.55	NA	NA	NA	NA	NA	< 0.69 UJ	NA	< 0.297
N-Nitrosodiethylamine	NA	NA	NA	< 4.8	NA	< 3.57	< 3.57	NA	NA	< 3.57	NA	< 4.8	NA	NA	NA	NA	NA	< 6.0 UJ	NA	< 3.57
N-Nitrosodimethylamine	NA	NA	NA	< 3.5	NA	< 0.998	< 0.998	NA	NA	< 0.998	NA	< 3.5	NA	NA	NA	NA	NA	< 4.4 UJ	NA	< 0.998
N-Nitrosodi-n-butylamine	NA	NA	NA	< 4.3	NA	< 3.91	< 3.91	NA	NA	< 3.91	NA	< 4.3	NA	NA	NA	NA	NA	< 5.4 UJ	NA	< 3.91
N-Nitrosodi-n-propylamine	NA	NA	NA	< 3.3	NA	< 0.261	< 0.261	NA	NA	< 0.261	NA	< 3.3	NA	NA	NA	NA	NA	< 4.1 UJ	NA	< 0.261
N-Nitrosodiphenylamine	< 0.47	< 0.49	< 0.55	< 0.47	NA	< 2.37	< 2.37	< 2.37	< 2.37	< 2.37	< 0.17	< 0.47	NA	< 1.0	< 0.47	< 0.46	< 0.53	< 0.59 UJ	NA	< 2.37
N-Nitrosomethylethylamine	NA	NA	NA	< 3.0 UJ	NA	< 3.25	< 3.25	NA	NA	< 3.25	NA	< 3.0	NA	NA	NA	NA	NA	< 3.7 UJ	NA	< 3.25
N-Nitrosomorpholine	NA	NA	NA	< 4.0	NA	< 3.25	< 3.25	NA	NA	< 3.25	NA	< 4.0	NA	NA	NA	NA	NA	< 5.0 UJ	NA	< 3.25
N-Nitrosopiperidine	NA	NA	NA	< 4.0	NA	< 3.72	< 3.72	NA	NA	< 3.72	NA	< 4.0	NA	NA	NA	NA	NA	< 5.0 UJ	NA	< 3.72
N-Nitrosopyrrolidine	NA	NA	NA	< 5.0 UJ	NA	< 3.39	< 3.39	NA	NA	< 3.39	NA	< 5.0	NA	NA	NA	NA	NA	< 6.2 UJ	NA	< 3.39
O,O,O-Triethyl Phosphorothioate	NA	NA	NA	< 4.0	NA	NA	< 2.93	NA	NA	< 2.93	NA	< 4.0	NA	NA	NA	NA	NA	< 5.0 UJ	NA	NA
Pentachlorobenzene	NA	NA	NA	< 2.0	NA	< 4.15	< 4.15	NA	NA	< 4.15	NA	< 2.0	NA	NA	NA	NA	NA	< 2.5 UJ	NA	< 4.15
Pentachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA
Pentachloronitrobenzene	NA	NA	NA	< 3.0	NA	< 4.15	< 4.15	NA	NA	< 4.15	NA	< 3.0	NA	NA	NA	NA	NA	< 3.7 UJ	NA	< 4.15
Pentachlorophenol	< 1.8	< 1.9	< 2.1	< 1.8	NA	< 0.313	< 0.313	< 0.313	< 0.313	< 0.313	< 1.3	< 1.8	NA	< 1.8	< 1.8	< 1.8	< 2.1	< 2.3 UJ	NA	< 0.313
Phenacetin	NA	NA	NA	< 3.0	NA	< 4.66	< 4.66	NA	NA	< 4.66	NA	< 3.0	NA	NA	NA	NA	NA	< 3.7 UJ	NA	< 4.66
Phenanthrene	31	23	20	31 J	NA	11.4	17.8	10	10.4	20.1	51	30 J	NA	25	33	24	22	38	NA	16.1
Phenol	< 2.6	< 2.7	< 3.0	< 2.6	NA	< 4.33	< 4.33	< 4.33	< 4.33	< 4.33	< 2.5	< 2.6	NA	< 2.6	< 2.6	< 2.6	< 3.0	< 3.2 UJ	NA	< 4.33
P-Phenylenediamine	NA	NA	NA	< 1.0 UJ	NA	< 387 R	< 387 R	NA	NA	< 387	NA	< 1.0	NA	NA	NA	NA	NA	< 1.2 UJ	NA	< 387 R
Pronamide (Kerb)	NA	NA	NA	< 3.0	NA	< 4.21	< 4.21	NA	NA	< 4.21	NA	< 3.0	NA	NA	NA	NA	NA	< 3.7 UJ	NA	< 4.21
Pyrene	0.62	0.44	0.54	0.84 J	NA	0.239 J	0.329 J	0.199 J	0.278 J	0.400 J	3.7	6.2 J	NA	2.6	2.6	2.2	1.6	1.7	NA	1.43
Pyridine	NA	NA	NA	< 3.2	NA	< 0.627	< 0.627	NA	NA	< 0.627	NA	< 3.2	NA	NA	NA	NA	NA	< 4.0 UJ	NA	< 0.627
Safrole	NA	NA	NA	< 4.0	NA	< 3.68	< 3.68	NA	NA	< 3.68	NA	< 4.0	NA	NA	NA	NA	NA	< 5.0 UJ	NA	< 3.68
Sulfide - EPA846 376.1, SM4500-S2-D, mg/L																				
Sulfide	0.064 J	0.14	0.12	0.090 J	0.068 J	< 0.0062	< 0.011	< 0.0040	< 0.0040	< 0.012	NA	0.093 J	NA	< 0.036	< 0.036	< 0.057	0.062 J	< 0.057 UJ	< 0.057	< 0.0062 UJ
Volatile Organic Compounds - SW846 8260B, 8260C, ug/L																				
1,1,1,2-Tetrachloroethane	NA	NA	NA	< 0.52	NA	< 0.147	< 0.147	NA	NA	< 0.147	NA	< 0.52	NA	NA	NA	NA	NA	< 0.52	NA	< 0.147
1,1,1-Trichloroethane	NA	NA	NA	< 0.50	NA	< 0.149	< 0.149	NA	NA	< 0.149	NA	< 0.5	NA	NA	NA	NA	NA	< 0.50	NA	< 0.149
1,1,2,2-Tetrachloroethane	NA	NA	NA	< 0.50	NA	< 0.133	< 0.133	NA	NA	< 0.133	NA	< 0.5	NA	NA	NA	NA	NA	< 0.50	NA	< 0.133
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NA	NA	NA	NA	NA	< 0.180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.180
1,1,2-Trichloroethane	NA	NA	NA	< 0.50	NA	< 0.158	< 0.158	NA	NA	< 0.158	NA	< 0.5	NA	NA	NA	NA	NA	< 0.50	NA	< 0.158
1,1-Dichloroethane	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.100	< 0.1	< 0.1	< 0.1	< 0.100	NA	< 0.5	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.100
1,1-Dichloroethene	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.188	< 0.188	< 0.188	< 0.188	< 0.188	NA	< 0.5	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.188
1,1-Dichloropropene	NA	NA	NA	NA	NA	< 0.142	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.142
1,2,3-Trichlorobenzene	NA	NA	NA	NA	NA	< 0.230	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.230
1,2,3-Trichloropropane	NA	NA	NA	< 0.84	NA	< 0.237	< 0.237	NA	NA	< 0.237	NA	< 0.84	NA	NA	NA	NA	NA	< 0.84	NA	< 0.237
1,2,3-Trimethylbenzene	NA	NA	NA	NA	NA	< 0.104	< 0.104	NA	NA	< 0.104	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.104
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	< 0.481	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.481
1,2,4-Trimethylbenzene	NA	NA	NA	NA	NA	< 0.322	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.322
1,2-Dibromo-3-Chloropropane	NA	NA	NA	< 1.5	NA	< 0.276	< 0.276	NA	NA	NA	NA	< 1.5	NA	NA	NA	NA	NA	< 1.5	NA	< 0.276
1,2-Dibromoethane (Ethylene dibromide)	NA	NA	NA	< 0.50	NA	< 0.126	< 0.126	NA	NA	NA	NA	< 0.5	NA	NA	NA	NA	NA	< 0.50	NA	< 0.126
1,2-Dichlorobenzene	NA	NA	NA	< 0.50	NA	< 0.107	NA	NA	NA	< 0.107	NA	NA	NA	NA	NA	NA	NA	< 0.50	NA	< 0.107
1,2-Dichloroethane	NA	NA	NA	< 0.50	NA	< 0.0819	< 0.0819	NA	NA	< 0.0819	NA	< 0.5	NA	NA	NA	NA	NA	< 0.50	NA	< 0.0819
1,2-Dichloropropane	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.149	< 0.149	< 0.149	< 0.149	< 0.149	NA	< 0.5	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.149
1,3,5-Trimethylbenzene	NA	NA	NA	NA	NA	< 0.104	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.104
1,3-Butadiene	NA	NA	NA	NA	NA	< 0.299	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.299
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	< 0.110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.110
1,3-Dichloropropane	NA	NA	NA	NA	NA	< 0.110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.110
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	< 0.120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.120
1,4-Dioxane (p-Dioxane)	NA	NA	NA	NA	NA	< 36.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 36.0
1-Methylnaphthalene	NA	NA	NA	NA	NA	< 7.30 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7.30 UJ
2,2,4-Trimethylpentane	NA	NA	NA	NA	NA	< 0.391	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.391
2,2-Dichloropropane	NA	NA	NA	NA	NA	< 0.161	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.161
2-Butanone (Methyl ethyl ketone)	NA	NA	NA	< 2.6	NA	< 1.19	< 1.19	NA	NA	< 1.19	NA	< 2.6	NA	NA	NA	NA	NA	< 2.6	NA	< 1.19
2-Chloro-1,3-Butadiene	NA	NA	NA	< 0.70	NA	< 1.45	< 1.45	NA	NA	< 1.45	NA	< 0.7	NA	NA	NA	NA	NA	< 0.70	NA	< 1.45
2-Chloroethyl vinyl ether	NA	NA	NA	NA	NA	< 0.575	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.575
2-Chlorotoluene	NA	NA	NA	NA	NA	< 0.106	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.106
2-Hexanone	NA	NA	NA	< 3.1	NA	< 0.787	< 0.787	NA	NA	< 0.787	NA	< 3.1	NA	NA	NA	NA	NA	< 3.1	NA	< 0.787
2-Methyl-1-Propanol (isobutyl alcohol)	NA	NA	NA	< 10	NA	< 42.1	< 42.1	NA	NA	< 42.1	NA	< 8.5	NA	NA	NA	NA	NA	< 10	NA	< 42.1
2-Methyl-2-Butanol	NA	NA	NA	NA	NA	< 4.90	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.90
2-Methylnaphthalene	NA	NA	NA	NA	NA	44.7 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100 J
2-Nitropropane	NA	NA	NA	NA	NA	< 1.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.75
4-Chlorotoluene	NA	NA	NA	NA	NA	< 0.114	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.114
4-Isopropyltoluene (Cymene)	NA	NA	NA	NA	NA	< 0.120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.120
Acetone	< 10	< 10	< 10	< 10	NA	< 11.3	< 11.3	< 11.3	< 11.3	< 11.3	NA	16 J	NA	< 10	< 10	< 10	< 10	< 10	NA	< 11.3
Acetonitrile	NA	NA	NA	< 12	NA	< 24.0	< 24	NA	NA	< 24.0	NA	< 12	NA	NA	NA	NA	NA	< 12	NA	< 24.0
Acrolein	NA	NA	NA	< 10	NA	< 2.54	< 2.54	NA	NA	< 2.54	NA	< 10	NA	NA	NA	NA	NA	< 10	NA	< 2.54
Acrylonitrile	NA	NA	NA	< 2.8	NA	< 0.671	< 0.671	NA	NA	< 0.671	NA	< 2.8	NA	NA	NA	NA	NA	< 2.8	NA	< 0.671
Allyl chloride (3-Chloropropene)	NA	NA	NA	< 1.0	NA	< 0.500	< 0.5	NA	NA	< 0.500	NA	< 1.0	NA	NA	NA	NA	NA	< 1.0	NA	< 0.500
Benzene	0.49 J	< 0.38	< 0.38	< 0.38	NA	0.142 J	0.13 J	0.145 J	0.139 J	< 0.0941	< 0.34	< 0.34	NA	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	NA	< 0.0941
Bromobenzene	NA	NA	NA	NA	NA	< 0.118	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.118
Bromodichloromethane (Dichlorobromomethane)	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.136	< 0.136	< 0.136	< 0.136	< 0.136	NA	< 0.5	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.136
Bromoform (Tribromomethane)	NA	NA	NA	< 0.71	NA	< 0.129	< 0.129	NA	NA	< 0.129	NA	< 0.71	NA	NA	NA	NA	NA	< 0.71	NA	< 0.129
Bromomethane (Methyl bromide)	NA	NA	NA	< 0.98	NA	< 0.605	< 0.605	NA	NA	< 0.605	NA	< 0.98	NA	NA	NA	NA	NA	< 0.98	NA	< 0.605
Carbon disulfide	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.0962	< 0.0962	< 0.0962	< 0.0962	< 0.0962	NA	< 0.5	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.0962
Carbon tetrachloride	NA	NA	NA	< 0.50	NA	< 0.128	< 0.128	NA	NA	< 0.128	NA	< 0.5	NA	NA	NA	NA	NA	< 0.50	NA	< 0.128
Chlorobenzene	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.116	< 0.116	< 0.116	< 0.116	< 0.116	NA	< 0.5	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.116
Chlorobromomethane (Bromochloromethane)	NA	NA	NA	NA	NA	< 0.128	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.128
Chlorodibromomethane (Dibromochloromethane)	NA	NA	NA	< 0.50	NA	< 0.140	< 0.14	NA	NA	< 0.140	NA	< 0.5	NA	NA	NA	NA	NA	< 0.50	NA	< 0.140

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID:	7-IR	7-IR	7-IR	7-IR	7-IR	7-IR	7-IR	7-IR	7-IR	7-IR	7-S	7-S	7-S	7-S	7-S	7-S	7-S	7-S	7-S	7-S
Sample Date:	6/23/2016	6/14/2017	6/11/2018	6/14/2019	9/16/2019	6/12/2020	6/15/2021	6/21/2022	6/21/2022	6/13/2023	6/27/2013	6/18/2014	9/3/2014	6/4/2015	6/23/2016	6/14/2017	6/11/2018	6/14/2019	9/16/2019	6/12/2020
Sample Type:	Duplicate			App. IX Well	Resample				Duplicate				Resample					App. IX Well	Resample	
Chloroethane	NA	NA	NA	< 0.76	NA	< 0.192	< 0.192	NA	NA	< 0.192	NA	< 0.76	NA	NA	NA	NA	NA	< 0.76	NA	< 0.192
Chloroform	< 0.60	< 0.6	< 0.6	< 0.60	NA	< 0.111	< 0.111	< 0.111	< 0.111	< 0.111	NA	< 0.6	NA	< 0.60	< 0.60	< 0.6	< 0.6	< 0.60	NA	< 0.111
Chloromethane (Methyl chloride)	NA	NA	NA	< 0.83	NA	< 0.960	< 0.96	NA	NA	< 0.960	NA	< 0.83	NA	NA	NA	NA	NA	< 0.83	NA	< 0.960
cis-1,2-Dichloroethene	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.126	< 0.126	< 0.126	< 0.126	< 0.126	NA	NA	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.126
cis-1,3-Dichloropropene	NA	NA	NA	< 0.50	NA	< 0.111	< 0.111	NA	NA	< 0.111	NA	< 0.5	NA	NA	NA	NA	NA	< 0.50	NA	< 0.111
Cyclohexane	NA	NA	NA	NA	NA	< 0.188	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.188
Cyclohexanone	NA	NA	NA	NA	NA	< 3.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.40
Dibromomethane (Methylene bromide)	NA	NA	NA	< 0.59	NA	< 0.122	< 0.122	NA	NA	< 0.122	NA	< 0.59	NA	NA	NA	NA	NA	< 0.59	NA	< 0.122
Dichlorodifluoromethane (Freon 12)	NA	NA	NA	< 0.85	NA	< 0.374	< 0.374	NA	NA	< 0.374	NA	< 0.85	NA	NA	NA	NA	NA	< 0.85	NA	< 0.374
Dichloromonofluoromethane	NA	NA	NA	NA	NA	1.09 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.130
Dicyclopentadiene	NA	NA	NA	NA	NA	< 0.253	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.253
Ethanol	NA	NA	NA	NA	NA	< 42.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 42.0
Ethyl acetate	NA	NA	NA	NA	NA	< 3.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.59
Ethyl methacrylate	NA	NA	NA	< 0.60	NA	< 1.48	< 1.48	NA	NA	< 1.48	NA	< 0.6	NA	NA	NA	NA	NA	< 0.60	NA	< 1.48
Ethylbenzene	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.137	< 0.173	< 0.173	< 0.173	< 0.173	NA	< 0.5	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.137
Hexachlorobutadiene	NA	NA	NA	NA	NA	< 0.337	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.337
Hexachloroethane	NA	NA	NA	NA	NA	< 0.316	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.316
Iodomethane (Methyl iodide)	NA	NA	NA	< 0.90	NA	< 6.00	< 6	NA	NA	< 6.00	NA	< 0.68	NA	NA	NA	NA	NA	< 0.90	NA	< 6.00
Isopropyl alcohol	NA	NA	NA	NA	NA	98.5 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.65
Isopropyl ether	NA	NA	NA	NA	NA	< 0.105	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.105
Isopropylbenzene (Cumene)	NA	NA	NA	NA	NA	1.21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.347 J
m+p-Xylenes	NA	NA	NA	NA	NA	1.3 J	0.918 J	1.33 J	1.29 J	0.648 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.430
Methyl acetate	NA	NA	NA	NA	NA	< 1.29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.29
Methyl isobutyl ketone (4-Methyl-2-pentanone)	NA	NA	NA	< 1.8	NA	< 0.478	< 0.478	NA	NA	< 0.478	NA	< 1.8	NA	NA	NA	NA	NA	< 1.8	NA	< 0.478
Methyl methacrylate	NA	NA	NA	< 5.0	NA	< 1.52	< 1.52 UJ	NA	NA	< 1.52	NA	< 5.0	NA	NA	NA	NA	NA	< 5.0	NA	< 1.52
Methyl tertiary butyl ether (MTBE)	NA	NA	NA	NA	NA	0.19 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.101
Methylacrylonitrile	NA	NA	NA	< 6.0	NA	< 14.2	< 14.2	NA	NA	< 14.2	NA	< 6.0	NA	NA	NA	NA	NA	< 6.0	NA	< 14.2
Methylcyclohexane	NA	NA	NA	NA	NA	< 0.660	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.660
Methylene chloride (Dichloromethane)	NA	NA	NA	< 3.0	NA	< 0.430	< 0.43	NA	NA	< 0.430	NA	< 3.0	NA	NA	NA	NA	NA	< 3.0	NA	< 0.430
Naphthalene	NA	NA	NA	NA	NA	1.0 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.00
n-Butyl alcohol	NA	NA	NA	NA	NA	< 150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 150
n-Butylbenzene	NA	NA	NA	NA	NA	< 0.157	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.157
n-Heptane	NA	NA	NA	NA	NA	< 0.373	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.373
n-Hexane	NA	NA	NA	NA	NA	< 0.749	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.749
n-Propylbenzene	NA	NA	NA	NA	NA	0.224 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0993
o-Xylene	NA	NA	NA	NA	NA	0.234 J	0.315 J	0.262 J	0.207 J	< 0.174	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.174
Pentachloroethane	NA	NA	NA	< 0.60	NA	< 11.5	< 2.3	NA	NA	< 2.30	NA	NA	NA	NA	NA	NA	NA	< 0.60	NA	< 2.30
Propionitrile	NA	NA	NA	< 7.0	NA	< 16.2	< 16.2	NA	NA	< 16.2	NA	< 7.0	NA	NA	NA	NA	NA	< 7.0	NA	< 16.2
Propylene (Propene)	NA	NA	NA	NA	NA	< 0.936	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.936
sec-Butylbenzene (2-Phenylbutane)	NA	NA	NA	NA	NA	< 0.125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.125
Styrene	NA	NA	NA	< 1.0	NA	< 0.118	< 0.118	NA	NA	< 0.118	NA	< 1.0	NA	NA	NA	NA	NA	< 1.0	NA	< 0.118
tert-Amyl methyl ether	NA	NA	NA	NA	NA	< 0.195	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.195
Tert-buty formate	NA	NA	NA	NA	NA	< 4.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.51
tert-Butyl alcohol	NA	NA	NA	NA	NA	< 4.06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.06
tert-Butyl ethyl ether	NA	NA	NA	NA	NA	< 0.101	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.101
tert-Butylbenzene	NA	NA	NA	NA	NA	< 0.127	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.127
Tetrachloroethene (PCE)	NA	NA	NA	< 0.58	NA	< 0.300	< 0.3	NA	NA	< 0.300	NA	< 0.58	NA	NA	NA	NA	NA	< 0.58	NA	< 0.300
Tetrahydrofuran	NA	NA	NA	NA	NA	< 0.929	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.929
Toluene	< 0.70	< 0.7	< 0.7	< 0.41	NA	< 0.278	< 0.278	< 0.278	< 0.278	< 0.278	NA	< 0.7	NA	< 0.70	< 0.70	< 0.7	< 0.7	< 0.41	NA	< 0.278
trans-1,2-Dichloroethene	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.149	< 0.149	< 0.149	< 0.149	< 0.149	NA	< 0.5	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.149
trans-1,3-Dichloropropene	NA	NA	NA	< 0.50	NA	< 0.118	< 0.118	NA	NA	< 0.118	NA	< 0.5	NA	NA	NA	NA	NA	< 0.50	NA	< 0.118
trans-1,4-Dichlorobutene	NA	NA	NA	< 1.0	NA	< 0.467	< 0.467	NA	NA	< 0.467	NA	< 1.0	NA	NA	NA	NA	NA	< 1.0	NA	< 0.467
Trichloroethene (TCE)	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.190	< 0.19	< 0.19	< 0.19	< 0.190	NA	< 0.5	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.190
Trichlorofluoromethane (Freon 11)	NA	NA	NA	< 0.52	NA	< 0.160	< 0.16	NA	NA	< 0.160	NA	< 0.52	NA	NA	NA	NA	NA	< 0.52	NA	< 0.160
Vinyl acetate	NA	NA	NA	< 2.0	NA	< 0.692	< 0.692	NA	NA	< 0.692	NA	< 2.0	NA	NA	NA	NA	NA	< 2.0	NA	< 0.692
Vinyl chloride	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.234	< 0.234	< 0.234	< 0.234	< 0.234	NA	< 0.5	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.234
Xylenes, Total	< 1.6	< 1.6	< 1.6	< 1.6	NA	1.53 J	1.23 J	1.59 J	1.5 J	0.648 J	< 1.6	< 1.6	NA	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	NA	< 0.174

Notes:
mg/L = milligrams per liter
pg/L = picograms per liter
ug/L = micrograms per liter
2014 event performed in accordance with previous permit, with Appendix IX sampling at all program wells every 5 years; subsequent events perfomed annually at rotating list of wells per current permit

Data Qualifier Definitions:
B = The analyte was positively identified, the associated numerica value is estimated due to blank contamination
I = Interference present
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
NA = Not Analyzed
R = The sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified
U = The analyte was analyzed for but was not detected at a concentration greater than the reported sample quantitation limit
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample
< = Not detected at or above the associated Method Detection Limit
As described in annual CMERs, the constituents presented represent the established permit list in effect at time of sampling, and varies annually based on additional Appendix IX detections.
DQE flags may vary by lab and based on professional judgement applied by DQE analyst.

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	7-S 6/15/2021	7-S 6/15/2021 Duplicate	7-S 6/21/2022	7-S 6/21/2022 Duplicate	7-S 6/13/2023	8-D 6/17/2014	8-D 9/4/2014 Resample	8-D 6/3/2015	8-D 6/22/2016	8-D 6/12/2017 App. IX Well	8-D 9/21/2017 Resample	8-D 6/8/2018	8-D 6/13/2019	8-D 6/13/2019 Duplicate	8-D 9/16/2019 Resample	8-D 9/16/2019 Resample Duplicate	8-D 6/11/2020	8-D 6/14/2021	8-D 6/21/2022 App. IX Well
1,2-Dibromoethane - SW846 8011, ug/L																			
1,2-Dibromo-3-Chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.00748
1,2-Dibromoethane (Ethylene dibromide)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.00536
Chlorinated Herbicides - SW846 8151, 8151A, 8321, ug/L																			
2,2-Dichloropropionic acid (Dalapon)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.344	NA	NA
2,4,5-T	< 0.258	< 0.258	NA	NA	< 0.573	< 0.04	NA	NA	NA	< 0.08	NA	NA	NA	NA	NA	NA	< 0.258	< 0.258	< 0.258
2,4,5-TP (Silvex)	< 0.335	< 0.335	< 0.335	< 0.335	< 0.807	< 0.018	NA	< 0.018	< 0.036	< 0.036	NA	< 0.0073	< 0.0073	< 0.0073	NA	NA	< 0.335	< 0.335	< 0.335
2,4-D	< 0.547	< 0.547	NA	NA	< 1.00	< 0.26	NA	NA	NA	< 0.52	NA	NA	NA	NA	NA	NA	< 0.547	< 0.547	< 0.547
2,4-DB	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.302	NA	NA
Dicamba	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.245	NA	NA
Dichlorprop	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.04	NA	NA
Dinoseb	NA	NA	NA	NA	NA	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.250	NA	NA
MCPA (2-Methyl-4-Chlorophenoxyacetic acid)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 13.1	NA	NA
MCPP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 66.0	NA	NA
Cyanide - EPA 846 9012A, EPA 335.2, 335.4, mg/L																			
Cyanide	NA	NA	0.0014 U	0.0015 U	< 0.0069	< 0.0035	NA	NA	NA	< 0.0035	NA	NA	NA	NA	NA	NA	NA	NA	0.0012 U
Dioxins/Furans - SW846 8290, 8290A, pg/L																			
1,2,3,4,6,7,8,9-OCDD (OCDD)	< 12 IJ UJ	< 6.4 IJ U	< 2.8	< 0.65	12 J	NA	NA	5.2 J	17 J	19 J	NA	2.4 J	8.2 U	< 1.3	NA	NA	8.6 IJ U	< 8.4	< 1.2
1,2,3,4,6,7,8,9-OCDF (OCDF)	< 11	< 4.5	< 1.2	< 0.76	< 7.2	NA	NA	1.6 J	2.2 J	5.0 J	NA	< 0.73	< 2.4	< 1.5	NA	NA	< 6.1	< 6.9	< 1.1
1,2,3,4,6,7,8-HpCDD	< 7.7	< 3.4	< 1.3	< 0.87	< 4.6	NA	NA	0.85 J	1.2 J	4.0 J	NA	0.76 J	< 1.3	< 0.91	NA	NA	< 2.7	< 5.2	< 1.4
1,2,3,4,6,7,8-HpCDF	< 4.5	< 1.8	< 0.89	< 1.3 UJ	< 3.2	NA	NA	0.54 J	< 0.32	3.1 J	NA	0.51 J	< 1.6	< 1.1	NA	NA	< 2.7	< 2.3	< 0.52
1,2,3,4,7,8,9-HpCDF	< 11	< 2.8	< 1.9	< 0.92	< 4.4	NA	NA	NA	NA	1.3 J	NA	2.0 J	< 1.9	< 1.3	NA	NA	< 4.0	< 6.4	< 0.79
1,2,3,4,7,8-HxCDD	< 5.5	< 1.7	< 1.1	< 0.57	< 2.7	< 0.9	NA	NA	NA	2.3 J	NA	NA	< 1.6	< 1.1	NA	NA	< 2.7	< 2.6	< 0.88
1,2,3,4,7,8-HxCDF	< 3.4	< 2.1	< 0.51	< 0.93 UJ	< 2.1	1.7 J	< 0.49	NA	NA	0.95 J	NA	NA	< 1.5	< 1.0	NA	NA	< 1.6	< 2.8	< 0.34
1,2,3,6,7,8-HxCDD	< 5.3	< 1.3	< 0.7	< 0.58	< 2.7	< 0.88	NA	NA	NA	1.8 J	NA	NA	< 1.4	< 0.97	NA	NA	< 2.5	< 3.2	< 0.51
1,2,3,6,7,8-HxCDF	< 3.8	< 1.5	< 0.47	< 0.25	< 1.9	1.6 J	< 0.44	NA	NA	1.4 J	NA	NA	< 1.4	< 0.95	NA	NA	< 0.99	< 2.6	< 0.25
1,2,3,7,8,9-HxCDD	< 4.4	< 1.7	< 0.72	< 0.61	< 3.2	< 0.81	NA	NA	NA	2.1 J	NA	NA	< 1.4	< 0.95	NA	NA	< 2.8	< 3.6	< 0.54
1,2,3,7,8,9-HxCDF	< 3.7	< 1.6	< 0.49	< 0.43 UJ	< 2.5	< 1.0	NA	NA	NA	1.2 J	NA	NA	< 1.7	2.2 U	NA	NA	< 2.9	< 3.1	< 0.42
1,2,3,7,8-PeCDD	< 4.2	< 3.7	< 1.1	< 0.3	< 2.8	< 4.3	NA	NA	NA	2.1 J	NA	NA	< 2.1	< 1.5	NA	NA	< 1.7	< 2.7	< 0.35
1,2,3,7,8-PeCDF	< 3.4	< 2.6	< 0.46	< 0.41	< 1.4	< 3.8	NA	NA	NA	1.8 J	NA	NA	< 1.2	< 0.84	NA	NA	< 1.8	< 2.1	< 0.24
2,3,4,6,7,8-HxCDF	< 3.5	< 1.1	< 0.39	< 0.22	< 1.1	1.2 J	< 0.47	NA	NA	1.6 J	NA	NA	< 1.5	< 1.0	NA	NA	< 0.99	< 2.7	< 0.34
2,3,4,7,8-PeCDF	< 2.3	< 1.0	< 0.21	< 0.14	< 1.3	< 4.0	NA	NA	NA	1.8 J	NA	NA	< 1.2	< 0.85	NA	NA	< 1.1	< 1.6	< 0.38
2,3,7,8-TCDD	< 9.2	< 5.3	< 1.1	< 0.42	< 2.2	< 1.3	NA	NA	NA	< 0.4	NA	NA	< 1.5	< 1.1	NA	NA	< 2.1	< 6.0	< 0.73
2,3,7,8-TCDF	< 4.8	< 4.8	< 0.73	< 0.35	< 0.88	< 1.4	NA	NA	NA	1.0 J	NA	NA	< 0.87	< 0.65	NA	NA	< 2.1	< 5.3	< 0.33
TEQ-WHO 2005	NA	NA	NA	NA	0.0035	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total HpCDD	< 7.7	< 3.4	< 1.3	< 0.87	< 4.6	NA	NA	1.5 J	2.2 J	4.0 J	NA	2.5 J	< 2.0	< 2.1	NA	NA	< 2.7	< 5.2	< 1.4
Total HpCDF	< 4.5	< 1.8	< 0.89	< 0.92	< 3.2	NA	NA	0.94 J	< 0.32	4.4 J	NA	2.5 J	< 1.9	< 1.3	NA	NA	< 2.7	< 2.3	< 0.52
Total HxCDD	< 4.4	< 1.3	< 0.7	< 0.57	< 2.7	< 0.9	NA	< 1.9	< 1.9	6.1 J	NA	2.4 J	< 1.6	< 1.1	NA	NA	< 2.5	< 2.6	< 0.51
Total HxCDF	< 3.4	< 1.1	< 0.39	< 0.22	< 1.1	4.5 J	< 0.51	< 0.0019	< 1.9	5.2 J	NA	4.5 J	< 1.7	2.2 U	NA	NA	< 0.99	< 2.6	< 0.25
Total PeCDD	< 4.2	< 3.7	< 1.1	< 0.3	< 2.8	< 4.3	NA	NA	NA	2.6 J	NA	NA	< 2.1	< 1.5	NA	NA	< 1.7	< 2.7	< 0.35
Total PeCDF	< 2.3	< 1.0	< 0.21	< 0.14	< 1.3	< 4.0	NA	NA	NA	3.6 J	NA	NA	< 1.2	< 0.91	NA	NA	< 1.1	< 1.6	< 0.24
Total TCDD	< 9.2	< 5.3	< 1.1	< 0.42	< 2.2	< 1.3	NA	< 0.20	< 1.9	< 0.4	NA	< 0.45	< 1.5	< 1.2	NA	NA	< 2.1	< 6.0	< 0.73
Total TCDF	< 4.8	< 4.8	< 0.73	< 0.35	< 0.88	< 1.4	NA	NA	NA	1.0 J	NA	NA	< 0.87	< 0.65	NA	NA	< 2.1	< 5.3	< 0.33
Mercury, Total - SW846 7470, 7470A, mg/L																			
Mercury	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.000091	NA	< 0.00007	< 0.000070	< 0.00007	NA	< 0.00007	0.000077 U	0.000082 U	NA	NA	NA	< 0.00010	< 0.00010
Metals, Total - SW846 6010C, 6020, 6020A, mg/L																			
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	< 0.00063	< 0.00063	< 0.00063	< 0.00063	< 0.00034	< 0.01	NA	NA	NA	0.00023 J	< 0.006	NA	NA	NA	NA	NA	NA	< 0.0013	< 0.0013
Arsenic	0.112	0.110	0.074	0.077	0.089	< 0.004	NA	0.00087 J	0.0068	0.008	NA	0.01	0.010	0.0099	NA	NA	0.0051	0.0080	0.0094
Barium	0.281	0.283	0.25	0.26	0.31	0.064	NA	0.11	0.15	0.15	NA	0.16	0.13	0.13	NA	NA	0.121	0.134	0.13
Beryllium	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00021	< 0.001	NA	NA	NA	< 0.000068	NA	NA	NA	NA	NA	NA	NA	< 0.00024	< 0.00024
Cadmium	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.00019	< 0.001	NA	< 0.00059	< 0.00034	< 0.000068	NA	< 0.000068	< 0.00025	< 0.00025	NA	NA	< 0.00008	< 0.00016	< 0.00016
Chromium	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00063	0.0057 J	NA	< 0.00063	< 0.0011	< 0.00022	NA	0.00063	< 0.0005	< 0.0005	NA	NA	< 0.00062	< 0.0012	< 0.0012
Cobalt	0.00028 J	0.00030 J	0.0003 J	0.00034 J	0.00028 J	< 0.003	NA	0.00064 J	< 0.00040	0.00029 J	NA	0.0014	0.0022	0.0022	NA	NA	0.0008 J	0.00078 J	0.00066 J
Copper	< 0.00083	< 0.00083	< 0.00083	< 0.00083	< 0.0017	0.014 J	NA	< 0.0019	< 0.0021	< 0.00042	NA	< 0.00042	< 0.0005	< 0.0005	NA	NA	< 0.00083	< 0.0017	< 0.0017
Lead	< 0.000070	< 0.000070	< 0.000070	< 0.000070	< 0.00069	0.0035 J	NA	< 0.00017	< 0.00035	< 0.00007	NA	< 0.00007	< 0.00017	< 0.00017	NA	NA	< 0.00007	< 0.00014	< 0.00014
Nickel	< 0.00056	< 0.00056	< 0.00056	< 0.00056	< 0.00062	0.004 J	NA	0.00075 J	< 0.0018	< 0.00036	NA	0.0026	0.0028	0.0030	NA	NA	< 0.00056	< 0.0011	< 0.0011
Selenium	< 0.00037	< 0.00037	< 0.00037	< 0.00037	< 0.00026	0.0043 J	NA	< 0.00033	< 0.00024	0.0011 B	NA	0.00013 J	0.0024 U	0.0024 U	NA	NA	< 0.00037	< 0.00074	< 0.00074
Silver	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.00020	< 0.002	NA	NA	NA	< 0.000022	NA	NA	NA	NA	NA	NA	NA	< 0.00016	< 0.00016
Thallium	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.00011	< 0.004	NA	< 0.000017	< 0.000085	< 0.000017	NA	< 0.000017	< 0.00014	< 0.00014	NA	NA	< 0.00008	< 0.00016	< 0.00016
Tin	< 0.00043	< 0.00043	< 0.00043	< 0.00043	< 0.00065	< 0.005	NA	NA	NA	< 0.00022	NA	NA	NA	NA	NA	NA	NA	< 0.00086	< 0.00086
Vanadium	< 0.0023	< 0.0023	< 0.0023	< 0.0023	0.00025 J	< 0.003	NA	< 0.0022	< 0.0014	< 0.00028	NA	< 0.00028	< 0.0013	< 0.0013	NA	NA	< 0.0023	< 0.0046	< 0.0046
Zinc	< 0.0044	< 0.0044	< 0.0044	0.010 J	< 0.0072	0.055	NA	< 0.014	NA	0.002 J	NA	NA	NA	NA	NA	NA	0.0073 J	< 0.0088	< 0.0088
Organophosphorus Pesticides - SW846 8141, ug/L																			
Basudin, Neocidol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorpyrifos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Coumaphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dasanit	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Demeton	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Demeton-s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibrom	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorvos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethoate (Cygon)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disulfoton	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.227
EPN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethoprophos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl Parathion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.454
Fenthion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Folex	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	7-S 6/15/2021	7-S 6/15/2021 Duplicate	7-S 6/21/2022	7-S 6/21/2022 Duplicate	7-S 6/13/2023	8-D 6/17/2014	8-D 9/4/2014 Resample	8-D 6/3/2015	8-D 6/22/2016	8-D 6/12/2017 App. IX Well	8-D 9/21/2017 Resample	8-D 6/8/2018	8-D 6/13/2019	8-D 6/13/2019 Duplicate	8-D 9/16/2019 Resample	8-D 9/16/2019 Resample Duplicate	8-D 6/11/2020	8-D 6/14/2021	8-D 6/21/2022 App. IX Well
Guthion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Malathion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl parathion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.383
Mevinphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phorate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.276
Ronnel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfotepp	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.181
Sulprofos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachlorvinphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetraethyl diphosphate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tokuthion (Prothiofos)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloronate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organophosphorus Pesticides - SW846 8270-PEST, ug/L																			
Dimethoate (Cygon)	< 5.05	< 5.05	NA	NA	< 5.05	< 3.0	NA	NA	NA	< 0.24	NA	NA	NA	NA	NA	NA	< 5.05	< 5.05	< 5.3
Disulfoton	NA	NA	NA	NA	NA	< 3.0	NA	NA	NA	< 0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl Parathion	NA	NA	NA	NA	NA	< 3.0	NA	NA	NA	< 0.18	NA	NA	NA	NA	NA	NA	NA	NA	NA
Famphur	< 3.92	< 3.92	NA	NA	< 3.92	< 3.0	NA	NA	NA	< 0.25	NA	NA	NA	NA	NA	NA	< 3.92	< 3.92	< 4.12
Methyl parathion	NA	NA	NA	NA	NA	< 3.0	NA	NA	NA	< 0.17	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phorate	NA	NA	NA	NA	NA	< 3.0	NA	NA	NA	< 0.21	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfotepp	< 3.99	< 3.99	NA	NA	< 3.99	< 3.0	NA	NA	NA	< 0.23	NA	NA	NA	NA	NA	NA	< 3.99	< 3.99	< 4.19
Thionazin	< 4.07	< 4.07	NA	NA	< 4.07	< 3.0	NA	NA	NA	< 0.2	NA	NA	NA	NA	NA	NA	< 4.07	< 4.07	< 4.27
Pesticides - SW846 8081, 8081A, 8081B, ug/L																			
4,4'-DDD	< 0.0177	< 0.0177	NA	NA	< 0.0177	< 0.0029	NA	NA	NA	< 0.0028	NA	NA	NA	NA	NA	NA	NA	< 0.0177 UJ	< 0.0177
4,4'-DDE	< 0.0154	< 0.0154	NA	NA	< 0.0154	< 0.0022	NA	NA	NA	< 0.0028	NA	NA	NA	NA	NA	NA	NA	< 0.0154 UJ	< 0.0154
4,4'-DDT	< 0.0198	< 0.0198	NA	NA	< 0.0198	< 0.0038	NA	NA	NA	< 0.0028	NA	NA	NA	NA	NA	NA	NA	< 0.0198 UJ	< 0.0198
Aldrin	< 0.0198	< 0.0198	< 0.0198	< 0.0198	< 0.0198	< 0.0029	NA	NA	NA	< 0.002	NA	NA	NA	NA	NA	NA	NA	< 0.0198	< 0.0198
alpha-BHC	< 0.0172	< 0.0172	NA	NA	< 0.0172	< 0.0035	NA	NA	NA	< 0.0034	NA	NA	NA	NA	NA	NA	NA	< 0.0172	< 0.0172
alpha-Chlordane	< 0.0149	< 0.0149	NA	NA	NA	NA	NA	NA	NA	< 0.0040	NA	NA	NA	NA	NA	NA	NA	< 0.0149 UJ	NA
beta-BHC	< 0.0208	< 0.0208	NA	NA	< 0.0208	< 0.0029	NA	NA	NA	< 0.0028	NA	NA	NA	NA	NA	NA	NA	< 0.0208	< 0.0208
beta-Chlordane	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0030	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlordane	< 0.0198	< 0.0198	NA	NA	< 0.0198	< 0.13	NA	NA	NA	< 0.085	NA	NA	NA	NA	NA	NA	NA	< 0.0198	< 0.0198
Chlordane, technical	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzilate	NA	NA	NA	NA	NA	< 0.038	NA	NA	NA	< 0.025	NA	NA	NA	NA	NA	NA	NA	NA	NA
delta-BHC	< 0.015	< 0.015	NA	NA	< 0.0150	< 0.0021	NA	NA	NA	< 0.0018	NA	NA	NA	NA	NA	NA	NA	< 0.015	< 0.015
Dieldrin	< 0.0162	< 0.0162	NA	NA	< 0.0162	< 0.0029	NA	NA	NA	< 0.0038	NA	NA	NA	NA	NA	NA	NA	< 0.0162 UJ	< 0.0162
Endosulfan I	< 0.016	< 0.016	NA	NA	< 0.0160	< 0.0029	NA	NA	NA	< 0.002	NA	NA	NA	NA	NA	NA	NA	< 0.016 UJ	< 0.016
Endosulfan II	< 0.0164	< 0.0164	NA	NA	< 0.0164	< 0.0073	NA	NA	NA	< 0.0048	NA	NA	NA	NA	NA	NA	NA	< 0.0164	< 0.0164
Endosulfan sulfate	< 0.0217	< 0.0217	NA	NA	< 0.0217	< 0.0021	NA	NA	NA	< 0.0014	NA	NA	NA	NA	NA	NA	NA	< 0.0217 UJ	< 0.0217
Endrin	< 0.0161	< 0.0161	NA	NA	< 0.0161	< 0.0029	NA	NA	NA	< 0.002	NA	NA	NA	NA	NA	NA	NA	< 0.0161 UJ	< 0.0161
Endrin aldehyde	< 0.0237	< 0.0237	NA	NA	< 0.0237	< 0.0027	NA	NA	NA	< 0.0018	NA	NA	NA	NA	NA	NA	NA	< 0.0237	< 0.0237
Endrin ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	< 0.0209	< 0.0209	NA	NA	< 0.0209	< 0.025	NA	NA	NA	< 0.016	NA	NA	NA	NA	NA	NA	NA	< 0.0209	< 0.0209
gamma-Chlordane	< 0.0137	< 0.0137	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0137 UJ	NA
Heptachlor	< 0.0148	< 0.0148	NA	NA	< 0.0148	< 0.003	NA	NA	NA	< 0.002	NA	NA	NA	NA	NA	NA	NA	< 0.0148	< 0.0148
Heptachlor Epoxide	< 0.0183	< 0.0183	NA	NA	< 0.0183	< 0.0031	NA	NA	NA	< 0.0021	NA	NA	NA	NA	NA	NA	NA	< 0.0183 UJ	< 0.0183
Hexachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	< 0.0193	< 0.0193	NA	NA	< 0.0193	< 0.004	NA	NA	NA	< 0.0041	NA	NA	NA	NA	NA	NA	NA	< 0.0193 UJ	< 0.0193
Toxaphene	< 0.168	< 0.168	NA	NA	< 0.168	< 0.29	NA	NA	NA	< 0.26	NA	NA	NA	NA	NA	NA	NA	< 0.168	< 0.168
Phenolics - E420.1, E420.4, SW9065, mg/L																			
Total Recoverable Phenolics	0.239 J	0.140 J	0.0697	0.104	0.019 J	< 0.0045	NA	< 0.0045	0.0058 J	0.0085 J	NA	< 0.0045	< 0.09	< 0.09	NA	NA	< 0.025	0.150	0.0286 J
Polychlorinated Biphenyl (PCB) - SW846 8082, 8082A, ug/																			
PCB-1016	NA	NA	NA	NA	NA	< 0.048	NA	NA	NA	< 0.031	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2
PCB-1221	NA	NA	NA	NA	NA	< 0.22	NA	NA	NA	< 0.14	NA	NA	NA	NA	NA	NA	NA	NA	< 0.4
PCB-1232	NA	NA	NA	NA	NA	< 0.1	NA	NA	NA	< 0.27	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2
PCB-1242	NA	NA	NA	NA	NA	< 0.034	NA	NA	NA	< 0.12	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2
PCB-1248	NA	NA	NA	NA	NA	< 0.02	NA	NA	NA	< 0.013	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2
PCB-1254	NA	NA	NA	NA	NA	< 0.057	NA	NA	NA	< 0.2	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2
PCB-1260	NA	NA	NA	NA	NA	< 0.034	NA	NA	NA	< 0.022	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2
PCB-1262	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1268	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semi-Volatile Organic Compounds - SW846 8270C, 8270D																			
1,2,4,5-Tetrachlorobenzene	< 0.0647	< 0.0647	NA	NA	< 0.0647	< 0.52	NA	NA	NA	< 0.51	NA	NA	NA	NA	NA	NA	< 0.0647	< 0.0647	< 0.0679
1,2,4-Trichlorobenzene	< 0.0698	< 0.0698	NA	NA	< 0.0698	< 0.53	NA	NA	NA	< 0.52	NA	NA	NA	NA	NA	NA	< 0.0698	< 0.0698	< 0.0733
1,2-Dichlorobenzene	< 0.0713	< 0.0713	NA	NA	< 0.0713	< 0.57	NA	NA	NA	< 0.55	NA	NA	NA	NA	NA	NA	< 0.0713	< 0.0713	< 0.0749
1,3,5-Trinitrobenzene	< 1.32	< 1.32	NA	NA	< 1.32	< 2.0	NA	NA	NA	< 1.9	NA	NA	NA	NA	NA	NA	< 1.32	< 1.32	< 1.39
1,3-Dichlorobenzene	< 0.132	< 0.132	NA	NA	< 0.132	< 0.47	NA	NA	NA	< 0.46	NA	NA	NA	NA	NA	NA	< 0.132	< 0.132	< 0.139
1,3-Dinitrobenzene	< 0.359	< 0.359	NA	NA	< 0.359	< 1.0	NA	NA	NA	< 0.97	NA	NA	NA	NA	NA	NA	< 0.359	< 0.359	< 0.377
1,4-Dichlorobenzene	< 0.0942	< 0.0942	NA	NA	< 0.0942	< 0.52	NA	NA	NA	< 0.51	NA	NA	NA	NA	NA	NA	< 0.0942	< 0.0942	< 0.0989
1,4-Dioxane (p-Dioxane)	< 0.0447	< 0.0447	0.127 U	0.0784 U	< 0.0447	< 1.0	NA	< 1.0	< 1.0	< 0.97	NA	< 1.1	< 1.2	< 1.2	NA	NA	NA	< 0.0447	0.0757 U
1,4-Naphthoquinone	< 5.56 R	< 5.56 R	NA	NA	< 5.56	< 4.0	NA	NA	NA	< 3.9	NA	NA	NA	NA	NA	NA	< 5.56 R	< 5.56 R	< 5.84 R
1-Methylnaphthalene	15.4 J	26.1 J	12.7	10.1	12.4	< 0.5	NA	< 0.020	< 0.020	< 0.019	NA	< 0.022	< 0.025	< 0.025	NA	NA	< 0.0790	< 0.079	< 0.0829
1-Naphthylamine	< 0.289	< 0.289	< 0.289	< 0.289	< 0.289	< 4.0	NA	< 4.0	< 4.0	< 3.9	NA	< 4.4	< 5.0	< 5.0	NA	NA	< 0.289	< 0.289	< 0.303
2,2'-Oxybis(1-chloropropane)	< 0.21	< 0.21	NA	NA	< 0.210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.221
2,3,4,6-Tetrachlorophenol	< 0.231	< 0.231	NA	NA	< 0.231	< 0.64	NA	NA	NA	< 0.62	NA	NA	NA	NA	NA	NA	< 0.231	< 0.231	< 0.243
2,4,5-Trichlorophenol	< 0.109	< 0.109	NA	NA	< 0.109	< 3.7	NA	NA	NA	< 3.6	NA	NA	NA	NA	NA	NA	< 0.109	< 0.109	< 0.114
2,4,6-Trichlorophenol	< 0.1	< 0.1	NA	NA	< 0.100	< 3.5	NA	NA	NA	< 3.4	NA	NA	NA	NA	NA	NA	< 0.100	< 0.1	< 0.105
2,4-Dichlorophenol	< 0.102	< 0.102	NA	NA	< 0.102	< 3.0	NA	NA	NA	< 2.9	NA	NA	NA	NA	NA	NA	< 0.102	< 0.102	< 0.107
2,4-Dimethylphenol	< 0.0636	< 0.0636	< 0.0636	< 0.0636	< 0.0636	< 3.5	NA	< 3.5	< 3.5	< 3.4	NA	< 3.8	< 4.4	< 4.3	NA	NA	< 0.0636	< 0.0636	< 0.0668

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	7-S 6/15/2021	7-S 6/15/2021 Duplicate	7-S 6/21/2022	7-S 6/21/2022 Duplicate	7-S 6/13/2023	8-D 6/17/2014	8-D 9/4/2014 Resample	8-D 6/3/2015	8-D 6/22/2016	8-D 6/12/2017 App. IX Well	8-D 9/21/2017 Resample	8-D 6/8/2018	8-D 6/13/2019	8-D 6/13/2019 Duplicate	8-D 9/16/2019 Resample	8-D 9/16/2019 Resample Duplicate	8-D 6/11/2020	8-D 6/14/2021	8-D 6/21/2022 App. IX Well
2,4-Dinitrophenol	< 5.93	< 5.93	NA	NA	< 5.93	< 3.4	NA	NA	NA	< 3.3	NA	NA	NA	NA	NA	NA	< 5.93	< 5.93	< 6.23
2,4-Dinitrotoluene	< 0.0983	< 0.0983	NA	NA	< 0.0983	< 1.9	NA	NA	NA	< 1.8	NA	NA	NA	NA	NA	NA	< 0.0983	< 0.0983	< 0.103
2,6-Dichlorophenol	< 0.102	< 0.102	NA	NA	< 0.102	< 4.0	NA	NA	NA	< 3.9	NA	NA	NA	NA	NA	NA	< 0.102	< 0.102	< 0.107
2,6-Dinitrotoluene	< 0.25	< 0.25	NA	NA	< 0.250	< 1.9	NA	NA	NA	< 1.8	NA	NA	NA	NA	NA	NA	< 0.250	< 0.25	< 0.263
2-Acetylaminofluorene	< 0.253	< 0.253	NA	NA	< 0.253	< 4.0	NA	NA	NA	< 3.9	NA	NA	NA	NA	NA	NA	< 0.253	< 0.253	< 0.266
2-Chloronaphthalene	< 0.0648	< 0.0648	NA	NA	< 0.0648	< 0.52	NA	NA	NA	< 0.51	NA	NA	NA	NA	NA	NA	< 0.0648	< 0.0648	< 0.068
2-Chlorophenol	< 0.133	< 0.133	NA	NA	< 0.133	< 2.2	NA	NA	NA	< 2.1	NA	NA	NA	NA	NA	NA	< 0.133	< 0.133	< 0.14
2-Methylaniline (o-Toluidine)	< 3.53	< 3.53	< 3.53	< 3.53	< 3.53	< 6.0	NA	< 6.0	< 6.0	< 5.8	NA	< 6.6	< 7.5	< 7.4	NA	NA	< 3.53	< 3.53	< 3.71
2-Methylnaphthalene	< 0.117	< 0.117	< 0.117	< 0.117	< 0.117	< 0.54	NA	< 6.3	< 0.020	< 0.019	NA	< 0.022	< 0.025	< 0.025	NA	NA	< 0.117	< 0.117	< 0.123
2-Methylphenol (o-Cresol)	< 0.0929	< 0.0929	NA	NA	< 0.0929	< 1.8	NA	NA	NA	< 1.7	NA	NA	NA	NA	NA	NA	< 0.0929	< 0.0929	< 0.0975
2-Naphthylamine	< 4.48	< 4.48	< 4.48	< 4.48	< 4.48	< 4.0	NA	< 4.0	< 4.0	< 3.9	NA	< 4.4	< 5.0	< 5.0	NA	NA	< 4.48	< 4.48	< 4.7
2-Nitroaniline	< 0.102	< 0.102	NA	NA	< 0.102	< 2.2	NA	NA	NA	< 2.1	NA	NA	NA	NA	NA	NA	< 0.102	< 0.102	< 0.107
2-Nitrophenol	< 0.117	< 0.117	NA	NA	< 0.117	< 0.65	NA	NA	NA	< 0.63	NA	NA	NA	NA	NA	NA	< 0.117	< 0.117	< 0.123
2-Picoline	< 6.83	< 6.83	NA	NA	< 6.83	< 6.0	NA	NA	NA	< 5.8	NA	NA	NA	NA	NA	NA	< 6.83	< 6.83	< 7.17
3,3'-Dichlorobenzidine	< 0.212	< 0.212	NA	NA	< 0.212	< 2.6	NA	NA	NA	< 2.5	NA	NA	NA	NA	NA	NA	< 0.212	< 0.212	< 0.223
3,3'-Dimethylbenzidine	< 3.39	< 3.39	NA	NA	< 3.39	< 8.0	NA	NA	NA	< 7.8	NA	NA	NA	NA	NA	NA	< 3.39	< 3.39	< 3.56
3+4-Methylphenol (m,p-Cresol)	< 0.168	< 0.168	< 0.168	< 0.168	< 0.168	NA	NA	< 1.0	< 1.0	< 1.0	NA	< 1.1	< 1.3	< 1.3	NA	NA	< 0.168	< 0.168	< 0.176
3-Methylchloranthrene	< 0.164	< 0.164	NA	NA	< 0.164	< 2.2	NA	NA	NA	< 2.1	NA	NA	NA	NA	NA	NA	< 0.164	< 0.164	< 0.172
3-Methylphenol (m-Cresol)	NA	NA	NA	NA	NA	< 0.39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	< 0.0869	< 0.0869	NA	NA	< 0.0869	< 1.8	NA	NA	NA	< 1.7	NA	NA	NA	NA	NA	NA	< 0.0869	< 0.0869	< 0.0912
4,6-Dinitro-2-Methylphenol	< 1.12	< 1.12	NA	NA	< 1.12	< 2.0	NA	NA	NA	< 1.9	NA	NA	NA	NA	NA	NA	< 1.12	< 1.12	< 1.18
4-Aminobiphenyl	< 0.461	< 0.461	NA	NA	< 0.461	< 4.2	NA	NA	NA	< 4.1	NA	NA	NA	NA	NA	NA	< 0.461	< 0.461	< 0.484
4-Bromophenyl phenyl ether	< 0.0877	< 0.0877	NA	NA	< 0.0877	< 0.32	NA	NA	NA	< 0.31	NA	NA	NA	NA	NA	NA	< 0.0877	< 0.0877	< 0.0921
4-Chloro-3-Methylphenol	< 0.131	< 0.131	NA	NA	< 0.131	< 3.8	NA	NA	NA	< 3.7	NA	NA	NA	NA	NA	NA	< 0.131	< 0.131	< 0.138
4-Chloroaniline	< 0.234	< 0.234	NA	NA	< 0.234	< 3.4	NA	NA	NA	< 3.3	NA	NA	NA	NA	NA	NA	< 0.234	< 0.234	< 0.246
4-Chlorophenyl phenyl ether	< 0.0926	< 0.0926	NA	NA	< 0.0926	< 2.0	NA	NA	NA	< 1.9	NA	NA	NA	NA	NA	NA	< 0.0926	< 0.0926	< 0.0972
4-Dimethylaminoazobenzene	< 3.69	< 3.69	NA	NA	< 3.69	< 2.3	NA	NA	NA	< 2.2	NA	NA	NA	NA	NA	NA	< 3.69	< 3.69	< 3.87
4-Methylphenol (p-Cresol)	NA	NA	NA	NA	NA	< 0.39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	< 0.091	< 0.091	NA	NA	< 0.0910	< 2.5	NA	NA	NA	< 2.4	NA	NA	NA	NA	NA	NA	< 0.0910	< 0.091	< 0.0956
4-Nitrophenol	< 0.143	< 0.143	NA	NA	< 0.143	< 2.1	NA	NA	NA	< 2.0	NA	NA	NA	NA	NA	NA	< 0.143	< 0.143	< 0.15
4-Nitroquinoline-N-Oxide	< 2.03	< 2.03	NA	NA	< 2.03	< 2.0	NA	NA	NA	< 1.9	NA	NA	NA	NA	NA	NA	< 2.03	< 2.03	< 2.13
5-Nitro-O-Toluidine	< 1.99	< 1.99	NA	NA	< 1.99	< 3.0	NA	NA	NA	< 2.9	NA	NA	NA	NA	NA	NA	< 1.99	< 1.99	< 2.09
7,12-Dimethylbenz(a)anthracene	< 1.71	< 1.71	NA	NA	< 1.71	< 3.7	NA	NA	NA	< 3.6	NA	NA	NA	NA	NA	NA	< 1.71	< 1.71	< 1.8
Acenaphthene	41.9 J	65.3 J	37.4	35.5	32.2	< 0.46	NA	< 0.020	< 0.020	< 0.019	NA	< 0.022	< 0.025	< 0.025	NA	NA	< 0.0886	< 0.0886	< 0.093
Acenaphthylene	< 0.0921	0.27 J	< 0.0921	< 0.0921	< 0.0921	< 0.56	NA	< 0.020	< 0.020	< 0.019	NA	< 0.022	< 0.025	< 0.025	NA	NA	< 0.0921	< 0.0921	< 0.0967
Acetophenone	< 0.208	< 0.208	NA	NA	< 0.208	< 0.62	NA	NA	NA	< 0.6	NA	NA	NA	NA	NA	NA	< 0.208	< 0.208	< 0.218
alpha, alpha-Dimethylphenethylamine	< 3.13 R	< 3.13 R	NA	NA	< 3.13	< 10	NA	NA	NA	< 9.7	NA	NA	NA	NA	NA	NA	< 3.13 R	< 3.13 R	< 3.29 R
Aniline	< 1.65	< 1.65	NA	NA	< 1.65	< 3.8	NA	NA	NA	< 3.7	NA	NA	NA	NA	NA	NA	< 1.65	< 1.65	< 1.73
Anthracene	2.83	3.82	1.74	1.91	1.55	< 0.42	NA	< 0.020	< 0.020	< 0.019	NA	< 0.022	0.036 J	< 0.025	NA	NA	< 0.0804	< 0.0804	< 0.0844
Aramite	< 16.7	< 16.7	NA	NA	< 16.7	< 2.0	NA	NA	NA	< 1.9	NA	NA	NA	NA	NA	NA	< 16.7	< 16.7	< 17.5
Benzo(a)anthracene	< 0.199	< 0.199	< 0.199	< 0.199	< 0.199	< 0.34	NA	< 0.092	< 0.040	< 0.039	NA	< 0.044	< 0.050	< 0.050	NA	NA	< 0.199	< 0.199	< 0.209
Benzo(a)pyrene	< 0.0381	< 0.0381	< 0.0381	< 0.0381	< 0.0381	< 0.43	NA	< 0.20	< 0.040	< 0.039	NA	< 0.044	< 0.050	< 0.050	NA	NA	< 0.0381	< 0.0381	< 0.04
Benzo(b)fluoranthene	< 0.13	< 0.13	< 0.13	< 0.13	< 0.130	< 0.38	NA	< 0.092	< 0.040	< 0.039	NA	< 0.044	< 0.050	< 0.050	NA	NA	< 0.130	< 0.13	< 0.136
Benzo(g,h,i)perylene	< 0.121	< 0.121	< 0.121	< 0.121	< 0.121	< 1.1	NA	< 0.040	< 0.040	< 0.039	NA	< 0.044	0.067 J	< 0.050	NA	NA	< 0.121	< 0.121	< 0.127
Benzo(k)fluoranthene	< 0.12	< 0.12	< 0.12	< 0.12	< 0.120	< 0.54	NA	< 0.92	< 0.040	< 0.039	NA	< 0.044	< 0.050	< 0.050	NA	NA	< 0.120	< 0.12	< 0.126
Benzyl Alcohol	< 0.563	< 0.563	NA	NA	< 0.563	< 2.0	NA	NA	NA	< 1.9	NA	NA	NA	NA	NA	NA	< 0.563	< 0.563	< 0.591
bis(2-Chloroethoxy)methane	< 0.116	< 0.116	NA	NA	< 0.116	< 0.69	NA	NA	NA	< 0.67	NA	NA	NA	NA	NA	NA	< 0.116	< 0.116	< 0.122
bis(2-Chloroethyl)ether	< 0.137	< 0.137	NA	NA	< 0.137	< 0.74	NA	NA	NA	< 0.72	NA	NA	NA	NA	NA	NA	< 0.137	< 0.137	< 0.144
bis(2-Chloroisopropyl)ether	NA	NA	NA	NA	NA	< 0.81	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	< 0.895	< 0.895	< 0.895	< 0.895	< 0.895	< 2.3	NA	< 6.0	< 2.3	< 2.2	NA	< 2.5	< 6.2	< 6.2	NA	NA	< 0.895	< 0.895	< 0.94
Butyl benzyl phthalate	< 0.765	< 0.765	NA	NA	< 0.765	< 0.69	NA	NA	NA	< 0.67	NA	NA	NA	NA	NA	NA	< 0.765	< 0.765	< 0.803
Chlorobenzilate	< 3.84	< 3.84	NA	NA	< 3.84	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.84	< 4.03
Chrysene	< 0.13	< 0.13	< 0.13	< 0.13	< 0.130	< 0.49	NA	< 9.2	< 0.040	< 0.039	NA	< 0.044	< 0.050	< 0.050	NA	NA	< 0.130	< 0.13	< 0.136
Diallate	< 0.524	< 0.524	NA	NA	< 0.524	< 3.0	NA	NA	NA	< 2.9	NA	NA	NA	NA	NA	NA	< 0.524	< 0.524	< 0.55
Dibenzo(a,h)anthracene	< 0.0644	< 0.0644	NA	NA	< 0.0644	< 1.2	NA	NA	NA	< 1.1	NA	NA	NA	NA	NA	NA	< 0.0644	< 0.0644	< 0.0676
Dibenzofuran	< 0.097	< 0.097	< 0.097	< 0.097	< 0.0970	< 0.52	NA	< 1.2	< 0.52	< 0.51	NA	< 0.57	< 0.65	< 0.64	NA	NA	< 0.0970	< 0.097	< 0.102
Diethyl phthalate	< 0.287	< 0.287	NA	NA	0.753 J	< 0.7	NA	NA	NA	< 0.68	NA	NA	NA	NA	NA	NA	< 0.287	< 0.287	< 0.301
Dimethyl phthalate	< 0.26	< 0.26	NA	NA	< 0.260	< 0.6	NA	NA	NA	< 0.58	NA	NA	NA	NA	NA	NA	< 0.260	< 0.26	< 0.273
Di-n-butyl phthalate	< 0.453	< 0.453	NA	NA	< 0.453	NA	NA	NA	NA	< 2.6	NA	NA	NA	NA	NA	NA	< 0.453	< 0.453	< 0.476
Di-n-octyl phthalate	< 0.932	< 0.932	< 0.932	< 0.932	< 0.932	< 0.44	NA	< 0.44	1.4 J	< 0.43	NA	< 0.48	< 0.55	< 0.54	NA	NA	< 0.932	< 0.932	< 0.979
Dinoseb	< 8.01	< 8.01	NA	NA	< 8.01	NA	NA	NA	NA	< 2.9	NA	NA	NA	NA	NA	NA	< 8.01	< 8.01	< 8.41
Diphenylamine	< 2.37	< 2.37	NA	NA	< 2.37	< 3.0	NA	NA	NA	< 2.9	NA	NA	NA	NA	NA	NA	< 2.37	< 2.37	< 2.49
Ethyl methanesulfonate	< 0.326	< 0.326	NA	NA	< 0.326	< 3.0	NA	NA	NA	< 2.9	NA	NA	NA	NA	NA	NA	< 0.326	< 0.326	< 0.342
Fluoranthene	2.39	3.11	1.71	2.0	1.71	< 0.77	NA	< 0.020	0.028 J	< 0.019	NA	< 0.022	0.059 J	0.058 J	NA	NA	< 0.102	< 0.102	< 0.107
Fluorene	20.5 J	33.7 J	17.2	16.7	14.1	< 0.56	NA	< 0.021	< 0.021	< 0.02	NA	< 0.023	< 0.026	< 0.026	NA	NA	< 0.0844	< 0.0844	< 0.0886
Hexachlorobenzene	< 0.0755	< 0.0755	NA	NA	< 0.0755	< 0.25	NA	NA	NA	< 0.24	NA	NA	NA	NA	NA	NA	< 0.0755	< 0.0755	< 0.0793
Hexachlorobutadiene	< 0.0968	< 0.0968	NA	NA	< 0.0968	< 3.6	NA	NA	NA	< 3.5	NA	NA	NA	NA	NA	NA	< 0.0968	< 0.0968	< 0.102
Hexachlorocyclopentadiene	< 0.0598	< 0.0598	NA	NA	< 0.0598	< 2.6	NA	NA	NA	< 2.5	NA	NA	NA	NA	NA	NA	< 0.0598	< 0.0598	< 0.0628
Hexachloroethane	< 0.127	< 0.127	< 0.127	< 0.127	< 0.127	< 4.2	NA	< 4.8	< 4.2	< 4.1	NA	< 4.6	< 5.2	< 5.2	NA	NA	< 0.127	< 0.127	< 0.133
Hexachlorophene	< 1.44	< 1.44	NA	NA	< 1.44	< 100	NA	NA	NA	< 97	NA	NA	NA	NA	NA	NA	< 1.44	< 1.44	< 1.51
Hexachloropropene	< 0.149	< 0.149	NA	NA	< 0.149	< 2.0	NA	NA	NA	< 1.9	NA	NA	NA	NA	NA	NA	< 0.149	< 0.149	< 0.156
Indeno(1,2,3-cd)pyrene	< 0.279	< 0.279	< 0.279	< 0.279	< 0.279	< 1.0	NA	< 0.092	< 0.040	< 0.039	NA	< 0.044	0.063 J	< 0.050	NA	NA	< 0.279	< 0.279	< 0.293
Isodrin	< 4.11	< 4.11	NA	NA	< 4.11	< 3.0	NA	NA	NA	< 2.9	NA	NA	NA	NA	NA	NA	< 4.11	< 4.11	< 4.32
Isophorone	< 0.143	< 0.143	NA	NA	< 0.143	< 0.57	NA	NA	NA	< 0.55	NA	NA	NA	NA	NA	NA	< 0.143	< 0.143	< 0.15
Isosafrole	< 3.88	< 3.88	NA	NA	< 3.88	< 3.0	NA	NA	NA	< 2.9	NA	NA	NA	NA	NA	NA	< 3.88	< 3.88	< 4.07
Kepone	< 2.66	< 2.66	NA	NA	< 2.66	< 0.2	NA	NA	NA	< 0.19	NA	NA	NA	NA	NA	NA	< 2.66	< 2.66	< 2.79 R
Methapyrilene	< 10	< 10	NA	NA	< 10.0	< 8.0	NA	NA	NA	< 7.8	NA	NA	NA	NA	NA	NA	< 10.0	< 10 R	< 10.5
Methyl methanesulfonate	< 3.4	< 3.4	NA	NA	< 3.40	< 3.0	NA	NA	NA	< 2.9	NA	NA	NA	NA	NA	NA	< 3.40	< 3.4	< 3.57
Naphthalene	< 0.159	< 0.159	< 0.159	0.242 U	< 0.159	< 0.63	NA	< 0.62	< 0.020	< 0.019	NA	< 0.022	< 0.025	< 0.025	NA	NA	< 0.159	< 0.159	< 0.167

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	7-S 6/15/2021	7-S 6/15/2021 Duplicate	7-S 6/21/2022	7-S 6/21/2022 Duplicate	7-S 6/13/2023	8-D 6/17/2014	8-D 9/4/2014 Resample	8-D 6/3/2015	8-D 6/22/2016	8-D 6/12/2017 App. IX Well	8-D 9/21/2017 Resample	8-D 6/8/2018	8-D 6/13/2019	8-D 6/13/2019 Duplicate	8-D 9/16/2019 Resample	8-D 9/16/2019 Resample Duplicate	8-D 6/11/2020	8-D 6/14/2021	8-D 6/21/2022 App. IX Well
Nitrobenzene	< 0.297	< 0.297	NA	NA	< 0.297	< 0.55	NA	NA	NA	< 0.53	NA	NA	NA	NA	NA	NA	< 0.297	< 0.297	< 0.312
N-Nitrosodiethylamine	< 3.57	< 3.57	NA	NA	< 3.57	< 4.8	NA	NA	NA	< 4.7	NA	NA	NA	NA	NA	NA	< 3.57	< 3.57	< 3.75
N-Nitrosodimethylamine	< 0.998	< 0.998	NA	NA	< 0.998	< 3.5	NA	NA	NA	< 3.4	NA	NA	NA	NA	NA	NA	< 0.998	< 0.998	< 1.05
N-Nitrosodi-n-butylamine	< 3.91	< 3.91	NA	NA	< 3.91	< 4.3	NA	NA	NA	< 4.2	NA	NA	NA	NA	NA	NA	< 3.91	< 3.91	< 4.11
N-Nitrosodi-n-propylamine	< 0.261	< 0.261	NA	NA	< 0.261	< 3.3	NA	NA	NA	< 3.2	NA	NA	NA	NA	NA	NA	< 0.261	< 0.261	< 0.274
N-Nitrosodiphenylamine	< 2.37	< 2.37	< 2.37	< 2.37	< 2.37	< 0.47	NA	< 1.0	< 0.47	< 0.46	NA	< 0.52	< 0.59	< 0.58	NA	NA	< 2.37	< 2.37	< 2.49
N-Nitrosomethylethylamine	< 3.25	< 3.25	NA	NA	< 3.25	< 3.0	NA	NA	NA	< 2.9	NA	NA	NA	NA	NA	NA	< 3.25	< 3.25	< 3.41
N-Nitrosomorpholine	< 3.25	< 3.25	NA	NA	< 3.25	< 4.0	NA	NA	NA	< 3.9	NA	NA	NA	NA	NA	NA	< 3.25	< 3.25	< 3.41
N-Nitrosopiperidine	< 3.72	< 3.72	NA	NA	< 3.72	< 4.0	NA	NA	NA	< 3.9	NA	NA	NA	NA	NA	NA	< 3.72	< 3.72	< 3.91
N-Nitrosopyrrolidine	< 3.39	< 3.39	NA	NA	< 3.39	< 5.0	NA	NA	NA	< 4.9	NA	NA	NA	NA	NA	NA	< 3.39	< 3.39	< 3.56
O,O,O-Triethyl Phosphorothioate	< 2.93	< 2.93	NA	NA	< 2.93	< 4.0	NA	NA	NA	< 3.9	NA	NA	NA	NA	NA	NA	NA	< 2.93	< 3.08
Pentachlorobenzene	< 4.15	< 4.15	NA	NA	< 4.15	< 2.0	NA	NA	NA	< 1.9	NA	NA	NA	NA	NA	NA	< 4.15	< 4.15	< 4.36
Pentachloroethane	NA	NA	NA	NA	NA	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachloronitrobenzene	< 4.15	< 4.15	NA	NA	< 4.15	< 3.0	NA	NA	NA	< 2.9	NA	NA	NA	NA	NA	NA	< 4.15	< 4.15	< 4.36
Pentachlorophenol	< 0.313	< 0.313	< 0.313	< 0.313	< 0.313	< 1.8	NA	< 1.8	< 1.8	< 1.8	NA	< 2.0	< 2.3	< 2.2	NA	NA	< 0.313	< 0.313	< 0.329
Phenacetin	< 4.66	< 4.66	NA	NA	< 4.66	< 3.0	NA	NA	NA	< 2.9	NA	NA	NA	NA	NA	NA	< 4.66	< 4.66	< 4.89
Phenanthrene	16.8 J	27.1 J	13.2	13.9	11.7	< 0.41	NA	< 0.020	0.078 J	< 0.019	NA	< 0.022	< 0.025	< 0.025	NA	NA	< 0.112	< 0.112	< 0.118
Phenol	< 4.33	< 4.33	< 4.33	< 4.33	< 4.33	< 2.6	NA	< 2.6	< 2.6	< 2.5	NA	< 2.9	< 3.2	< 3.2	NA	NA	< 4.33	< 4.33	< 4.55
P-Phenylenediamine	< 387 R	< 387 R	NA	NA	< 387	< 1.0	NA	NA	NA	< 0.97	NA	NA	NA	NA	NA	NA	< 387 R	< 387 R	< 406 R
Pronamide (Kerb)	< 4.21	< 4.21	NA	NA	< 4.21	< 3.0	NA	NA	NA	< 2.9	NA	NA	NA	NA	NA	NA	< 4.21	< 4.21	< 4.42
Pyrene	1.4	1.59	1.07	1.16	0.976 J	< 1.1	NA	< 0.020	0.055 J	< 0.019	NA	< 0.022	0.056 J	0.050 J	NA	NA	< 0.107	< 0.107	< 0.112
Pyridine	< 0.627	< 0.627	NA	NA	< 0.627	< 3.2	NA	NA	NA	< 3.1	NA	NA	NA	NA	NA	NA	< 0.627	< 0.627	< 0.658
Safrole	< 3.68	< 3.68	NA	NA	< 3.68	< 4.0	NA	NA	NA	< 3.9	NA	NA	NA	NA	NA	NA	< 3.68	< 3.68	< 3.86
Sulfide - EPA846 376.1, SM4500-S2-D, mg/L																			
Sulfide	< 0.011	< 0.011	< 0.0040	< 0.0040	< 0.012	0.036 J	NA	< 0.036	< 0.036	< 0.057	NA	< 0.057	< 0.057 R	< 0.057 R	< 0.057	< 0.057	< 0.0062	< 0.011	< 0.0040
Volatile Organic Compounds - SW846 8260B, 8260C, ug/L																			
1,1,1,2-Tetrachloroethane	< 0.147	< 0.147	NA	NA	< 0.147	< 0.52	NA	NA	NA	< 0.52	NA	NA	NA	NA	NA	NA	< 0.147	< 0.147	< 0.147
1,1,1-Trichloroethane	< 0.149	< 0.149	NA	NA	< 0.149	< 0.5	NA	NA	NA	< 0.5	NA	NA	NA	NA	NA	NA	< 0.149	< 0.149	< 0.149
1,1,2,2-Tetrachloroethane	< 0.133	< 0.133	NA	NA	< 0.133	< 0.5	NA	NA	NA	< 0.5	NA	NA	NA	NA	NA	NA	< 0.133	< 0.133	< 0.133
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.180	NA	NA
1,1,2-Trichloroethane	< 0.158	< 0.158	NA	NA	< 0.158	< 0.5	NA	NA	NA	< 0.5	NA	NA	NA	NA	NA	NA	< 0.158	< 0.158	< 0.158
1,1-Dichloroethane	< 0.1	< 0.1	< 0.1	< 0.1	< 0.100	< 0.5	NA	< 0.50	< 0.50	< 0.5	NA	< 0.5	< 0.50	< 0.50	NA	NA	< 0.100	< 0.1	< 0.1
1,1-Dichloroethene	< 0.188	< 0.188	< 0.188	< 0.188	< 0.188	< 0.5	NA	< 0.50	< 0.50	< 0.5	NA	< 0.5	< 0.50	< 0.50	NA	NA	< 0.188	< 0.188	< 0.188
1,1-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.142	NA	NA
1,2,3-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.230	NA	NA
1,2,3-Trichloropropane	< 0.237	< 0.237	NA	NA	< 0.237	< 0.84	NA	NA	NA	< 0.84	NA	NA	NA	NA	NA	NA	< 0.237	< 0.237	< 0.237
1,2,3-Trimethylbenzene	0.201 J	0.113 J	NA	NA	< 0.104	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.104	< 0.104	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.481	NA	NA
1,2,4-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.322	NA	NA
1,2-Dibromo-3-Chloropropane	< 0.276	< 0.276	NA	NA	NA	< 1.5	NA	NA	NA	< 1.5	NA	NA	NA	NA	NA	NA	< 0.276	< 0.276	NA
1,2-Dibromoethane (Ethylene dibromide)	< 0.126	< 0.126	NA	NA	NA	< 0.5	NA	NA	NA	< 0.5	NA	NA	NA	NA	NA	NA	< 0.126	< 0.126	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	< 0.107	NA	NA	NA	NA	< 0.5	NA	NA	NA	NA	NA	NA	< 0.107	NA	< 0.107
1,2-Dichloroethane	< 0.0819	< 0.0819	NA	NA	< 0.0819	< 0.5	NA	NA	NA	< 0.5	NA	NA	NA	NA	NA	NA	< 0.0819	< 0.0819	< 0.0819
1,2-Dichloropropane	< 0.149	< 0.149	< 0.149	< 0.149	< 0.149	< 0.5	NA	< 0.50	< 0.50	< 0.5	NA	< 0.5	< 0.50	< 0.50	NA	NA	< 0.149	< 0.149	< 0.149
1,3,5-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.104	NA	NA
1,3-Butadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.299	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.110	NA	NA
1,3-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.110	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.120	NA	NA
1,4-Dioxane (p-Dioxane)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 36.0	NA	NA
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7.30 UJ	NA	NA
2,2,4-Trimethylpentane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.391	NA	NA
2,2-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.161	NA	NA
2-Butanone (Methyl ethyl ketone)	< 1.19	< 1.19	NA	NA	< 1.19	< 2.6	NA	NA	NA	< 2.6	NA	NA	NA	NA	NA	NA	< 1.19	< 1.19	< 1.19
2-Chloro-1,3-Butadiene	< 1.45	< 1.45	NA	NA	< 1.45	< 0.7	NA	NA	NA	< 0.7	NA	NA	NA	NA	NA	NA	< 1.45	< 1.45	< 1.45
2-Chloroethyl vinyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.575	NA	NA
2-Chlorotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.106	NA	NA
2-Hexanone	< 0.787	< 0.787	NA	NA	< 0.787	< 3.1	NA	NA	NA	< 3.1	NA	NA	NA	NA	NA	NA	< 0.787	< 0.787	< 0.787
2-Methyl-1-Propanol (isobutyl alcohol)	< 42.1	< 42.1	NA	NA	< 42.1	< 8.5	NA	NA	NA	< 10	NA	NA	NA	NA	NA	NA	< 42.1	< 42.1	< 42.1
2-Methyl-2-Butanol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.90	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7.18 UJ	NA	NA
2-Nitropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.75	NA	NA
4-Chlorotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.114	NA	NA
4-Isopropyltoluene (Cymene)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.120	NA	NA
Acetone	< 11.3	< 11.3	< 11.3	< 11.3	< 11.3	32	NA	< 10	< 10	< 10	NA	< 10	< 10	< 10	NA	NA	< 11.3	< 11.3	< 11.3
Acetonitrile	< 24	< 24	NA	NA	< 24.0	< 12	NA	NA	NA	< 12	NA	NA	NA	NA	NA	NA	< 24.0	< 24	< 24
Acrolein	< 2.54	< 2.54	NA	NA	< 2.54	< 10	NA	NA	NA	< 10	NA	NA	NA	NA	NA	NA	< 2.54	< 2.54	< 2.54
Acrylonitrile	< 0.671	< 0.671	NA	NA	< 0.671	< 2.8	NA	NA	NA	< 2.8	NA	NA	NA	NA	NA	NA	< 0.671	< 0.671	< 0.671
Allyl chloride (3-Chloropropene)	< 0.5	< 0.5	NA	NA	< 0.500	< 1.0	NA	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	< 0.500	< 0.5	< 0.5
Benzene	< 0.0941	< 0.0941	< 0.0941	< 0.0941	< 0.0941	< 0.34	NA	< 0.38	0.56 J	< 0.38	NA	< 0.38	< 0.38	< 0.38	NA	NA	< 0.0941	< 0.0941	< 0.0941
Bromobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.118	NA	NA
Bromodichloromethane (Dichlorobromomethane)	< 0.136	< 0.136	< 0.136	< 0.136	< 0.136	< 0.5	NA	< 0.50	< 0.50	< 0.5	NA	< 0.5	< 0.50	< 0.50	NA	NA	< 0.136	< 0.136	< 0.136
Bromoform (Tribromomethane)	< 0.129	< 0.129	NA	NA	< 0.129	< 0.71	NA	NA	NA	< 0.71	NA	NA	NA	NA	NA	NA	< 0.129	< 0.129	< 0.129
Bromomethane (Methyl bromide)	< 0.605	< 0.605	NA	NA	< 0.605	< 0.98	NA	NA	NA	< 0.98	NA	NA	NA	NA	NA	NA	< 0.605	< 0.605	< 0.605
Carbon disulfide	< 0.0962	< 0.0962	< 0.0962	< 0.0962	< 0.0962	< 0.5	NA	< 0.50	< 0.50	< 0.5	NA	< 0.5	< 0.50	< 0.50	NA	NA	< 0.0962	< 0.0962	< 0.0962
Carbon tetrachloride	< 0.128	< 0.128	NA	NA	< 0.128	< 0.5	NA	NA	NA	< 0.5	NA	NA	NA	NA	NA	NA	< 0.128	< 0.128	< 0.128
Chlorobenzene	< 0.116	< 0.116	< 0.116	< 0.116	< 0.116	< 0.5	NA	< 0.50	< 0.50	< 0.5	NA	< 0.5	< 0.50	< 0.50	NA	NA	< 0.116	< 0.116	< 0.116
Chlorobromomethane (Bromochloromethane)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.128	NA	NA
Chlorodibromomethane (Dibromochloromethane)	< 0.14	< 0.14	NA	NA	< 0.140	< 0.5	NA	NA	NA	< 0.5	NA	NA	NA	NA	NA	NA	< 0.140	< 0.14	< 0.14

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	7-S 6/15/2021	7-S 6/15/2021 Duplicate	7-S 6/21/2022	7-S 6/21/2022 Duplicate	7-S 6/13/2023	8-D 6/17/2014	8-D 9/4/2014 Resample	8-D 6/3/2015	8-D 6/22/2016	8-D 6/12/2017 App. IX Well	8-D 9/21/2017 Resample	8-D 6/8/2018	8-D 6/13/2019	8-D 6/13/2019 Duplicate	8-D 9/16/2019 Resample	8-D 9/16/2019 Resample Duplicate	8-D 6/11/2020	8-D 6/14/2021	8-D 6/21/2022 App. IX Well
Chloroethane	< 0.192	< 0.192	NA	NA	< 0.192	< 0.76	NA	NA	NA	< 0.76	NA	NA	NA	NA	NA	NA	< 0.192	< 0.192	< 0.192
Chloroform	< 0.111	< 0.111	< 0.111	< 0.111	< 0.111	< 0.6	NA	< 0.60	< 0.60	< 0.6	NA	< 0.6	< 0.60	< 0.60	NA	NA	< 0.111	< 0.111	< 0.111
Chloromethane (Methyl chloride)	< 0.96	< 0.96	NA	NA	< 0.960	< 0.83	NA	NA	NA	< 0.83	NA	NA	NA	NA	NA	NA	< 0.960	< 0.96	< 0.96
cis-1,2-Dichloroethene	< 0.126	< 0.126	< 0.126	< 0.126	< 0.126	NA	NA	< 0.50	< 0.50	< 0.5	NA	< 0.5	< 0.50	< 0.50	NA	NA	< 0.126	< 0.126	< 0.126
cis-1,3-Dichloropropene	< 0.111	< 0.111	NA	NA	< 0.111	< 0.5	NA	NA	NA	< 0.5	NA	NA	NA	NA	NA	NA	< 0.111	< 0.111	< 0.111
Cyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.188	NA	NA
Cyclohexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.40	NA	NA
Dibromomethane (Methylene bromide)	< 0.122	< 0.122	NA	NA	< 0.122	< 0.59	NA	NA	NA	< 0.59	NA	NA	NA	NA	NA	NA	< 0.122	< 0.122	< 0.122
Dichlorodifluoromethane (Freon 12)	< 0.374	< 0.374	NA	NA	< 0.374	< 0.85	NA	NA	NA	< 0.85	NA	NA	NA	NA	NA	NA	< 0.374	< 0.374	< 0.374
Dichloromonofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.130	NA	NA
Dicyclopentadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.253	NA	NA
Ethanol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 42.0	NA	NA
Ethyl acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.59	NA	NA
Ethyl methacrylate	< 1.48	< 1.48	NA	NA	< 1.48	< 0.6	NA	NA	NA	< 0.6	NA	NA	NA	NA	NA	NA	< 1.48	< 1.48	< 1.48
Ethylbenzene	< 0.173	< 0.173	< 0.173	< 0.173	< 0.173	< 0.5	NA	< 0.50	< 0.50	< 0.5	NA	< 0.5	< 0.50	< 0.50	NA	NA	< 0.137	< 0.173	< 0.173
Hexachlorobutadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.337	NA	NA
Hexachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.316	NA	NA
Iodomethane (Methyl iodide)	< 6	< 6	NA	NA	< 6.00	< 0.68	NA	NA	NA	< 0.9	NA	NA	NA	NA	NA	NA	< 6.00	< 6	< 6
Isopropyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	94.3 U	NA	NA
Isopropyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.105	NA	NA
Isopropylbenzene (Cumene)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.105	NA	NA
m+p-Xylenes	< 0.43	< 0.43	< 0.43	< 0.43	< 0.430	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.430	< 0.43	< 0.43
Methyl acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.29	NA	NA
Methyl isobutyl ketone (4-Methyl-2-pentanone)	< 0.478	< 0.478	NA	NA	< 0.478	< 1.8	NA	NA	NA	< 1.8	NA	NA	NA	NA	NA	NA	< 0.478	< 0.478	< 0.478
Methyl methacrylate	< 1.52 UJ	< 1.52 UJ	NA	NA	< 1.52	< 5.0	NA	NA	NA	< 5.0	NA	NA	NA	NA	NA	NA	< 1.52	< 1.52 UJ	< 1.52
Methyl tertiary butyl ether (MTBE)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.101	NA	NA
Methylacrylonitrile	< 14.2	< 14.2	NA	NA	< 14.2	< 6.0	NA	NA	NA	< 6.0	NA	NA	NA	NA	NA	NA	< 14.2	< 14.2	< 14.2
Methylcyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.660	NA	NA
Methylene chloride (Dichloromethane)	< 0.43	< 0.43	NA	NA	< 0.430	< 3.0	NA	NA	NA	< 3.0	NA	NA	NA	NA	NA	NA	< 0.430	< 0.43	< 0.43
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.00	NA	NA
n-Butyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 150	NA	NA
n-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.157	NA	NA
n-Heptane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.373	NA	NA
n-Hexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.749	NA	NA
n-Propylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0993	NA	NA
o-Xylene	< 0.174	< 0.174	< 0.174	< 0.174	< 0.174	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.174	< 0.174	< 0.174
Pentachloroethane	< 2.3	< 2.3	NA	NA	< 2.30	NA	NA	NA	NA	< 0.6	NA	NA	NA	NA	NA	NA	< 11.5	< 2.3	< 2.3 R
Propionitrile	< 16.2	< 16.2	NA	NA	< 16.2	< 7.0	NA	NA	NA	< 7.0	NA	NA	NA	NA	NA	NA	< 16.2	< 16.2	< 16.2
Propylene (Propene)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.936	NA	NA
sec-Butylbenzene (2-Phenylbutane)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.125	NA	NA
Styrene	< 0.118	< 0.118	NA	NA	< 0.118	< 1.0	NA	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	< 0.118	< 0.118	< 0.118
tert-Amyl methyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.195	NA	NA
Tert-buty formate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.51	NA	NA
tert-Butyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.06	NA	NA
tert-Butyl ethyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.101	NA	NA
tert-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.127	NA	NA
Tetrachloroethene (PCE)	< 0.3	< 0.3	NA	NA	< 0.300	< 0.58	NA	NA	NA	< 0.58	NA	NA	NA	NA	NA	NA	< 0.300	< 0.3	< 0.3
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.929	NA	NA
Toluene	< 0.278	< 0.278	< 0.278	< 0.278	< 0.278	< 0.7	NA	1.3	< 0.70	< 0.7	NA	< 0.7	< 0.41	< 0.41	NA	NA	< 0.278	< 0.278	< 0.278
trans-1,2-Dichloroethene	< 0.149	< 0.149	< 0.149	< 0.149	< 0.149	< 0.5	NA	< 0.50	< 0.50	< 0.5	NA	< 0.5	< 0.50	< 0.50	NA	NA	< 0.149	< 0.149	< 0.149
trans-1,3-Dichloropropene	< 0.118	< 0.118	NA	NA	< 0.118	< 0.5	NA	NA	NA	< 0.5	NA	NA	NA	NA	NA	NA	< 0.118	< 0.118	< 0.118
trans-1,4-Dichlorobutene	< 0.467	< 0.467	NA	NA	< 0.467	< 1.0	NA	NA	NA	< 1.0	NA	NA	NA	NA	NA	NA	< 0.467	< 0.467	< 0.467
Trichloroethene (TCE)	< 0.19	< 0.19	< 0.19	< 0.19	< 0.190	< 0.5	NA	< 0.50	< 0.50	< 0.5	NA	< 0.5	< 0.50	< 0.50	NA	NA	< 0.190	< 0.19	< 0.19
Trichlorofluoromethane (Freon 11)	< 0.16	< 0.16	NA	NA	< 0.160	< 0.52	NA	NA	NA	< 0.52	NA	NA	NA	NA	NA	NA	< 0.160	< 0.16	< 0.16
Vinyl acetate	< 0.692	< 0.692	NA	NA	< 0.692	< 2.0	NA	NA	NA	< 2.0	NA	NA	NA	NA	NA	NA	< 0.692	< 0.692	< 0.692
Vinyl chloride	< 0.234	< 0.234	< 0.234	< 0.234	< 0.234	< 0.5	NA	< 0.50	< 0.50	< 0.5	NA	< 0.5	< 0.50	< 0.50	NA	NA	< 0.234	< 0.234	< 0.234
Xylenes, Total	< 0.174	< 0.174	< 0.174	< 0.174	< 0.174	< 1.6	NA	< 1.6	< 1.6	< 1.6	NA	< 1.6	< 1.6	< 1.6	NA	NA	< 0.174	< 0.174	< 0.174

Notes:
mg/L = milligrams per liter
pg/L = picograms per liter
ug/L = micrograms per liter
2014 event performed in accordance with previous permit, with Appendix IX sampling at all program wells every 5 years; subsequent events perfomed annually at rotating list of wells per current permit

Data Qualifier Definitions:
B = The analyte was positively identified, the associated numerica value is estimated due to blank contamination
I = Interference present
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
NA = Not Analyzed
R = The sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified
U = The analyte was analyzed for but was not detected at a concentration greater than the reported sample quantitation limit
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample
< = Not detected at or above the associated Method Detection Limit
As described in annual CMERs, the constituents presented represent the established permit list in effect at time of sampling, and varies annually based on additional Appendix IX detections.
DQE flags may vary by lab and based on professional judgement applied by DQE analyst.

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	8-D 6/13/2023	8-DK 6/19/2014	8-DK 6/3/2015	8-DK 6/22/2016	8-DK 6/12/2017	8-DK 6/8/2018	8-DK 6/12/2019	8-DK 9/16/2019 Resample	8-DK 6/15/2020	8-DK 6/15/2021	8-DK 6/22/2022	8-DK 6/13/2023	8-I 6/28/2013	8-I 6/20/2014	8-I 6/4/2015	8-I 6/23/2016	8-I 6/14/2017 App. IX Well	8-I 9/21/2017 Resample	8-I 6/13/2018	8-I 6/14/2019
1,2-Dibromoethane - SW846 8011, ug/L																				
1,2-Dibromo-3-Chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorinated Herbicides - SW846 8151, 8151A, 8321, ug/L																				
2,2-Dichloropropionic acid (Dalapon)	NA	NA	NA	NA	NA	NA	NA	NA	< 0.344	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-T	< 0.573	< 0.04	NA	NA	NA	NA	NA	NA	< 0.258	< 0.258	NA	< 0.573	NA	< 0.04	NA	NA	< 0.08	NA	NA	NA
2,4,5-TP (Silvex)	< 0.807	< 0.018	< 0.018	< 0.036	< 0.0036	< 0.0073	< 0.0073	NA	< 0.335	< 0.335	< 0.335	< 0.807	NA	< 0.018	< 0.018	< 0.036	< 0.036	NA	< 0.0073	< 0.0073
2,4-D	< 1.00	< 0.26	NA	NA	NA	NA	NA	NA	< 0.547	< 0.547	NA	< 1.00	NA	< 0.26	NA	NA	< 0.52	NA	NA	NA
2,4-DB	NA	NA	NA	NA	NA	NA	NA	NA	< 0.302	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dicamba	NA	NA	NA	NA	NA	NA	NA	NA	< 0.245	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorprop	NA	NA	NA	NA	NA	NA	NA	NA	< 1.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinoseb	NA	< 0.16	NA	NA	NA	NA	NA	NA	< 0.250	NA	NA	NA	NA	< 0.16	NA	NA	NA	NA	NA	NA
MCPA (2-Methyl-4-Chlorophenoxyacetic acid)	NA	NA	NA	NA	NA	NA	NA	NA	< 13.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MCPP	NA	NA	NA	NA	NA	NA	NA	NA	< 66.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide - EPA 846 9012A, EPA 335.2, 335.4, mg/L																				
Cyanide	< 0.0069	< 0.0035	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0012	< 0.0069	NA	< 0.0035	NA	NA	< 0.0035	NA	NA	NA
Dioxins/Furans - SW846 8290, 8290A, pg/L																				
1,2,3,4,6,7,8,9-OCDD (OCDD)	11 J	NA	6.9 J	18 J	24 J	2.5 J	7.1 U	NA	6.7 IJ U	57 J	< 1.6	24 J	NA	NA	7.6 J	25 J	12 J	NA	560 B	6.4 U
1,2,3,4,6,7,8,9-OCDF (OCDF)	< 3.3	NA	< 1.1	2.9 J	4.0 J	< 0.54	< 2.0	NA	< 5.2	< 12	< 1.4	< 3.8	NA	NA	< 0.68	2.5 J	2.5 J	NA	96 J	< 1.7
1,2,3,4,6,7,8-HpCDD	< 1.6	NA	< 0.63	1.9 J	3.8 J	0.61 J	< 0.98	NA	< 3.2	< 5.2	< 0.78	< 2.8	NA	NA	< 0.65	1.3 J	2.7 J	NA	66 B	< 0.78
1,2,3,4,6,7,8-HpCDF	< 2.4	NA	< 0.45	< 0.33	2.3 J	< 0.4	< 1.1	NA	< 2.6	< 3.2	< 0.76	< 2.5	NA	NA	< 0.40	0.91 J	< 1.2	NA	32 J	< 0.96
1,2,3,4,7,8,9-HpCDF	< 2.9	NA	NA	NA	< 0.97	0.94 J	< 1.4	NA	< 2.4	< 7.0	< 0.85	< 3.6	NA	NA	NA	NA	< 1.4	NA	13 J	< 1.2
1,2,3,4,7,8-HxCDD	< 1.0	< 0.52	NA	NA	NA	NA	< 1.0	NA	< 2.0	< 2.4	< 0.8	< 1.5	NA	< 0.52	NA	NA	< 1.2	NA	NA	< 1.0
1,2,3,4,7,8-HxCDF	< 0.82	< 0.47	NA	NA	NA	NA	< 1.3	NA	< 1.5	< 2.6	< 0.18	< 1.1	NA	< 0.41	NA	NA	< 1.8	NA	NA	< 1.1
1,2,3,6,7,8-HxCDD	< 1.1	< 0.51	NA	NA	NA	NA	< 0.94	NA	< 1.5	< 3.1	< 0.62	< 1.5	NA	< 0.51	NA	NA	< 1.1	NA	NA	< 0.92
1,2,3,6,7,8-HxCDF	< 0.89	< 0.43	NA	NA	NA	NA	< 1.2	NA	< 0.78	< 3.2	< 0.19	< 1.1	NA	< 0.37	NA	NA	< 1.7	NA	NA	< 0.99
1,2,3,7,8,9-HxCDD	< 1.4	< 0.46	NA	NA	NA	NA	< 0.92	NA	< 2.7	< 2.9	< 0.79	< 1.4	NA	< 0.47	NA	NA	< 1.0	NA	NA	< 0.90
1,2,3,7,8,9-HxCDF	< 1.2	< 0.49	NA	NA	NA	NA	1.7 J	NA	< 1.5	< 4.7	< 0.39	< 1.1	NA	< 0.43	NA	NA	< 2.0	NA	NA	2.0 UJ
1,2,3,7,8-PeCDD	< 1.7	< 2.0	NA	NA	NA	NA	< 2.0	NA	< 2.7	< 3.2	< 0.51	< 1.6	NA	< 1.3	NA	NA	< 6.6	NA	NA	< 1.4
1,2,3,7,8-PeCDF	< 1.2	< 1.4	NA	NA	NA	NA	< 0.94	NA	< 0.98	< 2.6	< 0.54	< 1.6	NA	< 1.4	NA	NA	< 2.6	NA	NA	< 0.77
2,3,4,6,7,8-HxCDF	< 0.65	< 0.45	NA	NA	NA	NA	< 1.3	NA	< 0.88	< 3.2	< 0.51	< 1.4	NA	< 0.39	NA	NA	< 1.8	NA	NA	< 1.1
2,3,4,7,8-PeCDF	< 0.67	< 1.5	NA	NA	NA	NA	< 0.95	NA	< 0.92	< 2.8	< 0.28	< 1.2	NA	< 1.5	NA	NA	< 2.7	NA	NA	< 0.79
2,3,7,8-TCDD	< 1.9	< 0.83	NA	NA	NA	NA	< 1.0	NA	< 2.0	< 6.9	< 0.95	< 1.6	NA	< 0.68	NA	NA	< 1.8	NA	NA	< 1.0
2,3,7,8-TCDF	< 1.5	< 0.77	NA	NA	NA	NA	< 0.75	NA	< 2.1	< 5.5	< 0.47	< 0.77	NA	< 0.57	NA	NA	< 2.3	NA	NA	< 0.68
TEQ-WHO 2005	0.0034	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0071	NA	NA	NA	NA	NA	NA	NA	NA
Total HpCDD	< 1.6	NA	0.86 J	3.1 J	8.4 J	2.0 J	< 2.1	NA	< 3.2	< 5.2	< 0.78	< 2.8	NA	NA	< 0.85	2.4 J	4.5 J	NA	97 B	< 1.9
Total HpCDF	< 2.4	NA	< 0.45	< 0.33	2.3 J	0.94 J	< 1.4	NA	< 2.4	< 3.2	< 0.76	< 2.5	NA	NA	< 0.48	0.91 J	< 1.4	NA	74 B	< 1.2
Total HxCDD	< 1.0	< 0.52	< 2.1	< 1.9	4.4 J	2.7 J	< 1.0	NA	< 1.5	< 2.4	< 0.62	< 1.4	NA	< 0.52	< 0.49	< 1.9	< 1.2	NA	18 J	< 1.0
Total HxCDF	< 0.65	< 0.49	< 2.1	< 1.9	4.2 J	1.9 J	1.7 J	NA	< 0.78	< 2.6	< 0.18	< 1.1	NA	< 0.43	< 0.27	< 1.9	< 2.0	NA	43 J	2.0 UJ
Total PeCDD	< 1.7	< 2.0	NA	NA	NA	NA	< 2.0	NA	< 2.7	< 3.2	< 0.51	< 1.6	NA	< 1.3	NA	NA	< 6.6	NA	NA	< 1.4
Total PeCDF	< 0.67	< 1.5	NA	NA	NA	NA	< 0.98	NA	< 0.92	< 2.6	< 0.28	< 1.2	NA	< 1.5	NA	NA	< 2.7	NA	NA	< 0.79
Total TCDD	< 1.9	< 0.83	< 0.60	< 1.9	< 0.37	< 0.49	1.1 J	NA	< 2.0	< 6.9	< 0.95	< 1.6	NA	1.3 J	< 0.45	< 1.9	< 1.8	NA	2.0 J	< 1.0
Total TCDF	< 1.5	< 0.77	NA	NA	NA	NA	< 0.75	NA	< 2.1	< 5.5	< 0.47	< 0.77	NA	< 0.57	NA	NA	< 2.3	NA	NA	< 0.68
Mercury, Total - SW846 7470, 7470A, mg/L																				
Mercury	< 0.00010	< 0.000091	0.00084	< 0.000070	< 0.00007	< 0.00007	< 0.000070	NA	NA	< 0.00010	< 0.00010	< 0.00010	NA	< 0.000091	< 0.00007	< 0.000070	< 0.00007	NA	< 0.00007	< 0.000070
Metals, Total - SW846 6010C, 6020, 6020A, mg/L																				
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	< 0.00068	< 0.01	NA	NA	NA	NA	NA	NA	NA	< 0.0013	< 0.00063	< 0.0017	NA	< 0.01	NA	NA	< 0.0002	NA	NA	NA
Arsenic	0.01	< 0.004	0.0013	0.0014	0.0024	0.0034	0.0024	NA	0.0025	0.0020 J	0.0030	0.0032 J	0.033	0.029 J	0.027	0.020	0.019	NA	0.027	0.030
Barium	0.13	0.22	0.21	0.22	0.22	0.21	0.22	NA	0.218	0.186	0.17	0.17	NA	0.044	0.044	0.042	0.044	NA	0.04	0.039
Beryllium	< 0.00042	< 0.001	NA	NA	NA	NA	NA	NA	NA	< 0.00024	< 0.00012	< 0.0010	NA	< 0.001	NA	NA	< 0.000068	NA	NA	NA
Cadmium	< 0.00038	< 0.001	< 0.00059	< 0.00034	< 0.000068	< 0.000068	< 0.00025	NA	< 0.00008	< 0.00016	< 0.000080	< 0.00095	NA	< 0.001	< 0.00059	< 0.00034	< 0.000068	NA	< 0.000068	< 0.00025
Chromium	< 0.0013	0.0067 J	< 0.00063	< 0.0011	0.00048 J	0.00026 J	< 0.0005	NA	< 0.00062	< 0.0012	< 0.00062	< 0.0032	NA	< 0.002	< 0.00063	< 0.0011	0.00033 J	NA	0.00045 J	< 0.0005
Cobalt	0.0010 J	< 0.003	< 0.00025	< 0.00040	< 0.00008	< 0.00008	< 0.00012	NA	< 0.00006	< 0.00012	< 0.000060	< 0.00060	NA	< 0.003	< 0.00025	< 0.00040	0.00019 J	NA	0.00027 J	0.00021 J
Copper	< 0.0034	0.0067 J	< 0.0019	< 0.0021	0.0011	< 0.00042	< 0.0005	NA	< 0.00083	< 0.0017	< 0.00083	< 0.0084	0.0056 J	< 0.002	< 0.0019	< 0.0021	< 0.00042	NA	0.00082	< 0.0005
Lead	< 0.0014	0.0025 J	< 0.00017	< 0.00035	0.00017 J	< 0.00007	< 0.00017	NA	0.00024 J	< 0.00014	< 0.000070	< 0.0034	NA	0.0027 J	< 0.00017	< 0.00035	0.000086 J	NA	0.0011	< 0.00017
Nickel	< 0.0012	0.0033 J	< 0.0007	0.0018 J	0.00039 J	0.00038 J	< 0.00086	NA	< 0.00056	< 0.0011	< 0.00056	< 0.0031	NA	< 0.003	< 0.0007	< 0.0018	< 0.00036	NA	0.00077	< 0.00086
Selenium	0.00055 J	< 0.004	< 0.00033	< 0.00024	0.00017 J	< 0.000048	0.0050 U	NA	< 0.00037	< 0.00074	< 0.00037	< 0.0013	NA	< 0.004	< 0.00033	< 0.00024	< 0.000048	NA	0.00021 J	0.0040 U
Silver	< 0.00040	< 0.002	NA	NA	NA	NA	NA	NA	NA	< 0.00016	< 0.000080	< 0.0010	NA	< 0.002	NA	NA	< 0.000022	NA	NA	NA
Thallium	< 0.00022	< 0.004	< 0.000017	< 0.000085	< 0.000017	< 0.000017	< 0.00014	NA	< 0.00008	< 0.00016	< 0.000080	< 0.00055	NA	< 0.004	< 0.000017	< 0.000085	< 0.000017	NA	< 0.000017	< 0.00014
Tin	0.0038 J	< 0.005	NA	NA	NA	NA	NA	NA	NA	< 0.00086	< 0.00043	< 0.0032	NA	< 0.005	NA	NA	< 0.00022	NA	NA	NA
Vanadium	< 0.00046	< 0.003	< 0.0022	< 0.0014	0.0011	0.00076	< 0.0013	NA	< 0.0023	< 0.0046	< 0.0023	< 0.0012	NA	< 0.003	< 0.0022	< 0.0014	< 0.00028	NA	< 0.00028	< 0.0013
Zinc	0.12	0.013 J	< 0.014	NA	NA	NA	NA	NA	< 0.0044	< 0.0088	< 0.0044	< 0.036	NA	< 0.008	< 0.014	NA	< 0.0013	NA	NA	NA
Organophosphorus Pesticides - SW846 8141, ug/L																				
Basudin, Neocidol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorpyrifos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Coumaphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dasanit	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Demeton	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Demeton-s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibrom	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorvos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethoate (Cygon)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disulfoton	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethoprophos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl Parathion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fenthion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Folex	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	8-D 6/13/2023	8-DK 6/19/2014	8-DK 6/3/2015	8-DK 6/22/2016	8-DK 6/12/2017	8-DK 6/8/2018	8-DK 6/12/2019	8-DK 9/16/2019 Resample	8-DK 6/15/2020	8-DK 6/15/2021	8-DK 6/22/2022	8-DK 6/13/2023	8-I 6/28/2013	8-I 6/20/2014	8-I 6/4/2015	8-I 6/23/2016	8-I 6/14/2017 App. IX Well	8-I 9/21/2017 Resample	8-I 6/13/2018	8-I 6/14/2019
Guthion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Malathion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl parathion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mevinphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phorate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ronnel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfotepp	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulprofos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachlorvinphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetraethyl diphosphate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tokuthion (Prothiofos)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloronate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organophosphorus Pesticides - SW846 8270-PEST, ug/L																				
Dimethoate (Cygon)	NA	< 3.0	NA	NA	NA	NA	NA	NA	< 5.05	< 5.05	NA	< 5.05	NA	< 2.9	NA	NA	< 0.24	NA	NA	NA
Disulfoton	NA	< 3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.9	NA	NA	< 0.38	NA	NA	NA
Ethyl Parathion	NA	< 3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.9	NA	NA	< 0.18	NA	NA	NA
Famphur	NA	< 3.0	NA	NA	NA	NA	NA	NA	< 3.92	< 3.92	NA	< 3.92	NA	< 2.9	NA	NA	< 0.25	NA	NA	NA
Methyl parathion	NA	< 3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.9	NA	NA	< 0.17	NA	NA	NA
Phorate	NA	< 3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.9	NA	NA	< 0.21	NA	NA	NA
Sulfotepp	NA	< 3.0	NA	NA	NA	NA	NA	NA	< 3.99	< 3.99	NA	< 3.99	NA	< 2.9	NA	NA	< 0.23	NA	NA	NA
Thionazin	NA	< 3.0	NA	NA	NA	NA	NA	NA	< 4.07	< 4.07	NA	< 4.07	NA	< 2.9	NA	NA	< 0.2	NA	NA	NA
Pesticides - SW846 8081, 8081A, 8081B, ug/L																				
4,4'-DDD	< 0.0177	< 0.0029	NA	NA	NA	NA	NA	NA	NA	< 0.0177	NA	< 0.0177	NA	< 0.0029	NA	NA	< 0.0028	NA	NA	NA
4,4'-DDE	< 0.0154	< 0.0021	NA	NA	NA	NA	NA	NA	NA	< 0.0154	NA	< 0.0154	NA	< 0.0021	NA	NA	< 0.0028	NA	NA	NA
4,4'-DDT	< 0.0198	< 0.0037	NA	NA	NA	NA	NA	NA	NA	< 0.0198	NA	< 0.0198	NA	< 0.0037	NA	NA	< 0.0028	NA	NA	NA
Aldrin	< 0.0198	< 0.0029	NA	NA	NA	NA	NA	NA	NA	< 0.0198	< 0.0198	< 0.0198	NA	0.015 J	NA	NA	< 0.003	NA	NA	NA
alpha-BHC	< 0.0172	< 0.0034	NA	NA	NA	NA	NA	NA	NA	< 0.0172	NA	< 0.0172	NA	< 0.0034	NA	NA	< 0.0034	NA	NA	NA
alpha-Chlordane	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0149 UJ	NA	NA	NA	NA	NA	NA	< 0.0040	NA	NA	NA
beta-BHC	< 0.0208	< 0.0029	NA	NA	NA	NA	NA	NA	NA	< 0.0208	NA	< 0.0208	NA	< 0.0029	NA	NA	< 0.0028	NA	NA	NA
beta-Chlordane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0030	NA	NA	NA
Chlordane	< 0.0198	< 0.12	NA	NA	NA	NA	NA	NA	NA	< 0.0198	NA	< 0.0198	NA	< 0.12	NA	NA	< 0.13	NA	NA	NA
Chlordane, technical	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzilate	NA	< 0.037	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.037	NA	NA	< 0.039	NA	NA	NA
delta-BHC	< 0.0150	< 0.002	NA	NA	NA	NA	NA	NA	NA	< 0.015	NA	< 0.0150	NA	< 0.002	NA	NA	< 0.0027	NA	NA	NA
Dieldrin	< 0.0162	< 0.0029	NA	NA	NA	NA	NA	NA	NA	< 0.0162	NA	< 0.0162	NA	< 0.0029	NA	NA	< 0.0059	NA	NA	NA
Endosulfan I	< 0.0160	< 0.0029	NA	NA	NA	NA	NA	NA	NA	< 0.016	NA	< 0.0160	NA	< 0.0029	NA	NA	< 0.003	NA	NA	NA
Endosulfan II	< 0.0164	< 0.007	NA	NA	NA	NA	NA	NA	NA	< 0.0164	NA	< 0.0164	NA	< 0.007	NA	NA	< 0.0075	NA	NA	NA
Endosulfan sulfate	< 0.0217	< 0.002	NA	NA	NA	NA	NA	NA	NA	< 0.0217	NA	< 0.0217	NA	< 0.002	NA	NA	< 0.0021	NA	NA	NA
Endrin	< 0.0161	< 0.0029	NA	NA	NA	NA	NA	NA	NA	< 0.0161	NA	< 0.0161	NA	< 0.0029	NA	NA	< 0.003	NA	NA	NA
Endrin aldehyde	< 0.0237	< 0.0027	NA	NA	NA	NA	NA	NA	NA	< 0.0237	NA	< 0.0237	NA	< 0.0027	NA	NA	< 0.0028	NA	NA	NA
Endrin ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0219	NA	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	< 0.0209	< 0.024	NA	NA	NA	NA	NA	NA	NA	< 0.0209	NA	< 0.0209	NA	< 0.024	NA	NA	< 0.025	NA	NA	NA
gamma-Chlordane	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0137 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	< 0.0148	< 0.003	NA	NA	NA	NA	NA	NA	NA	< 0.0148	NA	< 0.0148	NA	< 0.003	NA	NA	< 0.0031	NA	NA	NA
Heptachlor Epoxide	< 0.0183	< 0.003	NA	NA	NA	NA	NA	NA	NA	< 0.0183	NA	< 0.0183	NA	< 0.003	NA	NA	< 0.0032	NA	NA	NA
Hexachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0176	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	< 0.0193	< 0.0039	NA	NA	NA	NA	NA	NA	NA	< 0.0193	NA	< 0.0193	NA	< 0.0039	NA	NA	< 0.0041	NA	NA	NA
Toxaphene	< 0.168	< 0.29	NA	NA	NA	NA	NA	NA	NA	< 0.168	NA	< 0.168	NA	< 0.29	NA	NA	< 0.4	NA	NA	NA
Phenolics - E420.1, E420.4, SW9065, mg/L																				
Total Recoverable Phenolics	< 0.0093	< 0.0045	< 0.0045	< 0.0045	0.0089 J	< 0.0045	< 0.09	NA	0.048	0.0282 U	< 0.0250	< 0.0093	0.25	NA	0.44	0.39	0.42	NA	0.48	190 J
Polychlorinated Biphenyl (PCB) - SW846 8082, 8082A, ug/																				
PCB-1016	NA	< 0.046	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.046	NA	NA	0.1 J	< 0.14	NA	NA
PCB-1221	NA	< 0.21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	NA	NA	< 0.22	NA	NA	NA
PCB-1232	NA	< 0.095	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.095	NA	NA	< 0.41	NA	NA	NA
PCB-1242	NA	< 0.032	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.032	NA	NA	< 0.18	NA	NA	NA
PCB-1248	NA	< 0.019	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.019	NA	NA	< 0.02	NA	NA	NA
PCB-1254	NA	< 0.054	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.054	NA	NA	< 0.31	NA	NA	NA
PCB-1260	NA	< 0.032	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.032	NA	NA	< 0.034	NA	NA	NA
PCB-1262	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1268	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semi-Volatile Organic Compounds - SW846 8270C, 8270D																				
1,2,4,5-Tetrachlorobenzene	< 0.0647	< 0.52	NA	NA	NA	NA	NA	NA	< 0.0647	< 0.0647	NA	< 0.0647	NA	< 0.5	NA	NA	< 0.53	NA	NA	NA
1,2,4-Trichlorobenzene	< 0.0698	< 0.53	NA	NA	NA	NA	NA	NA	< 0.0698	< 0.0698	NA	< 0.0698	NA	< 0.5	NA	NA	< 0.54	NA	NA	NA
1,2-Dichlorobenzene	< 0.0713	< 0.57	NA	NA	NA	NA	NA	NA	< 0.0713	< 0.0713	NA	< 0.0713	NA	< 0.54	NA	NA	< 0.59	NA	NA	NA
1,3,5-Trinitrobenzene	NA	< 2.0	NA	NA	NA	NA	NA	NA	< 1.32	< 1.32	NA	< 1.32	NA	< 1.9	NA	NA	< 2.1	NA	NA	NA
1,3-Dichlorobenzene	< 0.132	< 0.47	NA	NA	NA	NA	NA	NA	< 0.132	< 0.132	NA	< 0.132	NA	< 0.45	NA	NA	< 0.48	NA	NA	NA
1,3-Dinitrobenzene	NA	< 1.0	NA	NA	NA	NA	NA	NA	< 0.359	< 0.359	NA	< 0.359	NA	< 0.95	NA	NA	< 1.0	NA	NA	NA
1,4-Dichlorobenzene	< 0.0942	< 0.52	NA	NA	NA	NA	NA	NA	< 0.0942	< 0.0942	NA	< 0.0942	NA	< 0.5	NA	NA	< 0.53	NA	NA	NA
1,4-Dioxane (p-Dioxane)	< 0.0447	< 1.0	< 1.0	< 1.0	< 1.0	< 1.1	< 0.99 UJ	NA	NA	< 0.0447	< 0.0447	< 0.0447	NA	< 0.95	< 1.0	< 1.0	< 1.0	NA	< 1.1	< 1.3
1,4-Naphthoquinone	NA	< 4.0	NA	NA	NA	NA	NA	NA	< 5.56 R	< 5.56 R	NA	< 5.56	NA	< 3.8	NA	NA	< 4.1	NA	NA	NA
1-Methylnaphthalene	< 0.0790	< 0.5	< 0.020	< 0.020	< 0.02	< 0.022	< 0.020	NA	< 0.0790	< 0.079	< 0.079	< 0.0790	110	240 J	130	100 B	130 B	NA	230	270
1-Naphthylamine	NA	< 4.0	< 4.0	< 4.0	< 4.0	< 4.4	< 4.0	NA	< 0.289	< 0.289	< 0.289	< 0.289	7.6 J	19	12	< 4.0	8.9 J	NA	10 J	17 J
2,2'-Oxybis(1-chloropropane)	< 0.210	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	NA	< 0.210	NA	NA	NA	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	< 0.231	< 0.64	NA	NA	NA	NA	NA	NA	< 0.231	< 0.231	NA	< 0.231	NA	< 0.61	NA	NA	< 0.66	NA	NA	NA
2,4,5-Trichlorophenol	< 0.109	< 3.7	NA	NA	NA	NA	NA	NA	< 0.109	< 0.109	NA	< 0.109	NA	< 3.5	NA	NA	< 3.8	NA	NA	NA
2,4,6-Trichlorophenol	< 0.100	< 3.5	NA	NA	NA	NA	NA	NA	< 0.100	< 0.1	NA	< 0.100	NA	< 3.3	NA	NA	< 3.6	NA	NA	NA
2,4-Dichlorophenol	< 0.102	< 3.0	NA	NA	NA	NA	NA	NA	< 0.102	< 0.102	NA	< 0.102	NA	< 2.9	NA	NA	< 3.1	NA	NA	NA
2,4-Dimethylphenol	< 0.0636	< 3.5	< 3.5	< 3.5	< 3.5	< 3.8	< 3.5	NA	< 0.0636	< 0.0636	< 0.0636	< 0.0636	< 3.3	< 3.3	< 3.5	< 3.5	< 3.6	NA	< 4.0	< 4.5

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	8-D 6/13/2023	8-DK 6/19/2014	8-DK 6/3/2015	8-DK 6/22/2016	8-DK 6/12/2017	8-DK 6/8/2018	8-DK 6/12/2019	8-DK 9/16/2019 Resample	8-DK 6/15/2020	8-DK 6/15/2021	8-DK 6/22/2022	8-DK 6/13/2023	8-I 6/28/2013	8-I 6/20/2014	8-I 6/4/2015	8-I 6/23/2016	8-I 6/14/2017 App. IX Well	8-I 9/21/2017 Resample	8-I 6/13/2018	8-I 6/14/2019
2,4-Dinitrophenol	< 5.93	< 3.4	NA	NA	NA	NA	NA	NA	< 5.93	< 5.93	NA	< 5.93	NA	< 3.2	NA	NA	< 3.5	NA	NA	NA
2,4-Dinitrotoluene	< 0.0983	< 1.9	NA	NA	NA	NA	NA	NA	< 0.0983	< 0.0983	NA	< 0.0983	NA	< 1.8	NA	NA	< 2.0	NA	NA	NA
2,6-Dichlorophenol	NA	< 4.0	NA	NA	NA	NA	NA	NA	< 0.102	< 0.102	NA	< 0.102	NA	< 3.8	NA	NA	< 4.1	NA	NA	NA
2,6-Dinitrotoluene	< 0.250	< 1.9	NA	NA	NA	NA	NA	NA	< 0.250	< 0.25	NA	< 0.250	NA	< 1.8	NA	NA	< 2.0	NA	NA	NA
2-Acetylaminofluorene	NA	< 4.0	NA	NA	NA	NA	NA	NA	< 0.253	< 0.253	NA	< 0.253	NA	< 3.8	NA	NA	< 4.1	NA	NA	NA
2-Chloronaphthalene	< 0.0648	< 0.52	NA	NA	NA	NA	NA	NA	< 0.0648	< 0.0648	NA	< 0.0648	NA	< 0.5	NA	NA	< 0.53	NA	NA	NA
2-Chlorophenol	< 0.133	< 2.2	NA	NA	NA	NA	NA	NA	< 0.133	< 0.133	NA	< 0.133	NA	< 2.1	NA	NA	< 2.3	NA	NA	NA
2-Methylaniline (o-Toluidine)	NA	< 6.0	< 6.0	< 6.0	< 6.0	< 6.6	< 5.9	NA	< 3.53	< 3.53	< 3.53	< 3.53	36	58 J	11	13	8.4 J	NA	16	27 J
2-Methylnaphthalene	< 0.117	< 0.54	< 6.3	< 0.020	< 0.02	< 0.022	< 0.020	NA	< 0.117	< 0.117	< 0.117	< 0.117	110	330 J	< 63	70	40 B	NA	300	390
2-Methylphenol (o-Cresol)	< 0.0929	< 1.8	NA	NA	NA	NA	NA	NA	< 0.0929	< 0.0929	NA	< 0.0929	NA	< 1.7	NA	NA	< 1.8	NA	NA	NA
2-Naphthylamine	NA	< 4.0	< 4.0	< 4.0	< 4.0	< 4.4	< 4.0	NA	< 4.48	< 4.48	< 4.48	< 4.48	13	18	15	< 4.0	11	NA	7.9 J	14 J
2-Nitroaniline	< 0.102	< 2.2	NA	NA	NA	NA	NA	NA	< 0.102	< 0.102	NA	< 0.102	NA	< 2.1	NA	NA	< 2.3	NA	NA	NA
2-Nitrophenol	< 0.117	< 0.65	NA	NA	NA	NA	NA	NA	< 0.117	< 0.117	NA	< 0.117	NA	< 0.62	NA	NA	< 0.67	NA	NA	NA
2-Picoline	NA	< 6.0	NA	NA	NA	NA	NA	NA	< 6.83	< 6.83	NA	< 6.83	NA	< 5.7	NA	NA	< 6.2	NA	NA	NA
3,3'-Dichlorobenzidine	< 0.212	< 2.6	NA	NA	NA	NA	NA	NA	< 0.212	< 0.212	NA	< 0.212	NA	< 2.5	NA	NA	< 2.7	NA	NA	NA
3,3'-Dimethylbenzidine	NA	< 8.0	NA	NA	NA	NA	NA	NA	< 3.39	< 3.39	NA	< 3.39	NA	< 7.6	NA	NA	< 8.2	NA	NA	NA
3+4-Methylphenol (m,p-Cresol)	< 0.168	NA	< 1.0	< 1.0	< 1.0	< 1.1	< 1.0	NA	< 0.168	< 0.168	< 0.168	< 0.168	< 0.37	NA	< 1.0	< 1.0	< 1.1	NA	< 1.2	< 1.3
3-Methylchloranthrene	NA	< 2.2	NA	NA	NA	NA	NA	NA	< 0.164	< 0.164	NA	< 0.164	NA	< 2.1	NA	NA	< 2.3	NA	NA	NA
3-Methylphenol (m-Cresol)	NA	< 0.39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.37	NA	NA	NA	NA	NA	NA
3-Nitroaniline	< 0.0869	< 1.8	NA	NA	NA	NA	NA	NA	< 0.0869	< 0.0869	NA	< 0.0869	NA	< 1.7	NA	NA	< 1.8	NA	NA	NA
4,6-Dinitro-2-Methylphenol	< 1.12	< 2.0	NA	NA	NA	NA	NA	NA	< 1.12	< 1.12	NA	< 1.12	NA	< 1.9	NA	NA	< 2.1	NA	NA	NA
4-Aminobiphenyl	NA	< 4.2	NA	NA	NA	NA	NA	NA	< 0.461	< 0.461	NA	< 0.461	NA	< 4.0	NA	NA	< 4.3	NA	NA	NA
4-Bromophenyl phenyl ether	< 0.0877	< 0.32	NA	NA	NA	NA	NA	NA	< 0.0877	< 0.0877	NA	< 0.0877	NA	< 0.3	NA	NA	< 0.33	NA	NA	NA
4-Chloro-3-Methylphenol	< 0.131	< 3.8	NA	NA	NA	NA	NA	NA	< 0.131	< 0.131	NA	< 0.131	NA	< 3.6	NA	NA	< 3.9	NA	NA	NA
4-Chloroaniline	< 0.234	< 3.4	NA	NA	NA	NA	NA	NA	< 0.234	< 0.234	NA	< 0.234	NA	< 3.2	NA	NA	< 3.5	NA	NA	NA
4-Chlorophenyl phenyl ether	< 0.0926	< 2.0	NA	NA	NA	NA	NA	NA	< 0.0926	< 0.0926	NA	< 0.0926	NA	< 1.9	NA	NA	< 2.1	NA	NA	NA
4-Dimethylaminoazobenzene	NA	< 2.3	NA	NA	NA	NA	NA	NA	< 3.69	< 3.69	NA	< 3.69	NA	< 2.2	NA	NA	< 2.4	NA	NA	NA
4-Methylphenol (p-Cresol)	NA	< 0.39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	< 0.0910	< 2.5	NA	NA	NA	NA	NA	NA	< 0.0910	< 0.091	NA	< 0.0910	NA	< 2.4	NA	NA	< 2.5	NA	NA	NA
4-Nitrophenol	< 0.143	< 2.1	NA	NA	NA	NA	NA	NA	< 0.143	< 0.143	NA	< 0.143	NA	< 2.0	NA	NA	< 2.2	NA	NA	NA
4-Nitroquinoline-N-Oxide	NA	< 2.0	NA	NA	NA	NA	NA	NA	< 2.03	< 2.03	NA	< 2.03	NA	< 1.9	NA	NA	< 2.1	NA	NA	NA
5-Nitro-O-Toluidine	NA	< 3.0	NA	NA	NA	NA	NA	NA	< 1.99	< 1.99	NA	< 1.99	NA	< 2.9	NA	NA	< 3.1	NA	NA	NA
7,12-Dimethylbenz(a)anthracene	NA	< 3.7	NA	NA	NA	NA	NA	NA	< 1.71	< 1.71	NA	< 1.71	NA	< 3.5	NA	NA	< 3.8	NA	NA	NA
Acenaphthene	0.0918 J	< 0.46	< 0.020	< 0.020	0.047	< 0.022	< 0.020	NA	< 0.0886	< 0.0886	< 0.0886	< 0.0886	120	220 J	150	110 B	120	NA	220	230
Acenaphthylene	< 0.0921	< 0.56	< 0.020	< 0.020	< 0.02	< 0.022	< 0.020	NA	< 0.0921	< 0.0921	< 0.0921	< 0.0921	1.5	< 0.53	< 0.20	1.4	< 0.021	NA	< 0.46	< 0.26
Acetophenone	< 0.208	< 0.62	NA	NA	NA	NA	NA	NA	< 0.208	< 0.208	NA	< 0.208	NA	< 0.59	NA	NA	< 0.64	NA	NA	NA
alpha, alpha-Dimethylphenethylamine	NA	< 10	NA	NA	NA	NA	NA	NA	< 3.13 R	< 3.13 R	NA	< 3.13	NA	< 9.5	NA	NA	< 10	NA	NA	NA
Aniline	< 1.65	< 3.8	NA	NA	NA	NA	NA	NA	< 1.65	< 1.65	NA	< 1.65	NA	< 3.6	NA	NA	< 3.9	NA	NA	NA
Anthracene	< 0.0804	< 0.42	< 0.020	< 0.020	< 0.02	< 0.022	< 0.020	NA	< 0.0804	< 0.0804	< 0.0804	< 0.0804	3.4	5.4 J	3.3	2.8	< 0.021	NA	6.5	< 0.26
Aramite	NA	< 2.0	NA	NA	NA	NA	NA	NA	< 16.7	< 16.7	NA	< 16.7	NA	< 1.9	NA	NA	< 2.1	NA	NA	NA
Benzo(a)anthracene	< 0.199	< 0.34	< 0.092	< 0.040	< 0.04	< 0.044	< 0.040	NA	< 0.199	< 0.199	< 0.199	< 0.199	< 0.11	< 0.32	< 0.92	< 0.040	< 0.041	NA	< 0.93	< 0.52
Benzo(a)pyrene	< 0.0381	< 0.43	< 0.20	< 0.040	< 0.04	< 0.044	< 0.040	NA	< 0.0381	< 0.0381	< 0.0381	< 0.0381	< 0.11	< 0.41	< 2.0	< 0.040	< 0.041	NA	< 0.93	< 0.52
Benzo(b)fluoranthene	< 0.130	< 0.38	< 0.092	< 0.040	< 0.04	< 0.044	< 0.040	NA	< 0.130	< 0.13	< 0.13	< 0.130	0.22 J	< 0.36	< 0.92	< 0.040	< 0.041	NA	< 0.93	< 0.52
Benzo(g,h,i)perylene	< 0.121	< 1.1	< 0.040	< 0.040	< 0.04	< 0.044	< 0.040	NA	< 0.121	< 0.121	< 0.121	< 0.121	< 0.11	< 1.0	< 0.40	< 0.040	< 0.041	NA	< 0.93	< 0.52
Benzo(k)fluoranthene	< 0.120	< 0.54	< 0.92	< 0.040	< 0.04	< 0.044	< 0.040	NA	< 0.120	< 0.12	< 0.12	< 0.120	0.13 J	< 0.51	< 9.2	< 0.040	< 0.041	NA	< 0.93	< 0.52
Benzyl Alcohol	< 0.563	< 2.0	NA	NA	NA	NA	NA	NA	< 0.563	< 0.563	NA	< 0.563	NA	< 1.9	NA	NA	< 2.1	NA	NA	NA
bis(2-Chloroethoxy)methane	< 0.116	< 0.69	NA	NA	NA	NA	NA	NA	< 0.116	< 0.116	NA	< 0.116	NA	< 0.66	NA	NA	< 0.71	NA	NA	NA
bis(2-Chloroethyl)ether	< 0.137	< 0.74	NA	NA	NA	NA	NA	NA	< 0.137	< 0.137	NA	< 0.137	NA	< 0.7	NA	NA	< 0.76	NA	NA	NA
bis(2-Chloroisopropyl)ether	NA	< 0.81	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	< 0.895	7.8 J	< 6.0	< 2.3	7.7 J	< 2.5	6.3 U	NA	< 0.895	< 0.895	< 0.895	< 0.895	13	< 2.2	< 6.0	< 2.3	< 2.3	NA	< 2.6	12 J
Butyl benzyl phthalate	< 0.765	< 0.69	NA	NA	NA	NA	NA	NA	< 0.765	< 0.765	NA	< 0.765	NA	< 0.66	NA	NA	< 0.71	NA	NA	NA
Chlorobenzilate	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.84	NA	< 3.84	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	< 0.130	< 0.49	< 9.2	< 0.040	< 0.04	< 0.044	< 0.040	NA	< 0.130	< 0.13	< 0.13	< 0.130	< 0.11	< 0.47	< 92	< 0.040	< 0.041	NA	< 0.93	< 0.52
Diallate	NA	< 3.0	NA	NA	NA	NA	NA	NA	< 0.524	< 0.524	NA	< 0.524	NA	< 2.9	NA	NA	< 3.1	NA	NA	NA
Dibenzo(a,h)anthracene	< 0.0644	< 1.2	NA	NA	NA	NA	NA	NA	< 0.0644	< 0.0644	NA	< 0.0644	NA	< 1.1	NA	NA	< 1.2	NA	NA	NA
Dibenzofuran	< 0.0970	< 0.52	< 1.2	< 0.52	< 0.52	< 0.57	< 0.51	NA	< 0.0970	< 0.097	< 0.097	< 0.0970	35	50 J	31	18	8.5	NA	9.4 J	17
Diethyl phthalate	0.824 J	< 0.7	NA	NA	NA	NA	NA	NA	< 0.287	< 0.287	NA	1.02 J	NA	< 0.67	NA	NA	< 0.72	NA	NA	NA
Dimethyl phthalate	< 0.260	< 0.6	NA	NA	NA	NA	NA	NA	< 0.260	< 0.26	NA	< 0.260	NA	< 0.57	NA	NA	< 0.62	NA	NA	NA
Di-n-butyl phthalate	< 0.453	NA	NA	NA	NA	NA	NA	NA	< 0.453	< 0.453	NA	< 0.453	NA	NA	NA	NA	< 2.8	NA	NA	NA
Di-n-octyl phthalate	< 0.932	< 0.44	< 0.44	1.2 J	< 0.44	< 0.48	< 0.43	NA	< 0.932	< 0.932	< 0.932	< 0.932	< 0.16	< 0.42	< 0.44	< 0.44	< 0.45	NA	< 0.5	< 0.57
Dinoseb	NA	NA	NA	NA	NA	NA	NA	NA	< 8.01	< 8.01	NA	< 8.01	NA	NA	NA	NA	< 3.1	NA	NA	NA
Diphenylamine	< 2.37	< 3.0	NA	NA	NA	NA	NA	NA	< 2.37	< 2.37	NA	< 2.37	NA	< 2.9	NA	NA	< 3.1	NA	NA	NA
Ethyl methanesulfonate	NA	< 3.0	NA	NA	NA	NA	NA	NA	< 0.326	< 0.326	NA	< 0.326	NA	< 2.9	NA	NA	< 3.1	NA	NA	NA
Fluoranthene	< 0.102	< 0.77	< 0.020	< 0.020	0.027 J	< 0.022	< 0.020	NA	< 0.102	< 0.102	< 0.102	< 0.102	1.2	3.1 J	1.6 J	1.3	1.5	NA	3.1 J	2.9
Fluorene	< 0.0844	< 0.56	< 0.021	< 0.021	< 0.021	< 0.023	< 0.021	NA	< 0.0844	< 0.0844	< 0.0844	< 0.0844	57	81 J	66	33	25	NA	99	160
Hexachlorobenzene	< 0.0755	< 0.25	NA	NA	NA	NA	NA	NA	< 0.0755	< 0.0755	NA	< 0.0755	NA	< 0.24	NA	NA	< 0.26	NA	NA	NA
Hexachlorobutadiene	< 0.0968	< 3.6	NA	NA	NA	NA	NA	NA	< 0.0968	< 0.0968	NA	< 0.0968	NA	< 3.4	NA	NA	< 3.7	NA	NA	NA
Hexachlorocyclopentadiene	< 0.0598	< 2.6	NA	NA	NA	NA	NA	NA	< 0.0598	< 0.0598	NA	< 0.0598	NA	< 2.5	NA	NA	< 2.7	NA	NA	NA
Hexachloroethane	< 0.127	< 4.2	< 4.8	< 4.2	< 4.2	< 4.6	< 4.1	NA	< 0.127	< 0.127	< 0.127	< 0.127	< 4.0	< 4.0	< 4.8	< 4.2	< 4.3	NA	< 4.7	< 5.4
Hexachlorophene	NA	< 100	NA	NA	NA	NA	NA	NA	< 1.44	< 1.44	NA	< 1.44	NA	< 95	NA	NA	< 100	NA	NA	NA
Hexachloropropene	NA	< 2.0	NA	NA	NA	NA	NA	NA	< 0.149	< 0.149	NA	< 0.149	NA	< 1.9	NA	NA	< 2.1	NA	NA	NA
Indeno(1,2,3-cd)pyrene	< 0.279	< 1.0	< 0.092	< 0.040	< 0.04	< 0.044	< 0.040	NA	< 0.279	< 0.279	< 0.279	< 0.279	< 0.11	< 0.97	< 0.92	< 0.040	< 0.041	NA	< 0.93	< 0.52
Isodrin	NA	< 3.0	NA	NA	NA	NA	NA	NA	< 4.11	< 4.11	NA	< 4.11	NA	< 2.9	NA	NA	< 3.1	NA	NA	NA
Isophorone	< 0.143	< 0.57	NA	NA	NA	NA	NA	NA	< 0.143	< 0.143	NA	< 0.143	NA	< 0.54	NA	NA	< 0.59	NA	NA	NA
Isosafrole	NA	< 3.0	NA	NA	NA	NA	NA	NA	< 3.88	< 3.88	NA	< 3.88	NA	< 2.9	NA	NA	< 3.1	NA	NA	NA
Kepone	NA	< 0.2	NA	NA	NA	NA	NA	NA	< 2.66	< 2.66	NA	< 2.66	NA	< 0.19	NA	NA	< 0.21	NA	NA	NA
Methapyrilene	NA	< 8.0	NA	NA	NA	NA	NA	NA	< 10.0	< 10 R	NA	< 10.0	NA	< 7.6	NA	NA	< 8.2	NA	NA	NA
Methyl methanesulfonate	NA	< 3.0	NA	NA	NA	NA	NA	NA	< 3.40	< 3.4	NA	< 3.40	NA	< 2.9	NA	NA	< 3.1	NA	NA	NA
Naphthalene	< 0.159	< 0.63	< 0.62	< 0.020	< 0.02	< 0.022	0.12 U	NA	< 0.159	< 0.159	< 0.159	< 0.159	3.5	8.7 J	< 6.2	2.2	1.9 B	NA	5.0	6.5

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	8-D 6/13/2023	8-DK 6/19/2014	8-DK 6/3/2015	8-DK 6/22/2016	8-DK 6/12/2017	8-DK 6/8/2018	8-DK 6/12/2019	8-DK 9/16/2019 Resample	8-DK 6/15/2020	8-DK 6/15/2021	8-DK 6/22/2022	8-DK 6/13/2023	8-I 6/28/2013	8-I 6/20/2014	8-I 6/4/2015	8-I 6/23/2016	8-I 6/14/2017 App. IX Well	8-I 9/21/2017 Resample	8-I 6/13/2018	8-I 6/14/2019
Nitrobenzene	< 0.297	< 0.55	NA	NA	NA	NA	NA	NA	< 0.297	< 0.297	NA	< 0.297	NA	< 0.52	NA	NA	< 0.56	NA	NA	NA
N-Nitrosodiethylamine	NA	< 4.8	NA	NA	NA	NA	NA	NA	< 3.57	< 3.57	NA	< 3.57	NA	< 4.6	NA	NA	< 4.9	NA	NA	NA
N-Nitrosodimethylamine	< 0.998	< 3.5	NA	NA	NA	NA	NA	NA	< 0.998	< 0.998	NA	< 0.998	NA	< 3.3	NA	NA	< 3.6	NA	NA	NA
N-Nitrosodi-n-butylamine	NA	< 4.3	NA	NA	NA	NA	NA	NA	< 3.91	< 3.91	NA	< 3.91	NA	< 4.1	NA	NA	< 4.4	NA	NA	NA
N-Nitrosodi-n-propylamine	< 0.261	< 3.3	NA	NA	NA	NA	NA	NA	< 0.261	< 0.261	NA	< 0.261	NA	< 3.1	NA	NA	< 3.4	NA	NA	NA
N-Nitrosodiphenylamine	< 2.37	< 0.47	< 1.0	< 0.47	< 0.47	< 0.52	< 0.46	NA	< 2.37	< 2.37	< 2.37	< 2.37	< 0.17	< 0.45	< 1.0	< 0.47	< 0.48	NA	< 0.53	< 0.61
N-Nitrosomethylethylamine	NA	< 3.0	NA	NA	NA	NA	NA	NA	< 3.25	< 3.25	NA	< 3.25	NA	< 2.9	NA	NA	< 3.1	NA	NA	NA
N-Nitrosomorpholine	NA	< 4.0	NA	NA	NA	NA	NA	NA	< 3.25	< 3.25	NA	< 3.25	NA	< 3.8	NA	NA	< 4.1	NA	NA	NA
N-Nitrosopiperidine	NA	< 4.0	NA	NA	NA	NA	NA	NA	< 3.72	< 3.72	NA	< 3.72	NA	< 3.8	NA	NA	< 4.1	NA	NA	NA
N-Nitrosopyrrolidine	NA	< 5.0	NA	NA	NA	NA	NA	NA	< 3.39	< 3.39	NA	< 3.39	NA	< 4.8	NA	NA	< 5.1	NA	NA	NA
O,O,O-Triethyl Phosphorothioate	NA	< 4.0	NA	NA	NA	NA	NA	NA	NA	< 2.93	NA	< 2.93	NA	< 3.8	NA	NA	< 4.1	NA	NA	NA
Pentachlorobenzene	NA	< 2.0	NA	NA	NA	NA	NA	NA	< 4.15	< 4.15	NA	< 4.15	NA	< 1.9	NA	NA	< 2.1	NA	NA	NA
Pentachloroethane	NA	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.9	NA	NA	NA	NA	NA	NA
Pentachloronitrobenzene	NA	< 3.0	NA	NA	NA	NA	NA	NA	< 4.15	< 4.15	NA	< 4.15	NA	< 2.9	NA	NA	< 3.1	NA	NA	NA
Pentachlorophenol	< 0.313	< 1.8	< 1.8	< 1.8	< 1.8	< 2.0	< 1.8	NA	< 0.313	< 0.313	< 0.313	< 0.313	< 1.3	< 1.7	< 1.8	< 1.8	< 1.9	NA	< 2.0	< 2.3
Phenacetin	NA	< 3.0	NA	NA	NA	NA	NA	NA	< 4.66	< 4.66	NA	< 4.66	NA	< 2.9	NA	NA	< 3.1	NA	NA	NA
Phenanthrene	0.128 J	< 0.41	< 0.020	< 0.020	< 0.02	< 0.022	< 0.020	NA	< 0.112	< 0.112	< 0.112	< 0.112	35	68 J	37	26	23	NA	76	130
Phenol	< 4.33	< 2.6	< 2.6	< 2.6	< 2.6	< 2.9	< 2.6 UJ	NA	< 4.33	< 4.33	< 4.33	< 4.33	< 2.5	< 2.5	< 2.6	< 2.6	< 2.7	NA	< 2.9	3.4 J
P-Phenylenediamine	NA	< 1.0	NA	NA	NA	NA	NA	NA	< 387 R	< 387 R	NA	< 387	NA	< 0.95	NA	NA	< 1.0	NA	NA	NA
Pronamide (Kerb)	NA	< 3.0	NA	NA	NA	NA	NA	NA	< 4.21	< 4.21	NA	< 4.21	NA	< 2.9	NA	NA	< 3.1	NA	NA	NA
Pyrene	< 0.107	< 1.1	< 0.020	< 0.020	< 0.02	< 0.022	< 0.020	NA	< 0.107	< 0.107	< 0.107	< 0.107	0.61	1.5 J	0.75 J	0.54	0.57	NA	1.7 J	1.4 J
Pyridine	< 0.627	< 3.2	NA	NA	NA	NA	NA	NA	< 0.627	< 0.627	NA	< 0.627	NA	< 3.0	NA	NA	< 3.3	NA	NA	NA
Safrole	NA	< 4.0	NA	NA	NA	NA	NA	NA	< 3.68	< 3.68	NA	< 3.68	NA	< 3.8	NA	NA	< 4.1	NA	NA	NA
Sulfide - EPA846 376.1, SM4500-S2-D, mg/L																				
Sulfide	< 0.012	< 0.036	< 0.036	< 0.036	< 0.057	< 0.057	< 0.057 R	< 0.057	< 0.0062	< 0.011	< 0.0040	0.028	NA	0.049 J	0.05 J	0.048 J	0.081 J	NA	< 0.057	< 0.057 UJ
Volatile Organic Compounds - SW846 8260B, 8260C, ug/L																				
1,1,1,2-Tetrachloroethane	< 0.147	< 0.52	NA	NA	NA	NA	NA	NA	< 0.147	< 0.147	NA	< 0.147	NA	< 1.0	NA	NA	< 0.52	NA	NA	NA
1,1,1-Trichloroethane	< 0.149	< 0.5	NA	NA	NA	NA	NA	NA	< 0.149	< 0.149	NA	< 0.149	NA	< 1.0	NA	NA	< 0.5	NA	NA	NA
1,1,2,2-Tetrachloroethane	< 0.133	< 0.5	NA	NA	NA	NA	NA	NA	< 0.133	< 0.133	NA	< 0.133	NA	< 1.0	NA	NA	< 0.5	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NA	NA	NA	NA	NA	NA	NA	NA	< 0.180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	< 0.158	< 0.5	NA	NA	NA	NA	NA	NA	< 0.158	< 0.158	NA	< 0.158	NA	< 1.0	NA	NA	< 0.5	NA	NA	NA
1,1-Dichloroethane	< 0.100	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.100	< 0.1	< 0.1	< 0.100	NA	< 1.0	< 0.50	< 0.50	< 0.5	NA	< 1.0	< 0.50
1,1-Dichloroethene	< 0.188	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.188	< 0.188	< 0.188	< 0.188	NA	< 1.0	< 0.50	< 0.50	< 0.5	NA	< 1.0	< 0.50
1,1-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.142	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.230	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	< 0.237	< 0.84	NA	NA	NA	NA	NA	NA	< 0.237	< 0.237	NA	< 0.237	NA	< 1.7	NA	NA	< 0.84	NA	NA	NA
1,2,3-Trimethylbenzene	< 0.104	NA	NA	NA	NA	NA	NA	NA	< 0.104	< 0.104	NA	< 0.104	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.481	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.322	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NA	< 1.5	NA	NA	NA	NA	NA	NA	< 0.276	< 0.276	NA	NA	NA	< 3.0	NA	NA	< 1.5	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	NA	< 0.5	NA	NA	NA	NA	NA	NA	< 0.126	< 0.126	NA	NA	NA	< 1.0	NA	NA	< 0.5	NA	NA	NA
1,2-Dichlorobenzene	< 0.107	NA	NA	NA	NA	NA	NA	NA	< 0.107	NA	NA	< 0.107	NA	NA	NA	NA	< 0.5	NA	NA	NA
1,2-Dichloroethane	< 0.0819	< 0.5	NA	NA	NA	NA	NA	NA	< 0.0819	< 0.0819	NA	< 0.0819	NA	< 1.0	NA	NA	< 0.5	NA	NA	NA
1,2-Dichloropropane	< 0.149	4.4	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.149	< 0.149	< 0.149	< 0.149	NA	< 1.0	< 0.50	< 0.50	< 0.5	NA	< 1.0	< 0.50
1,3,5-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.104	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Butadiene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.299	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	< 0.110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane (p-Dioxane)	NA	NA	NA	NA	NA	NA	NA	NA	< 36.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	< 7.30 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2,4-Trimethylpentane	NA	NA	NA	NA	NA	NA	NA	NA	< 0.391	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	< 0.161	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (Methyl ethyl ketone)	< 1.19	< 2.6	NA	NA	NA	NA	NA	NA	< 1.19	< 1.19	NA	< 1.19	NA	< 5.2	NA	NA	< 2.6	NA	NA	NA
2-Chloro-1,3-Butadiene	< 1.45	< 0.7	NA	NA	NA	NA	NA	NA	< 1.45	< 1.45	NA	< 1.45	NA	< 1.4	NA	NA	< 0.7	NA	NA	NA
2-Chloroethyl vinyl ether	NA	NA	NA	NA	NA	NA	NA	NA	< 0.575	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.106	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	< 0.787	< 3.1	NA	NA	NA	NA	NA	NA	< 0.787	< 0.787	NA	< 0.787	NA	< 6.2	NA	NA	< 3.1	NA	NA	NA
2-Methyl-1-Propanol (isobutyl alcohol)	< 42.1	< 8.5	NA	NA	NA	NA	NA	NA	< 42.1	< 42.1	NA	< 42.1	NA	< 17	NA	NA	< 10	NA	NA	NA
2-Methyl-2-Butanol	NA	NA	NA	NA	NA	NA	NA	NA	< 4.90	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	< 7.18 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitropropane	NA	NA	NA	NA	NA	NA	NA	NA	< 1.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.114	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Isopropyltoluene (Cymene)	NA	NA	NA	NA	NA	NA	NA	NA	< 0.120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	< 11.3	< 10	< 10	< 10	< 10	< 10	< 10 UJ	NA	< 11.3	< 11.3	< 11.3	< 11.3	NA	< 20	< 10	< 10	< 10	NA	< 20	< 10
Acetonitrile	< 24.0	< 12	NA	NA	NA	NA	NA	NA	< 24.0	< 24	NA	< 24.0	NA	< 24	NA	NA	< 12	NA	NA	NA
Acrolein	< 2.54	< 10	NA	NA	NA	NA	NA	NA	< 2.54	< 2.54	NA	< 2.54	NA	< 20	NA	NA	< 10	NA	NA	NA
Acrylonitrile	< 0.671	< 2.8	NA	NA	NA	NA	NA	NA	< 0.671	< 0.671	NA	< 0.671	NA	< 5.6	NA	NA	< 2.8	NA	NA	NA
Allyl chloride (3-Chloropropene)	< 0.500	< 1.0	NA	NA	NA	NA	NA	NA	< 0.500	< 0.5	NA	< 0.500	NA	< 2.0	NA	NA	< 1.0	NA	NA	NA
Benzene	< 0.0941	< 0.34	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	NA	< 0.0941	< 0.0941	< 0.0941	< 0.0941	16	220 J	5.4	2.3	4.3	NA	44	47
Bromobenzene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.118	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane (Dichlorobromomethane)	< 0.136	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.136	< 0.136	< 0.136	< 0.136	NA	< 1.0	< 0.50	< 0.50	< 0.5	NA	< 1.0	< 0.50
Bromoform (Tribromomethane)	< 0.129	< 0.71	NA	NA	NA	NA	NA	NA	< 0.129	< 0.129	NA	< 0.129	NA	< 1.4	NA	NA	< 0.71	NA	NA	NA
Bromomethane (Methyl bromide)	< 0.605	< 0.98	NA	NA	NA	NA	NA	NA	< 0.605	< 0.605	NA	< 0.605	NA	< 2.0	NA	NA	< 0.98	NA	NA	NA
Carbon disulfide	< 0.0962	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	0.233 J	< 0.0962	< 0.0962	< 0.0962	NA	< 1.0	< 0.50	< 0.50	< 0.5	NA	< 1.0	< 0.50
Carbon tetrachloride	< 0.128	< 0.5	NA	NA	NA	NA	NA	NA	< 0.128	< 0.128	NA	< 0.128	NA	< 1.0	NA	NA	< 0.5	NA	NA	NA
Chlorobenzene	< 0.116	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.116	< 0.116	< 0.116	< 0.116	NA	< 1.0	< 0.50	< 0.50	< 0.5	NA	< 1.0	< 0.50
Chlorobromomethane (Bromochloromethane)	NA	NA	NA	NA	NA	NA	NA	NA	< 0.128	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorodibromomethane (Dibromochloromethane)	< 0.140	< 0.5	NA	NA	NA	NA	NA	NA	< 0.140	< 0.14	NA	< 0.140	NA	< 1.0	NA	NA	< 0.5	NA	NA	NA

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	8-D 6/13/2023	8-DK 6/19/2014	8-DK 6/3/2015	8-DK 6/22/2016	8-DK 6/12/2017	8-DK 6/8/2018	8-DK 6/12/2019	8-DK 9/16/2019 Resample	8-DK 6/15/2020	8-DK 6/15/2021	8-DK 6/22/2022	8-DK 6/13/2023	8-I 6/28/2013	8-I 6/20/2014	8-I 6/4/2015	8-I 6/23/2016	8-I 6/14/2017 App. IX Well	8-I 9/21/2017 Resample	8-I 6/13/2018	8-I 6/14/2019
Chloroethane	< 0.192	< 0.76	NA	NA	NA	NA	NA	NA	< 0.192	< 0.192	NA	< 0.192	NA	< 1.5	NA	NA	< 0.76	NA	NA	NA
Chloroform	< 0.111	< 0.6	< 0.60	< 0.60	< 0.6	< 0.6	< 0.60	NA	< 0.111	< 0.111	< 0.111	< 0.111	NA	< 1.2	< 0.60	< 0.60	< 0.6	NA	< 1.2	< 0.60
Chloromethane (Methyl chloride)	< 0.960	< 0.83	NA	NA	NA	NA	NA	NA	< 0.960	< 0.96	NA	< 0.960	NA	< 1.7	NA	NA	< 0.83	NA	NA	NA
cis-1,2-Dichloroethene	< 0.126	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.126	< 0.126	< 0.126	< 0.126	NA	NA	< 0.50	< 0.50	< 0.5	NA	< 1.0	< 0.50
cis-1,3-Dichloropropene	< 0.111	< 0.5	NA	NA	NA	NA	NA	NA	< 0.111	< 0.111	NA	< 0.111	NA	< 1.0	NA	NA	< 0.5	NA	NA	NA
Cyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	< 0.188	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexanone	NA	NA	NA	NA	NA	NA	NA	NA	< 3.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromomethane (Methylene bromide)	< 0.122	< 0.59	NA	NA	NA	NA	NA	NA	< 0.122	< 0.122	NA	< 0.122	NA	< 1.2	NA	NA	< 0.59	NA	NA	NA
Dichlorodifluoromethane (Freon 12)	< 0.374	< 0.85	NA	NA	NA	NA	NA	NA	< 0.374	< 0.374	NA	< 0.374	NA	< 1.7	NA	NA	< 0.85	NA	NA	NA
Dichloromonofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	< 0.130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dicyclopentadiene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.253	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethanol	NA	NA	NA	NA	NA	NA	NA	NA	< 42.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl acetate	NA	NA	NA	NA	NA	NA	NA	NA	< 3.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl methacrylate	< 1.48	< 0.6	NA	NA	NA	NA	NA	NA	< 1.48	< 1.48	NA	< 1.48	NA	< 1.2	NA	NA	< 0.6	NA	NA	NA
Ethylbenzene	< 0.173	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.137	< 0.173	< 0.173	< 0.173	NA	4.0	1.1	0.64 J	0.64 J	NA	< 1.0	1.0
Hexachlorobutadiene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.337	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	< 0.316	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane (Methyl iodide)	< 6.00	< 0.68	NA	NA	NA	NA	NA	NA	< 6.00	< 6	NA	< 6.00	NA	< 1.4	NA	NA	< 0.68	NA	NA	NA
Isopropyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	50.4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl ether	NA	NA	NA	NA	NA	NA	NA	NA	< 0.105	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	NA	NA	NA	NA	NA	NA	NA	NA	< 0.105	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m+p-Xylenes	< 0.430	NA	NA	NA	NA	NA	NA	NA	< 0.430	< 0.43	< 0.43	< 0.430	NA	NA	NA	NA	NA	NA	NA	NA
Methyl acetate	NA	NA	NA	NA	NA	NA	NA	NA	< 1.29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl isobutyl ketone (4-Methyl-2-pentanone)	< 0.478	< 1.8	NA	NA	NA	NA	NA	NA	< 0.478	< 0.478	NA	< 0.478	NA	< 3.6	NA	NA	< 1.8	NA	NA	NA
Methyl methacrylate	< 1.52	< 5.0	NA	NA	NA	NA	NA	NA	< 1.52	< 1.52 UJ	NA	< 1.52	NA	< 10	NA	NA	< 5.0	NA	NA	NA
Methyl tertiary butyl ether (MTBE)	NA	NA	NA	NA	NA	NA	NA	NA	< 0.101	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylacrylonitrile	< 14.2	< 6.0	NA	NA	NA	NA	NA	NA	< 14.2	< 14.2	NA	< 14.2	NA	< 12	NA	NA	< 6.0	NA	NA	NA
Methylcyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	< 0.660	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride (Dichloromethane)	< 0.430	< 3.0	NA	NA	NA	NA	NA	NA	< 0.430	< 0.43	NA	< 0.430	NA	< 6.0	NA	NA	< 3.0	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	< 1.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	< 150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.157	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Heptane	NA	NA	NA	NA	NA	NA	NA	NA	< 0.373	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Hexane	NA	NA	NA	NA	NA	NA	NA	NA	< 0.749	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	< 0.174	NA	NA	NA	NA	NA	NA	NA	< 0.174	< 0.174	< 0.174	< 0.174	NA	NA	NA	NA	NA	NA	NA	NA
Pentachloroethane	< 2.30	NA	NA	NA	NA	NA	NA	NA	< 2.30	< 2.3	NA	< 2.30	NA	NA	NA	NA	< 0.6	NA	NA	NA
Propionitrile	< 16.2	< 7.0	NA	NA	NA	NA	NA	NA	< 16.2	< 16.2	NA	< 16.2	NA	< 14	NA	NA	< 7.0	NA	NA	NA
Propylene (Propene)	NA	NA	NA	NA	NA	NA	NA	NA	< 0.936	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene (2-Phenylbutane)	NA	NA	NA	NA	NA	NA	NA	NA	< 0.125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	< 0.118	< 1.0	NA	NA	NA	NA	NA	NA	< 0.118	< 0.118	NA	< 0.118	NA	< 2.0	NA	NA	< 1.0	NA	NA	NA
tert-Amyl methyl ether	NA	NA	NA	NA	NA	NA	NA	NA	< 0.195	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tert-buty formate	NA	NA	NA	NA	NA	NA	NA	NA	< 4.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	< 4.06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butyl ethyl ether	NA	NA	NA	NA	NA	NA	NA	NA	< 0.101	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	< 0.127	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene (PCE)	< 0.300	< 0.58	NA	NA	NA	NA	NA	NA	< 0.300	< 0.3	NA	< 0.300	NA	< 1.2	NA	NA	< 0.58	NA	NA	NA
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	< 0.929	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	< 0.278	< 0.7	< 0.70	< 0.70	< 0.7	< 0.7	< 0.41	NA	< 0.278	< 0.278	< 0.278	< 0.278	NA	< 1.4	< 0.70	< 0.70	< 0.7	NA	< 1.4	0.58 J
trans-1,2-Dichloroethene	< 0.149	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.149	< 0.149	< 0.149	< 0.149	NA	< 1.0	< 0.50	< 0.50	< 0.5	NA	< 1.0	< 0.50
trans-1,3-Dichloropropene	< 0.118	< 0.5	NA	NA	NA	NA	NA	NA	< 0.118	< 0.118	NA	< 0.118	NA	< 1.0	NA	NA	< 0.5	NA	NA	NA
trans-1,4-Dichlorobutene	< 0.467	< 1.0	NA	NA	NA	NA	NA	NA	< 0.467	< 0.467	NA	< 0.467	NA	< 2.0	NA	NA	< 1.0	NA	NA	NA
Trichloroethene (TCE)	< 0.190	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.190	< 0.19	< 0.19	< 0.190	NA	< 1.0	< 0.50	< 0.50	< 0.5	NA	< 1.0	< 0.50
Trichlorofluoromethane (Freon 11)	< 0.160	< 0.52	NA	NA	NA	NA	NA	NA	< 0.160	< 0.16	NA	< 0.160	NA	< 1.0	NA	NA	< 0.52	NA	NA	NA
Vinyl acetate	< 0.692	< 2.0	NA	NA	NA	NA	NA	NA	< 0.692	< 0.692	NA	< 0.692	NA	< 4.0	NA	NA	< 2.0	NA	NA	NA
Vinyl chloride	< 0.234	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.234	< 0.234	< 0.234	< 0.234	NA	< 1.0	< 0.50	< 0.50	< 0.5	NA	< 1.0	< 0.50
Xylenes, Total	< 0.174	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	NA	< 0.174	< 0.174	< 0.174	< 0.174	12	32 J	10	8.2 J	7.1 J	NA	13 J	15

Notes:
mg/L = milligrams per liter
pg/L = picograms per liter
ug/L = micrograms per liter
2014 event performed in accordance with previous permit, with Appendix IX sampling at all program wells every 5 years; subsequent events perfomed annually at rotating list of wells per current permit

Data Qualifier Definitions:
B = The analyte was positively identified, the associated numerica value is estimated due to blank contamination
I = Interference present
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
NA = Not Analyzed
R = The sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified
U = The analyte was analyzed for but was not detected at a concentration greater than the reported sample quantitation limit
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample
< = Not detected at or above the associated Method Detection Limit
As described in annual CMERs, the constituents presented represent the established permit list in effect at time of sampling, and varies annually based on additional Appendix IX detections.
DQE flags may vary by lab and based on professional judgement applied by DQE analyst.

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID:	8-I	8-I	8-I	8-I	8-I	8-S	8-S	8-S	8-S	8-S	8-S	8-S	8-S	8-S	8-S	8-S	9-I	9-I	9-I
Sample Date:	9/16/2019	6/12/2020	6/15/2021	6/22/2022	6/13/2023	6/26/2013	6/18/2014	6/3/2015	6/22/2016	6/12/2017	6/9/2018	6/13/2019	9/16/2019	6/11/2020	6/15/2021	6/21/2022	6/13/2023	6/27/2013	6/20/2014	9/4/2014
Sample Type:	Resample			App. IX Well						App. IX Well			Resample			App. IX Well				Resample
1,2-Dibromoethane - SW846 8011, ug/L																				
1,2-Dibromo-3-Chloropropane	NA	NA	NA	< 0.0077	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.00808	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	NA	NA	NA	< 0.00552	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.00579	NA	NA	NA	NA
Chlorinated Herbicides - SW846 8151, 8151A, 8321, ug/L																				
2,2-Dichloropropionic acid (Dalapon)	NA	< 0.358	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.344	NA	NA	NA	NA	NA	NA
2,4,5-T	NA	< 0.268	< 0.258	< 0.258	< 0.573	NA	< 0.04	NA	NA	< 0.08	NA	NA	NA	< 0.258	< 0.258	< 0.258	< 0.573	NA	< 0.04	NA
2,4,5-TP (Silvex)	NA	< 0.348	< 0.335	< 0.335	< 0.807	NA	< 0.018	< 0.018	< 0.036	< 0.036	< 0.0073	< 0.0073	NA	< 0.335	< 0.335	< 0.335	< 0.807	NA	< 0.018	NA
2,4-D	NA	< 0.569	< 0.547	< 0.547	< 1.00	NA	< 0.26	NA	NA	< 0.52	NA	NA	NA	< 0.547	< 0.547	< 0.547	< 1.00	NA	< 0.26	NA
2,4-DB	NA	< 0.314	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.302	NA	NA	NA	NA	NA	NA
Dicamba	NA	< 0.255	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.245	NA	NA	NA	NA	NA	NA
Dichlorprop	NA	< 1.08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.04	NA	NA	NA	NA	NA	NA
Dinoseb	NA	< 0.260	NA	NA	NA	NA	< 0.16	NA	NA	NA	NA	NA	NA	< 0.250	NA	NA	NA	NA	< 0.16	NA
MCPA (2-Methyl-4-Chlorophenoxyacetic acid)	NA	< 13.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 13.1	NA	NA	NA	NA	NA	NA
MCPP	NA	< 68.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 66.0	NA	NA	NA	NA	NA	NA
Cyanide - EPA 846 9012A, EPA 335.2, 335.4, mg/L																				
Cyanide	NA	NA	NA	0.0016 J	< 0.0069	NA	< 0.0035	NA	NA	< 0.0035	NA	NA	NA	NA	NA	0.0012 U	< 0.0069	NA	< 0.0035	NA
Dioxins/Furans - SW846 8290, 8290A, pg/L																				
1,2,3,4,6,7,8,9-OCDD (OCDD)	NA	23 BJ U	< 11	< 1.3	< 9.1	NA	NA	4.9 J	82 J	21 J	< 0.48	3.9 U	NA	< 9.5	9.8 J	< 1.2	< 3.0	NA	NA	NA
1,2,3,4,6,7,8,9-OCDF (OCDF)	NA	2.6 IJ U	< 8.9	< 1.5	< 5.9	NA	NA	< 0.29	5.9 J	4.8 J	< 0.58	< 1.7	NA	< 5.8	< 7.8	< 0.9	< 3.9	NA	NA	NA
1,2,3,4,6,7,8-HpCDD	NA	4.1 J	< 7.3	< 0.99	< 4.0	NA	NA	0.71 J	5.2 J	3.2 J	1.0 J	< 0.88	NA	< 3.3	< 3.0	< 0.76	< 1.8	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	NA	< 1.2	< 2.8	< 0.44	< 3.6	NA	NA	< 0.13	1.4 J	2.7 J	< 0.35	< 0.97	NA	< 3.0	< 1.9	< 0.59	< 1.8	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	NA	< 1.4	< 6.0	< 0.98	< 3.7	NA	NA	NA	NA	< 0.76	< 0.41	< 1.2	NA	< 4.0	< 3.1	< 0.92	< 2.2	NA	NA	NA
1,2,3,4,7,8-HxCDD	NA	< 0.97	< 2.7	< 0.97	< 2.5	NA	< 2.9	NA	NA	1.0 J	NA	< 1.0	NA	< 1.7	< 2.9	< 0.53	< 2.2	NA	< 0.55	NA
1,2,3,4,7,8-HxCDF	NA	0.78 IJ U	< 2.8	< 0.28	< 1.2	NA	< 2.3	NA	NA	1.4 J	NA	< 0.88	NA	< 1.5	< 2.8	< 0.44	< 1.7	NA	< 0.33	NA
1,2,3,6,7,8-HxCDD	NA	< 0.83	< 3.9	< 0.94	< 1.8	NA	< 2.7	NA	NA	1.3 J	NA	< 0.93	NA	< 1.3	< 3.2	< 0.75	< 1.5	NA	< 0.55	NA
1,2,3,6,7,8-HxCDF	NA	0.57 IJ U	< 2.2	< 0.38	< 2.3	NA	< 2.0	NA	NA	1.2 J	NA	< 0.81	NA	< 1.1	< 2.4	< 0.2	< 1.5	NA	< 0.3	NA
1,2,3,7,8,9-HxCDD	NA	< 0.83	< 3.4	< 0.89	< 1.8	NA	< 2.2	NA	NA	1.4 J	NA	< 0.91	NA	< 1.8	< 4.2	< 0.74	< 2.1	NA	< 0.5	NA
1,2,3,7,8,9-HxCDF	NA	0.84 IJ U	< 3.8	< 0.44	< 1.2	NA	< 2.2	NA	NA	1.3 J	NA	1.6 UJ	NA	< 1.2	< 3.3	< 0.31	< 1.2	NA	< 0.34	NA
1,2,3,7,8-PeCDD	NA	0.9 J	< 2.8	< 0.48	< 1.9	NA	< 3.1	NA	NA	1.3 J	NA	< 1.3	NA	< 2.2	< 4.3	< 0.54	< 1.6	NA	< 1.8	NA
1,2,3,7,8-PeCDF	NA	0.73 IJ U	< 3.4	< 0.62	< 1.8	NA	< 4.2	NA	NA	2.0 J	NA	< 0.75	NA	< 1.0	< 2.4	< 0.31	< 1.5	NA	< 1.5	NA
2,3,4,6,7,8-HxCDF	NA	< 0.74	< 1.9	< 0.33	< 1.3	NA	< 2.2	NA	NA	1.3 J	NA	< 0.87	NA	< 1.0	< 2.6	< 0.19	< 1.6	NA	< 0.31	NA
2,3,4,7,8-PeCDF	NA	0.71 IJ U	< 2.7	< 0.25	< 1.1	NA	< 4.4	NA	NA	1.3 J	NA	< 0.76	NA	< 0.55	< 2.4	< 0.19	< 0.82	NA	< 1.5	NA
2,3,7,8-TCDD	NA	< 0.55	< 6.5	< 0.62	< 3.1	NA	< 1.2	NA	NA	< 0.44	NA	< 0.92	NA	< 1.4	< 8.4	< 0.63	< 2.2	NA	< 0.67	NA
2,3,7,8-TCDF	NA	< 0.35	< 6.4	< 0.33	< 1.3	NA	< 1.9	NA	NA	0.72 J	NA	< 0.62	NA	< 2.2	< 7.7	< 0.41	< 1.5	NA	< 0.66	NA
TEQ-WHO 2005	NA	NA	NA	NA	0.0053	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	NA	NA
Total HpCDD	NA	7.1 J	< 7.3	< 0.99	< 4.0	NA	NA	1.6 J	8.9 J	6.5 J	1.9 J	< 0.88	NA	< 3.3	< 3.0	< 0.76	< 1.8	NA	NA	NA
Total HpCDF	NA	< 1.2	< 2.8	< 0.44	< 3.6	NA	NA	< 0.13	4.1 J	2.7 J	< 0.41	< 1.2	NA	< 3.0	< 1.9	< 0.59	< 1.8	NA	NA	NA
Total HxCDD	NA	< 0.83	< 2.7	< 0.89	< 1.8	NA	< 2.0	< 1.9	< 1.9	4.5 J	2.6 J	< 1.0	NA	< 1.3	< 2.9	< 0.53	< 1.5	NA	< 0.55	NA
Total HxCDF	NA	< 0.45	< 1.9	< 0.28	< 1.2	NA	< 2.0	< 1.9	< 1.9	5.2 J	4.0 J	1.6 UJ	NA	< 1.0	< 2.4	< 0.19	< 1.2	NA	< 0.34	NA
Total PeCDD	NA	0.9 J	< 2.8	< 0.48	< 1.9	NA	< 2.0	NA	NA	1.3 J	NA	< 1.3	NA	< 2.2	< 4.3	< 0.54	< 1.6	NA	< 1.8	NA
Total PeCDF	NA	< 0.5	< 2.7	< 0.25	< 1.1	NA	< 2.0	NA	NA	3.3 J	NA	< 0.76	NA	< 0.55	< 2.4	< 0.19	< 0.82	NA	< 1.5	NA
Total TCDD	NA	< 0.55	< 6.5	< 0.62	< 3.1	NA	< 1.2	< 0.20	< 1.9	< 0.44	< 0.45	< 0.92	NA	< 1.4	< 8.4	< 0.63	< 2.2	NA	< 0.67	NA
Total TCDF	NA	< 0.35	< 6.4	< 0.33	< 1.3	NA	< 2.0	NA	NA	0.72 J	NA	< 0.62	NA	< 2.2	< 7.7	< 0.41	< 1.5	NA	< 0.66	NA
Mercury, Total - SW846 7470, 7470A, mg/L																				
Mercury	NA	NA	< 0.00010	< 0.00010	< 0.00010	NA	< 0.00007	< 0.00007	< 0.000070	< 0.00007	< 0.00007	0.000072 U	NA	NA	< 0.00010	< 0.00010	< 0.00010	NA	< 0.000091	NA
Metals, Total - SW846 6010C, 6020, 6020A, mg/L																				
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	NA	NA	< 0.00063	< 0.00063	< 0.00034	NA	< 0.01	NA	NA	< 0.0002	NA	NA	NA	NA	< 0.00063	< 0.00063	0.00042 J	NA	< 0.01	NA
Arsenic	NA	0.0285	0.0210	0.022	0.022	< 0.004	< 0.004	0.0013	0.00072 J	0.0029	0.0044	0.00079 J	NA	0.00075 J	0.00040 J	0.00095 J	0.00046 J	< 0.004	0.004 J	NA
Barium	NA	0.0444	0.0490	0.051	0.052	NA	0.083	0.071	0.095	0.073	0.082	0.071	NA	0.0694	0.0640	0.059	0.072	NA	0.014	NA
Beryllium	NA	NA	< 0.00012	< 0.00012	< 0.00021	NA	< 0.001	NA	NA	< 0.000068	NA	NA	NA	NA	< 0.00012	< 0.00012	< 0.00021	NA	< 0.001	NA
Cadmium	NA	< 0.00008	< 0.000080	< 0.000080	< 0.00019	NA	< 0.001	< 0.00059	< 0.00034	< 0.000068	< 0.000068	< 0.00025	NA	< 0.00008	< 0.000080	< 0.000080	< 0.00019	NA	< 0.001	NA
Chromium	NA	0.00066 J	< 0.00062	0.0007 J	0.00067 J	NA	< 0.002	< 0.00063	< 0.0011	0.00037 J	0.00064	< 0.0005	NA	< 0.00062	< 0.00062	< 0.00062	< 0.00063	NA	0.0072 J	NA
Cobalt	NA	0.00024 J	0.00016 J	0.00017 J	0.00025 J	NA	< 0.003	0.00048 J	< 0.00040	0.00052	0.00053	0.00024 J	NA	0.00033 J	0.00019 J	0.00027 J	0.00014 J	NA	< 0.003	NA
Copper	NA	< 0.00083	< 0.00083	0.0012 J	< 0.0017	0.0028 J	< 0.002	< 0.0019	< 0.0021	< 0.00042	< 0.00042	< 0.0005	NA	< 0.00083	0.0010 J	< 0.00083	< 0.0017	0.0053 J	< 0.002	NA
Lead	NA	0.00036 J	0.000085 J	< 0.000070	< 0.00069	NA	0.003 J	< 0.00017	< 0.00035	< 0.00007	< 0.00007	< 0.00017	NA	< 0.00007	< 0.000070	< 0.000070	< 0.00069	NA	0.0026 J	NA
Nickel	NA	0.0006 J	< 0.00056	< 0.00056	0.001	NA	< 0.003	< 0.0007	< 0.0018	< 0.00036	0.00047 J	< 0.00086	NA	< 0.00056	< 0.00056	< 0.00056	< 0.00062	NA	0.005	NA
Selenium	NA	< 0.00037	< 0.00037	< 0.00037	< 0.00026	NA	< 0.004	0.00082 J	0.00071 J	0.00083 B	0.0008 B	0.0031 U	NA	0.0013	0.00092 J	0.0023	0.0054	NA	< 0.004	NA
Silver	NA	NA	< 0.000080	< 0.000080	< 0.00020	NA	< 0.002	NA	NA	< 0.000022	NA	NA	NA	NA	< 0.000080	< 0.000080	< 0.00020	NA	< 0.002	NA
Thallium	NA	< 0.00008	< 0.000080	< 0.000080	< 0.00011	NA	< 0.004	< 0.000017	< 0.000085	< 0.000017	< 0.000017	< 0.00014	NA	< 0.00008	< 0.000080	< 0.000080	< 0.00011	NA	< 0.004	NA
Tin	NA	NA	< 0.00043	< 0.00043	< 0.00065	NA	< 0.005	NA	NA	< 0.00022	NA	NA	NA	NA	< 0.00043	< 0.00043	< 0.00065	NA	< 0.005	NA
Vanadium	NA	< 0.0023	< 0.0023	< 0.0023	< 0.00023	NA	< 0.003	< 0.0022	< 0.0014	0.0016	0.0029	0.0030 J	NA	< 0.0023	< 0.0023	< 0.0023	0.00066 J	NA	0.0037 J	< 0.003
Zinc	NA	0.009 J	< 0.0044	< 0.0044	< 0.0072	NA	< 0.008	< 0.014	NA	< 0.0013	NA	NA	NA	< 0.0044	< 0.0044	< 0.0044	< 0.0072	NA	< 0.008	NA
Organophosphorus Pesticides - SW846 8141, ug/L																				
Basudin, Neocidol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorpyrifos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Coumaphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dasanit	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Demeton	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Demeton-s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibrom	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorvos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethoate (Cygon)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disulfoton	NA	NA	NA	< 0.227	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.227	NA	NA	NA	NA
EPN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethoprophos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl Parathion	NA	NA	NA	< 0.454	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.454	NA	NA	NA	NA
Fenthion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Folex	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID:	8-I	8-I	8-I	8-I	8-I	8-S	8-S	8-S	8-S	8-S	8-S	8-S	8-S	8-S	8-S	8-S	9-I	9-I	9-I
Sample Date:	9/16/2019	6/12/2020	6/15/2021	6/22/2022	6/13/2023	6/26/2013	6/18/2014	6/3/2015	6/22/2016	6/12/2017	6/9/2018	6/13/2019	9/16/2019	6/11/2020	6/15/2021	6/21/2022	6/13/2023	6/27/2013	6/20/2014	9/4/2014
Sample Type:	Resample			App. IX Well						App. IX Well			Resample			App. IX Well				Resample
Guthion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Malathion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl parathion	NA	NA	NA	< 0.383	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.383	NA	NA	NA	NA
Mevinphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phorate	NA	NA	NA	< 0.276	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.276	NA	NA	NA	NA
Ronnel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfotepp	NA	NA	NA	< 0.181	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.181	NA	NA	NA	NA
Sulprofos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachlorvinphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetraethyl diphosphate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tokuthion (Prothiofos)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloronate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organophosphorus Pesticides - SW846 8270-PEST, ug/L																				
Dimethoate (Cygon)	NA	< 5.05	< 5.05	< 25.3	< 5.05	NA	< 3.0	NA	NA	< 0.24	NA	NA	NA	< 5.05	< 5.05	< 5.05	< 5.05	NA	< 2.9	NA
Disulfoton	NA	NA	NA	NA	NA	NA	< 3.0	NA	NA	< 0.37	NA	NA	NA	NA	NA	NA	NA	NA	< 2.9	NA
Ethyl Parathion	NA	NA	NA	NA	NA	NA	< 3.0	NA	NA	< 0.18	NA	NA	NA	NA	NA	NA	NA	NA	< 2.9	NA
Famphur	NA	< 3.92	< 3.92	< 19.6	< 3.92	NA	< 3.0	NA	NA	< 0.25	NA	NA	NA	< 3.92	< 3.92	< 3.92	< 3.92	NA	< 2.9	NA
Methyl parathion	NA	NA	NA	NA	NA	NA	< 3.0	NA	NA	< 0.17	NA	NA	NA	NA	NA	NA	NA	NA	< 2.9	NA
Phorate	NA	NA	NA	NA	NA	NA	< 3.0	NA	NA	< 0.21	NA	NA	NA	NA	NA	NA	NA	NA	< 2.9	NA
Sulfotepp	NA	< 3.99	< 3.99	< 19.9	< 3.99	NA	< 3.0	NA	NA	< 0.23	NA	NA	NA	< 3.99	< 3.99	< 3.99	< 3.99	NA	< 2.9	NA
Thionazin	NA	< 4.07	< 4.07	< 20.4	< 4.07	NA	< 3.0	NA	NA	< 0.2	NA	NA	NA	< 4.07	< 4.07	< 4.07	< 4.07	NA	< 2.9	NA
Pesticides - SW846 8081, 8081A, 8081B, ug/L																				
4,4'-DDD	NA	NA	< 0.0177	< 0.0177	< 0.0177	NA	< 0.0029	NA	NA	< 0.0028	NA	NA	NA	NA	< 0.0177	< 0.0177	< 0.0177	NA	< 0.0029	NA
4,4'-DDE	NA	NA	< 0.0154	< 0.0154	< 0.0154	NA	< 0.0021	NA	NA	< 0.0028	NA	NA	NA	NA	< 0.0154	< 0.0154	< 0.0154	NA	< 0.0021	NA
4,4'-DDT	NA	NA	< 0.0198	< 0.0198	< 0.0198	NA	< 0.0038	NA	NA	< 0.0028	NA	NA	NA	NA	< 0.0198	< 0.0198	< 0.0198	NA	< 0.0037	NA
Aldrin	NA	NA	< 0.0198	< 0.0198	< 0.0198	NA	< 0.0029	NA	NA	< 0.0019	NA	NA	NA	NA	< 0.0198	< 0.0198	< 0.0198	NA	< 0.0029	NA
alpha-BHC	NA	NA	< 0.0172	< 0.0172	< 0.0172	NA	< 0.0035	NA	NA	< 0.0034	NA	NA	NA	NA	< 0.0172	< 0.0172	< 0.0172	NA	< 0.0034	NA
alpha-Chlordane	NA	NA	< 0.0149	NA	NA	NA	NA	NA	NA	< 0.0040	NA	NA	NA	NA	< 0.0149	NA	NA	NA	NA	NA
beta-BHC	NA	NA	< 0.0208	< 0.0208	< 0.0208	NA	< 0.0029	NA	NA	< 0.0028	NA	NA	NA	NA	< 0.0208	< 0.0208	< 0.0208	NA	< 0.0029	NA
beta-Chlordane	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0030	NA	NA	NA	NA	< 0.0137	NA	NA	NA	NA	NA
Chlordane	NA	NA	< 0.0198	< 0.0198	< 0.0198	NA	< 0.13	NA	NA	< 0.084	NA	NA	NA	NA	< 0.0198	< 0.0198	< 0.0198	NA	< 0.12	NA
Chlordane, technical	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzilate	NA	NA	NA	NA	NA	NA	< 0.038	NA	NA	< 0.025	NA	NA	NA	NA	NA	NA	NA	NA	< 0.037	NA
delta-BHC	NA	NA	< 0.015	< 0.015	< 0.0150	NA	< 0.002	NA	NA	< 0.0017	NA	NA	NA	NA	< 0.015	< 0.015	< 0.0150	NA	< 0.002	NA
Dieldrin	NA	NA	< 0.0162	< 0.0162	< 0.0162	NA	< 0.0029	NA	NA	< 0.0038	NA	NA	NA	NA	< 0.0162	< 0.0162	< 0.0162	NA	< 0.0029	NA
Endosulfan I	NA	NA	< 0.016	< 0.016	< 0.0160	NA	< 0.0029	NA	NA	< 0.0019	NA	NA	NA	NA	< 0.016	< 0.016	< 0.0160	NA	< 0.0029	NA
Endosulfan II	NA	NA	< 0.0164	< 0.0164	< 0.0164	NA	< 0.0072	NA	NA	< 0.0048	NA	NA	NA	NA	< 0.0164	< 0.0164	< 0.0164	NA	< 0.007	NA
Endosulfan sulfate	NA	NA	< 0.0217	< 0.0217	< 0.0217	NA	< 0.002	NA	NA	< 0.0014	NA	NA	NA	NA	< 0.0217	< 0.0217	< 0.0217	NA	< 0.002	NA
Endrin	NA	NA	< 0.0161	< 0.0161	< 0.0161	NA	< 0.0029	NA	NA	< 0.0019	NA	NA	NA	NA	< 0.0161	< 0.0161	< 0.0161	NA	0.0086 J	< 0.0029
Endrin aldehyde	NA	NA	< 0.0237	< 0.0237	< 0.0237	NA	< 0.0027	NA	NA	< 0.0018	NA	NA	NA	NA	< 0.0237	< 0.0237	< 0.0237	NA	< 0.0027	NA
Endrin ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0219	NA	NA	NA
gamma-BHC (Lindane)	NA	NA	< 0.0209	< 0.0209	< 0.0209	NA	< 0.024	NA	NA	< 0.016	NA	NA	NA	NA	< 0.0209	< 0.0209	< 0.0209	NA	< 0.024	NA
gamma-Chlordane	NA	NA	< 0.0137	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	NA	NA	< 0.0148	< 0.0148	< 0.0148	NA	< 0.003	NA	NA	< 0.002	NA	NA	NA	NA	< 0.0148	< 0.0148	< 0.0148	NA	< 0.003	NA
Heptachlor Epoxide	NA	NA	< 0.0183	< 0.0183	< 0.0183	NA	< 0.0031	NA	NA	< 0.0021	NA	NA	NA	NA	< 0.0183	< 0.0183	< 0.0183	NA	< 0.003	NA
Hexachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0176	NA	NA	NA
Methoxychlor	NA	NA	< 0.0193	< 0.0193	< 0.0193	NA	< 0.004	NA	NA	< 0.0027	NA	NA	NA	NA	< 0.0193	< 0.0193	< 0.0193	NA	0.0071 J	< 0.0039
Toxaphene	NA	NA	< 0.168	< 0.168	< 0.168	NA	< 0.29	NA	NA	< 0.26	NA	NA	NA	NA	< 0.168	< 0.168	< 0.168	NA	< 0.29	NA
Phenolics - E420.1, E420.4, SW9065, mg/L																				
Total Recoverable Phenolics	NA	0.21	0.465	0.448	0.22	0.01	< 0.0045	< 0.0045	< 0.0045	0.0085 J	< 0.0045	< 0.09	NA	0.02 U	0.0352	< 0.0250	0.030	0.012	NA	NA
Polychlorinated Biphenyl (PCB) - SW846 8082, 8082A, ug/																				
PCB-1016	NA	NA	NA	< 0.2	NA	NA	< 0.047	NA	NA	< 0.031	NA	NA	NA	NA	NA	< 0.2	NA	NA	< 0.046	NA
PCB-1221	NA	NA	NA	< 0.4	NA	NA	< 0.21	NA	NA	< 0.14	NA	NA	NA	NA	NA	< 0.4	NA	NA	< 0.21	NA
PCB-1232	NA	NA	NA	< 0.2	NA	NA	< 0.097	NA	NA	< 0.27	NA	NA	NA	NA	NA	< 0.2	NA	NA	< 0.095	NA
PCB-1242	NA	NA	NA	< 0.2	NA	NA	< 0.033	NA	NA	< 0.12	NA	NA	NA	NA	NA	< 0.2	NA	NA	< 0.032	NA
PCB-1248	NA	NA	NA	< 0.2	NA	NA	< 0.019	NA	NA	< 0.013	NA	NA	NA	NA	NA	< 0.2	NA	NA	< 0.019	NA
PCB-1254	NA	NA	NA	< 0.2	NA	NA	< 0.055	NA	NA	< 0.2	NA	NA	NA	NA	NA	< 0.2	NA	NA	< 0.054	NA
PCB-1260	NA	NA	NA	< 0.2	NA	NA	< 0.033	NA	NA	< 0.022	NA	NA	NA	NA	NA	< 0.2	NA	NA	< 0.032	NA
PCB-1262	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1268	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semi-Volatile Organic Compounds - SW846 8270C, 8270D																				
1,2,4,5-Tetrachlorobenzene	NA	< 0.0647	< 0.0647	< 0.324	< 0.0647	NA	< 0.52	NA	NA	< 0.51	NA	NA	NA	< 0.0647	< 0.0647	< 0.0647	< 0.0647	NA	< 0.5	NA
1,2,4-Trichlorobenzene	NA	< 0.0698	< 0.0698	< 0.349	< 0.0698	NA	< 0.53	NA	NA	< 0.52	NA	NA	NA	< 0.0698	< 0.0698	< 0.0698	< 0.0698	NA	< 0.5	NA
1,2-Dichlorobenzene	NA	< 0.0713	< 0.0713	< 0.357	< 0.0713	NA	< 0.57	NA	NA	< 0.56	NA	NA	NA	< 0.0713	< 0.0713	< 0.0713	< 0.0713	NA	< 0.54	NA
1,3,5-Trinitrobenzene	NA	< 1.32	< 1.32	< 6.6	< 1.32	NA	< 2.0	NA	NA	< 2.0	NA	NA	NA	< 1.32	< 1.32	< 1.32	< 1.32	NA	< 1.9	NA
1,3-Dichlorobenzene	NA	< 0.132	< 0.132	< 0.66	< 0.132	NA	< 0.47	NA	NA	< 0.46	NA	NA	NA	< 0.132	< 0.132	< 0.132	< 0.132	NA	< 0.45	NA
1,3-Dinitrobenzene	NA	< 0.359	< 0.359	< 1.8	< 0.359	NA	< 1.0	NA	NA	< 0.99	NA	NA	NA	< 0.359	< 0.359	< 0.359	< 0.359	NA	< 0.95	NA
1,4-Dichlorobenzene	NA	< 0.0942	< 0.0942	< 0.471	< 0.0942	NA	< 0.52	NA	NA	< 0.51	NA	NA	NA	< 0.0942	< 0.0942	< 0.0942	< 0.0942	NA	< 0.5	NA
1,4-Dioxane (p-Dioxane)	NA	NA	0.131 J	0.164 J	0.363 J	NA	< 1.0	< 1.0	< 1.0	< 0.99	< 1.1	< 1.3	NA	NA	< 0.0447	0.101 U	0.238 J	NA	< 0.95	NA
1,4-Naphthoquinone	NA	< 5.56 R	< 5.56 R	< 27.8 R	< 5.56	NA	< 4.0	NA	NA	< 3.9	NA	NA	NA	< 5.56 R	< 5.56 R	< 5.56 R	< 5.56	NA	< 3.8	NA
1-Methylnaphthalene	NA	71.7	152	88.7	124	< 0.019	< 0.5	< 0.020	0.021 J	0.14 J	0.036 J	< 0.025	NA	< 0.0790	< 0.079	< 0.079	< 0.0790	26	25 J	NA
1-Naphthylamine	NA	14.1	14.8	9.03 J	12.2	< 2.7	< 4.0	< 4.0	< 4.0	< 3.9	< 4.4	< 5.0	NA	< 0.289	< 0.289	< 0.289	< 0.289	< 2.7	< 3.8	NA
2,2'-Oxybis(1-chloropropane)	NA	NA	< 0.21	< 1.05	< 0.210	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.210	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NA	< 0.231	< 0.231	< 1.15	< 0.231	NA	< 0.64	NA	NA	< 0.63	NA	NA	NA	< 0.231	< 0.231	< 0.231	< 0.231	NA	< 0.61	NA
2,4,5-Trichlorophenol	NA	< 0.109	< 0.109	< 0.545	< 0.109	NA	< 3.7	NA	NA	< 3.6	NA	NA	NA	< 0.109	< 0.109	< 0.109	< 0.109	NA	< 3.5	NA
2,4,6-Trichlorophenol	NA	< 0.100	< 0.1	< 0.5	< 0.100	NA	< 3.5	NA	NA	< 3.5	NA	NA	NA	< 0.100	< 0.1	< 0.1	< 0.100	NA	< 3.3	NA
2,4-Dichlorophenol	NA	< 0.102	< 0.102	< 0.51	< 0.102	NA	< 3.0	NA	NA	< 3.0	NA	NA	NA	< 0.102	< 0.102	< 0.102	< 0.102	NA	< 2.9	NA
2,4-Dimethylphenol	NA	< 0.0636	< 0.0636	< 0.318	< 0.0636	< 3.3	< 3.5	< 3.5	< 3.5	< 3.5	< 3.8	< 4.4	NA	< 0.0636	< 0.0636	< 0.0636	< 0.0636	< 3.3	< 3.3	NA

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID:	8-I	8-I	8-I	8-I	8-I	8-S	8-S	8-S	8-S	8-S	8-S	8-S	8-S	8-S	8-S	8-S	9-I	9-I	9-I
Sample Date:	9/16/2019	6/12/2020	6/15/2021	6/22/2022	6/13/2023	6/26/2013	6/18/2014	6/3/2015	6/22/2016	6/12/2017	6/9/2018	6/13/2019	9/16/2019	6/11/2020	6/15/2021	6/21/2022	6/13/2023	6/27/2013	6/20/2014	9/4/2014
Sample Type:	Resample			App. IX Well						App. IX Well			Resample			App. IX Well				Resample
2,4-Dinitrophenol	NA	< 5.93	< 5.93	< 29.7	< 5.93	NA	< 3.4	NA	NA	< 3.4	NA	NA	NA	< 5.93	< 5.93	< 5.93	< 5.93	NA	< 3.2	NA
2,4-Dinitrotoluene	NA	< 0.0983	< 0.0983	< 0.491	< 0.0983	NA	< 1.9	NA	NA	< 1.9	NA	NA	NA	< 0.0983	< 0.0983	< 0.0983	< 0.0983	NA	< 1.8	NA
2,6-Dichlorophenol	NA	< 0.102	< 0.102	< 0.51	< 0.102	NA	< 4.0	NA	NA	< 3.9	NA	NA	NA	< 0.102	< 0.102	< 0.102	< 0.102	NA	< 3.8	NA
2,6-Dinitrotoluene	NA	< 0.250	< 0.25	< 1.25	< 0.250	NA	< 1.9	NA	NA	< 1.9	NA	NA	NA	< 0.250	< 0.25	< 0.25	< 0.250	NA	< 1.8	NA
2-Acetylaminofluorene	NA	< 0.253	< 0.253	< 1.27	< 0.253	NA	< 4.0	NA	NA	< 3.9	NA	NA	NA	< 0.253	< 0.253	< 0.253	< 0.253	NA	< 3.8	NA
2-Chloronaphthalene	NA	< 0.0648	< 0.0648	< 0.324	< 0.0648	NA	< 0.52	NA	NA	< 0.51	NA	NA	NA	< 0.0648	< 0.0648	< 0.0648	< 0.0648	NA	< 0.5	NA
2-Chlorophenol	NA	< 0.133	< 0.133	< 0.665	< 0.133	NA	< 2.2	NA	NA	< 2.2	NA	NA	NA	< 0.133	< 0.133	< 0.133	< 0.133	NA	< 2.1	NA
2-Methylaniline (o-Toluidine)	NA	12.4	12.2	< 17.7	20.6	< 0.95	< 6.0	< 6.0	< 6.0	< 5.9	< 6.6	< 7.5	NA	3.73 J	4.63 J	4.12 J	< 3.53	< 0.95	< 5.7	NA
2-Methylnaphthalene	NA	52.9	123	77.2	134	< 0.019	< 0.54	< 6.3	< 0.020	0.065 J	0.031 J	< 0.025	NA	< 0.117	< 0.117	< 0.117	< 0.117	0.18 J	< 0.51	NA
2-Methylphenol (o-Cresol)	NA	< 0.0929	< 0.0929	< 0.465	< 0.0929	NA	< 1.8	NA	NA	< 1.8	NA	NA	NA	< 0.0929	< 0.0929	< 0.0929	< 0.0929	NA	< 1.7	NA
2-Naphthylamine	NA	12.9	13.5	< 22.4	10.9	< 2.8	< 4.0	< 4.0	< 4.0	< 3.9	< 4.4	< 5.0	NA	< 4.48	< 4.48	< 4.48	< 4.48	< 2.8	< 3.8	NA
2-Nitroaniline	NA	< 0.102	< 0.102	< 0.51	< 0.102	NA	< 2.2	NA	NA	< 2.2	NA	NA	NA	< 0.102	< 0.102	< 0.102	< 0.102	NA	< 2.1	NA
2-Nitrophenol	NA	< 0.117	< 0.117	< 0.585	< 0.117	NA	< 0.65	NA	NA	< 0.64	NA	NA	NA	< 0.117	< 0.117	< 0.117	< 0.117	NA	< 0.62	NA
2-Picoline	NA	< 6.83	< 6.83	< 34.2	< 6.83	NA	< 6.0	NA	NA	< 5.9	NA	NA	NA	< 6.83	< 6.83	< 6.83	< 6.83	NA	< 5.7	NA
3,3'-Dichlorobenzidine	NA	< 0.212	< 0.212	< 1.06	< 0.212	NA	< 2.6	NA	NA	< 2.6	NA	NA	NA	< 0.212	< 0.212	< 0.212	< 0.212	NA	< 2.5	NA
3,3'-Dimethylbenzidine	NA	< 3.39	< 3.39	< 16.9	< 3.39	NA	< 8.0	NA	NA	< 7.9	NA	NA	NA	< 3.39	< 3.39	< 3.39	< 3.39	NA	< 7.6	NA
3+4-Methylphenol (m,p-Cresol)	NA	< 0.168	< 0.168	< 0.84	< 0.168	< 0.37	NA	< 1.0	< 1.0	< 1.0	< 1.1	< 1.3	NA	< 0.168	< 0.168	< 0.168	< 0.168	< 0.37	NA	NA
3-Methylchloranthrene	NA	< 0.164	< 0.164	< 0.82	< 0.164	NA	< 2.2	NA	NA	< 2.2	NA	NA	NA	< 0.164	< 0.164	< 0.164	< 0.164	NA	< 2.1	NA
3-Methylphenol (m-Cresol)	NA	NA	NA	NA	NA	NA	< 0.39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.37	NA
3-Nitroaniline	NA	< 0.0869	< 0.0869	< 0.435	< 0.0869	NA	< 1.8	NA	NA	< 1.8	NA	NA	NA	< 0.0869	< 0.0869	< 0.0869	< 0.0869	NA	< 1.7	NA
4,6-Dinitro-2-Methylphenol	NA	< 1.12	< 1.12	< 5.6	< 1.12	NA	< 2.0	NA	NA	< 2.0	NA	NA	NA	< 1.12	< 1.12	< 1.12	< 1.12	NA	< 1.9	NA
4-Aminobiphenyl	NA	< 0.461	< 0.461	< 2.3	< 0.461	NA	< 4.2	NA	NA	< 4.1	NA	NA	NA	< 0.461	< 0.461	< 0.461	< 0.461	NA	< 4.0	NA
4-Bromophenyl phenyl ether	NA	< 0.0877	< 0.0877	< 0.439	< 0.0877	NA	< 0.32	NA	NA	< 0.32	NA	NA	NA	< 0.0877	< 0.0877	< 0.0877	< 0.0877	NA	< 0.3	NA
4-Chloro-3-Methylphenol	NA	< 0.131	< 0.131	< 0.655	< 0.131	NA	< 3.8	NA	NA	< 3.7	NA	NA	NA	< 0.131	< 0.131	< 0.131	< 0.131	NA	< 3.6	NA
4-Chloroaniline	NA	< 0.234	< 0.234	< 1.17	< 0.234	NA	< 3.4	NA	NA	< 3.4	NA	NA	NA	< 0.234	< 0.234	< 0.234	< 0.234	NA	< 3.2	NA
4-Chlorophenyl phenyl ether	NA	< 0.0926	< 0.0926	< 0.463	< 0.0926	NA	< 2.0	NA	NA	< 2.0	NA	NA	NA	< 0.0926	< 0.0926	< 0.0926	< 0.0926	NA	< 1.9	NA
4-Dimethylaminoazobenzene	NA	< 3.69	< 3.69	< 18.5	< 3.69	NA	< 2.3	NA	NA	< 2.3	NA	NA	NA	< 3.69	< 3.69	< 3.69	< 3.69	NA	< 2.2	NA
4-Methylphenol (p-Cresol)	NA	NA	NA	NA	NA	NA	< 0.39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.37	NA
4-Nitroaniline	NA	< 0.0910	< 0.091	< 0.455	< 0.0910	NA	< 2.5	NA	NA	< 2.4	NA	NA	NA	< 0.0910	< 0.091	< 0.091	< 0.0910	NA	< 2.4	NA
4-Nitrophenol	NA	< 0.143	< 0.143	< 0.715	< 0.143	NA	< 2.1	NA	NA	< 2.1	NA	NA	NA	< 0.143	< 0.143	< 0.143	< 0.143	NA	< 2.0	NA
4-Nitroquinoline-N-Oxide	NA	< 2.03	< 2.03	< 10.2	< 2.03	NA	< 2.0	NA	NA	< 2.0	NA	NA	NA	< 2.03	< 2.03	< 2.03	< 2.03	NA	< 1.9	NA
5-Nitro-O-Toluidine	NA	< 1.99	< 1.99	< 9.95	< 1.99	NA	< 3.0	NA	NA	< 3.0	NA	NA	NA	< 1.99	< 1.99	< 1.99	< 1.99	NA	< 2.9	NA
7,12-Dimethylbenz(a)anthracene	NA	< 1.71	< 1.71	< 8.55	< 1.71	NA	< 3.7	NA	NA	< 3.6	NA	NA	NA	< 1.71	< 1.71	< 1.71	< 1.71	NA	< 3.5	NA
Acenaphthene	NA	72.3	147	80.9	109	< 0.019	< 0.46	< 0.020	< 0.020	< 0.02	0.3	< 0.025	NA	< 0.0886	< 0.0886	< 0.0886	< 0.0886	32	39 J	NA
Acenaphthylene	NA	< 0.0921	0.606 J	< 0.461	< 0.0921	< 0.019	< 0.56	< 0.020	< 0.020	< 0.02	< 0.022	< 0.025	NA	< 0.0921	< 0.0921	< 0.0921	< 0.0921	0.24	< 0.53	NA
Acetophenone	NA	< 0.208	< 0.208	< 1.04	< 0.208	NA	< 0.62	NA	NA	< 0.61	NA	NA	NA	< 0.208	< 0.208	< 0.208	< 0.208	NA	< 0.59	NA
alpha, alpha-Dimethylphenethylamine	NA	< 3.13 R	< 3.13 R	< 15.7	< 3.13	NA	< 10	NA	NA	< 9.9	NA	NA	NA	< 3.13 R	< 3.13 R	< 3.13 R	< 3.13	NA	< 9.5	NA
Aniline	NA	< 1.65	< 1.65	< 8.25	< 1.65	NA	< 3.8	NA	NA	< 3.7	NA	NA	NA	< 1.65	< 1.65	< 1.65	< 1.65	NA	< 3.6	NA
Anthracene	NA	1.94	3.17	1.82 J	2.81	0.08 J	< 0.42	0.15 J	< 0.020	0.69	0.18 J	< 0.025	NA	0.832 J	< 0.0804	0.243 J	0.153 J	0.93	< 0.4	NA
Aramite	NA	< 16.7	< 16.7	< 83.5	< 16.7	NA	< 2.0	NA	NA	< 2.0	NA	NA	NA	< 16.7	< 16.7	< 16.7	< 16.7	NA	< 1.9	NA
Benzo(a)anthracene	NA	< 0.199	< 0.199	< 0.995	< 0.199	< 0.038	< 0.34	< 0.092	< 0.040	< 0.039	< 0.044	< 0.050	NA	< 0.199	< 0.199	< 0.199	< 0.199	< 0.038	< 0.32	NA
Benzo(a)pyrene	NA	< 0.0381	< 0.0381	< 0.191	< 0.0381	< 0.038	< 0.43	< 0.20	< 0.040	< 0.039	< 0.044	< 0.050	NA	< 0.0381	< 0.0381	< 0.0381	< 0.0381	< 0.038	< 0.41	NA
Benzo(b)fluoranthene	NA	< 0.130	< 0.13	< 0.65	< 0.130	< 0.038	< 0.38	< 0.092	< 0.040	< 0.039	< 0.044	< 0.050	NA	< 0.130	< 0.13	< 0.13	< 0.130	0.061 J	< 0.36	NA
Benzo(g,h,i)perylene	NA	< 0.121	< 0.121	< 0.605	< 0.121	< 0.038	< 1.1	< 0.040	< 0.040	< 0.039	< 0.044	< 0.050	NA	< 0.121	< 0.121	< 0.121	< 0.121	< 0.038	< 1.0	NA
Benzo(k)fluoranthene	NA	< 0.120	< 0.12	< 0.6	< 0.120	< 0.038	< 0.54	< 0.92	< 0.040	< 0.039	< 0.044	< 0.050	NA	< 0.120	< 0.12	< 0.12	< 0.120	< 0.038	< 0.51	NA
Benzyl Alcohol	NA	< 0.563	< 0.563	< 2.82	< 0.563	NA	< 2.0	NA	NA	< 2.0	NA	NA	NA	< 0.563	< 0.563	< 0.563	< 0.563	NA	< 1.9	NA
bis(2-Chloroethoxy)methane	NA	< 0.116	< 0.116	< 0.58	< 0.116	NA	< 0.69	NA	NA	< 0.68	NA	NA	NA	< 0.116	< 0.116	< 0.116	< 0.116	NA	< 0.66	NA
bis(2-Chloroethyl)ether	NA	< 0.137	< 0.137	< 0.685	< 0.137	NA	< 0.74	NA	NA	< 0.73	NA	NA	NA	< 0.137	< 0.137	< 0.137	< 0.137	NA	< 0.7	NA
bis(2-Chloroisopropyl)ether	NA	NA	NA	NA	NA	NA	< 0.81	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	NA
bis(2-Ethylhexyl)phthalate	NA	< 0.895	< 0.895	< 4.48	< 0.895	22	< 2.3	< 6.0	< 2.3	< 2.2	< 2.5	< 6.3	NA	< 0.895	< 0.895	< 0.895	< 0.895	< 1.9	< 2.2	NA
Butyl benzyl phthalate	NA	< 0.765	< 0.765	< 3.83	< 0.765	NA	< 0.69	NA	NA	< 0.68	NA	NA	NA	< 0.765	< 0.765	< 0.765	< 0.765	NA	< 0.66	NA
Chlorobenzilate	NA	NA	< 3.84	< 19.2	< 3.84	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.84	< 3.84	< 3.84	NA	NA	NA
Chrysene	NA	< 0.130	< 0.13	< 0.65	< 0.130	< 0.038	< 0.49	< 9.2	< 0.040	< 0.039	< 0.044	< 0.050	NA	< 0.130	< 0.13	< 0.13	< 0.130	< 0.038	< 0.47	NA
Diallate	NA	< 0.524	< 0.524	< 2.62	< 0.524	NA	< 3.0	NA	NA	< 3.0	NA	NA	NA	< 0.524	< 0.524	< 0.524	< 0.524	NA	< 2.9	NA
Dibenzo(a,h)anthracene	NA	< 0.0644	< 0.0644	< 0.322	< 0.0644	NA	< 1.2	NA	NA	< 1.2	NA	NA	NA	< 0.0644	< 0.0644	< 0.0644	< 0.0644	NA	< 1.1	NA
Dibenzofuran	NA	< 0.0970	< 0.097	< 0.485	< 0.0970	< 0.16	< 0.52	< 1.2	< 0.52	< 0.51	< 0.57	< 0.65	NA	< 0.0970	< 0.097	< 0.097	< 0.0970	< 0.16	< 0.5	NA
Diethyl phthalate	NA	< 0.287	< 0.287	< 1.43	< 0.287	NA	< 0.7	NA	NA	< 0.69	NA	NA	NA	< 0.287	< 0.287	< 0.287	0.70 J	NA	< 0.67	NA
Dimethyl phthalate	NA	< 0.260	< 0.26	< 1.3	< 0.260	NA	< 0.6	NA	NA	< 0.59	NA	NA	NA	< 0.260	< 0.26	< 0.26	< 0.260	NA	< 0.57	NA
Di-n-butyl phthalate	NA	< 0.453	< 0.453	< 2.27	< 0.453	NA	NA	NA	NA	< 2.7	NA	NA	NA	< 0.453	< 0.453	< 0.453	< 0.453	NA	NA	NA
Di-n-octyl phthalate	NA	< 0.932	< 0.932	< 4.66	< 0.932	< 0.16	< 0.44	< 0.44	< 0.44	< 0.43	< 0.48	< 0.55	NA	< 0.932	< 0.932	< 0.932	< 0.932	< 0.16	< 0.42	NA
Dinoseb	NA	< 8.01	< 8.01	< 40.1	< 8.01	NA	NA	NA	NA	< 3.0	NA	NA	NA	< 8.01	< 8.01	< 8.01	< 8.01	NA	NA	NA
Diphenylamine	NA	< 2.37	< 2.37	< 11.9	< 2.37	NA	< 3.0	NA	NA	< 3.0	NA	NA	NA	< 2.37	< 2.37	< 2.37	< 2.37	NA	< 2.9	NA
Ethyl methanesulfonate	NA	< 0.326	< 0.326	< 1.63	< 0.326	NA	< 3.0	NA	NA	< 3.0	NA	NA	NA	< 0.326	< 0.326	< 0.326	< 0.326	NA	< 2.9	NA
Fluoranthene	NA	0.908 J	1.95	1.19 J	1.64	< 0.019	< 0.77	< 0.020	< 0.020	< 0.02	< 0.022	< 0.025	NA	< 0.102	< 0.102	< 0.102	< 0.102	1.2	1.2 J	NA
Fluorene	NA	32.0	62.4	36.1	53.1	< 0.02	< 0.56	< 0.021	< 0.021	< 0.021	< 0.023	< 0.026	NA	< 0.0844	< 0.0844	< 0.0844	< 0.0844	1.1	0.87 J	NA
Hexachlorobenzene	NA	< 0.0755	< 0.0755	< 0.378	< 0.0755	NA	< 0.25	NA	NA	< 0.25	NA	NA	NA	< 0.0755	< 0.0755	< 0.0755	< 0.0755	NA	< 0.24	NA
Hexachlorobutadiene	NA	< 0.0968	< 0.0968	< 0.484	< 0.0968	NA	< 3.6	NA	NA	< 3.6	NA	NA	NA	< 0.0968	< 0.0968	< 0.0968	< 0.0968	NA	< 3.4	NA
Hexachlorocyclopentadiene	NA	< 0.0598	< 0.0598	< 0.299	< 0.0598	NA	< 2.6	NA	NA	< 2.6	NA	NA	NA	< 0.0598	< 0.0598	< 0.0598	< 0.0598	NA	< 2.5	NA
Hexachloroethane	NA	< 0.127	< 0.127	< 0.635	< 0.127	< 4.0	< 4.2	< 4.8	< 4.2	< 4.1	< 4.6	< 5.3	NA	< 0.127	< 0.127	< 0.127	< 0.127	< 4.0	< 4.0	NA
Hexachlorophene	NA	< 1.44	< 1.44	< 7.2	< 1.44	NA	< 100	NA	NA	< 99	NA	NA	NA	< 1.44	< 1.44	< 1.44	< 1.44	NA	< 95	NA
Hexachloropropene	NA	< 0.149	< 0.149	< 0.745	< 0.149	NA	< 2.0	NA	NA	< 2.0	NA	NA	NA	< 0.149	< 0.149	< 0.149	< 0.149	NA	< 1.9	NA
Indeno(1,2,3-cd)pyrene	NA	< 0.279	< 0.279	< 1.4	< 0.279	< 0.038	< 1.0	< 0.092	< 0.040	< 0.039	< 0.044	< 0.050	NA	< 0.279	< 0.279	< 0.279	< 0.279	< 0.038	< 0.97	NA
Isodrin	NA	< 4.11	< 4.11	< 20.5	< 4.11	NA	< 3.0	NA	NA	< 3.0	NA	NA	NA	< 4.11	< 4.11	< 4.11	< 4.11	NA	< 2.9	NA
Isophorone	NA	< 0.143	< 0.143	< 0.715	< 0.143	NA	< 0.57	NA	NA	< 0.56	NA	NA	NA	< 0.143	< 0.143	< 0.143	< 0.143	NA	< 0.54	NA
Isosafrole	NA	< 3.88	< 3.88	< 19.4	< 3.88	NA	< 3.0	NA	NA	< 3.0	NA	NA	NA	< 3.88	< 3.88	< 3.88	< 3.88	NA	< 2.9	NA
Kepone	NA	< 2.66	< 2.66	< 13.3 R	< 2.66	NA	< 0.2	NA	NA	< 0.2	NA	NA	NA	< 2.66	< 2.66	< 2.66 R	< 2.66	NA	< 0.19	NA
Methapyrilene	NA	< 10.0	< 10	< 50	< 10.0	NA	< 8.0	NA	NA	< 7.9	NA	NA	NA	< 10.0	< 10	< 10	< 10.0	NA	< 7.6	NA
Methyl methanesulfonate	NA	< 3.40	< 3.4	< 17	< 3.40	NA	< 3.0	NA	NA	< 3.0	NA	NA	NA	< 3.40	< 3.4	< 3.4	< 3.40	NA	< 2.9	NA
Naphthalene	NA	1.71	3.0	1.74 J	1.53	< 0.019	< 0.63	< 0.62	< 0.020	< 0.02	0.023 J	< 0.025	NA	< 0.159	< 0.159	< 0.159	< 0.159	0.3	< 0.6	NA

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	8-I 9/16/2019 Resample	8-I 6/12/2020	8-I 6/15/2021	8-I 6/22/2022 App. IX Well	8-I 6/13/2023	8-S 6/26/2013	8-S 6/18/2014	8-S 6/3/2015	8-S 6/22/2016	8-S 6/12/2017 App. IX Well	8-S 6/9/2018	8-S 6/13/2019	8-S 9/16/2019 Resample	8-S 6/11/2020	8-S 6/15/2021	8-S 6/21/2022 App. IX Well	8-S 6/13/2023	9-I 6/27/2013	9-I 6/20/2014	9-I 9/4/2014 Resample
Nitrobenzene	NA	< 0.297	< 0.297	< 1.48	< 0.297	NA	< 0.55	NA	NA	< 0.54	NA	NA	NA	< 0.297	< 0.297	< 0.297	< 0.297	NA	< 0.52	NA
N-Nitrosodiethylamine	NA	< 3.57	< 3.57	< 17.9	< 3.57	NA	< 4.8	NA	NA	< 4.7	NA	NA	NA	< 3.57	< 3.57	< 3.57	< 3.57	NA	< 4.6	NA
N-Nitrosodimethylamine	NA	< 0.998	< 0.998	< 4.99	< 0.998	NA	< 3.5	NA	NA	< 3.5	NA	NA	NA	< 0.998	< 0.998	< 0.998	< 0.998	NA	< 3.3	NA
N-Nitrosodi-n-butylamine	NA	< 3.91	< 3.91	< 19.6	< 3.91	NA	< 4.3	NA	NA	< 4.2	NA	NA	NA	< 3.91	< 3.91	< 3.91	< 3.91	NA	< 4.1	NA
N-Nitrosodi-n-propylamine	NA	< 0.261	< 0.261	< 1.31	< 0.261	NA	< 3.3	NA	NA	< 3.3	NA	NA	NA	< 0.261	< 0.261	< 0.261	< 0.261	NA	< 3.1	NA
N-Nitrosodiphenylamine	NA	< 2.37	< 2.37	< 11.9	< 2.37	< 0.17	< 0.47	< 1.0	< 0.47	< 0.46	< 0.51	< 0.59	NA	< 2.37	< 2.37	< 2.37	< 2.37	< 0.17	< 0.45	NA
N-Nitrosomethylethylamine	NA	< 3.25	< 3.25	< 16.3	< 3.25	NA	< 3.0	NA	NA	< 3.0	NA	NA	NA	< 3.25	< 3.25	< 3.25	< 3.25	NA	< 2.9	NA
N-Nitrosomorpholine	NA	< 3.25	< 3.25	< 16.3	< 3.25	NA	< 4.0	NA	NA	< 3.9	NA	NA	NA	< 3.25	< 3.25	< 3.25	< 3.25	NA	< 3.8	NA
N-Nitrosopiperidine	NA	< 3.72	< 3.72	< 18.6	< 3.72	NA	< 4.0	NA	NA	< 3.9	NA	NA	NA	< 3.72	< 3.72	< 3.72	< 3.72	NA	< 3.8	NA
N-Nitrosopyrrolidine	NA	< 3.39	< 3.39	< 16.9	< 3.39	NA	< 5.0	NA	NA	< 4.9	NA	NA	NA	< 3.39	< 3.39	< 3.39	< 3.39	NA	< 4.8	NA
O,O,O-Triethyl Phosphorothioate	NA	NA	< 2.93	< 14.6	< 2.93	NA	< 4.0	NA	NA	< 3.9	NA	NA	NA	NA	< 2.93	< 2.93	< 2.93	NA	< 3.8	NA
Pentachlorobenzene	NA	< 4.15	< 4.15	< 20.8	< 4.15	NA	< 2.0	NA	NA	< 2.0	NA	NA	NA	< 4.15	< 4.15	< 4.15	< 4.15	NA	< 1.9	NA
Pentachloroethane	NA	NA	NA	NA	NA	NA	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.9	NA
Pentachloronitrobenzene	NA	< 4.15	< 4.15	< 20.8	< 4.15	NA	< 3.0	NA	NA	< 3.0	NA	NA	NA	< 4.15	< 4.15	< 4.15	< 4.15	NA	< 2.9	NA
Pentachlorophenol	NA	< 0.313	< 0.313	< 1.57	< 0.313	< 1.3	< 1.8	< 1.8	< 1.8	< 1.8	< 2.0	< 2.3	NA	< 0.313	< 0.313	< 0.313	< 0.313	< 1.3	< 1.7	NA
Phenacetin	NA	< 4.66	< 4.66	< 23.3	< 4.66	NA	< 3.0	NA	NA	< 3.0	NA	NA	NA	< 4.66	< 4.66	< 4.66	< 4.66	NA	< 2.9	NA
Phenanthrene	NA	26.7	54.5	29.1	43.1	< 0.019	< 0.41	< 0.020	< 0.020	< 0.02	< 0.022	< 0.025	NA	< 0.112	< 0.112	< 0.112	< 0.112	20	24 J	NA
Phenol	NA	< 4.33	< 4.33	< 21.7	< 4.33	< 2.5	< 2.6	< 2.6	< 2.6	< 2.6	< 2.8	< 3.3	NA	< 4.33	< 4.33	< 4.33	< 4.33	< 2.5	< 2.5	NA
P-Phenylenediamine	NA	< 387 R	< 387 R	< 1940 R	< 387	NA	< 1.0	NA	NA	< 0.99	NA	NA	NA	< 387 R	< 387 R	< 387 R	< 387	NA	< 0.95	NA
Pronamide (Kerb)	NA	< 4.21	< 4.21	< 21.1	< 4.21	NA	< 3.0	NA	NA	< 3.0	NA	NA	NA	< 4.21	< 4.21	< 4.21	< 4.21	NA	< 2.9	NA
Pyrene	NA	0.421 J	0.815 J	0.541 J	< 0.107	0.041 J	< 1.1	< 0.020	< 0.020	< 0.02	0.028 J	0.041 U	NA	< 0.107	< 0.107	< 0.107	< 0.107	0.41	< 1.0	NA
Pyridine	NA	< 0.627	< 0.627	< 3.13	< 0.627	NA	< 3.2	NA	NA	< 3.2	NA	NA	NA	< 0.627	< 0.627	< 0.627	< 0.627	NA	< 3.0	NA
Safrole	NA	< 3.68	< 3.68	< 18.4	< 3.68	NA	< 4.0	NA	NA	< 3.9	NA	NA	NA	< 3.68	< 3.68	< 3.68	< 3.68	NA	< 3.8	NA
Sulfide - EPA846 376.1, SM4500-S2-D, mg/L																				
Sulfide	< 0.057 UJ	0.0075 J	0.019 J	< 0.0040	< 0.012	NA	0.047 J	< 0.036	< 0.036	< 0.057	< 0.057	< 0.057 R	< 0.057	< 0.0062	< 0.011	< 0.0040	< 0.012	NA	0.051 J	NA
Volatile Organic Compounds - SW846 8260B, 8260C, ug/L																				
1,1,1,2-Tetrachloroethane	NA	< 0.147	< 0.147	< 0.147	< 0.147	NA	< 0.52	NA	NA	< 0.52	NA	NA	NA	< 0.147	< 0.147	< 0.147	< 0.147	NA	< 0.52	NA
1,1,1-Trichloroethane	NA	< 0.149	< 0.149	< 0.149	< 0.149	NA	< 0.5	NA	NA	< 0.5	NA	NA	NA	< 0.149	< 0.149	< 0.149	< 0.149	NA	< 0.5	NA
1,1,2,2-Tetrachloroethane	NA	< 0.133	< 0.133	< 0.133	< 0.133	NA	< 0.5	NA	NA	< 0.5	NA	NA	NA	< 0.133	< 0.133	< 0.133	< 0.133	NA	< 0.5	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NA	< 0.180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.180	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	NA	< 0.158	< 0.158	< 0.158	< 0.158	NA	< 0.5	NA	NA	< 0.5	NA	NA	NA	< 0.158	< 0.158	< 0.158	< 0.158	NA	< 0.5	NA
1,1-Dichloroethane	NA	< 0.100	< 0.1	< 0.1	< 0.100	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.100	< 0.1	< 0.1	< 0.100	NA	< 0.5	NA
1,1-Dichloroethene	NA	< 0.188	< 0.188	< 0.188	< 0.188	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.188	< 0.188	< 0.188	< 0.188	NA	< 0.5	NA
1,1-Dichloropropene	NA	< 0.142	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.142	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	NA	< 0.230	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.230	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	NA	< 0.237	< 0.237	< 0.237	< 0.237	NA	< 0.84	NA	NA	< 0.84	NA	NA	NA	< 0.237	< 0.237	< 0.237	< 0.237	NA	< 0.84	NA
1,2,3-Trimethylbenzene	NA	4.21	4.01	NA	3.61	NA	NA	NA	NA	NA	NA	NA	NA	< 0.104	< 0.104	NA	< 0.104	NA	NA	NA
1,2,4-Trichlorobenzene	NA	< 0.481	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.481	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	NA	< 0.322	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.322	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NA	< 0.276	< 0.276	NA	NA	NA	< 1.5	NA	NA	< 1.5	NA	NA	NA	< 0.276	< 0.276	NA	NA	NA	< 1.5	NA
1,2-Dibromoethane (Ethylene dibromide)	NA	< 0.126	< 0.126	NA	NA	NA	< 0.5	NA	NA	< 0.5	NA	NA	NA	< 0.126	< 0.126	NA	NA	NA	< 0.5	NA
1,2-Dichlorobenzene	NA	< 0.107	NA	< 0.107	< 0.107	NA	NA	NA	NA	< 0.5	NA	NA	NA	< 0.107	NA	< 0.107	< 0.107	NA	NA	NA
1,2-Dichloroethane	NA	< 0.0819	< 0.0819	< 0.0819	< 0.0819	NA	< 0.5	NA	NA	< 0.5	NA	NA	NA	< 0.0819	< 0.0819	< 0.0819	< 0.0819	NA	< 0.5	NA
1,2-Dichloropropane	NA	< 0.149	< 0.149	< 0.149	< 0.149	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.149	< 0.149	< 0.149	< 0.149	NA	< 0.5	NA
1,3,5-Trimethylbenzene	NA	0.889 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.104	NA	NA	NA	NA	NA	NA
1,3-Butadiene	NA	< 0.299	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.299	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	< 0.110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.110	NA	NA	NA	NA	NA	NA
1,3-Dichloropropane	NA	< 0.110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.110	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	< 0.120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.120	NA	NA	NA	NA	NA	NA
1,4-Dioxane (p-Dioxane)	NA	< 36.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 36.0	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NA	< 73.0 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7.30 UJ	NA	NA	NA	NA	NA	NA
2,2,4-Trimethylpentane	NA	< 0.391	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.391	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	NA	< 0.161	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.161	NA	NA	NA	NA	NA	NA
2-Butanone (Methyl ethyl ketone)	NA	< 1.19	< 1.19	< 1.19	< 1.19	NA	< 2.6	NA	NA	< 2.6	NA	NA	NA	< 1.19	< 1.19	< 1.19	< 1.19	NA	< 2.6	NA
2-Chloro-1,3-Butadiene	NA	< 1.45	< 1.45	< 1.45	< 1.45	NA	< 0.7	NA	NA	< 0.7	NA	NA	NA	< 1.45	< 1.45	< 1.45	< 1.45	NA	< 0.7	NA
2-Chloroethyl vinyl ether	NA	< 0.575	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.575	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	NA	< 0.106	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.106	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	< 0.787	< 0.787	< 0.787	< 0.787	NA	< 3.1	NA	NA	< 3.1	NA	NA	NA	< 0.787	< 0.787	< 0.787	< 0.787	NA	< 3.1	NA
2-Methyl-1-Propanol (isobutyl alcohol)	NA	< 42.1	< 42.1	< 42.1	< 42.1	NA	< 8.5	NA	NA	< 10	NA	NA	NA	< 42.1	< 42.1	< 42.1	< 42.1	NA	< 8.5	NA
2-Methyl-2-Butanol	NA	< 4.90	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.90	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	< 71.8 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7.18 UJ	NA	NA	NA	NA	NA	NA
2-Nitropropane	NA	< 1.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.75	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	NA	< 0.114	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.114	NA	NA	NA	NA	NA	NA
4-Isopropyltoluene (Cymene)	NA	0.179 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.120	NA	NA	NA	NA	NA	NA
Acetone	NA	< 11.3	< 11.3	< 11.3	< 11.3	NA	< 10	< 10	< 10	< 10	< 10	< 10	NA	< 11.3	< 11.3	< 11.3	< 11.3	NA	< 10	NA
Acetonitrile	NA	< 24.0	< 24	< 24	< 24.0	NA	< 12	NA	NA	< 12	NA	NA	NA	< 24.0	< 24	< 24	< 24.0	NA	< 12	NA
Acrolein	NA	< 2.54	< 2.54	< 2.54	< 2.54	NA	< 10	NA	NA	< 10	NA	NA	NA	< 2.54	< 2.54	< 2.54	< 2.54	NA	< 10	NA
Acrylonitrile	NA	< 0.671	< 0.671	< 0.671	< 0.671	NA	< 2.8	NA	NA	< 2.8	NA	NA	NA	< 0.671	< 0.671	< 0.671	< 0.671	NA	< 2.8	NA
Allyl chloride (3-Chloropropene)	NA	< 0.500	< 0.5	< 0.5	< 0.500	NA	< 1.0	NA	NA	< 1.0	NA	NA	NA	< 0.500	< 0.5	< 0.5	< 0.500	NA	< 1.0	NA
Benzene	NA	2.92	1.31	2.37	1.76	< 0.34	< 0.34	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	NA	< 0.0941	< 0.0941	< 0.0941	< 0.0941	9.1	11 J	NA
Bromobenzene	NA	< 0.118	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.118	NA	NA	NA	NA	NA	NA
Bromodichloromethane (Dichlorobromomethane)	NA	< 0.136	< 0.136	< 0.136	< 0.136	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.136	< 0.136	< 0.136	< 0.136	NA	< 0.5	NA
Bromoform (Tribromomethane)	NA	< 0.129	< 0.129	< 0.129	< 0.129	NA	< 0.71	NA	NA	< 0.71	NA	NA	NA	< 0.129	< 0.129	< 0.129	< 0.129	NA	< 0.71	NA
Bromomethane (Methyl bromide)	NA	< 0.605	< 0.605	< 0.605	< 0.605	NA	< 0.98	NA	NA	< 0.98	NA	NA	NA	< 0.605	< 0.605	< 0.605	< 0.605	NA	< 0.98	NA
Carbon disulfide	NA	< 0.0962	< 0.0962	< 0.0962	< 0.0962	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.0962	< 0.0962	1.85	< 0.0962	NA	< 0.5	NA
Carbon tetrachloride	NA	< 0.128	< 0.128	< 0.128	< 0.128	NA	< 0.5	NA	NA	< 0.5	NA	NA	NA	< 0.128	< 0.128	< 0.128	< 0.128	NA	< 0.5	NA
Chlorobenzene	NA	< 0.116	< 0.116	< 0.116	< 0.116	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.116	< 0.116	< 0.116	< 0.116	NA	< 0.5	NA
Chlorobromomethane (Bromochloromethane)	NA	< 0.128	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.128	NA	NA	NA	NA	NA	NA
Chlorodibromomethane (Dibromochloromethane)	NA	< 0.140	< 0.14	< 0.14	< 0.140	NA	< 0.5	NA	NA	< 0.5	NA	NA	NA	< 0.140	< 0.14	< 0.14	< 0.140	NA	< 0.5	NA

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	8-I 9/16/2019 Resample	8-I 6/12/2020	8-I 6/15/2021	8-I 6/22/2022 App. IX Well	8-I 6/13/2023	8-S 6/26/2013	8-S 6/18/2014	8-S 6/3/2015	8-S 6/22/2016	8-S 6/12/2017 App. IX Well	8-S 6/9/2018	8-S 6/13/2019	8-S 9/16/2019 Resample	8-S 6/11/2020	8-S 6/15/2021	8-S 6/21/2022 App. IX Well	8-S 6/13/2023	9-I 6/27/2013	9-I 6/20/2014	9-I 9/4/2014 Resample
Chloroethane	NA	< 0.192	< 0.192	< 0.192	< 0.192	NA	< 0.76	NA	NA	< 0.76	NA	NA	NA	< 0.192	< 0.192	< 0.192	< 0.192	NA	< 0.76	NA
Chloroform	NA	< 0.111	< 0.111	< 0.111	< 0.111	NA	< 0.6	< 0.60	< 0.60	< 0.6	< 0.6	< 0.60	NA	< 0.111	< 0.111	< 0.111	< 0.111	NA	< 0.6	NA
Chloromethane (Methyl chloride)	NA	< 0.960	< 0.96	< 0.96	< 0.960	NA	< 0.83	NA	NA	< 0.83	NA	NA	NA	< 0.960	< 0.96	< 0.96	< 0.960	NA	< 0.83	NA
cis-1,2-Dichloroethene	NA	< 0.126	< 0.126	< 0.126	< 0.126	NA	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.126	< 0.126	< 0.126	< 0.126	NA	NA	NA
cis-1,3-Dichloropropene	NA	< 0.111	< 0.111	< 0.111	< 0.111	NA	< 0.5	NA	NA	< 0.5	NA	NA	NA	< 0.111	< 0.111	< 0.111	< 0.111	NA	< 0.5	NA
Cyclohexane	NA	< 0.188	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.188	NA	NA	NA	NA	NA	NA
Cyclohexanone	NA	< 3.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.40	NA	NA	NA	NA	NA	NA
Dibromomethane (Methylene bromide)	NA	< 0.122	< 0.122	< 0.122	< 0.122	NA	< 0.59	NA	NA	< 0.59	NA	NA	NA	< 0.122	< 0.122	< 0.122	< 0.122	NA	< 0.59	NA
Dichlorodifluoromethane (Freon 12)	NA	< 0.374	< 0.374	< 0.374	< 0.374	NA	< 0.85	NA	NA	< 0.85	NA	NA	NA	< 0.374	< 0.374	< 0.374	< 0.374	NA	< 0.85	NA
Dichloromonofluoromethane	NA	0.198 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.130	NA	NA	NA	NA	NA	NA
Dicyclopentadiene	NA	< 0.253	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.253	NA	NA	NA	NA	NA	NA
Ethanol	NA	< 42.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 42.0	NA	NA	NA	NA	NA	NA
Ethyl acetate	NA	< 3.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.59	NA	NA	NA	NA	NA	NA
Ethyl methacrylate	NA	< 1.48	< 1.48	< 1.48	< 1.48	NA	< 0.6	NA	NA	< 0.6	NA	NA	NA	< 1.48	< 1.48	< 1.48	< 1.48	NA	< 0.6	NA
Ethylbenzene	NA	0.657 J	0.596 J	0.64 J	< 0.173	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.137	< 0.173	< 0.173	< 0.173	NA	< 0.5	NA
Hexachlorobutadiene	NA	< 0.337	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.337	NA	NA	NA	NA	NA	NA
Hexachloroethane	NA	< 0.316	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.316	NA	NA	NA	NA	NA	NA
Iodomethane (Methyl iodide)	NA	< 6.00	< 6	< 6	< 6.00	NA	< 0.68	NA	NA	< 0.9	NA	NA	NA	< 6.00	< 6	< 6	< 6.00	NA	< 0.68	NA
Isopropyl alcohol	NA	165 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.65	NA	NA	NA	NA	NA	NA
Isopropyl ether	NA	< 0.105	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.105	NA	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	NA	7.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.105	NA	NA	NA	NA	NA	NA
m+p-Xylenes	NA	17.2	19.7	17.1	13.2	NA	NA	NA	NA	NA	NA	NA	NA	< 0.430	< 0.43	< 0.43	< 0.430	NA	NA	NA
Methyl acetate	NA	< 1.29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.29	NA	NA	NA	NA	NA	NA
Methyl isobutyl ketone (4-Methyl-2-pentanone)	NA	< 0.478	< 0.478	< 0.478	< 0.478	NA	< 1.8	NA	NA	< 1.8	NA	NA	NA	< 0.478	< 0.478	< 0.478	< 0.478	NA	< 1.8	NA
Methyl methacrylate	NA	< 1.52	< 1.52 UJ	< 1.52	< 1.52	NA	< 5.0	NA	NA	< 5.0	NA	NA	NA	< 1.52	< 1.52	< 1.52	< 1.52	NA	< 5.0	NA
Methyl tertiary butyl ether (MTBE)	NA	< 0.101	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.101	NA	NA	NA	NA	NA	NA
Methylacrylonitrile	NA	< 14.2	< 14.2	< 14.2	< 14.2	NA	< 6.0	NA	NA	< 6.0	NA	NA	NA	< 14.2	< 14.2	< 14.2	< 14.2	NA	< 6.0	NA
Methylcyclohexane	NA	< 0.660	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.660	NA	NA	NA	NA	NA	NA
Methylene chloride (Dichloromethane)	NA	< 0.430	< 0.43	< 0.43	< 0.430	NA	< 3.0	NA	NA	< 3.0	NA	NA	NA	< 0.430	< 0.43	< 0.43	< 0.430	NA	< 3.0	NA
Naphthalene	NA	4.05 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.00	NA	NA	NA	NA	NA	NA
n-Butyl alcohol	NA	< 150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 150	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NA	< 0.157	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.157	NA	NA	NA	NA	NA	NA
n-Heptane	NA	< 0.373	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.373	NA	NA	NA	NA	NA	NA
n-Hexane	NA	< 0.749	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.749	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NA	2.23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0993	NA	NA	NA	NA	NA	NA
o-Xylene	NA	0.802 J	0.761 J	0.732 J	0.550 J	NA	NA	NA	NA	NA	NA	NA	NA	< 0.174	< 0.174	< 0.174	< 0.174	NA	NA	NA
Pentachloroethane	NA	< 23.0	< 2.3	< 2.3	< 2.30	NA	NA	NA	NA	< 0.6	NA	NA	NA	< 2.30	< 2.3	< 2.3 R	< 2.30	NA	NA	NA
Propionitrile	NA	< 16.2	< 16.2	< 16.2	< 16.2	NA	< 7.0	NA	NA	< 7.0	NA	NA	NA	< 16.2	< 16.2	< 16.2	< 16.2	NA	< 7.0	NA
Propylene (Propene)	NA	< 0.936	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.936	NA	NA	NA	NA	NA	NA
sec-Butylbenzene (2-Phenylbutane)	NA	< 0.125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.125	NA	NA	NA	NA	NA	NA
Styrene	NA	< 0.118	< 0.118	< 0.118	< 0.118	NA	< 1.0	NA	NA	< 1.0	NA	NA	NA	< 0.118	< 0.118	< 0.118	< 0.118	NA	< 1.0	NA
tert-Amyl methyl ether	NA	< 0.195	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.195	NA	NA	NA	NA	NA	NA
Tert-buty formate	NA	< 4.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.51	NA	NA	NA	NA	NA	NA
tert-Butyl alcohol	NA	< 4.06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.06	NA	NA	NA	NA	NA	NA
tert-Butyl ethyl ether	NA	< 0.101	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.101	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	NA	< 0.127	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.127	NA	NA	NA	NA	NA	NA
Tetrachloroethene (PCE)	NA	< 0.300	< 0.3	< 0.3	< 0.300	NA	< 0.58	NA	NA	< 0.58	NA	NA	NA	< 0.300	< 0.3	< 0.3	< 0.300	NA	< 0.58	NA
Tetrahydrofuran	NA	< 0.929	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.929	NA	NA	NA	NA	NA	NA
Toluene	NA	0.573 J	0.572 J	0.497 J	0.345 J	NA	< 0.7	< 0.70	< 0.70	< 0.7	< 0.7	< 0.41	NA	< 0.278	< 0.278	< 0.278	< 0.278	NA	< 0.7	NA
trans-1,2-Dichloroethene	NA	< 0.149	< 0.149	< 0.149	< 0.149	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.149	< 0.149	< 0.149	< 0.149	NA	< 0.5	NA
trans-1,3-Dichloropropene	NA	< 0.118	< 0.118	< 0.118	< 0.118	NA	< 0.5	NA	NA	< 0.5	NA	NA	NA	< 0.118	< 0.118	< 0.118	< 0.118	NA	< 0.5	NA
trans-1,4-Dichlorobutene	NA	< 0.467	< 0.467	< 0.467	< 0.467	NA	< 1.0	NA	NA	< 1.0	NA	NA	NA	< 0.467	< 0.467	< 0.467	< 0.467	NA	< 1.0	NA
Trichloroethene (TCE)	NA	< 0.190	< 0.19	< 0.19	< 0.190	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.190	< 0.19	< 0.19	< 0.190	NA	< 0.5	NA
Trichlorofluoromethane (Freon 11)	NA	< 0.160	< 0.16	< 0.16	< 0.160	NA	< 0.52	NA	NA	< 0.52	NA	NA	NA	< 0.160	< 0.16	< 0.16	< 0.160	NA	< 0.52	NA
Vinyl acetate	NA	< 0.692	< 0.692	< 0.692	< 0.692	NA	< 2.0	NA	NA	< 2.0	NA	NA	NA	< 0.692	< 0.692	< 0.692	< 0.692	NA	< 2.0	NA
Vinyl chloride	NA	< 0.234	< 0.234	< 0.234	< 0.234	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	NA	< 0.234	< 0.234	< 0.234	< 0.234	NA	4.3	3.9
Xylenes, Total	NA	18.0	20.5	17.8	13.8	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	NA	< 0.174	< 0.174	< 0.174	< 0.174	2.5 J	2.1 J	NA

Notes:
mg/L = milligrams per liter
pg/L = picograms per liter
ug/L = micrograms per liter
2014 event performed in accordance with previous permit, with Appendix IX sampling at all program wells every 5 years; subsequent events perfomed annually at rotating list of wells per current permit

Data Qualifier Definitions:
B = The analyte was positively identified, the associated numerica value is estimated due to blank contamination
I = Interference present
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
NA = Not Analyzed
R = The sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified
U = The analyte was analyzed for but was not detected at a concentration greater than the reported sample quantitation limit
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample
< = Not detected at or above the associated Method Detection Limit
As described in annual CMERs, the constituents presented represent the established permit list in effect at time of sampling, and varies annually based on additional Appendix IX detections.
DQE flags may vary by lab and based on professional judgement applied by DQE analyst.

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID:	9-I	9-I	9-I	9-I	9-I	9-I	9-I	9-I	9-I	15-D	15-D	15-D	15-D	15-D	15-D	15-D	15-D	15-D	15-D	15-D
Sample Date:	6/5/2015	6/21/2016	6/5/2017	6/6/2018	6/26/2019	6/11/2020	6/14/2021	6/20/2022	6/13/2023	6/26/2013	6/17/2014	6/17/2014	6/3/2015	6/22/2016	6/12/2017	6/8/2018	6/8/2018	6/11/2019	6/11/2020	6/14/2021
Sample Type:				App. IX Well					App. IX Well			Duplicate		App. IX Well			Duplicate			App. IX Well
1,2-Dibromoethane - SW846 8011, ug/L																				
1,2-Dibromo-3-Chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	< 0.00755	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.00748
1,2-Dibromoethane (Ethylene dibromide)	NA	NA	NA	NA	NA	NA	NA	NA	< 0.00541	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.00536
Chlorinated Herbicides - SW846 8151, 8151A, 8321, ug/L																				
2,2-Dichloropropionic acid (Dalapon)	NA	NA	NA	NA	NA	< 0.344	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.344	NA
2,4,5-T	NA	NA	NA	< 0.016	NA	< 0.258	< 0.258	NA	< 0.573	NA	< 0.04	< 0.04	NA	< 0.080	NA	NA	NA	NA	< 0.258	< 0.258
2,4,5-TP (Silvex)	< 0.018	< 0.036	< 0.0036	< 0.0073	< 0.0073	< 0.335	< 0.335	< 0.335	< 0.807	NA	< 0.018	< 0.018	0.081 J	< 0.036	< 0.0036	< 0.0073	< 0.0073	< 0.0073	< 0.335	< 0.335
2,4-D	NA	NA	NA	< 0.1	NA	< 0.547	< 0.547	NA	< 1.00	NA	< 0.26	< 0.26	NA	< 0.52	NA	NA	NA	NA	< 0.547	< 0.547
2,4-DB	NA	NA	NA	NA	NA	< 0.302	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.302	NA
Dicamba	NA	NA	NA	NA	NA	< 0.245	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.245	NA
Dichlorprop	NA	NA	NA	NA	NA	< 1.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.04	NA
Dinoseb	NA	NA	NA	NA	NA	< 0.250	NA	NA	NA	NA	< 0.16	< 0.16	NA	NA	NA	NA	NA	NA	< 0.250	NA
MCPA (2-Methyl-4-Chlorophenoxyacetic acid)	NA	NA	NA	NA	NA	< 13.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 13.1	NA
MCPP	NA	NA	NA	NA	NA	< 66.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 66.0	NA
Cyanide - EPA 846 9012A, EPA 335.2, 335.4, mg/L																				
Cyanide	NA	NA	NA	< 0.0035	NA	NA	NA	0.0021 U	< 0.0069	NA	< 0.0035	< 0.0035	NA	< 0.0035	NA	NA	NA	NA	NA	< 0.0012
Dioxins/Furans - SW846 8290, 8290A, pg/L																				
1,2,3,4,6,7,8,9-OCDD (OCDD)	4.1 J	4.2 J	7.6 J	3.1 J	6.6 J	< 10	22 BJ U	< 2.9	< 5.9	NA	NA	NA	16 J	22 J	16 J	5.3 J	1.4 J	11 UJ	< 4.7	< 9.5 IJ U
1,2,3,4,6,7,8,9-OCDF (OCDF)	2.3 J	0.85 J	< 1.1	4.6 J	< 1.5	< 4.7	< 7.8	< 1.5	< 5.1	NA	NA	NA	0.73 J	3.0 J	6.7 J	4.3 J	< 1.0	< 2.4	< 5.6	< 7.6
1,2,3,4,6,7,8-HpCDD	0.84 J	0.54 J	1.2 J	0.71 J	< 0.76	< 2.8	< 4.9	< 0.98	< 1.6	NA	NA	NA	2.2 J	1.7 J	4.2 J	1.1 J	< 0.56	< 0.96	< 4.6	< 5.7
1,2,3,4,6,7,8-HpCDF	0.59 J	< 0.21	< 0.9	1.8 J	< 0.91	< 2.1	< 3.3	< 1.4	< 3.1	NA	NA	NA	< 0.21	< 0.36	3.2 J	1.5 J	< 0.64	< 1.3	< 2.1	< 2.5
1,2,3,4,7,8,9-HpCDF	NA	NA	< 1.1	12 J	< 1.1	< 3.1	< 6.8	< 1.5	< 3.3	NA	NA	NA	NA	< 0.46	< 0.81	7.5 J	2.7 J	< 1.5	< 3.2	< 4.0
1,2,3,4,7,8-HxCDD	NA	NA	NA	1.5 J	< 1.1	< 1.5	< 3.2	< 0.79	< 2.7	NA	< 1.0	< 0.81	NA	< 0.33	NA	NA	NA	< 1.3	< 1.2	< 3.2
1,2,3,4,7,8-HxCDF	NA	NA	NA	1.5 J	< 1.1	< 1.0	< 2.7	< 0.37	< 1.4	NA	< 0.78	< 0.57	NA	< 0.33	NA	NA	NA	< 1.3	< 1.2	< 3.4
1,2,3,6,7,8-HxCDD	NA	NA	NA	< 0.16	< 0.98	< 0.83	< 4.3	< 1.2	< 2.5	NA	< 1.0	< 0.8	NA	< 0.32	NA	NA	NA	< 1.2	< 1.6	< 3.1
1,2,3,6,7,8-HxCDF	NA	NA	NA	< 0.24	< 1.0	< 0.83	< 2.5	< 0.45	< 1.6	NA	< 0.71	< 0.52	NA	< 0.30	NA	NA	NA	< 1.2	< 0.81	< 3.3
1,2,3,7,8,9-HxCDD	NA	NA	NA	< 0.15	< 0.97	< 1.3	< 3.6	< 1.1	< 2.6	NA	< 0.92	< 0.73	NA	< 0.28	NA	NA	NA	< 1.2	< 2.4	< 2.8
1,2,3,7,8,9-HxCDF	NA	NA	NA	6.2 J	5.2 U	< 1.1	< 4.0	< 0.52	< 1.9	NA	< 0.82	< 0.6	NA	< 0.33	NA	NA	NA	< 1.5	< 1.4	< 3.9
1,2,3,7,8-PeCDD	NA	NA	NA	< 0.21	< 1.8	< 2.2	< 3.3	< 0.61	< 1.0	NA	< 5.8	< 1.7	NA	< 0.43	NA	NA	NA	< 1.7	< 1.3	< 4.2
1,2,3,7,8-PeCDF	NA	NA	NA	< 0.18	< 1.2	< 1.5	< 3.2	< 0.63	< 1.7	NA	< 5.6	< 1.6	NA	< 0.32	NA	NA	NA	< 1.2	< 0.7	< 3.1
2,3,4,6,7,8-HxCDF	NA	NA	NA	< 0.26	< 1.1	< 0.98	< 1.9	< 0.47	< 1.1	NA	< 0.75	< 0.55	NA	< 0.32	NA	NA	NA	< 1.3	< 1.1	< 1.7
2,3,4,7,8-PeCDF	NA	NA	NA	< 0.19	< 1.2	< 0.42	< 2.1	< 0.37	< 1.1	NA	< 5.8	< 1.6	NA	< 0.33	NA	NA	NA	< 1.2	< 1.1	< 2.5
2,3,7,8-TCDD	NA	NA	NA	< 0.21	< 1.0	< 1.7	< 9.5	< 0.95	< 2.6	NA	< 1.8	< 1.2	NA	< 0.36	NA	NA	NA	< 1.4	< 1.5	< 8.5
2,3,7,8-TCDF	NA	NA	NA	0.71 J	< 0.84	< 1.2	< 6.4	< 0.45	< 1.8	NA	< 1.4	< 0.75	NA	< 0.31	NA	NA	NA	< 0.94	< 1.6	< 6.2
TEQ-WHO 2005	NA	NA	NA	NA	NA	NA	NA	NA	< 0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total HpCDD	2.0 J	1.4 J	1.2 J	1.9 J	< 1.8	< 2.8	< 4.9	< 0.98	< 1.6	NA	NA	NA	3.7 J	3.3 J	7.6 J	2.7 J	< 0.56	2.5 J	< 4.6	< 5.7
Total HpCDF	1.0 J	< 0.21	< 1.1	25 J	< 1.1	< 2.1	< 3.3	< 1.4	< 3.1	NA	NA	NA	< 0.21	< 0.46	3.2 J	13 J	2.7 J	< 1.5	< 2.1	< 2.5
Total HxCDD	0.62 J	< 0.27	1.0 J	2.6 J	< 1.1	< 1.3	< 3.2	< 0.79	< 2.5	NA	< 1.0	< 0.81	< 1.9	< 0.33	7.2 J	4.2 J	2.6 J	< 1.3	< 1.2	< 2.8
Total HxCDF	< 0.0019	< 1.9	2.4 J	14 J	5.2 U	< 0.83	< 1.9	< 0.37	< 1.1	NA	< 0.82	< 0.6	< 1.9	< 0.33	6.0 J	12 J	5.6 J	< 1.5	< 0.81	< 1.7
Total PeCDD	NA	NA	NA	< 0.21	< 1.8	< 2.2	< 3.3	< 0.61	< 1.0	NA	< 5.8	< 1.7	NA	< 0.43	NA	NA	NA	< 1.7	< 1.3	< 4.2
Total PeCDF	NA	NA	NA	0.61 J	< 1.2	< 0.42	< 2.1	< 0.37	< 1.1	NA	< 5.8	< 1.6	NA	< 0.33	NA	NA	NA	< 1.2	< 0.7	< 2.5
Total TCDD	< 0.18	< 1.9	< 0.49	< 0.21	1.2 UJ	< 1.7	< 9.5	< 0.95	< 2.6	NA	4.1 J	< 1.2	2.7 J	1.4 J	2.4 J	3.6 J	1.1 J	< 1.4	< 1.5	< 8.5
Total TCDF	NA	NA	NA	1.2 J	< 0.84	< 1.2	< 6.4	< 0.45	< 1.8	NA	< 1.4	< 0.75	NA	< 0.31	NA	NA	NA	< 0.94	< 1.6	< 6.2
Mercury, Total - SW846 7470, 7470A, mg/L																				
Mercury	< 0.00007	< 0.000070	< 0.00007	< 0.00007	< 0.000070	NA	< 0.00010	< 0.00010	< 0.00010	NA	< 0.000091	< 0.000091	0.00089	< 0.000070	< 0.00007	< 0.00007	< 0.00007	< 0.000070	NA	< 0.00010
Metals, Total - SW846 6010C, 6020, 6020A, mg/L																				
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	NA	NA	NA	< 0.0002	NA	NA	< 0.00063	< 0.00063	0.0011	NA	< 0.01	< 0.01	NA	< 0.0010	NA	NA	NA	NA	NA	< 0.0032
Arsenic	0.0029	0.0032	0.0031	0.0046	0.0051	0.0053	0.0046	0.0031	0.0014	0.0051	0.0054 J	< 0.004	0.0017	< 0.00046	0.0036	0.002	0.00053	0.0017	0.0024	0.0035 J
Barium	0.01	0.0087	0.01	0.019	0.021	0.0189	0.0183	0.022	0.016	NA	0.077	0.076	0.067	0.12	0.075	0.068	0.12	0.056	0.0734	0.0754
Beryllium	NA	NA	NA	< 0.000068	NA	NA	< 0.00012	< 0.00012	< 0.00021	NA	< 0.001	< 0.001	NA	< 0.00034	NA	NA	NA	NA	NA	< 0.00060
Cadmium	< 0.00059	< 0.00034	< 0.000068	< 0.000068	< 0.00025	< 0.00008	< 0.000080	< 0.000080	< 0.00019	NA	< 0.001	< 0.001	< 0.00059	< 0.00034	0.000074 J	< 0.000068	< 0.000068	< 0.00025	< 0.00008	< 0.00040
Chromium	0.00063 J	< 0.0011	0.00066	0.0012	0.0035	0.0018	0.0016	0.0010 J	0.00095 J	NA	0.0054 J	0.0052 J	< 0.00063	< 0.0011	< 0.00022	0.00081	0.00047 J	0.00088 J	< 0.00062	< 0.0031
Cobalt	0.00043 J	0.00043 J	0.00046 J	0.00044 J	0.00060	0.00067 J	0.00077 J	0.00044 J	0.00023 J	NA	< 0.015	< 0.015	0.0028	< 0.00040	0.0018	0.00085	0.000097 J	0.00081	0.0015	0.0013 J
Copper	< 0.0019	< 0.0021	< 0.00042	< 0.00042	< 0.0005	< 0.00083	< 0.00083	< 0.00083	0.004	0.026	0.029 J	0.038 J	< 0.0019	< 0.0021	0.0011	< 0.00042	< 0.00042	< 0.0005	< 0.00083	< 0.0042
Lead	< 0.00017	< 0.00035	< 0.00007	< 0.00007	< 0.00017	< 0.00007	0.00013 J	< 0.000070	< 0.00069	NA	0.0044 J	0.0058	0.0017	< 0.00035	0.00022 J	0.00011 J	< 0.00007	0.00023 J	< 0.00007	< 0.00035
Nickel	< 0.0007	< 0.0018	0.00044 J	0.00044 J	0.00094 J	0.0013	0.0040	0.0011 J	0.0044	NA	< 0.003	< 0.003	0.0013 J	0.0029	0.00058	0.0017	< 0.00036	0.00098 J	< 0.00056	< 0.0028
Selenium	< 0.00033	< 0.00024	0.00019 J	0.00022 J	0.0033 U	< 0.00037	< 0.00037	< 0.00037	< 0.00026	NA	0.0059 J	0.0041 J	0.00039 J	< 0.00024	0.0017 B	0.00041 B	0.000069 J	0.0052 U	< 0.00037	< 0.0018
Silver	NA	NA	NA	< 0.000022	NA	NA	< 0.000080	< 0.000080	< 0.00020	NA	< 0.002	< 0.002	NA	< 0.00011	NA	NA	NA	NA	NA	< 0.00040
Thallium	< 0.000017	< 0.000085	< 0.000017	< 0.000017	< 0.00014	< 0.00008	< 0.000080	< 0.000080	< 0.00011	NA	< 0.004	< 0.02	< 0.000017	< 0.000085	< 0.000017	< 0.000017	< 0.000017	< 0.00014	< 0.00008	< 0.00040
Tin	NA	NA	NA	< 0.00022	NA	NA	< 0.00043	< 0.00043	< 0.00065	NA	< 0.005	< 0.005	NA	< 0.0011	NA	NA	NA	NA	NA	< 0.0022
Vanadium	< 0.0022	< 0.0014	0.0011	0.0015	0.0017 J	0.0024 J	< 0.0023	< 0.0023	0.0027 J	NA	< 0.003	< 0.003	< 0.0022	< 0.0014	< 0.00028	0.0007	0.001	< 0.0013	< 0.0023	< 0.0114
Zinc	< 0.014	NA	NA	< 0.0013	NA	< 0.0044	< 0.0044	< 0.0044	0.014	NA	0.026	0.027	< 0.014	< 0.0065	NA	NA	NA	NA	< 0.0044	< 0.0220
Organophosphorus Pesticides - SW846 8141, ug/L																				
Basudin, Neocidol	NA	NA	NA	NA	NA	NA	NA	NA	< 0.302	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorpyrifos	NA	NA	NA	NA	NA	NA	NA	NA	< 0.320	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Coumaphos	NA	NA	NA	NA	NA	NA	NA	NA	< 0.410	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dasanit	NA	NA	NA	NA	NA	NA	NA	NA	< 0.405	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Demeton	NA	NA	NA	NA	NA	NA	NA	NA	< 0.626	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Demeton-s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibrom	NA	NA	NA	NA	NA	NA	NA	NA	< 0.594	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorvos	NA	NA	NA	NA	NA	NA	NA	NA	< 0.196	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethoate (Cygon)	NA	NA	NA	NA	NA	NA	NA	NA	< 0.327	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disulfoton	NA	NA	NA	NA	NA	NA	NA	NA	< 0.227	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.227
EPN	NA	NA	NA	NA	NA	NA	NA	NA	< 0.129	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethoprophos	NA	NA	NA	NA	NA	NA	NA	NA	< 0.293	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl Parathion	NA	NA	NA	NA	NA	NA	NA	NA	< 0.454	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.454
Fenthion	NA	NA	NA	NA	NA	NA	NA	NA	< 0.213	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Folex	NA	NA	NA	NA	NA	NA	NA	NA	< 1.32	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID:	9-I	9-I	9-I	9-I	9-I	9-I	9-I	9-I	9-I	15-D	15-D	15-D	15-D	15-D	15-D	15-D	15-D	15-D	15-D	15-D
Sample Date:	6/5/2015	6/21/2016	6/5/2017	6/6/2018	6/26/2019	6/11/2020	6/14/2021	6/20/2022	6/13/2023	6/26/2013	6/17/2014	6/17/2014	6/3/2015	6/22/2016	6/12/2017	6/8/2018	6/8/2018	6/11/2019	6/11/2020	6/14/2021
Sample Type:				App. IX Well					App. IX Well			Duplicate		App. IX Well			Duplicate			App. IX Well
Guthion	NA	NA	NA	NA	NA	NA	NA	NA	< 0.534	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Malathion	NA	NA	NA	NA	NA	NA	NA	NA	< 0.354	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl parathion	NA	NA	NA	NA	NA	NA	NA	NA	< 0.383	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.383
Mevinphos	NA	NA	NA	NA	NA	NA	NA	NA	< 0.275	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phorate	NA	NA	NA	NA	NA	NA	NA	NA	< 0.276	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.276
Ronnel	NA	NA	NA	NA	NA	NA	NA	NA	< 0.277	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfotepp	NA	NA	NA	NA	NA	NA	NA	NA	< 0.181	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.181
Sulprofos	NA	NA	NA	NA	NA	NA	NA	NA	< 0.214	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachlorvinphos	NA	NA	NA	NA	NA	NA	NA	NA	< 0.277	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetraethyl diphosphate	NA	NA	NA	NA	NA	NA	NA	NA	< 3.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tokuthion (Prothiofos)	NA	NA	NA	NA	NA	NA	NA	NA	< 0.241	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloronate	NA	NA	NA	NA	NA	NA	NA	NA	< 0.306	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organophosphorus Pesticides - SW846 8270-PEST, ug/L																				
Dimethoate (Cygon)	NA	NA	NA	< 0.27	NA	< 5.05	< 5.05	NA	< 5.05	NA	< 3.0	< 3.0	NA	< 0.25	NA	NA	NA	NA	< 5.05	< 5.05
Disulfoton	NA	NA	NA	< 0.43	NA	NA	NA	NA	NA	NA	< 3.0	< 3.0	NA	< 0.39	NA	NA	NA	NA	NA	NA
Ethyl Parathion	NA	NA	NA	< 0.21	NA	NA	NA	NA	NA	NA	< 3.0	< 3.0	NA	< 0.19	NA	NA	NA	NA	NA	NA
Famphur	NA	NA	NA	< 0.28	NA	< 3.92	< 3.92	NA	< 3.92	NA	< 3.0	< 3.0	NA	< 0.26	NA	NA	NA	NA	< 3.92	< 3.92
Methyl parathion	NA	NA	NA	< 0.2	NA	NA	NA	NA	NA	NA	< 3.0	< 3.0	NA	< 0.18	NA	NA	NA	NA	NA	NA
Phorate	NA	NA	NA	< 0.24	NA	NA	NA	NA	NA	NA	< 3.0	< 3.0	NA	< 0.22	NA	NA	NA	NA	NA	NA
Sulfotepp	NA	NA	NA	< 0.26	NA	< 3.99	< 3.99	NA	< 3.99	NA	< 3.0	< 3.0	NA	< 0.24	NA	NA	NA	NA	< 3.99	< 3.99
Thionazin	NA	NA	NA	< 0.23	NA	< 4.07	< 4.07	NA	< 4.07	NA	< 3.0	< 3.0	NA	< 0.21	NA	NA	NA	NA	< 4.07	< 4.07
Pesticides - SW846 8081, 8081A, 8081B, ug/L																				
4,4'-DDD	NA	NA	NA	< 0.0033	NA	NA	< 0.0177	NA	< 0.0177	NA	< 0.003	< 0.003	NA	< 0.0030	NA	NA	NA	NA	NA	< 0.0177 UJ
4,4'-DDE	NA	NA	NA	< 0.0044	NA	NA	< 0.0154	NA	< 0.0154	NA	< 0.0022	< 0.0022	NA	< 0.0040	NA	NA	NA	NA	NA	< 0.0154 UJ
4,4'-DDT	NA	NA	NA	< 0.0043	NA	NA	< 0.0198	NA	< 0.0198	NA	< 0.0039	< 0.0039	NA	< 0.0039	NA	NA	NA	NA	NA	< 0.0198 UJ
Aldrin	NA	NA	NA	< 0.0033	NA	NA	< 0.0198	< 0.0198	< 0.0198	NA	< 0.003	< 0.003	NA	< 0.003	NA	NA	NA	NA	NA	< 0.0198
alpha-BHC	NA	NA	NA	< 0.0039	NA	NA	< 0.0172	NA	< 0.0172	NA	< 0.0036	< 0.0036	NA	< 0.0036	NA	NA	NA	NA	NA	< 0.0172
alpha-Chlordane	NA	NA	NA	< 0.0046	NA	NA	< 0.0149 UJ	NA	NA	NA	NA	NA	NA	< 0.0042	NA	NA	NA	NA	NA	< 0.0149 UJ
beta-BHC	NA	NA	NA	< 0.0033	NA	NA	< 0.0208	NA	< 0.0208	NA	< 0.003	< 0.003	NA	< 0.0030	NA	NA	NA	NA	NA	< 0.0208
beta-Chlordane	NA	NA	NA	< 0.0035	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0032	NA	NA	NA	NA	NA	< 0.0137 UJ
Chlordane	NA	NA	NA	NA	NA	NA	< 0.0198	NA	< 0.0198	NA	< 0.13	< 0.13	NA	< 0.13	NA	NA	NA	NA	NA	< 0.0198
Chlordane, technical	NA	NA	NA	< 0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzilate	NA	NA	NA	< 0.043	NA	NA	NA	NA	NA	NA	< 0.039	< 0.039	NA	< 0.039	NA	NA	NA	NA	NA	NA
delta-BHC	NA	NA	NA	< 0.0030	NA	NA	< 0.015	NA	< 0.0150	NA	< 0.0021	< 0.0021	NA	< 0.0027	NA	NA	NA	NA	NA	< 0.015
Dieldrin	NA	NA	NA	< 0.0065	NA	NA	< 0.0162	NA	< 0.0162	NA	< 0.003	< 0.003	NA	< 0.0059	NA	NA	NA	NA	NA	< 0.0162 UJ
Endosulfan I	NA	NA	NA	< 0.0033	NA	NA	< 0.016	NA	0.0187 J	NA	< 0.003	< 0.003	NA	< 0.0030	NA	NA	NA	NA	NA	< 0.016 UJ
Endosulfan II	NA	NA	NA	< 0.0081	NA	NA	< 0.0164	NA	< 0.0164	NA	< 0.0074	< 0.0074	NA	< 0.0074	NA	NA	NA	NA	NA	< 0.0164
Endosulfan sulfate	NA	NA	NA	< 0.0023	NA	NA	< 0.0217	NA	< 0.0217	NA	< 0.0021	< 0.0021	NA	< 0.0021	NA	NA	NA	NA	NA	< 0.0217 UJ
Endrin	NA	NA	NA	< 0.0033	NA	NA	< 0.0161	NA	< 0.0161	NA	< 0.003	< 0.003	NA	< 0.0030	NA	NA	NA	NA	NA	< 0.0161 UJ
Endrin aldehyde	NA	NA	NA	< 0.0031	NA	NA	< 0.0237	NA	< 0.0237	NA	< 0.0028	< 0.0028	NA	< 0.0028	NA	NA	NA	NA	NA	< 0.0237
Endrin ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	NA	NA	NA	< 0.027	NA	NA	< 0.0209	NA	< 0.0209	NA	< 0.025	< 0.025	NA	< 0.025	NA	NA	NA	NA	NA	< 0.0209
gamma-Chlordane	NA	NA	NA	NA	NA	NA	< 0.0137 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	NA	NA	NA	< 0.0034	NA	NA	< 0.0148	NA	< 0.0148	NA	< 0.0031	< 0.0031	NA	< 0.0031	NA	NA	NA	NA	NA	< 0.0148
Heptachlor Epoxide	NA	NA	NA	< 0.0035	NA	NA	< 0.0183	NA	< 0.0183	NA	< 0.0032	< 0.0032	NA	< 0.0032	NA	NA	NA	NA	NA	< 0.0183 UJ
Hexachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	NA	NA	NA	< 0.0045	NA	NA	< 0.0193	NA	< 0.0193	NA	< 0.0041	< 0.0041	NA	< 0.0041	NA	NA	NA	NA	NA	< 0.0193 UJ
Toxaphene	NA	NA	NA	< 0.44	NA	NA	< 0.168	NA	< 0.168	NA	< 0.3	< 0.3	NA	< 0.40	NA	NA	NA	NA	NA	< 0.168
Phenolics - E420.1, E420.4, SW9065, mg/L																				
Total Recoverable Phenolics	0.012	0.027	0.023	0.013	< 0.09	0.085 U	0.106	0.0846	0.031	< 0.0045	< 0.0045	< 0.0045	< 0.0045	< 0.0045	0.0066 J	< 0.0045	< 0.0045	< 0.09	0.11 U	0.229
Polychlorinated Biphenyl (PCB) - SW846 8082, 8082A, ug/																				
PCB-1016	NA	NA	NA	< 0.068	NA	NA	NA	NA	< 0.202	NA	< 0.048	< 0.048	NA	< 0.048	NA	NA	NA	NA	NA	< 0.16
PCB-1221	NA	NA	NA	< 0.31	NA	NA	NA	NA	< 0.404	NA	< 0.22	< 0.22	NA	< 0.22	NA	NA	NA	NA	NA	< 0.33
PCB-1232	NA	NA	NA	< 0.58	NA	NA	NA	NA	< 0.202	NA	< 0.1	< 0.1	NA	< 0.41	NA	NA	NA	NA	NA	< 0.4
PCB-1242	NA	NA	NA	< 0.26	NA	NA	NA	NA	< 0.202	NA	< 0.034	< 0.034	NA	< 0.18	NA	NA	NA	NA	NA	< 0.2
PCB-1248	NA	NA	NA	< 0.029	NA	NA	NA	NA	< 0.202	NA	< 0.02	< 0.02	NA	< 0.020	NA	NA	NA	NA	NA	< 0.14
PCB-1254	NA	NA	NA	< 0.44	NA	NA	NA	NA	< 0.202	NA	< 0.057	< 0.057	NA	< 0.31	NA	NA	NA	NA	NA	< 0.16
PCB-1260	NA	NA	NA	< 0.048	NA	NA	NA	NA	< 0.202	NA	< 0.034	< 0.034	NA	< 0.034	NA	NA	NA	NA	NA	< 0.15
PCB-1262	NA	NA	NA	NA	NA	NA	NA	NA	< 0.202	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1268	NA	NA	NA	NA	NA	NA	NA	NA	< 0.303	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs, Total	NA	NA	NA	NA	NA	NA	NA	NA	< 0.404	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semi-Volatile Organic Compounds - SW846 8270C, 8270D																				
1,2,4,5-Tetrachlorobenzene	NA	NA	NA	< 0.57	NA	< 0.0647	< 0.0647	NA	< 0.0647	NA	< 0.52	< 0.52	NA	< 0.52	NA	NA	NA	NA	< 0.0647	< 0.0647
1,2,4-Trichlorobenzene	NA	NA	NA	< 0.58	NA	< 0.0698	< 0.0698	NA	< 0.0698	NA	< 0.53	< 0.53	NA	< 0.53	NA	NA	NA	NA	< 0.0698	< 0.0698
1,2-Dichlorobenzene	NA	NA	NA	< 0.62	NA	< 0.0713	< 0.0713	NA	< 0.0713	NA	< 0.57	< 0.57	NA	< 0.57	NA	NA	NA	NA	< 0.0713	< 0.0713
1,3,5-Trinitrobenzene	NA	NA	NA	< 2.2	NA	< 1.32	< 1.32	NA	< 1.32	NA	< 2.0	< 2.0	NA	< 2.0	NA	NA	NA	NA	< 1.32	< 1.32
1,3-Dichlorobenzene	NA	NA	NA	< 0.51	NA	< 0.132	< 0.132	NA	< 0.132	NA	< 0.47	< 0.47	NA	< 0.47	NA	NA	NA	NA	< 0.132	< 0.132
1,3-Dinitrobenzene	NA	NA	NA	< 1.1	NA	< 0.359	< 0.359	NA	< 0.359	NA	< 1.0	< 1.0	NA	< 1.0	NA	NA	NA	NA	< 0.359	< 0.359
1,4-Dichlorobenzene	NA	NA	NA	< 0.57	NA	< 0.0942	< 0.0942	NA	< 0.0942	NA	< 0.52	< 0.52	NA	< 0.52	NA	NA	NA	NA	< 0.0942	< 0.0942
1,4-Dioxane (p-Dioxane)	< 1.0	< 1.0	< 0.97	< 1.1	< 0.98	NA	< 0.0447	0.208 U	0.230 J	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.4	< 1.1	< 1.2	< 1.2	NA	< 0.0447
1,4-Naphthoquinone	NA	NA	NA	< 4.4	NA	< 5.56 R	< 5.56 R	NA	< 5.56	NA	< 4.0	< 4.0	NA	< 4.0	NA	NA	NA	NA	< 5.56 R	< 5.56 R
1-Methylnaphthalene	1.6	3.3	0.22	0.79	1.0 J	< 0.0790	1.38	0.163 J	< 0.0790	< 0.019	< 0.5	< 0.5	< 0.020	< 0.020	< 0.027	< 0.022	< 0.023	< 0.025	< 0.0790	< 0.079
1-Naphthylamine	< 4.0	< 4.0	< 3.9	< 4.4	< 3.9	< 0.289	0.616 J	< 0.289	< 0.289	< 2.7	< 4.0	< 4.0	< 4.0	< 4.0	< 5.5	< 4.4	< 4.7	< 4.9	< 0.289	< 0.289
2,2'-Oxybis(1-chloropropane)	NA	NA	NA	NA	NA	NA	< 0.21	NA	< 0.210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21
2,3,4,6-Tetrachlorophenol	NA	NA	NA	< 0.7	NA	< 0.231	< 0.231	NA	< 0.231	NA	< 0.64	< 0.64	NA	< 0.64	NA	NA	NA	NA	< 0.231	< 0.231
2,4,5-Trichlorophenol	NA	NA	NA	< 4.0	NA	< 0.109	< 0.109	NA	< 0.109	NA	< 3.7	< 3.7	NA	< 3.7	NA	NA	NA	NA	< 0.109	< 0.109
2,4,6-Trichlorophenol	NA	NA	NA	< 3.8	NA	< 0.100	< 0.1	NA	< 0.100	NA	< 3.5	< 3.5	NA	< 3.5	NA	NA	NA	NA	< 0.100	< 0.1
2,4-Dichlorophenol	NA	NA	NA	< 3.3	NA	< 0.102	< 0.102	NA	< 0.102	NA	< 3.0	< 3.0	NA	< 3.0	NA	NA	NA	NA	< 0.102	< 0.102
2,4-Dimethylphenol	< 3.5	< 3.5	< 3.4	< 3.8	< 3.4	< 0.0636	< 0.0636	< 0.0636	< 0.0636	< 3.3	< 3.5	< 3.5	< 3.5	< 3.5	< 4.8	< 3.8	< 4.1	< 4.3	< 0.0636	< 0.0636

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID:	9-I	9-I	9-I	9-I	9-I	9-I	9-I	9-I	9-I	15-D	15-D	15-D	15-D	15-D	15-D	15-D	15-D	15-D	15-D
Sample Date:	6/5/2015	6/21/2016	6/5/2017	6/6/2018	6/26/2019	6/11/2020	6/14/2021	6/20/2022	6/13/2023	6/26/2013	6/17/2014	6/17/2014	6/3/2015	6/22/2016	6/12/2017	6/8/2018	6/8/2018	6/11/2019	6/11/2020	6/14/2021
Sample Type:				App. IX Well					App. IX Well			Duplicate		App. IX Well			Duplicate			App. IX Well
2,4-Dinitrophenol	NA	NA	NA	< 3.7	NA	< 5.93	< 5.93	NA	< 5.93	NA	< 3.4	< 3.4	NA	< 3.4	NA	NA	NA	NA	< 5.93	< 5.93
2,4-Dinitrotoluene	NA	NA	NA	< 2.1	NA	< 0.0983	< 0.0983	NA	< 0.0983	NA	< 1.9	< 1.9	NA	< 1.9	NA	NA	NA	NA	< 0.0983	< 0.0983
2,6-Dichlorophenol	NA	NA	NA	< 4.4	NA	< 0.102	< 0.102	NA	< 0.102	NA	< 4.0	< 4.0	NA	< 4.0	NA	NA	NA	NA	< 0.102	< 0.102
2,6-Dinitrotoluene	NA	NA	NA	< 2.1	NA	< 0.250	< 0.25	NA	< 0.250	NA	< 1.9	< 1.9	NA	< 1.9	NA	NA	NA	NA	< 0.250	< 0.25
2-Acetylaminofluorene	NA	NA	NA	< 4.4	NA	< 0.253	< 0.253	NA	< 0.253	NA	< 4.0	< 4.0	NA	< 4.0	NA	NA	NA	NA	< 0.253	< 0.253
2-Chloronaphthalene	NA	NA	NA	< 0.57	NA	< 0.0648	< 0.0648	NA	< 0.0648	NA	< 0.52	< 0.52	NA	< 0.52	NA	NA	NA	NA	< 0.0648	< 0.0648
2-Chlorophenol	NA	NA	NA	< 2.4	NA	< 0.133	< 0.133	NA	< 0.133	NA	< 2.2	< 2.2	NA	< 2.2	NA	NA	NA	NA	< 0.133	< 0.133
2-Methylaniline (o-Toluidine)	< 6.0	< 6.0	< 5.8	< 6.5	< 5.9	< 3.53	< 3.53	< 3.53	< 3.53	< 0.95	< 6.0	< 6.0	< 6.0	< 6.0	< 8.2	< 6.6	< 7.0	< 7.4	< 3.53	< 3.53
2-Methylnaphthalene	< 6.3	0.29	0.062 J	0.039 J	< 0.020	< 0.117	< 0.117	< 0.117	< 0.117	< 0.019	< 0.54	< 0.54	< 6.3	< 0.020	< 0.027	< 0.022	< 0.023	< 0.025	< 0.117	< 0.117
2-Methylphenol (o-Cresol)	NA	NA	NA	< 2.0	NA	< 0.0929	< 0.0929	NA	< 0.0929	NA	< 1.8	< 1.8	NA	< 1.8	NA	NA	NA	NA	< 0.0929	< 0.0929
2-Naphthylamine	< 4.0	< 4.0	< 3.9	< 4.4	< 3.9	< 4.48	< 4.48	< 4.48	< 4.48	< 2.8	< 4.0	< 4.0	< 4.0	< 4.0	< 5.5	< 4.4	< 4.7	< 4.9 UJ	< 4.48	< 4.48
2-Nitroaniline	NA	NA	NA	< 2.4	NA	< 0.102	< 0.102	NA	< 0.102	NA	< 2.2	< 2.2	NA	< 2.2	NA	NA	NA	NA	< 0.102	< 0.102
2-Nitrophenol	NA	NA	NA	< 0.71	NA	< 0.117	< 0.117	NA	< 0.117	NA	< 0.65	< 0.65	NA	< 0.65	NA	NA	NA	NA	< 0.117	< 0.117
2-Picoline	NA	NA	NA	< 6.5	NA	< 6.83	< 6.83	NA	< 6.83	NA	< 6.0	< 6.0	NA	< 6.0	NA	NA	NA	NA	< 6.83	< 6.83
3,3'-Dichlorobenzidine	NA	NA	NA	< 2.8	NA	< 0.212	< 0.212	NA	< 0.212	NA	< 2.6	< 2.6	NA	< 2.6	NA	NA	NA	NA	< 0.212	< 0.212
3,3'-Dimethylbenzidine	NA	NA	NA	< 8.7	NA	< 3.39	< 3.39	NA	< 3.39	NA	< 8.0	< 8.0	NA	< 8.0	NA	NA	NA	NA	< 3.39	< 3.39
3+4-Methylphenol (m,p-Cresol)	< 1.0	< 1.0	< 1.0	< 1.1	< 1.0	< 0.168	< 0.168	< 0.168	< 0.168	< 0.37	NA	NA	< 1.0	< 1.0	< 1.4	< 1.1	< 1.2	< 1.3	< 0.168	< 0.168
3-Methylchloranthrene	NA	NA	NA	< 2.4	NA	< 0.164	< 0.164	NA	< 0.164	NA	< 2.2	< 2.2	NA	< 2.2	NA	NA	NA	NA	< 0.164	< 0.164
3-Methylphenol (m-Cresol)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.39	< 0.39	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	NA	NA	NA	< 2.0	NA	< 0.0869	< 0.0869	NA	< 0.0869	NA	< 1.8	< 1.8	NA	< 1.8	NA	NA	NA	NA	< 0.0869	< 0.0869
4,6-Dinitro-2-Methylphenol	NA	NA	NA	< 2.2	NA	< 1.12	< 1.12	NA	< 1.12	NA	< 2.0	< 2.0	NA	< 2.0	NA	NA	NA	NA	< 1.12	< 1.12
4-Aminobiphenyl	NA	NA	NA	< 4.6	NA	< 0.461	< 0.461	NA	< 0.461	NA	< 4.2	< 4.2	NA	< 4.2	NA	NA	NA	NA	< 0.461	< 0.461
4-Bromophenyl phenyl ether	NA	NA	NA	< 0.35	NA	< 0.0877	< 0.0877	NA	< 0.0877	NA	< 0.32	< 0.32	NA	< 0.32	NA	NA	NA	NA	< 0.0877	< 0.0877
4-Chloro-3-Methylphenol	NA	NA	NA	< 4.1	NA	< 0.131	< 0.131	NA	< 0.131	NA	< 3.8	< 3.8	NA	< 3.8	NA	NA	NA	NA	< 0.131	< 0.131
4-Chloroaniline	NA	NA	NA	< 3.7	NA	< 0.234	< 0.234	NA	< 0.234	NA	< 3.4	< 3.4	NA	< 3.4	NA	NA	NA	NA	< 0.234	< 0.234
4-Chlorophenyl phenyl ether	NA	NA	NA	< 2.2	NA	< 0.0926	< 0.0926	NA	< 0.0926	NA	< 2.0	< 2.0	NA	< 2.0	NA	NA	NA	NA	< 0.0926	< 0.0926
4-Dimethylaminoazobenzene	NA	NA	NA	< 2.5	NA	< 3.69	< 3.69	NA	< 3.69	NA	< 2.3	< 2.3	NA	< 2.3	NA	NA	NA	NA	< 3.69	< 3.69
4-Methylphenol (p-Cresol)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.39	< 0.39	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	NA	NA	NA	< 2.7	NA	< 0.0910	< 0.091	NA	< 0.0910	NA	< 2.5	< 2.5	NA	< 2.5	NA	NA	NA	NA	< 0.0910	< 0.091
4-Nitrophenol	NA	NA	NA	< 2.3	NA	< 0.143	< 0.143	NA	< 0.143	NA	< 2.1	< 2.1	NA	< 2.1	NA	NA	NA	NA	< 0.143	< 0.143
4-Nitroquinoline-N-Oxide	NA	NA	NA	< 2.2	NA	< 2.03	< 2.03	NA	< 2.03	NA	< 2.0	< 2.0	NA	< 2.0	NA	NA	NA	NA	< 2.03	< 2.03
5-Nitro-O-Toluidine	NA	NA	NA	< 3.3	NA	< 1.99	< 1.99	NA	< 1.99	NA	< 3.0	< 3.0	NA	< 3.0	NA	NA	NA	NA	< 1.99	< 1.99
7,12-Dimethylbenz(a)anthracene	NA	NA	NA	< 4.0	NA	< 1.71	< 1.71	NA	< 1.71	NA	< 3.7	< 3.7	NA	< 3.7	NA	NA	NA	NA	< 1.71	< 1.71
Acenaphthene	9.0	14	8.1	18	16	1.11	17.9	8.24	< 0.0886	< 0.019	< 0.46	< 0.46	< 0.020	0.47	< 0.027	< 0.022	1.2	< 0.025	< 0.0886	< 0.0886
Acenaphthylene	0.12 J	0.14 J	0.1 J	< 0.022	< 0.020	< 0.0921	< 0.0921	< 0.0921	< 0.0921	< 0.019	< 0.56	< 0.56	< 0.020	< 0.020	< 0.027	< 0.022	< 0.023	< 0.025	< 0.0921	< 0.0921
Acetophenone	NA	NA	NA	< 0.67	NA	< 0.208	< 0.208	NA	0.224 J	NA	< 0.62	< 0.62	NA	< 0.62	NA	NA	NA	NA	< 0.208	< 0.208
alpha, alpha-Dimethylphenethylamine	NA	NA	NA	< 11	NA	< 3.13 R	< 3.13 R	NA	< 3.13	NA	< 10	< 10	NA	< 10	NA	NA	NA	NA	< 3.13 R	< 3.13 R
Aniline	NA	NA	NA	< 4.1	NA	< 1.65	< 1.65	NA	< 1.65	NA	< 3.8	< 3.8	NA	< 3.8	NA	NA	NA	NA	< 1.65	< 1.65
Anthracene	0.25	< 0.020	< 0.019	< 0.022	< 0.020	0.182 J	0.313 J	0.114 J	< 0.0804	< 0.019	< 0.42	< 0.42	< 0.020	< 0.020	< 0.027	< 0.022	0.078 J	< 0.025	< 0.0804	< 0.0804
Aramite	NA	NA	NA	< 2.2	NA	< 16.7	< 16.7	NA	< 16.7	NA	< 2.0	< 2.0	NA	< 2.0	NA	NA	NA	NA	< 16.7	< 16.7
Benzo(a)anthracene	< 0.092	< 0.040	< 0.039	< 0.044	< 0.039	< 0.199	< 0.199	< 0.199	< 0.199	< 0.038	< 0.34	< 0.34	< 0.092	< 0.040	< 0.055	< 0.044	< 0.047	< 0.049	< 0.199	< 0.199
Benzo(a)pyrene	< 0.20	< 0.040	< 0.039	< 0.044	< 0.039	< 0.0381	< 0.0381	< 0.0381	< 0.0381	< 0.038	< 0.43	< 0.43	< 0.20	< 0.040	< 0.055	< 0.044	< 0.047	< 0.049	< 0.0381	< 0.0381
Benzo(b)fluoranthene	< 0.092	< 0.040	< 0.039	< 0.044	< 0.039	< 0.130	< 0.13	< 0.13	< 0.130	< 0.038	< 0.38	< 0.38	< 0.092	< 0.040	< 0.055	< 0.044	< 0.047	< 0.049	< 0.130	< 0.13
Benzo(g,h,i)perylene	< 0.040	< 0.040	< 0.039	0.051 J	< 0.039	< 0.121	< 0.121	< 0.121	< 0.121	< 0.038	< 1.1	< 1.1	< 0.040	< 0.040	< 0.055	< 0.044	< 0.047	< 0.049	< 0.121	< 0.121
Benzo(k)fluoranthene	< 0.92	< 0.040	< 0.039	0.045 J	< 0.039	< 0.120	< 0.12	< 0.12	< 0.120	< 0.038	< 0.54	< 0.54	< 0.92	< 0.040	< 0.055	< 0.044	< 0.047	< 0.049	< 0.120	< 0.12
Benzyl Alcohol	NA	NA	NA	< 2.2	NA	< 0.563	< 0.563	NA	< 0.563	NA	< 2.0	< 2.0	NA	< 2.0	NA	NA	NA	NA	< 0.563	< 0.563
bis(2-Chloroethoxy)methane	NA	NA	NA	< 0.75	NA	< 0.116	< 0.116	NA	< 0.116	NA	< 0.69	< 0.69	NA	< 0.69	NA	NA	NA	NA	< 0.116	< 0.116
bis(2-Chloroethyl)ether	NA	NA	NA	< 0.8	NA	< 0.137	< 0.137	NA	< 0.137	NA	< 0.74	< 0.74	NA	< 0.74	NA	NA	NA	NA	< 0.137	< 0.137
bis(2-Chloroisopropyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.81	< 0.81	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	< 6.0	< 2.3	< 2.2	4.3 J	< 4.9	< 0.895	< 0.895	< 0.895	< 0.895	5.8 J	< 2.3	< 2.3	< 6.0	< 2.3	< 3.1	< 2.5	5.6 J	< 6.2	< 0.895	< 0.895
Butyl benzyl phthalate	NA	NA	NA	< 0.75	NA	< 0.765	< 0.765	NA	< 0.765	NA	< 0.69	< 0.69	NA	< 0.69	NA	NA	NA	NA	< 0.765	< 0.765
Chlorobenzilate	NA	NA	NA	NA	NA	NA	< 3.84	NA	< 3.84	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.84
Chrysene	< 9.2	< 0.040	< 0.039	< 0.044	< 0.039	< 0.130	< 0.13	< 0.13	< 0.130	< 0.038	< 0.49	< 0.49	< 9.2	< 0.040	< 0.055	< 0.044	< 0.047	< 0.049	< 0.130	< 0.13
Diallate	NA	NA	NA	< 3.3	NA	< 0.524	< 0.524	NA	< 0.524	NA	< 3.0	< 3.0	NA	< 3.0	NA	NA	NA	NA	< 0.524	< 0.524
Dibenzo(a,h)anthracene	NA	NA	NA	< 1.3	NA	< 0.0644	< 0.0644	NA	< 0.0644	NA	< 1.2	< 1.2	NA	< 1.2	NA	NA	NA	NA	< 0.0644	< 0.0644
Dibenzofuran	< 1.2	< 0.52	< 0.51	< 0.57	< 0.51	< 0.0970	< 0.097	< 0.097	< 0.0970	< 0.16	< 0.52	< 0.52	< 1.2	< 0.52	< 0.71	< 0.57	< 0.61	< 0.64	< 0.0970	< 0.097
Diethyl phthalate	NA	NA	NA	< 0.76	NA	< 0.287	< 0.287	NA	0.721 J	NA	< 0.7	< 0.7	NA	< 0.70	NA	NA	NA	NA	< 0.287	< 0.287
Dimethyl phthalate	NA	NA	NA	< 0.65	NA	< 0.260	< 0.26	NA	< 0.260	NA	< 0.6	< 0.6	NA	< 0.60	NA	NA	NA	NA	< 0.260	< 0.26
Di-n-butyl phthalate	NA	NA	NA	< 2.9	NA	< 0.453	< 0.453	NA	< 0.453	NA	NA	NA	NA	< 2.7	NA	NA	NA	NA	< 0.453	< 0.453
Di-n-octyl phthalate	< 0.44	< 0.44	< 0.43	< 0.48	< 0.43	< 0.932	< 0.932	< 0.932	< 0.932	< 0.16	< 0.44	< 0.44	< 0.44	1.1 J	< 0.6	< 0.48	< 0.51	< 0.54	< 0.932	< 0.932
Dinoseb	NA	NA	NA	< 3.3	NA	< 8.01	< 8.01	NA	< 8.01	NA	NA	NA	NA	< 3.0	NA	NA	NA	NA	< 8.01	< 8.01
Diphenylamine	NA	NA	NA	< 3.3	NA	< 2.37	< 2.37	NA	< 2.37	NA	< 3.0	< 3.0	NA	< 3.0	NA	NA	NA	NA	< 2.37	< 2.37
Ethyl methanesulfonate	NA	NA	NA	< 3.3	NA	< 0.326	< 0.326	NA	< 0.326	NA	< 3.0	< 3.0	NA	< 3.0	NA	NA	NA	NA	< 0.326	< 0.326
Fluoranthene	0.31	0.45	0.17 J	0.74	0.60	0.261 J	0.253 J	0.162 J	< 0.102	< 0.019	< 0.77	< 0.77	0.14 J	< 0.020	0.094 J	0.036 J	< 0.023	0.028 J	< 0.102	< 0.102
Fluorene	0.59	0.74	0.33	0.35	0.76	< 0.0844	< 0.0844	< 0.0844	< 0.0844	< 0.02	< 0.56	< 0.56	< 0.021	< 0.021	< 0.029	< 0.023	0.041 J	< 0.026	< 0.0844	< 0.0844
Hexachlorobenzene	NA	NA	NA	< 0.27	NA	< 0.0755	< 0.0755	NA	< 0.0755	NA	< 0.25	< 0.25	NA	< 0.25	NA	NA	NA	NA	< 0.0755	< 0.0755
Hexachlorobutadiene	NA	NA	NA	< 3.9	NA	< 0.0968	< 0.0968	NA	< 0.0968	NA	< 3.6	< 3.6	NA	< 3.6	NA	NA	NA	NA	< 0.0968	< 0.0968
Hexachlorocyclopentadiene	NA	NA	NA	< 2.8	NA	< 0.0598	< 0.0598	NA	< 0.0598	NA	< 2.6	< 2.6	NA	< 2.6	NA	NA	NA	NA	< 0.0598	< 0.0598
Hexachloroethane	< 4.8	< 4.2	< 4.1	< 4.6	< 4.1	< 0.127	< 0.127	< 0.127	< 0.127	< 4.0	< 4.2	< 4.2	< 4.8	< 4.2	< 5.7	< 4.6	< 4.9	< 5.2	< 0.127	< 0.127
Hexachlorophene	NA	NA	NA	< 110	NA	< 1.44	< 1.44	NA	< 1.44	NA	< 100	< 100	NA	< 100	NA	NA	NA	NA	< 1.44	< 1.44
Hexachloropropene	NA	NA	NA	< 2.2	NA	< 0.149	< 0.149	NA	< 0.149	NA	< 2.0	< 2.0	NA	< 2.0	NA	NA	NA	NA	< 0.149	< 0.149
Indeno(1,2,3-cd)pyrene	< 0.092	< 0.040	< 0.039	0.067 J	< 0.039	< 0.279	< 0.279	< 0.279	< 0.279	< 0.038	< 1.0	< 1.0	< 0.092	< 0.040	< 0.055	< 0.044	< 0.047	< 0.049	< 0.279	< 0.279
Isodrin	NA	NA	NA	< 3.3	NA	< 4.11	< 4.11	NA	< 4.11	NA	< 3.0	< 3.0	NA	< 3.0	NA	NA	NA	NA	< 4.11	< 4.11
Isophorone	NA	NA	NA	< 0.62	NA	< 0.143	< 0.143	NA	< 0.143	NA	< 0.57	< 0.57	NA	< 0.57	NA	NA	NA	NA	< 0.143	< 0.143
Isosafrole	NA	NA	NA	< 3.3	NA	< 3.88	< 3.88	NA	< 3.88	NA	< 3.0	< 3.0	NA	< 3.0	NA	NA	NA	NA	< 3.88	< 3.88
Kepone	NA	NA	NA	< 0.22	NA	< 2.66	< 2.66	NA	< 2.66	NA	< 0.2	< 0.2	NA	< 0.20	NA	NA	NA	NA	< 2.66	< 2.66
Methapyrilene	NA	NA	NA	< 8.7	NA	< 10.0	< 10 R	NA	< 10.0	NA	< 8.0	< 8.0	NA	< 8.0	NA	NA	NA	NA	< 10.0	< 10 R
Methyl methanesulfonate	NA	NA	NA	< 3.3	NA	< 3.40	< 3.4	NA	< 3.40	NA	< 3.0	< 3.0	NA	< 3.0	NA	NA	NA	NA	< 3.40	< 3.4
Naphthalene	< 0.62	0.31	0.12 J	0.083 J	0.12 U	< 0.159	< 0.159	< 0.159	< 0.159	< 0.019	< 0.63	< 0.63	< 0.62	0.073 J	< 0.027	< 0.022	< 0.023	< 0.025	< 0.159	< 0.159

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID:	9-I	9-I	9-I	9-I	9-I	9-I	9-I	9-I	9-I	15-D	15-D	15-D	15-D	15-D	15-D	15-D	15-D	15-D	15-D
Sample Date:	6/5/2015	6/21/2016	6/5/2017	6/6/2018	6/26/2019	6/11/2020	6/14/2021	6/20/2022	6/13/2023	6/26/2013	6/17/2014	6/17/2014	6/3/2015	6/22/2016	6/12/2017	6/8/2018	6/8/2018	6/11/2019	6/11/2020	6/14/2021
Sample Type:				App. IX Well					App. IX Well			Duplicate		App. IX Well			Duplicate			App. IX Well
Nitrobenzene	NA	NA	NA	< 0.6	NA	< 0.297	< 0.297	NA	< 0.297	NA	< 0.55	< 0.55	NA	< 0.55	NA	NA	NA	NA	< 0.297	< 0.297
N-Nitrosodiethylamine	NA	NA	NA	< 5.2	NA	< 3.57	< 3.57	NA	< 3.57	NA	< 4.8	< 4.8	NA	< 4.8	NA	NA	NA	NA	< 3.57	< 3.57
N-Nitrosodimethylamine	NA	NA	NA	< 3.8	NA	< 0.998	< 0.998	NA	< 0.998	NA	< 3.5	< 3.5	NA	< 3.5	NA	NA	NA	NA	< 0.998	< 0.998
N-Nitrosodi-n-butylamine	NA	NA	NA	< 4.7	NA	< 3.91	< 3.91	NA	< 3.91	NA	< 4.3	< 4.3	NA	< 4.3	NA	NA	NA	NA	< 3.91	< 3.91
N-Nitrosodi-n-propylamine	NA	NA	NA	< 3.6	NA	< 0.261	< 0.261	NA	< 0.261	NA	< 3.3	< 3.3	NA	< 3.3	NA	NA	NA	NA	< 0.261	< 0.261
N-Nitrosodiphenylamine	< 0.47	< 0.47	< 0.46	< 0.51	< 0.46	< 2.37	< 2.37	< 2.37	< 2.37	< 0.17	< 0.47	< 0.47	< 1.0	< 0.47	< 0.64	< 0.52	< 0.55	< 0.58	< 2.37	< 2.37
N-Nitrosomethylethylamine	NA	NA	NA	< 3.3	NA	< 3.25	< 3.25	NA	< 3.25	NA	< 3.0	< 3.0	NA	< 3.0	NA	NA	NA	NA	< 3.25	< 3.25
N-Nitrosomorpholine	NA	NA	NA	< 4.4	NA	< 3.25	< 3.25	NA	< 3.25	NA	< 4.0	< 4.0	NA	< 4.0	NA	NA	NA	NA	< 3.25	< 3.25
N-Nitrosopiperidine	NA	NA	NA	< 4.4	NA	< 3.72	< 3.72	NA	< 3.72	NA	< 4.0	< 4.0	NA	< 4.0	NA	NA	NA	NA	< 3.72	< 3.72
N-Nitrosopyrrolidine	NA	NA	NA	< 5.4	NA	< 3.39	< 3.39	NA	< 3.39	NA	< 5.0	< 5.0	NA	< 5.0	NA	NA	NA	NA	< 3.39	< 3.39
O,O,O-Triethyl Phosphorothioate	NA	NA	NA	< 4.4	NA	NA	< 2.93	NA	< 2.93	NA	< 4.0	< 4.0	NA	< 4.0	NA	NA	NA	NA	NA	< 2.93
Pentachlorobenzene	NA	NA	NA	< 2.2	NA	< 4.15	< 4.15	NA	< 4.15	NA	< 2.0	< 2.0	NA	< 2.0	NA	NA	NA	NA	< 4.15	< 4.15
Pentachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.0	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA
Pentachloronitrobenzene	NA	NA	NA	< 3.3	NA	< 4.15	< 4.15	NA	< 4.15	NA	< 3.0	< 3.0	NA	< 3.0	NA	NA	NA	NA	< 4.15	< 4.15
Pentachlorophenol	< 1.8	< 1.8	< 1.8	< 2.0	< 1.8	< 0.313	< 0.313	< 0.313	< 0.313	< 1.3	< 1.8	< 1.8	< 1.8	< 1.8	< 2.5	< 2.0	< 2.1	< 2.2	< 0.313	< 0.313
Phenacetin	NA	NA	NA	< 3.3	NA	< 4.66	< 4.66	NA	< 4.66	NA	< 3.0	< 3.0	NA	< 3.0	NA	NA	NA	NA	< 4.66	< 4.66
Phenanthrene	0.2	4.8	< 0.019	2.9	5.3	0.280 J	2.63	1.97	< 0.112	< 0.019	< 0.41	< 0.41	< 0.020	< 0.020	< 0.027	< 0.022	< 0.023	< 0.025	< 0.112	< 0.112
Phenol	< 2.6	< 2.6	< 2.5	< 2.8	< 2.5	< 4.33	< 4.33	< 4.33	< 4.33	< 2.5	< 2.6	< 2.6	< 2.6	< 2.6	< 3.6	< 2.9	< 3.0	< 3.2	< 4.33	< 4.33
P-Phenylenediamine	NA	NA	NA	< 1.1	NA	< 387 R	< 387 R	NA	< 387	NA	< 1.0	< 1.0	NA	< 1.0	NA	NA	NA	NA	< 387 R	< 387 R
Pronamide (Kerb)	NA	NA	NA	< 3.3	NA	< 4.21	< 4.21	NA	< 4.21	NA	< 3.0	< 3.0	NA	< 3.0	NA	NA	NA	NA	< 4.21	< 4.21
Pyrene	0.12 J	0.11 J	0.077 J	0.25	0.22	0.120 J	0.23 J	0.127 J	< 0.107	< 0.019	< 1.1	< 1.1	< 0.020	0.099 J	< 0.027	< 0.022	0.074 J	< 0.025	< 0.107	< 0.107
Pyridine	NA	NA	NA	< 3.5	NA	< 0.627	< 0.627	NA	< 0.627	NA	< 3.2	< 3.2	NA	< 3.2	NA	NA	NA	NA	< 0.627	< 0.627
Safrole	NA	NA	NA	< 4.4	NA	< 3.68	< 3.68	NA	< 3.68	NA	< 4.0	< 4.0	NA	< 4.0	NA	NA	NA	NA	< 3.68	< 3.68
Sulfide - EPA846 376.1, SM4500-S2-D, mg/L																				
Sulfide	0.072 J	< 0.036	0.088 J	< 0.057	< 0.057	< 0.0062	< 0.011	0.017 J	0.018 J	NA	0.1	0.091 J	< 0.036	< 0.036	< 0.057	< 0.057	< 0.057	< 0.057	< 0.0062	< 0.011
Volatile Organic Compounds - SW846 8260B, 8260C, ug/L																				
1,1,1,2-Tetrachloroethane	NA	NA	NA	< 0.52	NA	< 0.147	< 0.147	NA	< 0.147	NA	< 0.52	< 0.52	NA	< 0.52	NA	NA	NA	NA	< 0.147	< 0.147
1,1,1-Trichloroethane	NA	NA	NA	< 0.5	NA	< 0.149	< 0.149	NA	< 0.149	NA	< 0.5	< 0.5	NA	< 0.50	NA	NA	NA	NA	< 0.149	< 0.149
1,1,2,2-Tetrachloroethane	NA	NA	NA	< 0.5	NA	< 0.133	< 0.133	NA	< 0.133	NA	< 0.5	< 0.5	NA	< 0.50	NA	NA	NA	NA	< 0.133	< 0.133
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NA	NA	NA	NA	NA	< 0.180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.180	NA
1,1,2-Trichloroethane	NA	NA	NA	< 0.5	NA	< 0.158	< 0.158	NA	< 0.158	NA	< 0.5	< 0.5	NA	< 0.50	NA	NA	NA	NA	< 0.158	< 0.158
1,1-Dichloroethane	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.100	< 0.1	< 0.1	< 0.100	NA	< 0.5	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.50	< 0.100	< 0.1
1,1-Dichloroethene	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.188	< 0.188	< 0.188	< 0.188	NA	< 0.5	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.50	< 0.188	< 0.188
1,1-Dichloropropene	NA	NA	NA	NA	NA	< 0.142	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.142	NA
1,2,3-Trichlorobenzene	NA	NA	NA	NA	NA	< 0.230	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.230	NA
1,2,3-Trichloropropane	NA	NA	NA	< 0.84	NA	< 0.237	< 0.237	NA	< 0.237	NA	< 0.84	< 0.84	NA	< 0.84	NA	NA	NA	NA	< 0.237	< 0.237
1,2,3-Trimethylbenzene	NA	NA	NA	NA	NA	< 0.104	< 0.104	NA	< 0.104	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.104	< 0.104
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	< 0.481	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.481	NA
1,2,4-Trimethylbenzene	NA	NA	NA	NA	NA	< 0.322	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.322	NA
1,2-Dibromo-3-Chloropropane	NA	NA	NA	< 1.5	NA	< 0.276	< 0.276	NA	NA	NA	< 1.5	< 1.5	NA	< 1.5	NA	NA	NA	NA	< 0.276	< 0.276
1,2-Dibromoethane (Ethylene dibromide)	NA	NA	NA	< 0.5	NA	< 0.126	< 0.126	NA	NA	NA	< 0.5	< 0.5	NA	< 0.50	NA	NA	NA	NA	< 0.126	< 0.126
1,2-Dichlorobenzene	NA	NA	NA	< 0.5	NA	< 0.107	NA	NA	< 0.107	NA	NA	NA	NA	< 0.50	NA	NA	NA	NA	< 0.107	NA
1,2-Dichloroethane	NA	NA	NA	< 0.5	NA	< 0.0819	< 0.0819	NA	< 0.0819	NA	< 0.5	< 0.5	NA	< 0.50	NA	NA	NA	NA	< 0.0819	< 0.0819
1,2-Dichloropropane	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.149	< 0.149	< 0.149	< 0.149	NA	< 0.5	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.50	< 0.149	< 0.149
1,3,5-Trimethylbenzene	NA	NA	NA	NA	NA	< 0.104	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.104	NA
1,3-Butadiene	NA	NA	NA	NA	NA	< 0.299	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.299	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	< 0.110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.110	NA
1,3-Dichloropropane	NA	NA	NA	NA	NA	< 0.110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.110	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	< 0.120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.120	NA
1,4-Dioxane (p-Dioxane)	NA	NA	NA	NA	NA	< 36.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 36.0	NA
1-Methylnaphthalene	NA	NA	NA	NA	NA	< 7.30 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7.30 UJ	NA
2,2,4-Trimethylpentane	NA	NA	NA	NA	NA	< 0.391	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.391	NA
2,2-Dichloropropane	NA	NA	NA	NA	NA	< 0.161	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.161	NA
2-Butanone (Methyl ethyl ketone)	NA	NA	NA	< 2.6	NA	< 1.19	< 1.19	NA	6.11 J	NA	< 2.6	< 2.6	NA	< 2.6	NA	NA	NA	NA	< 1.19	< 1.19
2-Chloro-1,3-Butadiene	NA	NA	NA	< 0.7	NA	< 1.45	< 1.45	NA	< 1.45	NA	< 0.7	< 0.7	NA	< 0.70	NA	NA	NA	NA	< 1.45	< 1.45
2-Chloroethyl vinyl ether	NA	NA	NA	NA	NA	< 0.575	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.575	NA
2-Chlorotoluene	NA	NA	NA	NA	NA	< 0.106	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.106	NA
2-Hexanone	NA	NA	NA	< 3.1	NA	< 0.787	< 0.787	NA	< 0.787	NA	< 3.1	< 3.1	NA	< 3.1	NA	NA	NA	NA	< 0.787	< 0.787
2-Methyl-1-Propanol (isobutyl alcohol)	NA	NA	NA	< 10	NA	< 42.1	< 42.1	NA	< 42.1	NA	< 8.5	< 8.5	NA	< 10	NA	NA	NA	NA	< 42.1	< 42.1
2-Methyl-2-Butanol	NA	NA	NA	NA	NA	< 4.90	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.90	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	< 7.18 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7.18 UJ	NA
2-Nitropropane	NA	NA	NA	NA	NA	< 1.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.75	NA
4-Chlorotoluene	NA	NA	NA	NA	NA	< 0.114	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.114	NA
4-Isopropyltoluene (Cymene)	NA	NA	NA	NA	NA	< 0.120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.120	NA
Acetone	< 10	< 10	< 10	< 10	< 10	< 11.3	< 11.3	< 11.3	71.6	NA	23 J	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 11.3	< 11.3
Acetonitrile	NA	NA	NA	< 12	NA	< 24.0	< 24	NA	< 24.0	NA	< 12	< 12	NA	< 12	NA	NA	NA	NA	< 24.0	< 24
Acrolein	NA	NA	NA	< 10	NA	< 2.54	< 2.54	NA	< 2.54	NA	< 10	< 10	NA	< 10	NA	NA	NA	NA	< 2.54	< 2.54
Acrylonitrile	NA	NA	NA	< 2.8	NA	< 0.671	< 0.671	NA	< 0.671	NA	< 2.8	< 2.8	NA	< 2.8	NA	NA	NA	NA	< 0.671	< 0.671
Allyl chloride (3-Chloropropene)	NA	NA	NA	< 1.0	NA	< 0.500	< 0.5	NA	< 0.500	NA	< 1.0	< 1.0	NA	< 1.0	NA	NA	NA	NA	< 0.500	< 0.5
Benzene	5.1	3.0	2.7	1.5	0.64 J	< 0.0941	< 0.0941	< 0.0941	< 0.0941	< 0.34	< 0.34	< 0.34	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.0941	< 0.0941
Bromobenzene	NA	NA	NA	NA	NA	< 0.118	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.118	NA
Bromodichloromethane (Dichlorobromomethane)	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.136	< 0.136	< 0.136	< 0.136	NA	< 0.5	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.50	< 0.136	< 0.136
Bromoform (Tribromomethane)	NA	NA	NA	< 0.71	NA	< 0.129	< 0.129	NA	< 0.129	NA	< 0.71	< 0.71	NA	< 0.71	NA	NA	NA	NA	< 0.129	< 0.129
Bromomethane (Methyl bromide)	NA	NA	NA	< 0.98	NA	< 0.605	< 0.605	NA	< 0.605	NA	< 0.98	< 0.98	NA	< 0.98	NA	NA	NA	NA	< 0.605	< 0.605
Carbon disulfide	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50 UJ	< 0.0962	< 0.0962	< 0.0962	< 0.0962	NA	< 0.5	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.50	0.309 J	< 0.0962
Carbon tetrachloride	NA	NA	NA	< 0.5	NA	< 0.128	< 0.128	NA	< 0.128	NA	< 0.5	< 0.5	NA	< 0.50	NA	NA	NA	NA	< 0.128	< 0.128
Chlorobenzene	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.116	< 0.116	< 0.116	< 0.116	NA	< 0.5	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.50	< 0.116	< 0.116
Chlorobromomethane (Bromochloromethane)	NA	NA	NA	NA	NA	< 0.128	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.128	NA
Chlorodibromomethane (Dibromochloromethane)	NA	NA	NA	< 0.5	NA	< 0.140	< 0.14	NA	< 0.140	NA	< 0.5	< 0.5	NA	< 0.50	NA	NA	NA	NA	< 0.140	< 0.14

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID:	9-I	9-I	9-I	9-I	9-I	9-I	9-I	9-I	9-I	15-D	15-D	15-D	15-D	15-D	15-D	15-D	15-D	15-D	15-D
Sample Date:	6/5/2015	6/21/2016	6/5/2017	6/6/2018	6/26/2019	6/11/2020	6/14/2021	6/20/2022	6/13/2023	6/26/2013	6/17/2014	6/17/2014	6/3/2015	6/22/2016	6/12/2017	6/8/2018	6/8/2018	6/11/2019	6/11/2020	6/14/2021
Sample Type:				App. IX Well					App. IX Well			Duplicate		App. IX Well			Duplicate			App. IX Well
Chloroethane	NA	NA	NA	< 0.76	NA	< 0.192	< 0.192	NA	< 0.192	NA	< 0.76	< 0.76	NA	< 0.76	NA	NA	NA	NA	< 0.192	< 0.192
Chloroform	< 0.60	< 0.60	< 0.6	< 0.6	< 0.60	< 0.111	< 0.111	< 0.111	< 0.111	NA	< 0.6	< 0.6	< 0.60	< 0.60	< 0.6	< 0.6	< 0.6	< 0.60	< 0.111	< 0.111
Chloromethane (Methyl chloride)	NA	NA	NA	< 0.83	NA	< 0.960	< 0.96	NA	< 0.960	NA	< 0.83	< 0.83	NA	< 0.83	NA	NA	NA	NA	< 0.960	< 0.96
cis-1,2-Dichloroethene	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.126	< 0.126	< 0.126	< 0.126	NA	NA	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.50	< 0.126	< 0.126
cis-1,3-Dichloropropene	NA	NA	NA	< 0.5	NA	< 0.111	< 0.111	NA	< 0.111	NA	< 0.5	< 0.5	NA	< 0.50	NA	NA	NA	NA	< 0.111	< 0.111
Cyclohexane	NA	NA	NA	NA	NA	< 0.188	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.188	NA
Cyclohexanone	NA	NA	NA	NA	NA	< 3.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.40	NA
Dibromomethane (Methylene bromide)	NA	NA	NA	< 0.59	NA	< 0.122	< 0.122	NA	< 0.122	NA	< 0.59	< 0.59	NA	< 0.59	NA	NA	NA	NA	< 0.122	< 0.122
Dichlorodifluoromethane (Freon 12)	NA	NA	NA	< 0.85	NA	< 0.374	< 0.374	NA	< 0.374	NA	< 0.85	< 0.85	NA	< 0.85	NA	NA	NA	NA	< 0.374	< 0.374
Dichloromonofluoromethane	NA	NA	NA	NA	NA	< 0.130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.130	NA
Dicyclopentadiene	NA	NA	NA	NA	NA	< 0.253	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.253	NA
Ethanol	NA	NA	NA	NA	NA	< 42.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 42.0	NA
Ethyl acetate	NA	NA	NA	NA	NA	< 3.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.59	NA
Ethyl methacrylate	NA	NA	NA	< 0.6	NA	< 1.48	< 1.48	NA	< 1.48	NA	< 0.6	< 0.6	NA	< 0.60	NA	NA	NA	NA	< 1.48	< 1.48
Ethylbenzene	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.137	< 0.173	< 0.173	< 0.173	NA	< 0.5	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.50	< 0.137	< 0.173
Hexachlorobutadiene	NA	NA	NA	NA	NA	< 0.337	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.337	NA
Hexachloroethane	NA	NA	NA	NA	NA	< 0.316	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.316	NA
Iodomethane (Methyl iodide)	NA	NA	NA	< 0.9	NA	< 6.00	< 6	NA	< 6.00	NA	< 0.68	< 0.68	NA	< 0.68	NA	NA	NA	NA	< 6.00	< 6
Isopropyl alcohol	NA	NA	NA	NA	NA	96.3 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	135 U	NA
Isopropyl ether	NA	NA	NA	NA	NA	< 0.105	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.105	NA
Isopropylbenzene (Cumene)	NA	NA	NA	NA	NA	< 0.105	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.105	NA
m+p-Xylenes	NA	NA	NA	NA	NA	< 0.430	0.514 J	< 0.43	< 0.430	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.430	< 0.43
Methyl acetate	NA	NA	NA	NA	NA	< 1.29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.29	NA
Methyl isobutyl ketone (4-Methyl-2-pentanone)	NA	NA	NA	< 1.8	NA	< 0.478	< 0.478	NA	5.22 J	NA	< 1.8	< 1.8	NA	< 1.8	NA	NA	NA	NA	< 0.478	< 0.478
Methyl methacrylate	NA	NA	NA	< 5.0	NA	< 1.52	< 1.52 UJ	NA	< 1.52	NA	< 5.0	< 5.0	NA	< 5.0	NA	NA	NA	NA	< 1.52	< 1.52
Methyl tertiary butyl ether (MTBE)	NA	NA	NA	NA	NA	< 0.101	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.101	NA
Methylacrylonitrile	NA	NA	NA	< 6.0	NA	< 14.2	< 14.2	NA	< 14.2	NA	< 6.0	< 6.0	NA	< 6.0	NA	NA	NA	NA	< 14.2	< 14.2
Methylcyclohexane	NA	NA	NA	NA	NA	< 0.660	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.660	NA
Methylene chloride (Dichloromethane)	NA	NA	NA	< 3.0	NA	< 0.430	< 0.43	NA	< 0.430	NA	< 3.0	< 3.0	NA	< 3.0	NA	NA	NA	NA	< 0.430	< 0.43
Naphthalene	NA	NA	NA	NA	NA	< 1.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.00	NA
n-Butyl alcohol	NA	NA	NA	NA	NA	< 150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 150	NA
n-Butylbenzene	NA	NA	NA	NA	NA	< 0.157	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.157	NA
n-Heptane	NA	NA	NA	NA	NA	< 0.373	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.373	NA
n-Hexane	NA	NA	NA	NA	NA	< 0.749	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.749	NA
n-Propylbenzene	NA	NA	NA	NA	NA	< 0.0993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0993	NA
o-Xylene	NA	NA	NA	NA	NA	< 0.174	< 0.174	< 0.174	< 0.174	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.174	< 0.174
Pentachloroethane	NA	NA	NA	< 0.6	NA	< 2.30	< 2.3	NA	< 2.30	NA	NA	NA	NA	< 0.60	NA	NA	NA	NA	< 11.5	< 2.3
Propionitrile	NA	NA	NA	< 7.0	NA	< 16.2	< 16.2	NA	< 16.2	NA	< 7.0	< 7.0	NA	< 7.0	NA	NA	NA	NA	< 16.2	< 16.2
Propylene (Propene)	NA	NA	NA	NA	NA	< 0.936	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.936	NA
sec-Butylbenzene (2-Phenylbutane)	NA	NA	NA	NA	NA	< 0.125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.125	NA
Styrene	NA	NA	NA	< 1.0	NA	< 0.118	< 0.118	NA	< 0.118	NA	< 1.0	< 1.0	NA	< 1.0	NA	NA	NA	NA	< 0.118	< 0.118
tert-Amyl methyl ether	NA	NA	NA	NA	NA	< 0.195	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.195	NA
Tert-buty formate	NA	NA	NA	NA	NA	< 4.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.51	NA
tert-Butyl alcohol	NA	NA	NA	NA	NA	< 4.06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.06	NA
tert-Butyl ethyl ether	NA	NA	NA	NA	NA	< 0.101	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.101	NA
tert-Butylbenzene	NA	NA	NA	NA	NA	< 0.127	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.127	NA
Tetrachloroethene (PCE)	NA	NA	NA	< 0.58	NA	< 0.300	< 0.3	NA	< 0.300	NA	< 0.58	< 0.58	NA	< 0.58	NA	NA	NA	NA	< 0.300	< 0.3
Tetrahydrofuran	NA	NA	NA	NA	NA	< 0.929	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.929	NA
Toluene	< 0.70	< 0.70	< 0.7	< 0.7	< 0.41	< 0.278	< 0.278	< 0.278	< 0.278	NA	< 0.7	< 0.7	< 0.70	< 0.70	< 0.7	< 0.7	< 0.7	< 0.41	< 0.278	< 0.278
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.149	< 0.149	< 0.149	< 0.149	NA	< 0.5	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.50	< 0.149	< 0.149
trans-1,3-Dichloropropene	NA	NA	NA	< 0.5	NA	< 0.118	< 0.118	NA	< 0.118	NA	< 0.5	< 0.5	NA	< 0.50	NA	NA	NA	NA	< 0.118	< 0.118
trans-1,4-Dichlorobutene	NA	NA	NA	< 1.0	NA	< 0.467	< 0.467	NA	< 0.467	NA	< 1.0	< 1.0	NA	< 1.0	NA	NA	NA	NA	< 0.467	< 0.467
Trichloroethene (TCE)	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.190	< 0.19	< 0.19	< 0.190	NA	< 0.5	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.50	< 0.190	< 0.19
Trichlorofluoromethane (Freon 11)	NA	NA	NA	< 0.52	NA	< 0.160	< 0.16	NA	< 0.160	NA	< 0.52	< 0.52	NA	< 0.52	NA	NA	NA	NA	< 0.160	< 0.16
Vinyl acetate	NA	NA	NA	< 2.0	NA	< 0.692	< 0.692	NA	< 0.692	NA	< 2.0	< 2.0	NA	< 2.0	NA	NA	NA	NA	< 0.692	< 0.692
Vinyl chloride	< 0.50	< 0.50	< 0.5	< 0.5	0.67 J	0.269 J	1.2	0.826 J	< 0.234	NA	< 0.5	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.50	< 0.234	< 0.234
Xylenes, Total	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 0.174	0.514 J	< 0.174	< 0.174	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 0.174	< 0.174

Notes:
mg/L = milligrams per liter
pg/L = picograms per liter
ug/L = micrograms per liter
2014 event performed in accordance with previous permit, with Appendix IX sampling at all program wells every 5 years; subsequent events perfomed annually at rotating list of wells per current permit

Data Qualifier Definitions:
B = The analyte was positively identified, the associated numerica value is estimated due to blank contamination
I = Interference present
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
NA = Not Analyzed
R = The sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified
U = The analyte was analyzed for but was not detected at a concentration greater than the reported sample quantitation limit
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample
< = Not detected at or above the associated Method Detection Limit
As described in annual CMERs, the constituents presented represent the established permit list in effect at time of sampling, and varies annually based on additional Appendix IX detections.
DQE flags may vary by lab and based on professional judgement applied by DQE analyst.

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID:	15-D	15-D	15-I	15-I	15-I	15-I	15-I	15-I	15-I	15-I	15-I	15-I	15-I	15-I	15-I	15-S	15-S	15-S	15-S
Sample Date:	6/20/2022	6/12/2023	6/26/2013	6/20/2014	6/4/2015	6/23/2016 App. IX Well	6/13/2017	6/13/2017 Duplicate	6/9/2018	6/9/2018 Duplicate	6/13/2019	9/16/2019 Resample	6/12/2020	6/14/2021 App. IX Well	6/21/2022	6/12/2023	6/27/2013	6/17/2014	6/3/2015	6/22/2016 App. IX Well
Sample Type:																				
1,2-Dibromoethane - SW846 8011, ug/L																				
1,2-Dibromo-3-Chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.00748	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.00536	NA	NA	NA	NA	NA	NA
Chlorinated Herbicides - SW846 8151, 8151A, 8321, ug/L																				
2,2-Dichloropropionic acid (Dalapon)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.344	NA	NA	NA	NA	NA	NA	NA
2,4,5-T	NA	< 0.573	NA	< 0.04	NA	< 0.080	NA	NA	NA	NA	NA	NA	< 0.258	< 0.258	NA	< 0.573	NA	< 0.04	NA	< 0.080
2,4,5-TP (Silvex)	< 0.335	< 0.807	NA	0.17 J	< 0.018	< 0.036	< 0.0036	< 0.0036	< 0.0073	< 0.0073	< 0.0073	NA	< 0.335	< 0.335	< 0.335	< 0.807	NA	< 0.018	< 0.018	< 0.036
2,4-D	NA	< 1.00	NA	< 0.26	NA	< 0.52	NA	NA	NA	NA	NA	NA	< 0.547	< 0.547	NA	< 1.00	NA	< 0.26	NA	< 0.52
2,4-DB	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.302	NA	NA	NA	NA	NA	NA	NA
Dicamba	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.245	NA	NA	NA	NA	NA	NA	NA
Dichlorprop	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.04	NA	NA	NA	NA	NA	NA	NA
Dinoseb	NA	NA	NA	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	< 0.250	NA	NA	NA	NA	< 0.16	NA	NA
MCPA (2-Methyl-4-Chlorophenoxyacetic acid)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 13.1	NA	NA	NA	NA	NA	NA	NA
MCPP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 66.0	NA	NA	NA	NA	NA	NA	NA
Cyanide - EPA 846 9012A, EPA 335.2, 335.4, mg/L																				
Cyanide	< 0.0012	< 0.0069	NA	< 0.0035	NA	< 0.0035	NA	NA	NA	NA	NA	NA	NA	0.00140 J	0.0026 U	< 0.0069	NA	< 0.0035	NA	< 0.0035
Dioxins/Furans - SW846 8290, 8290A, pg/L																				
1,2,3,4,6,7,8,9-OCDD (OCDD)	< 1.3	90 J	NA	NA	< 1.2	37 J	7.0 J	8.2 J	4.2 J	6.3 J	3.9 U	NA	6.3 IJ U	< 6.1	< 2.7	< 5.8	NA	NA	4.4 J	19 J
1,2,3,4,6,7,8,9-OCDF (OCDF)	< 1.4	< 2.6	NA	NA	< 1.1	4.8 J	2.3 J	5.5 J	< 1.2	1.5 J	< 1.7	NA	< 7.4	< 7.4	< 1.2	< 4.8	NA	NA	< 0.22	3.5 J
1,2,3,4,6,7,8-HpCDD	< 2.4	8.3 J	NA	NA	< 0.65	3.0 J	1.5 J	2.4 J	1.3 J	1.1 J	< 0.80	NA	< 3.1	< 3.5	< 0.92	< 1.9	NA	NA	0.52 J	1.8 J
1,2,3,4,6,7,8-HpCDF	< 0.74	< 1.7	NA	NA	< 0.35	1.6 J	1.1 J	2.1 J	< 0.9	0.48 J	< 0.94	NA	< 2.1	< 2.7	< 0.48	< 2.2	NA	NA	< 0.11	1.1 J
1,2,3,4,7,8,9-HpCDF	< 1.2	< 3.8	NA	NA	NA	1.1 J	1.0 J	2.1 J	< 1.0	4.4 J	< 1.1	NA	< 2.5	< 3.1	< 1	< 3.3	NA	NA	NA	< 0.36
1,2,3,4,7,8-HxCDD	< 1.3	< 0.8	NA	< 0.86	NA	< 0.29	NA	NA	NA	NA	1.6 J	NA	< 1.8	< 3.0	< 0.94	< 1.1	NA	< 0.92	NA	< 0.34
1,2,3,4,7,8-HxCDF	< 0.35	< 0.69	NA	< 0.7	NA	< 0.30	NA	NA	NA	NA	< 1.0	NA	< 1.2	< 1.6	< 0.27	< 1.4	NA	< 0.58	NA	< 0.43
1,2,3,6,7,8-HxCDD	< 1.3	< 1.0	NA	< 0.85	NA	< 0.28	NA	NA	NA	NA	< 0.79	NA	< 1.6	< 3.1	< 0.8	< 1.3	NA	< 0.91	NA	< 0.33
1,2,3,6,7,8-HxCDF	< 0.57	< 2.1	NA	< 0.64	NA	< 0.28	NA	NA	NA	NA	< 0.94	NA	< 0.84	< 2.4	< 0.34	< 3.1	NA	< 0.53	NA	< 0.39
1,2,3,7,8,9-HxCDD	< 1.3	< 1.0	NA	< 0.77	NA	< 0.24	NA	NA	NA	NA	< 0.78	NA	< 1.7	< 2.2	< 1.1	< 1.3	NA	< 0.83	NA	< 0.29
1,2,3,7,8,9-HxCDF	< 0.59	< 0.72	NA	< 0.73	NA	< 0.31	NA	NA	NA	NA	2.0 UJ	NA	< 1.6	< 1.4	< 0.23	< 1.6	NA	< 0.61	NA	< 0.44
1,2,3,7,8-PeCDD	< 0.65	< 0.71	NA	< 4.0	NA	< 0.40	NA	NA	NA	NA	< 1.3	NA	< 1.3	< 3.8	< 0.78	< 0.98	NA	< 3.9	NA	< 0.42
1,2,3,7,8-PeCDF	< 0.43	< 1.4	NA	< 3.9	NA	< 0.27	NA	NA	NA	NA	< 0.62	NA	< 1.7	< 2.2	< 0.42	< 0.97	NA	< 3.7	NA	< 0.34
2,3,4,6,7,8-HxCDF	< 0.57	< 0.59	NA	< 0.67	NA	< 0.30	NA	NA	NA	NA	< 1.0	NA	< 1.2	< 1.3	< 0.36	< 1.3	NA	< 0.56	NA	< 0.42
2,3,4,7,8-PeCDF	< 0.2	< 0.4	NA	< 4.1	NA	< 0.28	NA	NA	NA	NA	< 0.63	NA	< 0.91	< 1.9	< 0.26	< 0.56	NA	< 3.9	NA	< 0.35
2,3,7,8-TCDD	< 1	< 0.93	NA	< 1.5	NA	< 0.31	NA	NA	NA	NA	< 0.75	NA	< 1.7	< 7.7	< 1.0	< 0.73	NA	< 1.9	NA	< 0.29
2,3,7,8-TCDF	< 0.5	< 0.69	NA	< 1.2	NA	< 0.27	NA	NA	NA	NA	< 0.59	NA	< 1.3	< 3.7	< 0.3	< 0.47	NA	< 1.7	NA	< 0.22
TEQ-WHO 2005	NA	0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0064	NA	NA	NA	NA
Total HpCDD	< 2.4	16 J	NA	NA	< 0.65	4.9 J	3.1 J	3.8 J	3.4 J	2.7 J	< 2.4	NA	3.3 J	< 3.5	< 0.92	< 1.9	NA	NA	1.7 J	2.9 J
Total HpCDF	< 0.74	< 1.7	NA	NA	< 0.43	3.8 J	2.2 J	4.2 J	< 1.0	5.7 J	< 1.1	NA	< 2.1	< 2.7	< 0.48	< 2.2	NA	NA	< 0.11	1.1 J
Total HxCDD	< 1.3	< 0.8	NA	< 0.86	< 0.83	< 0.29	7.3 J	5.8 J	2.6 J	1.5 J	1.6 J	NA	< 1.6	< 2.2	< 0.8	< 1.1	NA	1.7 J	< 1.9	< 0.34
Total HxCDF	< 0.35	< 0.59	NA	< 0.73	< 0.39	< 0.31	5.0 J	8.0 J	3.7 J	6.6 J	2.0 UJ	NA	< 0.84	< 1.3	< 0.23	< 1.3	NA	< 0.61	< 1.9	< 0.44
Total PeCDD	< 0.65	< 0.71	NA	< 4.0	NA	< 0.40	NA	NA	NA	NA	< 1.3	NA	< 1.3	< 3.8	< 0.78	< 0.98	NA	< 3.9	NA	< 0.42
Total PeCDF	< 0.2	< 0.4	NA	< 4.1	NA	< 0.28	NA	NA	NA	NA	< 0.66	NA	< 0.91	< 1.9	< 0.26	< 0.56	NA	< 3.9	NA	< 0.35
Total TCDD	< 1	2.5 J	NA	< 1.5	0.66 J	< 0.31	0.59 J	0.96 J	< 0.67	< 2.0	< 1.2	NA	< 1.7	< 7.7	< 1	< 0.73	NA	< 1.9	1.5 J	4.0 J
Total TCDF	< 0.5	< 0.69	NA	< 1.2	NA	< 0.27	NA	NA	NA	NA	< 0.59	NA	< 1.3	< 3.7	< 0.3	< 0.47	NA	< 1.7	NA	< 0.22
Mercury, Total - SW846 7470, 7470A, mg/L																				
Mercury	< 0.00010	< 0.00010	NA	< 0.000091	< 0.00007	< 0.000070	< 0.00007	< 0.00007	< 0.00007	< 0.00007	0.000077 U	NA	NA	< 0.00010	< 0.00010	< 0.00010	NA	< 0.000091	< 0.00007	< 0.000070
Metals, Total - SW846 6010C, 6020, 6020A, mg/L																				
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	0.0014	< 0.00034	NA	< 0.01	NA	< 0.0010	NA	NA	NA	NA	NA	NA	NA	< 0.00063	< 0.00063	< 0.00068	NA	< 0.01	NA	< 0.0010
Arsenic	0.0059	0.0044	< 0.004	< 0.004	< 0.00066	< 0.00046	0.00083	0.00084	0.00098	0.0007	0.00099 J	NA	0.00086 J	< 0.00020	0.0042	0.0039	< 0.004	< 0.004	< 0.00066	< 0.00046
Barium	0.011	0.073	NA	0.11	0.08	0.051	0.09	0.086	0.083	0.051	0.079	NA	0.0764	0.0295	0.072	0.081	NA	0.12	0.11	0.068
Beryllium	< 0.00012	< 0.00021	NA	< 0.001	NA	< 0.00034	NA	NA	NA	NA	NA	NA	NA	< 0.00012	< 0.00012	< 0.00042	NA	< 0.001	NA	< 0.00034
Cadmium	< 0.000080	< 0.00019	NA	< 0.001	< 0.00059	< 0.00034	< 0.000068	< 0.000068	< 0.000068	< 0.000068	< 0.00025	NA	< 0.00008	< 0.000080	< 0.000080	0.0012 J	NA	< 0.001	< 0.00059	< 0.00034
Chromium	0.0012 J	< 0.00063	NA	< 0.002	< 0.00063	< 0.0011	0.00027 J	0.00036 J	0.00051	< 0.00022	< 0.0005	NA	< 0.00062	< 0.00062	< 0.00062	0.0020 J	NA	0.018	< 0.00063	< 0.0011
Cobalt	0.00012 J	0.0011	NA	< 0.003	0.00045 J	< 0.00040	0.00045 J	0.00045 J	0.00036 J	< 0.00008	0.00036	NA	0.00034 J	0.00025 J	0.0011	0.00079 J	NA	< 0.003	< 0.00025	0.0096
Copper	0.0012 J	< 0.0017	0.0024 J	< 0.002	< 0.0019	< 0.0021	0.0012	0.00069	0.00073	< 0.00042	< 0.0005	NA	< 0.00083	< 0.00083	< 0.00083	0.0067	0.021	0.0096 J	0.0024 J	< 0.0021
Lead	< 0.000070	< 0.00069	NA	0.0029 J	< 0.00017	< 0.00035	< 0.00007	< 0.00007	< 0.00007	< 0.00007	< 0.00017	NA	< 0.00007	< 0.000070	< 0.000070	< 0.0014	NA	0.0058	< 0.00017	< 0.00035
Nickel	0.0032 J	0.00069 J	NA	< 0.003	< 0.0007	< 0.0018	0.00071	0.00070	0.001	< 0.00036	< 0.00086	NA	0.00078 J	< 0.00056	< 0.00056	0.0027	NA	0.015	< 0.0007	0.012
Selenium	0.0010	< 0.00026	NA	0.0041 J	< 0.00033	< 0.00024	0.000095 J	0.000094 J	0.000056 J	0.000081 J	0.0038 U	NA	< 0.00037	< 0.00037	< 0.00037	< 0.00052	NA	0.0057 J	< 0.00033	< 0.00024
Silver	< 0.000080	< 0.00020	NA	< 0.002	NA	< 0.00011	NA	NA	NA	NA	NA	NA	NA	< 0.000080	< 0.000080	< 0.00040	NA	< 0.002	NA	< 0.00011
Thallium	< 0.000080	< 0.00011	NA	< 0.004	< 0.000017	< 0.000085	< 0.000017	< 0.000017	< 0.000017	< 0.000017	< 0.00014	NA	< 0.00008	< 0.000080	< 0.000080	< 0.00022	NA	< 0.004	< 0.000017	< 0.000085
Tin	< 0.00043	< 0.00065	NA	< 0.005	NA	< 0.0011	NA	NA	NA	NA	NA	NA	NA	< 0.00043	< 0.00043	0.0014 J	NA	< 0.005	NA	< 0.0011
Vanadium	0.018	< 0.00023	NA	0.0047 J	< 0.0022	< 0.0014	< 0.00028	< 0.00028	< 0.00028	< 0.00028	< 0.0013	NA	< 0.0023	< 0.0023	< 0.0023	0.0021 J	NA	0.0036 J	0.0026	< 0.0014
Zinc	< 0.0044	< 0.0072	NA	< 0.008	< 0.014	< 0.0065	NA	NA	NA	NA	NA	NA	< 0.0044	< 0.0044	< 0.0044	0.045	NA	0.023	< 0.014	< 0.0065
Organophosphorus Pesticides - SW846 8141, ug/L																				
Basudin, Neocidol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorpyrifos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Coumaphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dasanit	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Demeton	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Demeton-s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibrom	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorvos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethoate (Cygon)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disulfoton	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.227	NA	NA	NA	NA	NA	NA
EPN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethoprophos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl Parathion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.454	NA	NA	NA	NA	NA	NA
Fenthion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Folex	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	15-D 6/20/2022	15-D 6/12/2023	15-I 6/26/2013	15-I 6/20/2014	15-I 6/4/2015	15-I 6/23/2016 App. IX Well	15-I 6/13/2017	15-I 6/13/2017 Duplicate	15-I 6/9/2018	15-I 6/9/2018 Duplicate	15-I 6/13/2019	15-I 9/16/2019 Resample	15-I 6/12/2020	15-I 6/14/2021 App. IX Well	15-I 6/21/2022	15-I 6/12/2023	15-S 6/27/2013	15-S 6/17/2014	15-S 6/3/2015	15-S 6/22/2016 App. IX Well
Guthion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Malathion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl parathion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.383	NA	NA	NA	NA	NA	NA
Mevinphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phorate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.276	NA	NA	NA	NA	NA	NA
Ronnel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfotepp	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.181	NA	NA	NA	NA	NA	NA
Sulprofos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachlorvinphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetraethyl diphosphate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tokuthion (Prothiofos)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloronate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organophosphorus Pesticides - SW846 8270-PEST, ug/L																				
Dimethoate (Cygon)	NA	< 5.05	NA	< 14	NA	< 0.25	NA	NA	NA	NA	NA	NA	< 5.05	< 5.05	NA	< 5.05	NA	< 3.0	NA	< 0.25
Disulfoton	NA	NA	NA	< 14	NA	< 0.39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	NA	< 0.39
Ethyl Parathion	NA	NA	NA	< 14	NA	< 0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	NA	< 0.19
Famphur	NA	< 3.92	NA	< 14	NA	< 0.26	NA	NA	NA	NA	NA	NA	< 3.92	< 3.92	NA	< 3.92	NA	< 3.0	NA	< 0.26
Methyl parathion	NA	NA	NA	< 14	NA	< 0.18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	NA	< 0.18
Phorate	NA	NA	NA	< 14	NA	< 0.22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	NA	< 0.22
Sulfotepp	NA	< 3.99	NA	< 14	NA	< 0.24	NA	NA	NA	NA	NA	NA	< 3.99	< 3.99	NA	< 3.99	NA	< 3.0	NA	< 0.24
Thionazin	NA	< 4.07	NA	< 14	NA	< 0.21	NA	NA	NA	NA	NA	NA	< 4.07	< 4.07	NA	< 4.07	NA	< 3.0	NA	< 0.21
Pesticides - SW846 8081, 8081A, 8081B, ug/L																				
4,4'-DDD	NA	< 0.0196	NA	< 0.0029	NA	< 0.0030	NA	NA	NA	NA	NA	NA	NA	< 0.0177 UJ	NA	< 0.0177	NA	< 0.0029	NA	< 0.0030
4,4'-DDE	NA	< 0.0171	NA	< 0.0021	NA	< 0.0040	NA	NA	NA	NA	NA	NA	NA	< 0.0154 UJ	NA	< 0.0154	NA	< 0.0021	NA	< 0.0040
4,4'-DDT	NA	< 0.0220	NA	< 0.0037	NA	< 0.0039	NA	NA	NA	NA	NA	NA	NA	< 0.0198 UJ	NA	< 0.0198	NA	< 0.0038	NA	< 0.0039
Aldrin	< 0.0198	< 0.0220	NA	< 0.0029	NA	< 0.003	NA	NA	NA	NA	NA	NA	NA	< 0.0198	< 0.0198	< 0.0198	NA	< 0.0029	NA	< 0.003
alpha-BHC	NA	< 0.0191	NA	< 0.0034	NA	< 0.0036	NA	NA	NA	NA	NA	NA	NA	< 0.0172	NA	< 0.0172	NA	< 0.0035	NA	< 0.0036
alpha-Chlordane	NA	NA	NA	NA	NA	< 0.0042	NA	NA	NA	NA	NA	NA	NA	< 0.0149 UJ	NA	NA	NA	NA	NA	< 0.0042
beta-BHC	NA	< 0.0231	NA	< 0.0029	NA	< 0.0030	NA	NA	NA	NA	NA	NA	NA	< 0.0208	NA	< 0.0208	NA	< 0.0029	NA	< 0.0030
beta-Chlordane	NA	NA	NA	NA	NA	< 0.0032	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0032
Chlordane	NA	< 0.0220	NA	< 0.12	NA	< 0.13	NA	NA	NA	NA	NA	NA	NA	< 0.0198	NA	< 0.0198	NA	< 0.13	NA	< 0.13
Chlordane, technical	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzilate	NA	NA	NA	< 0.037	NA	< 0.039	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.038	NA	< 0.039
delta-BHC	NA	< 0.0167	NA	< 0.002	NA	< 0.0027	NA	NA	NA	NA	NA	NA	NA	< 0.015	NA	< 0.0150	NA	< 0.002	NA	< 0.0027
Dieldrin	NA	< 0.0180	NA	< 0.0029	NA	< 0.0059	NA	NA	NA	NA	NA	NA	NA	< 0.0162 UJ	NA	< 0.0162	NA	< 0.0029	NA	< 0.0059
Endosulfan I	NA	< 0.0178	NA	< 0.0029	NA	< 0.0030	NA	NA	NA	NA	NA	NA	NA	< 0.016 UJ	NA	< 0.0160	NA	< 0.0029	NA	< 0.0030
Endosulfan II	NA	< 0.0182	NA	< 0.007	NA	< 0.0074	NA	NA	NA	NA	NA	NA	NA	< 0.0164	NA	< 0.0164	NA	< 0.0072	NA	< 0.0074
Endosulfan sulfate	NA	< 0.0241	NA	< 0.002	NA	< 0.0021	NA	NA	NA	NA	NA	NA	NA	< 0.0217 UJ	NA	< 0.0217	NA	< 0.002	NA	< 0.0021
Endrin	NA	< 0.0179	NA	< 0.0029	NA	< 0.0030	NA	NA	NA	NA	NA	NA	NA	< 0.0161 UJ	NA	< 0.0161	NA	< 0.0029	NA	< 0.0030
Endrin aldehyde	NA	< 0.0263	NA	< 0.0027	NA	< 0.0028	NA	NA	NA	NA	NA	NA	NA	< 0.0237	NA	< 0.0237	NA	< 0.0027	NA	< 0.0028
Endrin ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	NA	< 0.0232	NA	< 0.024	NA	< 0.025	NA	NA	NA	NA	NA	NA	NA	< 0.0209	NA	< 0.0209	NA	< 0.024	NA	< 0.025
gamma-Chlordane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0137 UJ	NA	NA	NA	NA	NA	NA
Heptachlor	NA	< 0.0164	NA	< 0.003	NA	< 0.0031	NA	NA	NA	NA	NA	NA	NA	< 0.0148	NA	< 0.0148	NA	< 0.003	NA	< 0.0031
Heptachlor Epoxide	NA	< 0.0203	NA	< 0.003	NA	< 0.0032	NA	NA	NA	NA	NA	NA	NA	< 0.0183 UJ	NA	< 0.0183	NA	< 0.0031	NA	< 0.0032
Hexachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	NA	< 0.0214	NA	< 0.0039	NA	< 0.0041	NA	NA	NA	NA	NA	NA	NA	< 0.0193 UJ	NA	< 0.0193	NA	< 0.004	NA	< 0.0041
Toxaphene	NA	< 0.186	NA	< 0.29	NA	< 0.40	NA	NA	NA	NA	NA	NA	NA	< 0.168	NA	< 0.168	NA	< 0.29	NA	< 0.40
Phenolics - E420.1, E420.4, SW9065, mg/L																				
Total Recoverable Phenolics	0.0322 J	0.010 J	0.033	NA	< 0.0045	< 0.0045	0.008 J	0.011	0.012	< 0.0045	< 0.09	NA	0.058	0.0132 U	< 0.0250	< 0.0093	< 0.0045	< 0.0045	< 0.0045	< 0.0045
Polychlorinated Biphenyl (PCB) - SW846 8082, 8082A, ug/																				
PCB-1016	NA	NA	NA	< 0.046	NA	< 0.048	NA	NA	NA	NA	NA	NA	NA	< 0.16	NA	NA	NA	< 0.047	NA	< 0.048
PCB-1221	NA	NA	NA	< 0.21	NA	< 0.22	NA	NA	NA	NA	NA	NA	NA	< 0.33	NA	NA	NA	< 0.21	NA	< 0.22
PCB-1232	NA	NA	NA	< 0.095	NA	< 0.41	NA	NA	NA	NA	NA	NA	NA	< 0.4	NA	NA	NA	< 0.097	NA	< 0.41
PCB-1242	NA	NA	NA	< 0.032	NA	< 0.18	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 0.033	NA	< 0.18
PCB-1248	NA	NA	NA	< 0.019	NA	< 0.020	NA	NA	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	< 0.019	NA	< 0.020
PCB-1254	NA	NA	NA	< 0.054	NA	< 0.31	NA	NA	NA	NA	NA	NA	NA	< 0.16	NA	NA	NA	< 0.055	NA	< 0.31
PCB-1260	NA	NA	NA	< 0.032	NA	< 0.034	NA	NA	NA	NA	NA	NA	NA	< 0.15	NA	NA	NA	< 0.033	NA	< 0.034
PCB-1262	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1268	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semi-Volatile Organic Compounds - SW846 8270C, 8270D																				
1,2,4,5-Tetrachlorobenzene	NA	< 0.0647	NA	< 2.5	NA	< 0.52	NA	NA	NA	NA	NA	NA	< 0.0647	< 0.0647	NA	< 0.0647	NA	< 0.52	NA	< 0.52
1,2,4-Trichlorobenzene	NA	< 0.0698	NA	< 2.5	NA	< 0.53	NA	NA	NA	NA	NA	NA	< 0.0698	< 0.0698	NA	< 0.0698	NA	< 0.53	NA	< 0.53
1,2-Dichlorobenzene	NA	< 0.0713	NA	< 2.7	NA	< 0.57	NA	NA	NA	NA	NA	NA	< 0.0713	< 0.0713	NA	< 0.0713	NA	< 0.57	NA	< 0.57
1,3,5-Trinitrobenzene	NA	< 1.32	NA	< 9.5	NA	< 2.0	NA	NA	NA	NA	NA	NA	< 1.32	< 1.32	NA	< 1.32	NA	< 2.0	NA	< 2.0
1,3-Dichlorobenzene	NA	< 0.132	NA	< 2.2	NA	< 0.47	NA	NA	NA	NA	NA	NA	< 0.132	< 0.132	NA	< 0.132	NA	< 0.47	NA	< 0.47
1,3-Dinitrobenzene	NA	< 0.359	NA	< 4.8	NA	< 1.0	NA	NA	NA	NA	NA	NA	< 0.359	< 0.359	NA	< 0.359	NA	< 1.0	NA	< 1.0
1,4-Dichlorobenzene	NA	< 0.0942	NA	< 2.5	NA	< 0.52	NA	NA	NA	NA	NA	NA	< 0.0942	< 0.0942	NA	< 0.0942	NA	< 0.52	NA	< 0.52
1,4-Dioxane (p-Dioxane)	< 0.0447	0.175 J	NA	< 4.8	< 1.0	< 1.0	< 1.0	< 1.3	< 1.1	< 1.3	< 1.2	NA	NA	< 0.0447	0.0791 U	0.167 J	NA	< 1.0	< 1.0	< 1.0
1,4-Naphthoquinone	NA	< 5.56	NA	< 19	NA	< 4.0	NA	NA	NA	NA	NA	NA	< 5.56 R	< 5.56 R	NA	< 5.56	NA	< 4.0	NA	< 4.0
1-Methylnaphthalene	2.51	< 0.0790	10	46 J	0.055 J	3.4 B	1.4 B	1.1 B	2.8	5.5	8.0	NA	4.65	< 0.079	0.0963 J	0.0880 J	0.11 J	< 0.5	< 0.020	< 0.020
1-Naphthylamine	< 0.289	< 0.289	< 2.7	< 19	< 4.0	< 4.0	< 4.1	< 5.3	< 4.4	< 5.4	< 5.0	NA	< 0.289	< 0.289	< 0.289	< 0.289	< 2.7	< 4.0	< 4.0	< 4.0
2,2'-Oxybis(1-chloropropane)	NA	< 0.210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	NA	< 0.210	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NA	< 0.231	NA	< 3.0	NA	< 0.64	NA	NA	NA	NA	NA	NA	< 0.231	< 0.231	NA	< 0.231	NA	< 0.64	NA	< 0.64
2,4,5-Trichlorophenol	NA	< 0.109	NA	< 18	NA	< 3.7	NA	NA	NA	NA	NA	NA	< 0.109	< 0.109	NA	< 0.109	NA	< 3.7	NA	< 3.7
2,4,6-Trichlorophenol	NA	< 0.100	NA	< 17	NA	< 3.5	NA	NA	NA	NA	NA	NA	< 0.100	< 0.1	NA	< 0.100	NA	< 3.5	NA	< 3.5
2,4-Dichlorophenol	NA	< 0.102	NA	< 14	NA	< 3.0	NA	NA	NA	NA	NA	NA	< 0.102	< 0.102	NA	< 0.102	NA	< 3.0	NA	< 3.0
2,4-Dimethylphenol	< 0.0636	< 0.0636	< 3.3	< 17	< 3.5	< 3.5	< 3.6	< 4.6	< 3.9	< 4.7	< 4.3	NA	< 0.0636	< 0.0636	< 0.0636	< 0.0636	< 3.4	< 3.5	< 3.5	< 3.5

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID:	15-D	15-D	15-I	15-I	15-I	15-I	15-I	15-I	15-I	15-I	15-I	15-I	15-I	15-I	15-I	15-I	15-S	15-S	15-S	15-S
Sample Date:	6/20/2022	6/12/2023	6/26/2013	6/20/2014	6/4/2015	6/23/2016	6/13/2017	6/13/2017	6/9/2018	6/9/2018	6/13/2019	9/16/2019	6/12/2020	6/14/2021	6/21/2022	6/12/2023	6/27/2013	6/17/2014	6/3/2015	6/22/2016
Sample Type:						App. IX Well		Duplicate		Duplicate		Resample		App. IX Well						App. IX Well
2,4-Dinitrophenol	NA	< 5.93	NA	< 16	NA	< 3.4	NA	NA	NA	NA	NA	NA	< 5.93	< 5.93	NA	< 5.93	NA	< 3.4	NA	< 3.4
2,4-Dinitrotoluene	NA	< 0.0983	NA	< 9.0	NA	< 1.9	NA	NA	NA	NA	NA	NA	< 0.0983	< 0.0983	NA	< 0.0983	NA	< 1.9	NA	< 1.9
2,6-Dichlorophenol	NA	< 0.102	NA	< 19	NA	< 4.0	NA	NA	NA	NA	NA	NA	< 0.102	< 0.102	NA	< 0.102	NA	< 4.0	NA	< 4.0
2,6-Dinitrotoluene	NA	< 0.250	NA	< 9.0	NA	< 1.9	NA	NA	NA	NA	NA	NA	< 0.250	< 0.25	NA	< 0.250	NA	< 1.9	NA	< 1.9
2-Acetylaminofluorene	NA	< 0.253	NA	< 19	NA	< 4.0	NA	NA	NA	NA	NA	NA	< 0.253	< 0.253	NA	< 0.253	NA	< 4.0	NA	< 4.0
2-Chloronaphthalene	NA	< 0.0648	NA	< 2.5	NA	< 0.52	NA	NA	NA	NA	NA	NA	< 0.0648	< 0.0648	NA	< 0.0648	NA	< 0.52	NA	< 0.52
2-Chlorophenol	NA	< 0.133	NA	< 10	NA	< 2.2	NA	NA	NA	NA	NA	NA	< 0.133	< 0.133	NA	< 0.133	NA	< 2.2	NA	< 2.2
2-Methylaniline (o-Toluidine)	< 3.53	< 3.53	< 0.95	< 29	< 6.0	< 6.0	< 6.1	< 7.9	< 6.6	< 8.1	< 7.4	NA	4.23 J	< 3.53	< 3.53	< 3.53	< 0.98	< 6.0	< 6.0	< 6.0
2-Methylnaphthalene	< 0.117	< 0.117	2.0	23 J	< 6.3	0.12 J	0.19 J	0.053 J	0.089 J	10	0.50	NA	< 0.117	< 0.117	< 0.117	< 0.117	0.12 J	< 0.54	< 6.3	< 0.020
2-Methylphenol (o-Cresol)	NA	< 0.0929	NA	< 8.6	NA	< 1.8	NA	NA	NA	NA	NA	NA	< 0.0929	< 0.0929	NA	< 0.0929	NA	< 1.8	NA	< 1.8
2-Naphthylamine	< 4.48	< 4.48	< 2.8	< 19	< 4.0	< 4.0	< 4.1	< 5.3	< 4.4	< 5.4	< 5.0	NA	< 4.48	< 4.48	< 4.48	< 4.48	< 2.8	< 4.0	< 4.0	< 4.0
2-Nitroaniline	NA	< 0.102	NA	< 10	NA	< 2.2	NA	NA	NA	NA	NA	NA	< 0.102	< 0.102	NA	< 0.102	NA	< 2.2	NA	< 2.2
2-Nitrophenol	NA	< 0.117	NA	< 3.1	NA	< 0.65	NA	NA	NA	NA	NA	NA	< 0.117	< 0.117	NA	< 0.117	NA	< 0.65	NA	< 0.65
2-Picoline	NA	< 6.83	NA	< 29	NA	< 6.0	NA	NA	NA	NA	NA	NA	< 6.83	< 6.83	NA	< 6.83	NA	< 6.0	NA	< 6.0
3,3'-Dichlorobenzidine	NA	< 0.212	NA	< 12	NA	< 2.6	NA	NA	NA	NA	NA	NA	< 0.212	< 0.212	NA	< 0.212	NA	< 2.6	NA	< 2.6
3,3'-Dimethylbenzidine	NA	< 3.39	NA	< 38	NA	< 8.0	NA	NA	NA	NA	NA	NA	< 3.39	< 3.39	NA	< 3.39	NA	< 8.0	NA	< 8.0
3+4-Methylphenol (m,p-Cresol)	< 0.168	< 0.168	< 0.37	NA	< 1.0	< 1.0	< 1.1	< 1.4	< 1.1	< 1.4	< 1.3	NA	< 0.168	< 0.168	< 0.168	< 0.168	< 0.38	NA	< 1.0	< 1.0
3-Methylchloranthrene	NA	< 0.164	NA	< 10	NA	< 2.2	NA	NA	NA	NA	NA	NA	< 0.164	< 0.164	NA	< 0.164	NA	< 2.2	NA	< 2.2
3-Methylphenol (m-Cresol)	NA	NA	NA	< 1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.39	NA	NA
3-Nitroaniline	NA	< 0.0869	NA	< 8.6	NA	< 1.8	NA	NA	NA	NA	NA	NA	< 0.0869	< 0.0869	NA	< 0.0869	NA	< 1.8	NA	< 1.8
4,6-Dinitro-2-Methylphenol	NA	< 1.12	NA	< 9.5	NA	< 2.0	NA	NA	NA	NA	NA	NA	< 1.12	< 1.12	NA	< 1.12	NA	< 2.0	NA	< 2.0
4-Aminobiphenyl	NA	< 0.461	NA	< 20	NA	< 4.2	NA	NA	NA	NA	NA	NA	< 0.461	< 0.461	NA	< 0.461	NA	< 4.2	NA	< 4.2
4-Bromophenyl phenyl ether	NA	< 0.0877	NA	< 1.5	NA	< 0.32	NA	NA	NA	NA	NA	NA	< 0.0877	< 0.0877	NA	< 0.0877	NA	< 0.32	NA	< 0.32
4-Chloro-3-Methylphenol	NA	< 0.131	NA	< 18	NA	< 3.8	NA	NA	NA	NA	NA	NA	< 0.131	< 0.131	NA	< 0.131	NA	< 3.8	NA	< 3.8
4-Chloroaniline	NA	< 0.234	NA	< 16	NA	< 3.4	NA	NA	NA	NA	NA	NA	< 0.234	< 0.234	NA	< 0.234	NA	< 3.4	NA	< 3.4
4-Chlorophenyl phenyl ether	NA	< 0.0926	NA	< 9.5	NA	< 2.0	NA	NA	NA	NA	NA	NA	< 0.0926	< 0.0926	NA	< 0.0926	NA	< 2.0	NA	< 2.0
4-Dimethylaminoazobenzene	NA	< 3.69	NA	< 11	NA	< 2.3	NA	NA	NA	NA	NA	NA	< 3.69	< 3.69	NA	< 3.69	NA	< 2.3	NA	< 2.3
4-Methylphenol (p-Cresol)	NA	NA	NA	< 1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.39	NA	NA
4-Nitroaniline	NA	< 0.0910	NA	< 12	NA	< 2.5	NA	NA	NA	NA	NA	NA	< 0.0910	< 0.091	NA	< 0.0910	NA	< 2.5	NA	< 2.5
4-Nitrophenol	NA	< 0.143	NA	< 10	NA	< 2.1	NA	NA	NA	NA	NA	NA	< 0.143	< 0.143	NA	< 0.143	NA	< 2.1	NA	< 2.1
4-Nitroquinoline-N-Oxide	NA	< 2.03	NA	< 9.5	NA	< 2.0	NA	NA	NA	NA	NA	NA	< 2.03	< 2.03	NA	< 2.03	NA	< 2.0	NA	< 2.0
5-Nitro-O-Toluidine	NA	< 1.99	NA	< 14	NA	< 3.0	NA	NA	NA	NA	NA	NA	< 1.99	< 1.99	NA	< 1.99	NA	< 3.0	NA	< 3.0
7,12-Dimethylbenz(a)anthracene	NA	< 1.71	NA	< 18	NA	< 3.7	NA	NA	NA	NA	NA	NA	< 1.71	< 1.71	NA	< 1.71	NA	< 3.7	NA	< 3.7
Acenaphthene	4.74	< 0.0886	8.6	52 J	0.63	9.2 B	6.9	5.7	14	37	37	NA	11.5	0.312 J	0.334 U	0.192 J	0.83	0.7 J	1.6	< 0.020
Acenaphthylene	< 0.0921	< 0.0921	< 0.019	< 2.7	< 0.020	< 0.020	0.17 J	0.042 J	< 0.022	< 0.45	< 0.025	NA	< 0.0921	< 0.0921	< 0.0921	< 0.0921	< 0.02	< 0.56	< 0.020	< 0.020
Acetophenone	NA	< 0.208	NA	< 3.0	NA	< 0.62	NA	NA	NA	NA	NA	NA	< 0.208	< 0.208	NA	< 0.208	NA	< 0.62	NA	< 0.62
alpha, alpha-Dimethylphenethylamine	NA	< 3.13	NA	< 48	NA	< 10	NA	NA	NA	NA	NA	NA	< 3.13 R	< 3.13 R	NA	< 3.13	NA	< 10	NA	< 10
Aniline	NA	< 1.65	NA	< 18	NA	< 3.8	NA	NA	NA	NA	NA	NA	< 1.65	< 1.65	NA	< 1.65	NA	< 3.8	NA	< 3.8
Anthracene	< 0.0804	< 0.0804	0.13 J	< 2.0	0.053 J	0.080 J	0.075 J	0.051 J	< 0.022	10	0.24 U	NA	0.119 J	< 0.0804	< 0.0804	< 0.0804	0.065 J	< 0.42	< 0.020	< 0.020
Aramite	NA	< 16.7	NA	< 9.5	NA	< 2.0	NA	NA	NA	NA	NA	NA	< 16.7	< 16.7	NA	< 16.7	NA	< 2.0	NA	< 2.0
Benzo(a)anthracene	< 0.199	< 0.199	< 0.038	< 1.6	< 0.092	< 0.040	< 0.041	< 0.041	< 0.044	1.0 J	< 0.050	NA	< 0.199	< 0.199	< 0.199	< 0.199	< 0.039	< 0.34	< 0.092	< 0.040
Benzo(a)pyrene	< 0.0381	< 0.0381	< 0.038	< 2.0	< 0.20	< 0.040	< 0.041	< 0.041	< 0.044	< 0.89	< 0.050	NA	< 0.0381	< 0.0381	< 0.0381	< 0.0381	< 0.039	< 0.43	< 0.20	< 0.040
Benzo(b)fluoranthene	< 0.13	< 0.130	< 0.038	< 1.8	< 0.092	< 0.040	< 0.041	< 0.041	< 0.044	< 0.89	< 0.050	NA	< 0.130	< 0.13	< 0.13	< 0.130	< 0.039	< 0.38	< 0.092	< 0.040
Benzo(g,h,i)perylene	< 0.121	< 0.121	< 0.038	< 5.0	< 0.040	< 0.040	< 0.041	< 0.041	< 0.044	< 0.89	< 0.050	NA	< 0.121	< 0.121	< 0.121	< 0.121	< 0.039	< 1.1	< 0.040	< 0.040
Benzo(k)fluoranthene	< 0.12	< 0.120	< 0.038	< 2.6	< 0.92	< 0.040	< 0.041	< 0.041	< 0.044	< 0.89	< 0.050	NA	< 0.120	< 0.12	< 0.12	< 0.120	< 0.039	< 0.54	< 0.92	< 0.040
Benzyl Alcohol	NA	< 0.563	NA	< 9.5	NA	< 2.0	NA	NA	NA	NA	NA	NA	< 0.563	< 0.563	NA	< 0.563	NA	< 2.0	NA	< 2.0
bis(2-Chloroethoxy)methane	NA	< 0.116	NA	< 3.3	NA	< 0.69	NA	NA	NA	NA	NA	NA	< 0.116	< 0.116	NA	< 0.116	NA	< 0.69	NA	< 0.69
bis(2-Chloroethyl)ether	NA	< 0.137	NA	< 3.5	NA	< 0.74	NA	NA	NA	NA	NA	NA	< 0.137	< 0.137	NA	< 0.137	NA	< 0.74	NA	< 0.74
bis(2-Chloroisopropyl)ether	NA	NA	NA	< 3.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.81	NA	NA
bis(2-Ethylhexyl)phthalate	< 0.895	< 0.895	< 1.9	< 11	< 6.0	< 2.3	4.2 J	3.2 J	< 2.5	< 3.0	< 6.2	NA	< 0.895	< 0.895	< 0.895	< 0.895	< 2.0	8.9 J	< 6.0	410
Butyl benzyl phthalate	NA	< 0.765	NA	< 3.3	NA	< 0.69	NA	NA	NA	NA	NA	NA	< 0.765	< 0.765	NA	< 0.765	NA	< 0.69	NA	< 0.69
Chlorobenzilate	NA	< 3.84	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.84	NA	< 3.84	NA	NA	NA	NA
Chrysene	< 0.13	< 0.130	< 0.038	< 2.3	< 9.2	< 0.040	< 0.041	< 0.041	< 0.044	< 0.89	< 0.050	NA	< 0.130	< 0.13	< 0.13	< 0.130	< 0.039	< 0.49	< 9.2	< 0.040
Diallate	NA	< 0.524	NA	< 14	NA	< 3.0	NA	NA	NA	NA	NA	NA	< 0.524	< 0.524	NA	< 0.524	NA	< 3.0	NA	< 3.0
Dibenzo(a,h)anthracene	NA	< 0.0644	NA	< 5.6	NA	< 1.2	NA	NA	NA	NA	NA	NA	< 0.0644	< 0.0644	NA	< 0.0644	NA	< 1.2	NA	< 1.2
Dibenzofuran	< 0.097	< 0.0970	0.94 J	11 J	< 1.2	0.56 J	< 0.53	< 0.68	< 0.57	14	< 0.64	NA	< 0.0970	< 0.097	< 0.097	< 0.0970	< 0.17	< 0.52	< 1.2	< 0.52
Diethyl phthalate	NA	< 0.287	NA	< 3.3	NA	< 0.70	NA	NA	NA	NA	NA	NA	< 0.287	< 0.287	NA	0.576 J	NA	< 0.7	NA	< 0.70
Dimethyl phthalate	NA	< 0.260	NA	< 2.9	NA	< 0.60	NA	NA	NA	NA	NA	NA	< 0.260	< 0.26	NA	< 0.260	NA	< 0.6	NA	< 0.60
Di-n-butyl phthalate	NA	< 0.453	NA	NA	NA	< 2.7	NA	NA	NA	NA	NA	NA	< 0.453	< 0.453	NA	< 0.453	NA	NA	NA	< 2.7
Di-n-octyl phthalate	< 0.932	< 0.932	< 0.16	< 2.1	< 0.44	< 0.44	< 0.45	< 0.58	< 0.49	< 0.59	0.98 J	NA	< 0.932	< 0.932	< 0.932	< 0.932	< 0.17	< 0.44	< 0.44	0.91 J
Dinoseb	NA	< 8.01	NA	NA	NA	< 3.0	NA	NA	NA	NA	NA	NA	< 8.01	< 8.01	NA	< 8.01	NA	NA	NA	< 3.0
Diphenylamine	NA	< 2.37	NA	< 14	NA	< 3.0	NA	NA	NA	NA	NA	NA	< 2.37	< 2.37	NA	< 2.37	NA	< 3.0	NA	< 3.0
Ethyl methanesulfonate	NA	< 0.326	NA	< 14	NA	< 3.0	NA	NA	NA	NA	NA	NA	< 0.326	< 0.326	NA	< 0.326	NA	< 3.0	NA	< 3.0
Fluoranthene	< 0.102	< 0.102	< 0.019	< 3.7	0.02 J	0.025 J	0.039 J	0.030 J	< 0.022	11	0.035 U	NA	< 0.102	< 0.102	< 0.102	< 0.102	< 0.02	< 0.77	< 0.020	0.23
Fluorene	0.347 J	< 0.0844	1.4	14 J	0.11 J	0.95	0.52	0.41	0.36	29	0.78	NA	< 0.0844	< 0.0844	0.139 U	< 0.0844	< 0.021	< 0.56	< 0.021	< 0.021
Hexachlorobenzene	NA	< 0.0755	NA	< 1.2	NA	< 0.25	NA	NA	NA	NA	NA	NA	< 0.0755	< 0.0755	NA	< 0.0755	NA	< 0.25	NA	< 0.25
Hexachlorobutadiene	NA	< 0.0968	NA	< 17	NA	< 3.6	NA	NA	NA	NA	NA	NA	< 0.0968	< 0.0968	NA	< 0.0968	NA	< 3.6	NA	< 3.6
Hexachlorocyclopentadiene	NA	< 0.0598	NA	< 12	NA	< 2.6	NA	NA	NA	NA	NA	NA	< 0.0598	< 0.0598	NA	< 0.0598	NA	< 2.6	NA	< 2.6
Hexachloroethane	< 0.127	< 0.127	< 4.0	< 20	< 4.8	< 4.2	< 4.3	< 5.5	< 4.6	< 5.6	< 5.2	NA	< 0.127	< 0.127	< 0.127	< 0.127	< 4.1	< 4.2	< 4.8	< 4.2
Hexachlorophene	NA	< 1.44	NA	< 480	NA	< 100	NA	NA	NA	NA	NA	NA	< 1.44	< 1.44	NA	< 1.44	NA	< 100	NA	< 100
Hexachloropropene	NA	< 0.149	NA	< 9.5	NA	< 2.0	NA	NA	NA	NA	NA	NA	< 0.149	< 0.149	NA	< 0.149	NA	< 2.0	NA	< 2.0
Indeno(1,2,3-cd)pyrene	< 0.279	< 0.279	< 0.038	< 4.9	< 0.092	< 0.040	< 0.041	< 0.041	< 0.044	< 0.89	< 0.050	NA	< 0.279	< 0.279	< 0.279	< 0.279	< 0.039	< 1.0	< 0.092	< 0.040
Isodrin	NA	< 4.11	NA	< 14	NA	< 3.0	NA	NA	NA	NA	NA	NA	< 4.11	< 4.11	NA	< 4.11	NA	< 3.0	NA	< 3.0
Isophorone	NA	< 0.143	NA	< 2.7	NA	< 0.57	NA	NA	NA	NA	NA	NA	< 0.143	< 0.143	NA	< 0.143	NA	< 0.57	NA	< 0.57
Isosafrole	NA	< 3.88	NA	< 14	NA	< 3.0	NA	NA	NA	NA	NA	NA	< 3.88	< 3.88	NA	< 3.88	NA	< 3.0	NA	< 3.0
Kepone	NA	< 2.66	NA	< 0.95	NA	< 0.20	NA	NA	NA	NA	NA	NA	< 2.66	< 2.66	NA	< 2.66	NA	< 0.2	NA	< 0.20
Methapyrilene	NA	< 10.0	NA	< 38	NA	< 8.0	NA	NA	NA	NA	NA	NA	< 10.0	< 10 R	NA	< 10.0	NA	< 8.0	NA	< 8.0
Methyl methanesulfonate	NA	< 3.40	NA	< 14	NA	< 3.0	NA	NA	NA	NA	NA	NA	< 3.40	< 3.4	NA	< 3.40	NA	< 3.0	NA	< 3.0
Naphthalene	0.161 J	< 0.159	19	58 J	< 0.62	0.053 J	0.2 B	0.052 J	0.094 J	2.7 J	0.11 J	NA	< 0.159	< 0.159	< 0.159	< 0.159	< 0.02	< 0.63	< 0.62	0.052 J

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	15-D 6/20/2022	15-D 6/12/2023	15-I 6/26/2013	15-I 6/20/2014	15-I 6/4/2015	15-I 6/23/2016 App. IX Well	15-I 6/13/2017	15-I 6/13/2017 Duplicate	15-I 6/9/2018	15-I 6/9/2018 Duplicate	15-I 6/13/2019	15-I 9/16/2019 Resample	15-I 6/12/2020	15-I 6/14/2021 App. IX Well	15-I 6/21/2022	15-I 6/12/2023	15-S 6/27/2013	15-S 6/17/2014	15-S 6/3/2015	15-S 6/22/2016 App. IX Well
Nitrobenzene	NA	< 0.297	NA	< 2.6	NA	< 0.55	NA	NA	NA	NA	NA	NA	< 0.297	< 0.297	NA	< 0.297	NA	< 0.55	NA	< 0.55
N-Nitrosodiethylamine	NA	< 3.57	NA	< 23	NA	< 4.8	NA	NA	NA	NA	NA	NA	< 3.57	< 3.57	NA	< 3.57	NA	< 4.8	NA	< 4.8
N-Nitrosodimethylamine	NA	< 0.998	NA	< 17	NA	< 3.5	NA	NA	NA	NA	NA	NA	< 0.998	< 0.998	NA	< 0.998	NA	< 3.5	NA	< 3.5
N-Nitrosodi-n-butylamine	NA	< 3.91	NA	< 20	NA	< 4.3	NA	NA	NA	NA	NA	NA	< 3.91	< 3.91	NA	< 3.91	NA	< 4.3	NA	< 4.3
N-Nitrosodi-n-propylamine	NA	< 0.261	NA	< 16	NA	< 3.3	NA	NA	NA	NA	NA	NA	< 0.261	< 0.261	NA	< 0.261	NA	< 3.3	NA	< 3.3
N-Nitrosodiphenylamine	< 2.37	< 2.37	< 0.17	< 2.2	< 1.0	< 0.47	< 0.48	< 0.62	< 0.52	< 0.63	< 0.58	NA	< 2.37	< 2.37	< 2.37	< 2.37	< 0.18	< 0.47	< 1.0	< 0.47
N-Nitrosomethylethylamine	NA	< 3.25	NA	< 14	NA	< 3.0	NA	NA	NA	NA	NA	NA	< 3.25	< 3.25	NA	< 3.25	NA	< 3.0	NA	< 3.0
N-Nitrosomorpholine	NA	< 3.25	NA	< 19	NA	< 4.0	NA	NA	NA	NA	NA	NA	< 3.25	< 3.25	NA	< 3.25	NA	< 4.0	NA	< 4.0
N-Nitrosopiperidine	NA	< 3.72	NA	< 19	NA	< 4.0	NA	NA	NA	NA	NA	NA	< 3.72	< 3.72	NA	< 3.72	NA	< 4.0	NA	< 4.0
N-Nitrosopyrrolidine	NA	< 3.39	NA	< 24	NA	< 5.0	NA	NA	NA	NA	NA	NA	< 3.39	< 3.39	NA	< 3.39	NA	< 5.0	NA	< 5.0
O,O,O-Triethyl Phosphorothioate	NA	< 2.93	NA	< 19	NA	< 4.0	NA	NA	NA	NA	NA	NA	NA	< 2.93	NA	< 2.93	NA	< 4.0	NA	< 4.0
Pentachlorobenzene	NA	< 4.15	NA	< 9.5	NA	< 2.0	NA	NA	NA	NA	NA	NA	< 4.15	< 4.15	NA	< 4.15	NA	< 2.0	NA	< 2.0
Pentachloroethane	NA	NA	NA	< 9.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.0	NA	NA
Pentachloronitrobenzene	NA	< 4.15	NA	< 14	NA	< 3.0	NA	NA	NA	NA	NA	NA	< 4.15	< 4.15	NA	< 4.15	NA	< 3.0	NA	< 3.0
Pentachlorophenol	< 0.313	< 0.313	< 1.3	< 8.6	< 1.8	< 1.8	< 1.8	< 2.4	< 2.0	< 2.4	< 2.2	NA	< 0.313	< 0.313	< 0.313	< 0.313	< 1.4	< 1.8	< 1.8	< 1.8
Phenacetin	NA	< 4.66	NA	< 14	NA	< 3.0	NA	NA	NA	NA	NA	NA	< 4.66	< 4.66	NA	< 4.66	NA	< 3.0	NA	< 3.0
Phenanthrene	0.439 J	< 0.112	0.46	3.8 J	0.049 J	0.37	0.17 J	0.14 J	0.82	55	2.4	NA	0.886 J	0.157 J	0.145 J	< 0.112	< 0.02	< 0.41	< 0.020	0.090 J
Phenol	< 4.33	< 4.33	< 2.5	< 12	< 2.6	< 2.6	< 2.6	< 3.4	< 2.9	< 3.5	< 3.2	NA	< 4.33	< 4.33	< 4.33	< 4.33	< 2.5	< 2.6	< 2.6	< 2.6
P-Phenylenediamine	NA	< 387	NA	< 4.8	NA	< 1.0	NA	NA	NA	NA	NA	NA	< 387 R	< 387 R	NA	< 387	NA	< 1.0	NA	< 1.0
Pronamide (Kerb)	NA	< 4.21	NA	< 14	NA	< 3.0	NA	NA	NA	NA	NA	NA	< 4.21	< 4.21	NA	< 4.21	NA	< 3.0	NA	< 3.0
Pyrene	< 0.107	< 0.107	< 0.019	< 5.2	0.022 J	0.034 J	< 0.02	< 0.021	0.041 J	8.3	0.050 U	NA	< 0.107	< 0.107	< 0.107	< 0.107	0.13 J	< 1.1	0.13 J	< 0.020
Pyridine	NA	< 0.627	NA	< 15	NA	< 3.2	NA	NA	NA	NA	NA	NA	< 0.627	< 0.627	NA	< 0.627	NA	< 3.2	NA	< 3.2
Safrole	NA	< 3.68	NA	< 19	NA	< 4.0	NA	NA	NA	NA	NA	NA	< 3.68	< 3.68	NA	< 3.68	NA	< 4.0	NA	< 4.0
Sulfide - EPA846 376.1, SM4500-S2-D, mg/L																				
Sulfide	0.0045 J	< 0.012	NA	0.048 J	< 0.036	< 0.036	< 0.057	< 0.057	< 0.057	0.07 J	< 0.057 R	< 0.057	< 0.0062	< 0.011	< 0.0040	< 0.012	NA	0.056 J	< 0.036	< 0.036
Volatile Organic Compounds - SW846 8260B, 8260C, ug/L																				
1,1,1,2-Tetrachloroethane	NA	< 0.147	NA	< 0.52	NA	< 0.52	NA	NA	NA	NA	NA	NA	< 0.147	< 0.147	NA	< 0.147	NA	< 0.52	NA	< 0.52
1,1,1-Trichloroethane	NA	< 0.149	NA	< 0.5	NA	< 0.50	NA	NA	NA	NA	NA	NA	< 0.149	< 0.149	NA	< 0.149	NA	< 0.5	NA	< 0.50
1,1,2,2-Tetrachloroethane	NA	< 0.133	NA	< 0.5	NA	< 0.50	NA	NA	NA	NA	NA	NA	< 0.133	< 0.133	NA	< 0.133	NA	< 0.5	NA	< 0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.180	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	NA	< 0.158	NA	< 0.5	NA	< 0.50	NA	NA	NA	NA	NA	NA	< 0.158	< 0.158	NA	< 0.158	NA	< 0.5	NA	< 0.50
1,1-Dichloroethane	< 0.1	< 0.100	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	NA	< 0.100	< 0.1	< 0.1	< 0.100	NA	< 0.5	< 0.50	< 0.50
1,1-Dichloroethene	< 0.188	< 0.188	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	NA	< 0.188	< 0.188	< 0.188	< 0.188	NA	< 0.5	< 0.50	< 0.50
1,1-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.142	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.230	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	NA	< 0.237	NA	< 0.84	NA	< 0.84	NA	NA	NA	NA	NA	NA	< 0.237	< 0.237	NA	< 0.237	NA	< 0.84	NA	< 0.84
1,2,3-Trimethylbenzene	NA	< 0.104	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.189 J	< 0.104	NA	< 0.104	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.481	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.322	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NA	NA	NA	< 1.5	NA	< 1.5	NA	NA	NA	NA	NA	NA	< 0.276	< 0.276	NA	NA	NA	< 1.5	NA	< 1.5
1,2-Dibromoethane (Ethylene dibromide)	NA	NA	NA	< 0.5	NA	< 0.50	NA	NA	NA	NA	NA	NA	< 0.126	< 0.126	NA	NA	NA	< 0.5	NA	< 0.50
1,2-Dichlorobenzene	NA	< 0.107	NA	NA	NA	< 0.50	NA	NA	NA	NA	NA	NA	< 0.107	NA	NA	< 0.107	NA	NA	NA	< 0.50
1,2-Dichloroethane	NA	< 0.0819	NA	< 0.5	NA	< 0.50	NA	NA	NA	NA	NA	NA	< 0.0819	< 0.0819	NA	< 0.0819	NA	< 0.5	NA	< 0.50
1,2-Dichloropropane	< 0.149	< 0.149	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	NA	< 0.149	< 0.149	< 0.149	< 0.149	NA	< 0.5	< 0.50	< 0.50
1,3,5-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.104	NA	NA	NA	NA	NA	NA	NA
1,3-Butadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.299	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.110	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.110	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.120	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane (p-Dioxane)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 36.0	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7.30 UJ	NA	NA	NA	NA	NA	NA	NA
2,2,4-Trimethylpentane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.391	NA	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.161	NA	NA	NA	NA	NA	NA	NA
2-Butanone (Methyl ethyl ketone)	NA	< 1.19	NA	< 2.6	NA	< 2.6	NA	NA	NA	NA	NA	NA	< 1.19	< 1.19	NA	< 1.19	NA	< 2.6	NA	< 2.6
2-Chloro-1,3-Butadiene	NA	< 1.45	NA	< 0.7	NA	< 0.70	NA	NA	NA	NA	NA	NA	< 1.45	< 1.45	NA	< 1.45	NA	< 0.7	NA	< 0.70
2-Chloroethyl vinyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.575	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.106	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NA	< 0.787	NA	< 3.1	NA	< 3.1	NA	NA	NA	NA	NA	NA	< 0.787	< 0.787	NA	< 0.787	NA	< 3.1	NA	< 3.1
2-Methyl-1-Propanol (isobutyl alcohol)	NA	< 42.1	NA	< 8.5	NA	< 10	NA	NA	NA	NA	NA	NA	< 42.1	< 42.1	NA	< 42.1	NA	< 8.5	NA	< 10
2-Methyl-2-Butanol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.90	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12.7 J	NA	NA	NA	NA	NA	NA	NA
2-Nitropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.75	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.114	NA	NA	NA	NA	NA	NA	NA
4-Isopropyltoluene (Cymene)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.120	NA	NA	NA	NA	NA	NA	NA
Acetone	< 11.3	< 11.3	NA	< 10	< 10	< 10	< 10	< 10	15 J	< 10	< 10	NA	< 11.3	< 11.3	< 11.3	< 11.3	NA	< 10	< 10	< 10
Acetonitrile	NA	< 24.0	NA	< 12	NA	< 12	NA	NA	NA	NA	NA	NA	< 24.0	< 24	NA	< 24.0	NA	< 12	NA	< 12
Acrolein	NA	< 2.54	NA	< 10	NA	< 10	NA	NA	NA	NA	NA	NA	< 2.54	< 2.54	NA	< 2.54	NA	< 10	NA	< 10
Acrylonitrile	NA	< 0.671	NA	< 2.8	NA	< 2.8	NA	NA	NA	NA	NA	NA	< 0.671	< 0.671	NA	< 0.671	NA	< 2.8	NA	< 2.8
Allyl chloride (3-Chloropropene)	NA	< 0.500	NA	< 1.0	NA	< 1.0	NA	NA	NA	NA	NA	NA	< 0.500	< 0.5	NA	< 0.500	NA	< 1.0	NA	< 1.0
Benzene	< 0.0941	< 0.0941	3.8	1.1 J	< 0.38	0.56 J	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	NA	< 0.0941	< 0.0941	< 0.0941	< 0.0941	< 0.34	< 0.34	< 0.38	0.59 J
Bromobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.118	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane (Dichlorobromomethane)	< 0.136	< 0.136	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	NA	< 0.136	< 0.136	< 0.136	< 0.136	NA	< 0.5	< 0.50	< 0.50
Bromoform (Tribromomethane)	NA	< 0.129	NA	< 0.71	NA	< 0.71	NA	NA	NA	NA	NA	NA	< 0.129	< 0.129	NA	< 0.129	NA	< 0.71	NA	< 0.71
Bromomethane (Methyl bromide)	NA	< 0.605	NA	< 0.98	NA	< 0.98	NA	NA	NA	NA	NA	NA	< 0.605	< 0.605	NA	< 0.605	NA	< 0.98	NA	< 0.98
Carbon disulfide	< 0.0962	< 0.0962	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	NA	< 0.0962	< 0.0962	< 0.0962	0.135 J	NA	< 0.5	< 0.50	< 0.50
Carbon tetrachloride	NA	< 0.128	NA	< 0.5	NA	< 0.50	NA	NA	NA	NA	NA	NA	< 0.128	< 0.128	NA	< 0.128	NA	< 0.5	NA	< 0.50
Chlorobenzene	< 0.116	< 0.116	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	NA	< 0.116	< 0.116	< 0.116	< 0.116	NA	< 0.5	< 0.50	< 0.50
Chlorobromomethane (Bromochloromethane)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.128	NA	NA	NA	NA	NA	NA	NA
Chlorodibromomethane (Dibromochloromethane)	NA	< 0.140	NA	< 0.5	NA	< 0.50	NA	NA	NA	NA	NA	NA	< 0.140	< 0.14	NA	< 0.140	NA	< 0.5	NA	< 0.50

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	15-D 6/20/2022	15-D 6/12/2023	15-I 6/26/2013	15-I 6/20/2014	15-I 6/4/2015	15-I 6/23/2016 App. IX Well	15-I 6/13/2017	15-I 6/13/2017 Duplicate	15-I 6/9/2018	15-I 6/9/2018 Duplicate	15-I 6/13/2019	15-I 9/16/2019 Resample	15-I 6/12/2020	15-I 6/14/2021 App. IX Well	15-I 6/21/2022	15-I 6/12/2023	15-S 6/27/2013	15-S 6/17/2014	15-S 6/3/2015	15-S 6/22/2016 App. IX Well
Chloroethane	NA	< 0.192	NA	< 0.76	NA	< 0.76	NA	NA	NA	NA	NA	NA	< 0.192	< 0.192	NA	< 0.192	NA	< 0.76	NA	< 0.76
Chloroform	< 0.111	< 0.111	NA	< 0.6	< 0.60	< 0.60	< 0.6	< 0.6	< 0.6	< 0.6	< 0.60	NA	< 0.111	< 0.111	< 0.111	< 0.111	NA	< 0.6	< 0.60	< 0.60
Chloromethane (Methyl chloride)	NA	< 0.960	NA	< 0.83	NA	< 0.83	NA	NA	NA	NA	NA	NA	< 0.960	< 0.96	NA	< 0.960	NA	< 0.83	NA	< 0.83
cis-1,2-Dichloroethene	< 0.126	< 0.126	NA	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	NA	< 0.126	< 0.126	< 0.126	< 0.126	NA	NA	< 0.50	< 0.50
cis-1,3-Dichloropropene	NA	< 0.111	NA	< 0.5	NA	< 0.50	NA	NA	NA	NA	NA	NA	< 0.111	< 0.111	NA	< 0.111	NA	< 0.5	NA	< 0.50
Cyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.188	NA	NA	NA	NA	NA	NA	NA
Cyclohexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.40	NA	NA	NA	NA	NA	NA	NA
Dibromomethane (Methylene bromide)	NA	< 0.122	NA	< 0.59	NA	< 0.59	NA	NA	NA	NA	NA	NA	< 0.122	< 0.122	NA	< 0.122	NA	< 0.59	NA	< 0.59
Dichlorodifluoromethane (Freon 12)	NA	< 0.374	NA	< 0.85	NA	< 0.85	NA	NA	NA	NA	NA	NA	< 0.374	< 0.374	NA	< 0.374	NA	< 0.85	NA	< 0.85
Dichloromonofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.130	NA	NA	NA	NA	NA	NA	NA
Dicyclopentadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.253	NA	NA	NA	NA	NA	NA	NA
Ethanol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 42.0	NA	NA	NA	NA	NA	NA	NA
Ethyl acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.59	NA	NA	NA	NA	NA	NA	NA
Ethyl methacrylate	NA	< 1.48	NA	< 0.6	NA	< 0.60	NA	NA	NA	NA	NA	NA	< 1.48	< 1.48	NA	< 1.48	NA	< 0.6	NA	< 0.60
Ethylbenzene	< 0.173	< 0.173	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	NA	< 0.137	< 0.173	< 0.173	< 0.173	NA	< 0.5	< 0.50	< 0.50
Hexachlorobutadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.337	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.316	NA	NA	NA	NA	NA	NA	NA
Iodomethane (Methyl iodide)	NA	< 6.00	NA	< 0.68	NA	< 0.68	NA	NA	NA	NA	NA	NA	< 6.00	< 6	NA	< 6.00	NA	< 0.68	NA	< 0.68
Isopropyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.65	NA	NA	NA	NA	NA	NA	NA
Isopropyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.105	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.105	NA	NA	NA	NA	NA	NA	NA
m+p-Xylenes	< 0.43	< 0.430	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.66 J	0.925 J	< 0.43	< 0.430	NA	NA	NA	NA
Methyl acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.29	NA	NA	NA	NA	NA	NA	NA
Methyl isobutyl ketone (4-Methyl-2-pentanone)	NA	< 0.478	NA	< 1.8	NA	< 1.8	NA	NA	NA	NA	NA	NA	< 0.478	< 0.478	NA	< 0.478	NA	< 1.8	NA	< 1.8
Methyl methacrylate	NA	< 1.52	NA	< 5.0	NA	< 5.0	NA	NA	NA	NA	NA	NA	< 1.52	< 1.52	NA	< 1.52	NA	< 5.0	NA	< 5.0
Methyl tertiary butyl ether (MTBE)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.101	NA	NA	NA	NA	NA	NA	NA
Methylacrylonitrile	NA	< 14.2	NA	< 6.0	NA	< 6.0	NA	NA	NA	NA	NA	NA	< 14.2	< 14.2	NA	< 14.2	NA	< 6.0	NA	< 6.0
Methylcyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.660	NA	NA	NA	NA	NA	NA	NA
Methylene chloride (Dichloromethane)	NA	< 0.430	NA	< 3.0	NA	< 3.0	NA	NA	NA	NA	NA	NA	< 0.430	< 0.43	NA	< 0.430	NA	< 3.0	NA	< 3.0
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.00	NA	NA	NA	NA	NA	NA	NA
n-Butyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 150	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.157	NA	NA	NA	NA	NA	NA	NA
n-Heptane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.373	NA	NA	NA	NA	NA	NA	NA
n-Hexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.749	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0993	NA	NA	NA	NA	NA	NA	NA
o-Xylene	< 0.174	< 0.174	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.19 J	0.253 J	< 0.174	< 0.174	NA	NA	NA	NA
Pentachloroethane	NA	< 2.30	NA	NA	NA	< 0.60	NA	NA	NA	NA	NA	NA	< 2.30	< 2.3	NA	< 2.30	NA	NA	NA	< 0.60
Propionitrile	NA	< 16.2	NA	< 7.0	NA	< 7.0	NA	NA	NA	NA	NA	NA	< 16.2	< 16.2	NA	< 16.2	NA	< 7.0	NA	< 7.0
Propylene (Propene)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.936	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene (2-Phenylbutane)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.125	NA	NA	NA	NA	NA	NA	NA
Styrene	NA	< 0.118	NA	< 1.0	NA	< 1.0	NA	NA	NA	NA	NA	NA	< 0.118	< 0.118	NA	< 0.118	NA	< 1.0	NA	< 1.0
tert-Amyl methyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.195	NA	NA	NA	NA	NA	NA	NA
Tert-buty formate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.51	NA	NA	NA	NA	NA	NA	NA
tert-Butyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.06	NA	NA	NA	NA	NA	NA	NA
tert-Butyl ethyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.101	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.127	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene (PCE)	NA	< 0.300	NA	< 0.58	NA	< 0.58	NA	NA	NA	NA	NA	NA	< 0.300	< 0.3	NA	< 0.300	NA	< 0.58	NA	< 0.58
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.929	NA	NA	NA	NA	NA	NA	NA
Toluene	< 0.278	< 0.278	NA	< 0.7	< 0.70	< 0.70	< 0.7	< 0.7	< 0.7	< 0.7	< 0.41	NA	< 0.278	< 0.278	< 0.278	< 0.278	NA	< 0.7	< 0.70	< 0.70
trans-1,2-Dichloroethene	< 0.149	< 0.149	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	NA	< 0.149	< 0.149	< 0.149	< 0.149	NA	< 0.5	< 0.50	< 0.50
trans-1,3-Dichloropropene	NA	< 0.118	NA	< 0.5	NA	< 0.50	NA	NA	NA	NA	NA	NA	< 0.118	< 0.118	NA	< 0.118	NA	< 0.5	NA	< 0.50
trans-1,4-Dichlorobutene	NA	< 0.467	NA	< 1.0	NA	< 1.0	NA	NA	NA	NA	NA	NA	< 0.467	< 0.467	NA	< 0.467	NA	< 1.0	NA	< 1.0
Trichloroethene (TCE)	< 0.19	< 0.190	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	NA	< 0.190	< 0.19	< 0.19	< 0.190	NA	< 0.5	< 0.50	0.62 J
Trichlorofluoromethane (Freon 11)	NA	< 0.160	NA	< 0.52	NA	< 0.52	NA	NA	NA	NA	NA	NA	< 0.160	< 0.16	NA	< 0.160	NA	< 0.52	NA	< 0.52
Vinyl acetate	NA	< 0.692	NA	< 2.0	NA	< 2.0	NA	NA	NA	NA	NA	NA	< 0.692	< 0.692	NA	< 0.692	NA	< 2.0	NA	< 2.0
Vinyl chloride	< 0.234	< 0.234	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	NA	< 0.234	< 0.234	< 0.234	< 0.234	NA	< 0.5	< 0.50	< 0.50
Xylenes, Total	< 0.174	< 0.174	2.8 J	4.3 J	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	1.9 J	NA	1.85 J	1.18 J	< 0.174	< 0.174	< 1.6	< 1.6	< 1.6	< 1.6

Notes:
mg/L = milligrams per liter
pg/L = picograms per liter
ug/L = micrograms per liter
2014 event performed in accordance with previous permit, with Appendix IX sampling at all program wells every 5 years; subsequent events perfomed annually at rotating list of wells per current permit

Data Qualifier Definitions:
B = The analyte was positively identified, the associated numerica value is estimated due to blank contamination
I = Interference present
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
NA = Not Analyzed
R = The sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified
U = The analyte was analyzed for but was not detected at a concentration greater than the reported sample quantitation limit
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample
< = Not detected at or above the associated Method Detection Limit
As described in annual CMERs, the constituents presented represent the established permit list in effect at time of sampling, and varies annually based on additional Appendix IX detections.
DQE flags may vary by lab and based on professional judgement applied by DQE analyst.

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID:	15-S	15-S	15-S	15-S	15-S	15-S	15-S	15-S	15-S	16-D	16-D	16-D	16-D	16-D	16-D	16-D	16-D	16-D	16-D	16-D
Sample Date:	9/22/2016	6/12/2017	6/8/2018	6/11/2019	6/11/2019	6/11/2020	6/14/2021	6/20/2022	6/12/2023	6/27/2013	6/27/2013	6/20/2014	9/4/2014	6/5/2015	6/21/2016	6/6/2017	6/6/2018	6/26/2019	6/11/2020	6/14/2021
Sample Type:	Resample				Duplicate		App. IX Well				Duplicate		Resample				App. IX Well			
1,2-Dibromoethane - SW846 8011, ug/L																				
1,2-Dibromo-3-Chloropropane	NA	NA	NA	NA	NA	NA	< 0.00748	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	NA	NA	NA	NA	NA	NA	< 0.00536	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorinated Herbicides - SW846 8151, 8151A, 8321, ug/L																				
2,2-Dichloropropionic acid (Dalapon)	NA	NA	NA	NA	NA	< 0.344	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.344	NA
2,4,5-T	NA	NA	NA	NA	NA	< 0.258	< 0.258	NA	< 0.573	NA	NA	< 0.04	NA	NA	NA	NA	< 0.016	NA	< 0.258	< 0.258
2,4,5-TP (Silvex)	NA	< 0.0036	< 0.0073	< 0.0073	< 0.0073	< 0.335	< 0.335	< 0.335	< 0.807	NA	NA	< 0.018	NA	< 0.018	< 0.036	< 0.0036	< 0.0073	< 0.0073	< 0.335	< 0.335
2,4-D	NA	NA	NA	NA	NA	< 0.547	< 0.547	NA	< 1.00	NA	NA	< 0.26	NA	NA	NA	NA	< 0.1	NA	< 0.547	< 0.547
2,4-DB	NA	NA	NA	NA	NA	< 0.302	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.302	NA
Dicamba	NA	NA	NA	NA	NA	< 0.245	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.245	NA
Dichlorprop	NA	NA	NA	NA	NA	< 1.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.04	NA
Dinoseb	NA	NA	NA	NA	NA	< 0.250	NA	NA	NA	NA	NA	< 0.16	NA	NA	NA	NA	NA	NA	< 0.250	NA
MCPA (2-Methyl-4-Chlorophenoxyacetic acid)	NA	NA	NA	NA	NA	< 13.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 13.1	NA
MCPP	NA	NA	NA	NA	NA	< 66.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 66.0	NA
Cyanide - EPA 846 9012A, EPA 335.2, 335.4, mg/L																				
Cyanide	NA	NA	NA	NA	NA	NA	< 0.0012	< 0.0012	< 0.0069	NA	NA	< 0.0035	NA	NA	NA	NA	< 0.0035	NA	NA	NA
Dioxins/Furans - SW846 8290, 8290A, pg/L																				
1,2,3,4,6,7,8,9-OCDD (OCDD)	NA	18 J	1.9 J	5.9 UJ	4.5 UJ	< 4.8	< 8.2	< 2.3	< 4.2	NA	NA	NA	NA	6.3 J	3.1 J	5.6 J	17 J	16 U	36 J	38 BJ J
1,2,3,4,6,7,8,9-OCDF (OCDF)	NA	5.7 J	3.7 J	< 2.6	< 2.4	< 4.7	< 6.4	< 1.9	< 2.5	NA	NA	NA	NA	2.2 J	0.68 J	1.8 J	4.8 J	< 2.0	< 5.1	< 8.1
1,2,3,4,6,7,8-HpCDD	NA	3.9 J	0.61 J	< 1.0	< 0.98	< 2.6	< 3.4	< 1.7	< 2.0	NA	NA	NA	NA	1.2 J	0.69 J	1.8 J	2.1 J	< 1.0	3.3 IJ U	< 4.5
1,2,3,4,6,7,8-HpCDF	NA	3.6 J	1.1 J	< 1.2	< 1.3	< 1.5	< 2.5	< 1.5	< 2.4	NA	NA	NA	NA	0.69 J	< 0.21	< 0.38	1.5 J	< 1.2	< 1.3	< 3.1
1,2,3,4,7,8,9-HpCDF	NA	2.0 J	6.0 J	< 1.4	< 1.6	< 3.0	< 3.0	< 2.6	< 2.7	NA	NA	NA	NA	NA	NA	< 0.43	13 J	< 1.4	< 2.7	< 3.6
1,2,3,4,7,8-HxCDD	NA	NA	NA	< 1.4	< 1.4	< 1.6	< 3.4	< 1.1	< 0.94	NA	NA	< 0.87	NA	NA	NA	NA	1.1 J	< 1.5	< 1.5	< 3.4
1,2,3,4,7,8-HxCDF	NA	NA	NA	< 1.5	< 1.2	< 1.7	< 1.5	< 0.4	< 0.94	NA	NA	< 0.55	NA	NA	NA	NA	1.7 J	< 1.8	< 1.1	< 2.6
1,2,3,6,7,8-HxCDD	NA	NA	NA	< 1.3	< 1.3	< 1.2	< 1.9	< 1.2	< 1.6	NA	NA	< 0.86	NA	NA	NA	NA	< 0.13	< 1.4	< 1.6	< 3.5
1,2,3,6,7,8-HxCDF	NA	NA	NA	< 1.3	< 1.1	< 1.3	< 1.5	< 0.45	< 1.6	NA	NA	< 0.5	NA	NA	NA	NA	0.42 J	< 1.6	< 0.74	< 2.2
1,2,3,7,8,9-HxCDD	NA	NA	NA	< 1.2	< 1.2	< 1.6	< 2.1	< 1.2	< 1.3	NA	NA	< 0.78	NA	NA	NA	NA	0.4 J	< 1.3	< 1.8	< 3.1
1,2,3,7,8,9-HxCDF	NA	NA	NA	< 1.6	< 1.4	< 1.5	< 1.8	< 0.34	< 0.71	NA	NA	< 0.58	NA	NA	NA	NA	7.4 J	5.0 U	< 1.4	< 3.4
1,2,3,7,8-PeCDD	NA	NA	NA	< 2.0	< 2.0	< 1.7	< 3.6	< 1.5	< 0.73	NA	NA	< 3.5	NA	NA	NA	NA	< 0.21	< 2.0	< 1.7	< 5.2
1,2,3,7,8-PeCDF	NA	NA	NA	< 0.95	< 0.99	< 1.5	< 3.4	< 0.46	< 1.2	NA	NA	< 3.4	NA	NA	NA	NA	1.3 J	< 1.3	< 0.51	< 2.5
2,3,4,6,7,8-HxCDF	NA	NA	NA	< 1.4	< 1.2	< 1.2	< 1.1	< 0.39	< 0.64	NA	NA	< 0.53	NA	NA	NA	NA	< 0.27	< 1.8	< 1.0	< 2.3
2,3,4,7,8-PeCDF	NA	NA	NA	< 0.97	< 1.0	< 0.87	< 1.4	< 0.39	< 0.76	NA	NA	< 3.5	NA	NA	NA	NA	< 0.16	< 1.3	< 0.51	< 2.3
2,3,7,8-TCDD	NA	NA	NA	< 1.1	< 1.2	< 1.8	< 8.7	< 0.64	< 1.0	NA	NA	< 1.1	NA	NA	NA	NA	0.67 J	< 1.3	< 2.2	< 4.7
2,3,7,8-TCDF	NA	NA	NA	< 0.90	< 0.95	< 1.8	< 5.6	< 0.38	< 0.73	NA	NA	< 1.1	NA	NA	NA	NA	1.1 J	< 0.93	< 1.6	< 6.3
TEQ-WHO 2005	NA	NA	NA	NA	NA	NA	NA	NA	0.0054	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total HpCDD	NA	7.0 J	1.8 J	< 2.6	< 1.7	< 2.6	< 3.4	< 1.7	< 2.0	NA	NA	NA	NA	2.2 J	1.7 J	3.1 J	5.6 J	< 4.5	< 2.8	< 4.5
Total HpCDF	NA	5.6 J	9.0 J	< 1.4	< 1.6	< 1.5	< 2.5	< 1.5	< 2.4	NA	NA	NA	NA	1.3 J	< 0.21	< 0.43	18 J	< 1.4	< 1.3	< 3.1
Total HxCDD	NA	3.6 J	4.7 J	< 1.4	< 1.4	< 1.2	< 1.9	< 1.1	< 0.94	NA	NA	< 0.87	NA	0.75 J	< 0.47	2.3 J	2.7 J	< 1.5	2.8 J U	< 3.1
Total HxCDF	NA	6.0 J	9.2 J	< 1.6	< 1.4	< 1.2	< 1.1	< 0.34	< 0.64	NA	NA	< 0.58	NA	< 0.19	< 1.9	1.8 J	16 J	5.0 U	< 0.74	< 2.2
Total PeCDD	NA	NA	NA	< 2.0	< 2.0	< 1.7	< 3.6	< 1.5	< 0.73	NA	NA	< 3.5	NA	NA	NA	NA	< 0.21	< 2.0	< 1.7	< 5.2
Total PeCDF	NA	NA	NA	< 1.1	< 1.0	< 0.87	< 1.4	< 0.39	< 0.76	NA	NA	< 3.5	NA	NA	NA	NA	2.4 J	< 1.3	< 0.51	< 2.3
Total TCDD	NA	1.3 J	2.5 J	< 1.1	< 1.2	< 1.8	< 8.7	< 0.64	< 1.0	NA	NA	< 1.1	NA	< 0.22	< 1.9	< 2.0	0.67 J	1.5 UJ	< 2.2	< 4.7
Total TCDF	NA	NA	NA	< 0.90	< 0.95	< 1.8	< 5.6	< 0.38	< 0.73	NA	NA	< 1.1	NA	NA	NA	NA	1.7 J	< 0.93	< 1.6	< 6.3
Mercury, Total - SW846 7470, 7470A, mg/L																				
Mercury	NA	< 0.00007	< 0.00007	< 0.000070	< 0.000070	NA	< 0.00010	< 0.00010	< 0.00010	NA	NA	< 0.000091	NA	< 0.00007	< 0.000070	< 0.00007	< 0.00007	< 0.000070	NA	< 0.00010
Metals, Total - SW846 6010C, 6020, 6020A, mg/L																				
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	NA	NA	NA	NA	NA	NA	< 0.00063	< 0.00063	< 0.0017	NA	NA	< 0.01	NA	NA	NA	NA	< 0.0002	NA	NA	0.00096 J
Arsenic	NA	0.00079	0.00057	0.0030	0.0029	0.00087 J	0.00080 J	0.0021	0.0039 J	< 0.004	< 0.004	< 0.004	NA	< 0.00066	0.00064 J	0.00032	0.00064	0.0015	0.00094 J	0.00089 J
Barium	NA	0.11	0.12	0.11	0.11	0.123	0.125	0.13	0.083	NA	NA	0.2	NA	0.09	0.12	0.11	0.28	0.19	0.0372	0.0201
Beryllium	NA	NA	NA	NA	NA	NA	< 0.00012	< 0.00012	< 0.0010	NA	NA	< 0.001	NA	NA	NA	NA	< 0.000068	NA	NA	< 0.00012
Cadmium	NA	< 0.000068	< 0.000068	< 0.00025	< 0.00025	< 0.00008	< 0.000080	< 0.000080	< 0.00095	NA	NA	< 0.001	NA	< 0.00059	< 0.00034	< 0.000068	< 0.000068	< 0.00025	< 0.00008	< 0.000080
Chromium	NA	0.00058	0.00053	0.00068 J	0.00063 J	< 0.00062	< 0.00062	0.00088 U	< 0.0032	NA	NA	0.012	NA	0.0014 J	0.0012 J	0.001	0.0014	0.0010 J	0.0041	0.0014
Cobalt	NA	0.00012 J	0.00011 J	< 0.00012	< 0.00012	0.00011 J	0.00014 J	0.00015 J	0.0014 J	NA	NA	< 0.003	NA	0.00031 J	< 0.00040	0.0003 J	0.00024 J	0.00023 J	0.00009 J	0.00016 J
Copper	NA	< 0.00042	< 0.00042	< 0.0005	< 0.0005	< 0.00083	0.0014 J	0.0036	< 0.0084	0.0036 J	0.0067 J	< 0.002	NA	< 0.0019	< 0.0021	< 0.00042	< 0.00042	< 0.0005	0.00085 J	0.0012 J
Lead	NA	< 0.00007	< 0.00007	< 0.00017	< 0.00017	< 0.00007	< 0.000070	< 0.000070	< 0.0034	NA	NA	0.0027 J	NA	< 0.00017	< 0.00035	< 0.00007	< 0.00007	< 0.00017	0.00034 J	0.00039 J
Nickel	NA	0.003	< 0.00036	< 0.00086	< 0.00086	< 0.00056	< 0.00056	0.00083 U	< 0.0031	NA	NA	0.0079	NA	< 0.0007	< 0.0018	0.00036 J	0.00036 J	< 0.00086	< 0.00056	0.0018
Selenium	NA	< 0.000048	0.000054 J	< 0.0023	0.0033 J	< 0.00037	< 0.00037	< 0.00037	< 0.0013	NA	NA	< 0.004	NA	< 0.00033	< 0.00024	0.000077 J	0.00011 J	0.0048 U	< 0.00037	0.00039 J
Silver	NA	NA	NA	NA	NA	NA	< 0.000080	< 0.000080	< 0.0010	NA	NA	< 0.002	NA	NA	NA	NA	< 0.000022	NA	NA	< 0.000080
Thallium	NA	< 0.000017	< 0.000017	< 0.00014	< 0.00014	< 0.00008	< 0.000080	< 0.000080	< 0.00055	NA	NA	< 0.004	NA	< 0.000017	< 0.000085	< 0.000017	< 0.000017	< 0.00014	< 0.00008	< 0.000080
Tin	NA	NA	NA	NA	NA	NA	< 0.00043	< 0.00043	< 0.0032	NA	NA	< 0.005	NA	NA	NA	NA	0.00031 J	NA	NA	< 0.00043
Vanadium	NA	0.0014	0.0011	< 0.0013	< 0.0013	< 0.0023	< 0.0023	< 0.0023	< 0.0012	NA	NA	< 0.003	NA	< 0.0022	< 0.0014	0.00084	0.00073	< 0.0013	0.0057	0.0024 J
Zinc	NA	NA	NA	NA	NA	< 0.0044	< 0.0044	0.017 J	0.036 J	NA	NA	< 0.008	NA	< 0.014	NA	NA	0.0024 J	NA	< 0.0044	0.0070 J
Organophosphorus Pesticides - SW846 8141, ug/L																				
Basudin, Neocidol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorpyrifos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Coumaphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dasanit	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Demeton	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Demeton-s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibrom	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorvos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethoate (Cygon)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disulfoton	NA	NA	NA	NA	NA	NA	< 0.227	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethoprophos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl Parathion	NA	NA	NA	NA	NA	NA	< 0.454	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fenthion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Folex	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID:	15-S	15-S	15-S	15-S	15-S	15-S	15-S	15-S	15-S	16-D	16-D	16-D	16-D	16-D	16-D	16-D	16-D	16-D	16-D	16-D
Sample Date:	9/22/2016	6/12/2017	6/8/2018	6/11/2019	6/11/2019	6/11/2020	6/14/2021	6/20/2022	6/12/2023	6/27/2013	6/27/2013	6/20/2014	9/4/2014	6/5/2015	6/21/2016	6/6/2017	6/6/2018	6/26/2019	6/11/2020	6/14/2021
Sample Type:	Resample				Duplicate		App. IX Well				Duplicate		Resample				App. IX Well			
Guthion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Malathion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl parathion	NA	NA	NA	NA	NA	NA	< 0.383	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mevinphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phorate	NA	NA	NA	NA	NA	NA	< 0.276	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ronnel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfotepp	NA	NA	NA	NA	NA	NA	< 0.181	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulprofos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachlorvinphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetraethyl diphosphate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tokuthion (Prothiofos)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloronate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organophosphorus Pesticides - SW846 8270-PEST, ug/L																				
Dimethoate (Cygon)	NA	NA	NA	NA	NA	< 5.05	< 5.05	NA	< 5.05	NA	NA	< 2.9	NA	NA	NA	NA	< 0.27	NA	< 5.05	< 5.05
Disulfoton	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.9	NA	NA	NA	NA	< 0.42	NA	NA	NA
Ethyl Parathion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.9	NA	NA	NA	NA	< 0.21	NA	NA	NA
Famphur	NA	NA	NA	NA	NA	< 3.92	< 3.92	NA	< 3.92	NA	NA	< 2.9	NA	NA	NA	NA	< 0.28	NA	< 3.92	< 3.92
Methyl parathion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.9	NA	NA	NA	NA	< 0.2	NA	NA	NA
Phorate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.9	NA	NA	NA	NA	< 0.24	NA	NA	NA
Sulfotepp	NA	NA	NA	NA	NA	< 3.99	< 3.99	NA	< 3.99	NA	NA	< 2.9	NA	NA	NA	NA	< 0.26	NA	< 3.99	< 3.99
Thionazin	NA	NA	NA	NA	NA	< 4.07	< 4.07	NA	< 4.07	NA	NA	< 2.9	NA	NA	NA	NA	< 0.23	NA	< 4.07	< 4.07
Pesticides - SW846 8081, 8081A, 8081B, ug/L																				
4,4'-DDD	NA	NA	NA	NA	NA	NA	< 0.0177 UJ	NA	< 0.0177	NA	NA	< 0.0029	NA	NA	NA	NA	< 0.0033	NA	NA	< 0.0186
4,4'-DDE	NA	NA	NA	NA	NA	NA	< 0.0154 UJ	NA	< 0.0154	NA	NA	< 0.0021	NA	NA	NA	NA	< 0.0044	NA	NA	< 0.0162
4,4'-DDT	NA	NA	NA	NA	NA	NA	< 0.0198 UJ	NA	< 0.0198	NA	NA	< 0.0037	NA	NA	NA	NA	< 0.0043	NA	NA	< 0.0208
Aldrin	NA	NA	NA	NA	NA	NA	< 0.0198	< 0.0198	< 0.0198	NA	NA	< 0.0029	NA	NA	NA	NA	< 0.0033	NA	NA	< 0.0208
alpha-BHC	NA	NA	NA	NA	NA	NA	< 0.0172	NA	< 0.0172	NA	NA	< 0.0034	NA	NA	NA	NA	< 0.0039	NA	NA	< 0.0181
alpha-Chlordane	NA	NA	NA	NA	NA	NA	< 0.0149 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0046	NA	NA	< 0.0156 UJ
beta-BHC	NA	NA	NA	NA	NA	NA	< 0.0208	NA	< 0.0208	NA	NA	< 0.0029	NA	NA	NA	NA	< 0.0033	NA	NA	< 0.0218
beta-Chlordane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0035	NA	NA	NA
Chlordane	NA	NA	NA	NA	NA	NA	< 0.0198	NA	< 0.0198	NA	NA	< 0.12	NA	NA	NA	NA	NA	NA	NA	< 0.0208
Chlordane, technical	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA
Chlorobenzilate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.037	NA	NA	NA	NA	< 0.043	NA	NA	NA
delta-BHC	NA	NA	NA	NA	NA	NA	< 0.015	NA	< 0.0150	NA	NA	< 0.002	NA	NA	NA	NA	< 0.0030	NA	NA	< 0.0158
Dieldrin	NA	NA	NA	NA	NA	NA	< 0.0162 UJ	NA	< 0.0162	NA	NA	< 0.0029	NA	NA	NA	NA	< 0.0065	NA	NA	< 0.017
Endosulfan I	NA	NA	NA	NA	NA	NA	< 0.016 UJ	NA	< 0.0160	NA	NA	< 0.0029	NA	NA	NA	NA	< 0.0033	NA	NA	< 0.0168
Endosulfan II	NA	NA	NA	NA	NA	NA	< 0.0164	NA	< 0.0164	NA	NA	< 0.007	NA	NA	NA	NA	< 0.0081	NA	NA	< 0.0172
Endosulfan sulfate	NA	NA	NA	NA	NA	NA	< 0.0217 UJ	NA	< 0.0217	NA	NA	< 0.002	NA	NA	NA	NA	< 0.0023	NA	NA	< 0.0228
Endrin	NA	NA	NA	NA	NA	NA	< 0.0161 UJ	NA	< 0.0161	NA	NA	< 0.0029	NA	NA	NA	NA	< 0.0033	NA	NA	< 0.0169
Endrin aldehyde	NA	NA	NA	NA	NA	NA	< 0.0237	NA	< 0.0237	NA	NA	< 0.0027	NA	NA	NA	NA	< 0.0031	NA	NA	< 0.0249
Endrin ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	NA	NA	NA	NA	NA	NA	< 0.0209	NA	< 0.0209	NA	NA	< 0.024	NA	NA	NA	NA	< 0.027	NA	NA	< 0.0219
gamma-Chlordane	NA	NA	NA	NA	NA	NA	< 0.0137 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0144 UJ
Heptachlor	NA	NA	NA	NA	NA	NA	< 0.0148	NA	< 0.0148	NA	NA	< 0.003	NA	NA	NA	NA	< 0.0034	NA	NA	< 0.0155
Heptachlor Epoxide	NA	NA	NA	NA	NA	NA	< 0.0183 UJ	NA	< 0.0183	NA	NA	< 0.003	NA	NA	NA	NA	< 0.0035	NA	NA	< 0.0192
Hexachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	NA	NA	NA	NA	NA	NA	< 0.0193 UJ	NA	< 0.0193	NA	NA	< 0.0039	NA	NA	NA	NA	< 0.0045	NA	NA	< 0.0203
Toxaphene	NA	NA	NA	NA	NA	NA	< 0.168	NA	< 0.168	NA	NA	< 0.29	NA	NA	NA	NA	< 0.44	NA	NA	< 0.176
Phenolics - E420.1, E420.4, SW9065, mg/L																				
Total Recoverable Phenolics	NA	0.008 J	< 0.0045	< 0.09	< 0.09	< 0.025	0.153	0.028 J	0.024	0.035	0.051	NA	NA	0.051	0.054	0.048	0.025	< 0.09	< 0.025	0.0222
Polychlorinated Biphenyl (PCB) - SW846 8082, 8082A, ug/																				
PCB-1016	NA	NA	NA	NA	NA	NA	< 0.16	NA	NA	NA	NA	< 0.046	NA	NA	NA	NA	< 0.069	NA	NA	NA
PCB-1221	NA	NA	NA	NA	NA	NA	< 0.33	NA	NA	NA	NA	< 0.21	NA	NA	NA	NA	< 0.31	NA	NA	NA
PCB-1232	NA	NA	NA	NA	NA	NA	< 0.4	NA	NA	NA	NA	< 0.095	NA	NA	NA	NA	< 0.59	NA	NA	NA
PCB-1242	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	NA	< 0.032	NA	NA	NA	NA	< 0.26	NA	NA	NA
PCB-1248	NA	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	NA	< 0.019	NA	NA	NA	NA	< 0.029	NA	NA	NA
PCB-1254	NA	NA	NA	NA	NA	NA	< 0.16	NA	NA	NA	NA	< 0.054	NA	NA	NA	NA	< 0.44	NA	NA	NA
PCB-1260	NA	NA	NA	NA	NA	NA	< 0.15	NA	NA	NA	NA	< 0.032	NA	NA	NA	NA	< 0.049	NA	NA	NA
PCB-1262	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1268	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semi-Volatile Organic Compounds - SW846 8270C, 8270D																				
1,2,4,5-Tetrachlorobenzene	NA	NA	NA	NA	NA	< 0.0647	< 0.0647	NA	< 0.0679	NA	NA	< 0.5	NA	NA	NA	NA	< 0.56	NA	< 0.0647	< 0.0647
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	< 0.0698	< 0.0698	NA	< 0.0733	NA	NA	< 0.5	NA	NA	NA	NA	< 0.57	NA	< 0.0698	< 0.0698
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	< 0.0713	< 0.0713	NA	< 0.0749	NA	NA	< 0.54	NA	NA	NA	NA	< 0.61	NA	< 0.0713	< 0.0713
1,3,5-Trinitrobenzene	NA	NA	NA	NA	NA	< 1.32	< 1.32	NA	< 1.32	NA	NA	< 1.9	NA	NA	NA	NA	< 2.1	NA	< 1.32	< 1.32
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	< 0.132	< 0.132	NA	< 0.139	NA	NA	< 0.45	NA	NA	NA	NA	< 0.5	NA	< 0.132	< 0.132
1,3-Dinitrobenzene	NA	NA	NA	NA	NA	< 0.359	< 0.359	NA	< 0.359	NA	NA	< 0.95	NA	NA	NA	NA	< 1.1	NA	< 0.359	< 0.359
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	< 0.0942	< 0.0942	NA	< 0.0989	NA	NA	< 0.5	NA	NA	NA	NA	< 0.56	NA	< 0.0942	< 0.0942
1,4-Dioxane (p-Dioxane)	NA	< 1.1	< 1.1	< 1.3	< 1.0	NA	< 0.0447	0.103 U	0.0858 J	NA	NA	2.6 J	2.6 J	4.5 J	4.2 J	1.8 J	1.5 J	1.4 J	NA	< 0.0447
1,4-Naphthoquinone	NA	NA	NA	NA	NA	< 5.56 R	< 5.56 R	NA	< 5.56	NA	NA	< 3.8	NA	NA	NA	NA	< 4.3	NA	< 5.56 R	< 5.56 R
1-Methylnaphthalene	NA	0.031 J	< 0.022	< 0.026	< 0.021	< 0.0790	< 0.079	< 0.079	< 0.0829	65	64	58 J	NA	0.33	0.19 J	0.47	23	94	0.481 J	< 0.079
1-Naphthylamine	NA	< 4.3	< 4.4	< 5.1	< 4.2	< 0.289	< 0.289	< 0.289	< 0.289	< 2.7	< 2.7	< 3.8	NA	< 4.0	< 4.0	< 4.2	< 4.3	< 4.1	< 0.289	< 0.289
2,2'-Oxybis(1-chloropropane)	NA	NA	NA	NA	NA	NA	< 0.21	NA	< 0.221	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21
2,3,4,6-Tetrachlorophenol	NA	NA	NA	NA	NA	< 0.231	< 0.231	NA	< 0.243	NA	NA	< 0.61	NA	NA	NA	NA	< 0.69	NA	< 0.231	< 0.231
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA	< 0.109	< 0.109	NA	< 0.114	NA	NA	< 3.5	NA	NA	NA	NA	< 4.0	NA	< 0.109	< 0.109
2,4,6-Trichlorophenol	NA	NA	NA	NA	NA	< 0.100	< 0.1	NA	< 0.105	NA	NA	< 3.3	NA	NA	NA	NA	< 3.8	NA	< 0.100	< 0.1
2,4-Dichlorophenol	NA	NA	NA	NA	NA	< 0.102	< 0.102	NA	< 0.107	NA	NA	< 2.9	NA	NA	NA	NA	< 3.2	NA	< 0.102	< 0.102
2,4-Dimethylphenol	NA	< 3.7	< 3.9	< 4.5	< 3.6	< 0.0636	< 0.0636	< 0.0636	< 0.0668	< 3.3	< 3.3	< 3.3	NA	< 3.5	< 3.5	< 3.7	< 3.8	< 3.6	< 0.0636	< 0.0636

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	15-S 9/22/2016 Resample	15-S 6/12/2017	15-S 6/8/2018	15-S 6/11/2019	15-S 6/11/2019 Duplicate	15-S 6/11/2020	15-S 6/14/2021 App. IX Well	15-S 6/20/2022	15-S 6/12/2023	16-D 6/27/2013	16-D 6/27/2013 Duplicate	16-D 6/20/2014	16-D 9/4/2014 Resample	16-D 6/5/2015	16-D 6/21/2016	16-D 6/6/2017	16-D 6/6/2018 App. IX Well	16-D 6/26/2019	16-D 6/11/2020	16-D 6/14/2021
2,4-Dinitrophenol	NA	NA	NA	NA	NA	< 5.93	< 5.93	NA	< 6.23	NA	NA	< 3.2	NA	NA	NA	NA	< 3.6	NA	< 5.93	< 5.93
2,4-Dinitrotoluene	NA	NA	NA	NA	NA	< 0.0983	< 0.0983	NA	< 0.103	NA	NA	< 1.8	NA	NA	NA	NA	< 2.0	NA	< 0.0983	< 0.0983
2,6-Dichlorophenol	NA	NA	NA	NA	NA	< 0.102	< 0.102	NA	< 0.102	NA	NA	< 3.8	NA	NA	NA	NA	< 4.3	NA	< 0.102	< 0.102
2,6-Dinitrotoluene	NA	NA	NA	NA	NA	< 0.250	< 0.25	NA	< 0.263	NA	NA	< 1.8	NA	NA	NA	NA	< 2.0	NA	< 0.250	< 0.25
2-Acetylaminofluorene	NA	NA	NA	NA	NA	< 0.253	< 0.253	NA	< 0.253	NA	NA	< 3.8	NA	NA	NA	NA	< 4.3	NA	< 0.253	< 0.253
2-Chloronaphthalene	NA	NA	NA	NA	NA	< 0.0648	< 0.0648	NA	< 0.0680	NA	NA	< 0.5	NA	NA	NA	NA	< 0.56	NA	< 0.0648	< 0.0648
2-Chlorophenol	NA	NA	NA	NA	NA	< 0.133	< 0.133	NA	< 0.140	NA	NA	< 2.1	NA	NA	NA	NA	< 2.4	NA	< 0.133	< 0.133
2-Methylaniline (o-Toluidine)	NA	< 6.4	< 6.6	< 7.7	< 6.3	< 3.53	< 3.53	< 3.53	< 3.53	< 0.95	< 0.95	< 5.7	NA	< 6.0	< 6.0	< 6.3	< 6.4	< 6.2	< 3.53	< 3.53
2-Methylnaphthalene	NA	0.021 J	< 0.022	< 0.026	< 0.021	< 0.117	< 0.117	< 0.117	< 0.123	72	71	45 J	NA	< 6.3	0.13 J	0.068 J	21	100	0.506 J	< 0.117
2-Methylphenol (o-Cresol)	NA	NA	NA	NA	NA	< 0.0929	< 0.0929	NA	< 0.0975	NA	NA	< 1.7	NA	NA	NA	NA	< 1.9	NA	< 0.0929	< 0.0929
2-Naphthylamine	NA	< 4.3	< 4.4	< 5.1 UJ	< 4.2 UJ	< 4.48	< 4.48	< 4.48	< 4.48	4.3 J	4.7 J	< 3.8	NA	6.3 J	< 4.0	< 4.2	< 4.3	< 4.1	< 4.48	< 4.48
2-Nitroaniline	NA	NA	NA	NA	NA	< 0.102	< 0.102	NA	< 0.107	NA	NA	< 2.1	NA	NA	NA	NA	< 2.4	NA	< 0.102	< 0.102
2-Nitrophenol	NA	NA	NA	NA	NA	< 0.117	< 0.117	NA	< 0.123	NA	NA	< 0.62	NA	NA	NA	NA	< 0.7	NA	< 0.117	< 0.117
2-Picoline	NA	NA	NA	NA	NA	< 6.83	< 6.83	NA	< 6.83	NA	NA	< 5.7	NA	NA	NA	NA	< 6.4	NA	< 6.83	< 6.83
3,3'-Dichlorobenzidine	NA	NA	NA	NA	NA	< 0.212	< 0.212	NA	< 0.223	NA	NA	< 2.5	NA	NA	NA	NA	< 2.8	NA	< 0.212	< 0.212
3,3'-Dimethylbenzidine	NA	NA	NA	NA	NA	< 3.39	< 3.39	NA	< 3.39	NA	NA	< 7.6	NA	NA	NA	NA	< 8.6	NA	< 3.39	< 3.39
3+4-Methylphenol (m,p-Cresol)	NA	< 1.1	< 1.2	< 1.3	< 1.1	< 0.168	< 0.168	< 0.168	< 0.176	< 0.37	< 0.37	NA	NA	< 1.0	< 1.0	< 1.1	< 1.1	< 1.1	< 0.168	< 0.168
3-Methylchloranthrene	NA	NA	NA	NA	NA	< 0.164	< 0.164	NA	< 0.164	NA	NA	< 2.1	NA	NA	NA	NA	< 2.4	NA	< 0.164	< 0.164
3-Methylphenol (m-Cresol)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.37	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	NA	NA	NA	NA	NA	< 0.0869	< 0.0869	NA	< 0.0912	NA	NA	< 1.7	NA	NA	NA	NA	< 1.9	NA	< 0.0869	< 0.0869
4,6-Dinitro-2-Methylphenol	NA	NA	NA	NA	NA	< 1.12	< 1.12	NA	< 1.18	NA	NA	< 1.9	NA	NA	NA	NA	< 2.1	NA	< 1.12	< 1.12
4-Aminobiphenyl	NA	NA	NA	NA	NA	< 0.461	< 0.461	NA	< 0.461	NA	NA	< 4.0	NA	NA	NA	NA	< 4.5	NA	< 0.461	< 0.461
4-Bromophenyl phenyl ether	NA	NA	NA	NA	NA	< 0.0877	< 0.0877	NA	< 0.0921	NA	NA	< 0.3	NA	NA	NA	NA	< 0.34	NA	< 0.0877	< 0.0877
4-Chloro-3-Methylphenol	NA	NA	NA	NA	NA	< 0.131	< 0.131	NA	< 0.138	NA	NA	< 3.6	NA	NA	NA	NA	< 4.1	NA	< 0.131	< 0.131
4-Chloroaniline	NA	NA	NA	NA	NA	< 0.234	< 0.234	NA	< 0.246	NA	NA	< 3.2	NA	NA	NA	NA	< 3.6	NA	< 0.234	< 0.234
4-Chlorophenyl phenyl ether	NA	NA	NA	NA	NA	< 0.0926	< 0.0926	NA	< 0.0972	NA	NA	< 1.9	NA	NA	NA	NA	< 2.1	NA	< 0.0926	< 0.0926
4-Dimethylaminoazobenzene	NA	NA	NA	NA	NA	< 3.69	< 3.69	NA	< 3.69	NA	NA	< 2.2	NA	NA	NA	NA	< 2.5	NA	< 3.69	< 3.69
4-Methylphenol (p-Cresol)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	NA	NA	NA	NA	NA	< 0.0910	< 0.091	NA	< 0.0956	NA	NA	< 2.4	NA	NA	NA	NA	< 2.7	NA	< 0.0910	< 0.091
4-Nitrophenol	NA	NA	NA	NA	NA	< 0.143	< 0.143	NA	< 0.150	NA	NA	< 2.0	NA	NA	NA	NA	< 2.3	NA	< 0.143	< 0.143
4-Nitroquinoline-N-Oxide	NA	NA	NA	NA	NA	< 2.03	< 2.03	NA	< 2.03	NA	NA	< 1.9	NA	NA	NA	NA	< 2.1	NA	< 2.03	< 2.03
5-Nitro-O-Toluidine	NA	NA	NA	NA	NA	< 1.99	< 1.99	NA	< 1.99	NA	NA	< 2.9	NA	NA	NA	NA	< 3.2	NA	< 1.99	< 1.99
7,12-Dimethylbenz(a)anthracene	NA	NA	NA	NA	NA	< 1.71	< 1.71	NA	< 1.71	NA	NA	< 3.5	NA	NA	NA	NA	< 4.0	NA	< 1.71	< 1.71
Acenaphthene	NA	0.85	1.5	0.70	0.80 J	0.542 J	0.431 J	0.403 J	0.115 J	98	99	110 J	NA	170	6.0	0.98	44	120	2.83	< 0.0886
Acenaphthylene	NA	0.024 J	< 0.022	< 0.026	< 0.021	< 0.0921	< 0.0921	< 0.0921	< 0.0967	0.49	0.5	< 0.53	NA	0.89	0.24	< 0.021	< 0.021	< 0.021	< 0.0921	< 0.0921
Acetophenone	NA	NA	NA	NA	NA	< 0.208	< 0.208	NA	< 0.218	NA	NA	< 0.59	NA	NA	NA	NA	< 0.66	NA	< 0.208	< 0.208
alpha, alpha-Dimethylphenethylamine	NA	NA	NA	NA	NA	< 3.13 R	< 3.13 R	NA	< 3.13	NA	NA	< 9.5	NA	NA	NA	NA	< 11	NA	< 3.13 R	< 3.13 R
Aniline	NA	NA	NA	NA	NA	< 1.65	< 1.65	NA	< 1.73	NA	NA	< 3.6	NA	NA	NA	NA	< 4.1	NA	< 1.65	< 1.65
Anthracene	NA	0.054 J	0.08 J	0.037 J	0.041 J	< 0.0804	< 0.0804	< 0.0804	< 0.0844	1.1	1.2	< 0.4	NA	0.66	0.68	0.65	0.41	0.85	< 0.0804	< 0.0804
Aramite	NA	NA	NA	NA	NA	< 16.7	< 16.7	NA	< 16.7	NA	NA	< 1.9	NA	NA	NA	NA	< 2.1	NA	< 16.7	< 16.7
Benzo(a)anthracene	NA	< 0.043	< 0.044	< 0.051	< 0.042	< 0.199	< 0.199	< 0.199	< 0.209	0.18 J	0.22	< 0.32	NA	< 0.092	0.045 J	< 0.042	0.09 J	< 0.041	< 0.199	< 0.199
Benzo(a)pyrene	NA	< 0.043	< 0.044	< 0.051	< 0.042	< 0.0381	< 0.0381	< 0.0381	< 0.0400	< 0.038	< 0.038	< 0.41	NA	< 0.20	< 0.040	< 0.042	< 0.043	< 0.041	< 0.0381	< 0.0381
Benzo(b)fluoranthene	NA	< 0.043	< 0.044	< 0.051	< 0.042	< 0.130	< 0.13	< 0.13	< 0.136	0.089 J	0.11 J	< 0.36	NA	< 0.092	< 0.040	< 0.042	< 0.043	< 0.041	< 0.130	< 0.13
Benzo(g,h,i)perylene	NA	< 0.043	< 0.044	< 0.051	< 0.042	< 0.121	< 0.121	< 0.121	< 0.127	< 0.038	< 0.038	< 1.0	NA	< 0.040	< 0.040	< 0.042	< 0.043	< 0.041	< 0.121	< 0.121
Benzo(k)fluoranthene	NA	< 0.043	< 0.044	< 0.051	< 0.042	< 0.120	< 0.12	< 0.12	< 0.126	< 0.038	< 0.038	< 0.51	NA	< 0.92	< 0.040	< 0.042	< 0.043	< 0.041	< 0.120	< 0.12
Benzyl Alcohol	NA	NA	NA	NA	NA	< 0.563	< 0.563	NA	< 0.591	NA	NA	< 1.9	NA	NA	NA	NA	< 2.1	NA	< 0.563	< 0.563
bis(2-Chloroethoxy)methane	NA	NA	NA	NA	NA	< 0.116	< 0.116	NA	< 0.122	NA	NA	< 0.66	NA	NA	NA	NA	< 0.74	NA	< 0.116	< 0.116
bis(2-Chloroethyl)ether	NA	NA	NA	NA	NA	< 0.137	< 0.137	NA	< 0.144	NA	NA	< 0.7	NA	NA	NA	NA	< 0.79	NA	< 0.137	< 0.137
bis(2-Chloroisopropyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	4.1 J	3.4 J	< 2.5	< 6.4	< 5.2	< 0.895	< 0.895	< 0.895	< 0.940	< 1.9	< 1.9	< 2.2	NA	< 6.0	< 2.3	2.7 J	3.0 J	< 5.2	< 0.895	< 0.895
Butyl benzyl phthalate	NA	NA	NA	NA	NA	< 0.765	< 0.765	NA	< 0.803	NA	NA	< 0.66	NA	NA	NA	NA	< 0.74	NA	< 0.765	< 0.765
Chlorobenzilate	NA	NA	NA	NA	NA	NA	< 3.84	NA	< 3.84	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.84
Chrysene	NA	< 0.043	< 0.044	< 0.051	< 0.042	< 0.130	< 0.13	< 0.13	< 0.136	< 0.038	0.041 J	< 0.47	NA	< 9.2	< 0.040	< 0.042	< 0.043	< 0.041	< 0.130	< 0.13
Diallate	NA	NA	NA	NA	NA	< 0.524	< 0.524	NA	< 0.524	NA	NA	< 2.9	NA	NA	NA	NA	< 3.2	NA	< 0.524	< 0.524
Dibenzo(a,h)anthracene	NA	NA	NA	NA	NA	< 0.0644	< 0.0644	NA	< 0.0676	NA	NA	< 1.1	NA	NA	NA	NA	< 1.3	NA	< 0.0644	< 0.0644
Dibenzofuran	NA	< 0.55	< 0.58	< 0.66	< 0.54	< 0.0970	< 0.097	< 0.097	< 0.102	9.1 J	8.5 J	8.6 J	NA	< 1.2	0.76 J	0.66 J	0.92 J	7.3 J	0.257 J	< 0.097
Diethyl phthalate	NA	NA	NA	NA	NA	< 0.287	< 0.287	NA	0.393 J	NA	NA	< 0.67	NA	NA	NA	NA	< 0.75	NA	< 0.287	< 0.287
Dimethyl phthalate	NA	NA	NA	NA	NA	< 0.260	< 0.26	NA	< 0.273	NA	NA	< 0.57	NA	NA	NA	NA	< 0.64	NA	< 0.260	< 0.26
Di-n-butyl phthalate	NA	NA	NA	NA	NA	< 0.453	< 0.453	NA	< 0.476	NA	NA	NA	NA	NA	NA	NA	< 2.9	NA	< 0.453	< 0.453
Di-n-octyl phthalate	NA	< 0.47	< 0.49	< 0.56	< 0.46	< 0.932	< 0.932	< 0.932	< 0.979	< 0.16	< 0.16	< 0.42	NA	< 0.44	< 0.44	< 0.47	< 0.47	< 0.45	< 0.932	< 0.932
Dinoseb	NA	NA	NA	NA	NA	< 8.01	< 8.01	NA	< 8.01	NA	NA	NA	NA	NA	NA	NA	< 3.2	NA	< 8.01	< 8.01
Diphenylamine	NA	NA	NA	NA	NA	< 2.37	< 2.37	NA	< 2.49	NA	NA	< 2.9	NA	NA	NA	NA	< 3.2	NA	< 2.37	< 2.37
Ethyl methanesulfonate	NA	NA	NA	NA	NA	< 0.326	< 0.326	NA	< 0.326	NA	NA	< 2.9	NA	NA	NA	NA	< 3.2	NA	< 0.326	< 0.326
Fluoranthene	NA	0.029 J	< 0.022	< 0.026	< 0.021	< 0.102	< 0.102	< 0.102	< 0.107	1.0	1.2	1.5 J	NA	1.6	1.9	1.1	0.67	0.91	0.206 J	< 0.102
Fluorene	NA	< 0.022	0.048 J	0.045 J	< 0.022	< 0.0844	< 0.0844	< 0.0844	< 0.0886	19	21	24 J	NA	0.31	1.0	3.3	5.2	21	0.592 J	< 0.0844
Hexachlorobenzene	NA	NA	NA	NA	NA	< 0.0755	< 0.0755	NA	< 0.0793	NA	NA	< 0.24	NA	NA	NA	NA	< 0.27	NA	< 0.0755	< 0.0755
Hexachlorobutadiene	NA	NA	NA	NA	NA	< 0.0968	< 0.0968	NA	< 0.102	NA	NA	< 3.4	NA	NA	NA	NA	< 3.9	NA	< 0.0968	< 0.0968
Hexachlorocyclopentadiene	NA	NA	NA	NA	NA	< 0.0598	< 0.0598	NA	< 0.0628	NA	NA	< 2.5	NA	NA	NA	NA	< 2.8	NA	< 0.0598	< 0.0598
Hexachloroethane	NA	< 4.5	< 4.7	< 5.4	< 4.4	< 0.127	< 0.127	< 0.127	< 0.133	< 4.0	< 4.0	< 4.0	NA	< 4.8	< 4.2	< 4.4	< 4.5	< 4.3	< 0.127	< 0.127
Hexachlorophene	NA	NA	NA	NA	NA	< 1.44	< 1.44	NA	< 1.44	NA	NA	< 95	NA	NA	NA	NA	< 110	NA	< 1.44	< 1.44
Hexachloropropene	NA	NA	NA	NA	NA	< 0.149	< 0.149	NA	< 0.149	NA	NA	< 1.9	NA	NA	NA	NA	< 2.1	NA	< 0.149	< 0.149
Indeno(1,2,3-cd)pyrene	NA	< 0.043	< 0.044	< 0.051	< 0.042	< 0.279	< 0.279	< 0.279	< 0.293	< 0.038	< 0.038	< 0.97	NA	< 0.092	< 0.040	< 0.042	< 0.043	< 0.041	< 0.279	< 0.279
Isodrin	NA	NA	NA	NA	NA	< 4.11	< 4.11	NA	< 4.11	NA	NA	< 2.9	NA	NA	NA	NA	< 3.2	NA	< 4.11	< 4.11
Isophorone	NA	NA	NA	NA	NA	< 0.143	< 0.143	NA	< 0.150	NA	NA	< 0.54	NA	NA	NA	NA	< 0.61	NA	< 0.143	< 0.143
Isosafrole	NA	NA	NA	NA	NA	< 3.88	< 3.88	NA	< 3.88	NA	NA	< 2.9	NA	NA	NA	NA	< 3.2	NA	< 3.88	< 3.88
Kepone	NA	NA	NA	NA	NA	< 2.66	< 2.66	NA	< 2.66	NA	NA	< 0.19	NA	NA	NA	NA	< 0.21	NA	< 2.66	< 2.66
Methapyrilene	NA	NA	NA	NA	NA	< 10.0	< 10 R	NA	< 10.0	NA	NA	< 7.6	NA	NA	NA	NA	< 8.6	NA	< 10.0	< 10 R
Methyl methanesulfonate	NA	NA	NA	NA	NA	< 3.40	< 3.4	NA	< 3.40	NA	NA	< 2.9	NA	NA	NA	NA	< 3.2	NA	< 3.40	< 3.4
Naphthalene	NA	0.025 J	< 0.022	< 0.026	< 0.021	< 0.159	< 0.159	< 0.159	< 0.167	1.2	1.2	0.88 J	NA	< 0.62	0.25	0.27	0.16 J	0.60	0.615 J	< 0.159

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID:	15-S	15-S	15-S	15-S	15-S	15-S	15-S	15-S	15-S	16-D	16-D	16-D	16-D	16-D	16-D	16-D	16-D	16-D	16-D
Sample Date:	9/22/2016	6/12/2017	6/8/2018	6/11/2019	6/11/2019	6/11/2020	6/14/2021	6/20/2022	6/12/2023	6/27/2013	6/27/2013	6/20/2014	9/4/2014	6/5/2015	6/21/2016	6/6/2017	6/6/2018	6/26/2019	6/11/2020	6/14/2021
Sample Type:	Resample				Duplicate		App. IX Well				Duplicate		Resample				App. IX Well			
Nitrobenzene	NA	NA	NA	NA	NA	< 0.297	< 0.297	NA	< 0.312	NA	NA	< 0.52	NA	NA	NA	NA	< 0.59	NA	< 0.297	< 0.297
N-Nitrosodiethylamine	NA	NA	NA	NA	NA	< 3.57	< 3.57	NA	< 3.57	NA	NA	< 4.6	NA	NA	NA	NA	< 5.1	NA	< 3.57	< 3.57
N-Nitrosodimethylamine	NA	NA	NA	NA	NA	< 0.998	< 0.998	NA	< 1.05	NA	NA	< 3.3	NA	NA	NA	NA	< 3.8	NA	< 0.998	< 0.998
N-Nitrosodi-n-butylamine	NA	NA	NA	NA	NA	< 3.91	< 3.91	NA	< 3.91	NA	NA	< 4.1	NA	NA	NA	NA	< 4.6	NA	< 3.91	< 3.91
N-Nitrosodi-n-propylamine	NA	NA	NA	NA	NA	< 0.261	< 0.261	NA	< 0.274	NA	NA	< 3.1	NA	NA	NA	NA	< 3.5	NA	< 0.261	< 0.261
N-Nitrosodiphenylamine	NA	< 0.5	< 0.52	< 0.60	< 0.49	< 2.37	< 2.37	< 2.37	< 2.49	< 0.17	< 0.17	< 0.45	NA	< 0.47	< 0.47	< 0.5	< 0.5	< 0.49	< 2.37	< 2.37
N-Nitrosomethylethylamine	NA	NA	NA	NA	NA	< 3.25	< 3.25	NA	< 3.25	NA	NA	< 2.9	NA	NA	NA	NA	< 3.2	NA	< 3.25	< 3.25
N-Nitrosomorpholine	NA	NA	NA	NA	NA	< 3.25	< 3.25	NA	< 3.25	NA	NA	< 3.8	NA	NA	NA	NA	< 4.3	NA	< 3.25	< 3.25
N-Nitrosopiperidine	NA	NA	NA	NA	NA	< 3.72	< 3.72	NA	< 3.72	NA	NA	< 3.8	NA	NA	NA	NA	< 4.3	NA	< 3.72	< 3.72
N-Nitrosopyrrolidine	NA	NA	NA	NA	NA	< 3.39	< 3.39	NA	< 3.39	NA	NA	< 4.8	NA	NA	NA	NA	< 5.4	NA	< 3.39	< 3.39
O,O,O-Triethyl Phosphorothioate	NA	NA	NA	NA	NA	NA	< 2.93	NA	< 2.93	NA	NA	< 3.8	NA	NA	NA	NA	< 4.3	NA	NA	< 2.93
Pentachlorobenzene	NA	NA	NA	NA	NA	< 4.15	< 4.15	NA	< 4.15	NA	NA	< 1.9	NA	NA	NA	NA	< 2.1	NA	< 4.15	< 4.15
Pentachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.9	NA	NA	NA	NA	NA	NA	NA	NA
Pentachloronitrobenzene	NA	NA	NA	NA	NA	< 4.15	< 4.15	NA	< 4.15	NA	NA	< 2.9	NA	NA	NA	NA	< 3.2	NA	< 4.15	< 4.15
Pentachlorophenol	NA	< 1.9	< 2.0	< 2.3	< 1.9	< 0.313	< 0.313	< 0.313	< 0.329	< 1.3	< 1.3	< 1.7	NA	< 1.8	< 1.8	< 1.9	< 1.9	< 1.9	< 0.313	< 0.313
Phenacetin	NA	NA	NA	NA	NA	< 4.66	< 4.66	NA	< 4.66	NA	NA	< 2.9	NA	NA	NA	NA	< 3.2	NA	< 4.66	< 4.66
Phenanthrene	NA	< 0.021	< 0.022	< 0.026	< 0.021	< 0.112	< 0.112	< 0.112	< 0.118	13	14	17 J	NA	0.15 J	0.11 J	1.7	2.0	18	0.504 J	< 0.112
Phenol	NA	< 2.8	< 2.9	< 3.3	< 2.7	< 4.33	< 4.33	< 4.33	< 4.55	< 2.5	< 2.5	< 2.5	NA	< 2.6	< 2.6	< 2.7	< 2.8	< 2.7	< 4.33	< 4.33
P-Phenylenediamine	NA	NA	NA	NA	NA	< 387 R	< 387 R	NA	< 387	NA	NA	< 0.95	NA	NA	NA	NA	< 1.1	NA	< 387 R	< 387 R
Pronamide (Kerb)	NA	NA	NA	NA	NA	< 4.21	< 4.21	NA	< 4.21	NA	NA	< 2.9	NA	NA	NA	NA	< 3.2	NA	< 4.21	< 4.21
Pyrene	NA	0.035 J	0.089 J	0.054 J	0.054 J	< 0.107	< 0.107	< 0.107	< 0.112	1.2	1.3	1.5 J	NA	1.4	1.3	1.3	0.81	1.1	0.191 J	< 0.107
Pyridine	NA	NA	NA	NA	NA	< 0.627	< 0.627	NA	< 0.658	NA	NA	< 3.0	NA	NA	NA	NA	< 3.4	NA	< 0.627	< 0.627
Safrole	NA	NA	NA	NA	NA	< 3.68	< 3.68	NA	< 3.68	NA	NA	< 3.8	NA	NA	NA	NA	< 4.3	NA	< 3.68	< 3.68
Sulfide - EPA846 376.1, SM4500-S2-D, mg/L																				
Sulfide	NA	< 0.057	< 0.057	< 0.057	< 0.057	< 0.0062	< 0.011	< 0.0040	< 0.012	NA	NA	0.088 J	NA	0.15	< 0.036	< 0.057	< 0.057	< 0.057	3.5	< 0.011
Volatile Organic Compounds - SW846 8260B, 8260C, ug/L																				
1,1,1,2-Tetrachloroethane	NA	NA	NA	NA	NA	< 0.147	< 0.147	NA	< 0.147	NA	NA	< 0.52	NA	NA	NA	NA	< 0.52	NA	< 0.147	< 0.147
1,1,1-Trichloroethane	NA	NA	NA	NA	NA	< 0.149	< 0.149	NA	< 0.149	NA	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.149	< 0.149
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	< 0.133	< 0.133	NA	< 0.133	NA	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.133	< 0.133
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NA	NA	NA	NA	NA	< 0.180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.180	NA
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	< 0.158	< 0.158	NA	< 0.158	NA	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.158	< 0.158
1,1-Dichloroethane	NA	< 0.5	< 0.5	< 0.50	< 0.50	< 0.100	< 0.1	< 0.1	< 0.100	NA	NA	< 0.5	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.100	< 0.1
1,1-Dichloroethene	NA	< 0.5	< 0.5	< 0.50	< 0.50	< 0.188	< 0.188	< 0.188	< 0.188	NA	NA	< 0.5	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.188	< 0.188
1,1-Dichloropropene	NA	NA	NA	NA	NA	< 0.142	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.142	NA
1,2,3-Trichlorobenzene	NA	NA	NA	NA	NA	< 0.230	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.230	NA
1,2,3-Trichloropropane	NA	NA	NA	NA	NA	< 0.237	< 0.237	NA	< 0.237	NA	NA	< 0.84	NA	NA	NA	NA	< 0.84	NA	< 0.237	< 0.237
1,2,3-Trimethylbenzene	NA	NA	NA	NA	NA	< 0.104	< 0.104	NA	< 0.104	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.104	< 0.104
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	< 0.481	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.481	NA
1,2,4-Trimethylbenzene	NA	NA	NA	NA	NA	< 0.322	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.322	NA
1,2-Dibromo-3-Chloropropane	NA	NA	NA	NA	NA	< 0.276	< 0.276	NA	NA	NA	NA	< 1.5	NA	NA	NA	NA	< 1.5	NA	< 0.276	< 0.276
1,2-Dibromoethane (Ethylene dibromide)	NA	NA	NA	NA	NA	< 0.126	< 0.126	NA	NA	NA	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.126	< 0.126
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	< 0.107	NA	NA	< 0.107	NA	NA	NA	NA	NA	NA	NA	< 0.5	NA	< 0.107	NA
1,2-Dichloroethane	NA	NA	NA	NA	NA	< 0.0819	< 0.0819	NA	< 0.0819	NA	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.0819	< 0.0819
1,2-Dichloropropane	NA	< 0.5	< 0.5	< 0.50	< 0.50	< 0.149	< 0.149	< 0.149	< 0.149	NA	NA	< 0.5	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.149	< 0.149
1,3,5-Trimethylbenzene	NA	NA	NA	NA	NA	< 0.104	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.104	NA
1,3-Butadiene	NA	NA	NA	NA	NA	< 0.299	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.299	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	< 0.110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.110	NA
1,3-Dichloropropane	NA	NA	NA	NA	NA	< 0.110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.110	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	< 0.120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.120	NA
1,4-Dioxane (p-Dioxane)	NA	NA	NA	NA	NA	< 36.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 36.0	NA
1-Methylnaphthalene	NA	NA	NA	NA	NA	< 7.30 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7.30 UJ	NA
2,2,4-Trimethylpentane	NA	NA	NA	NA	NA	< 0.391	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.391	NA
2,2-Dichloropropane	NA	NA	NA	NA	NA	< 0.161	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.161	NA
2-Butanone (Methyl ethyl ketone)	NA	NA	NA	NA	NA	< 1.19	< 1.19	NA	< 1.19	NA	NA	< 2.6	NA	NA	NA	NA	< 2.6	NA	< 1.19	< 1.19
2-Chloro-1,3-Butadiene	NA	NA	NA	NA	NA	< 1.45	< 1.45	NA	< 1.45	NA	NA	< 0.7	NA	NA	NA	NA	< 0.7	NA	< 1.45	< 1.45
2-Chloroethyl vinyl ether	NA	NA	NA	NA	NA	< 0.575	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.575	NA
2-Chlorotoluene	NA	NA	NA	NA	NA	< 0.106	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.106	NA
2-Hexanone	NA	NA	NA	NA	NA	< 0.787	< 0.787	NA	< 0.787	NA	NA	< 3.1	NA	NA	NA	NA	< 3.1	NA	< 0.787	< 0.787
2-Methyl-1-Propanol (isobutyl alcohol)	NA	NA	NA	NA	NA	< 42.1	< 42.1	NA	< 42.1	NA	NA	< 8.5	NA	NA	NA	NA	< 10	NA	< 42.1	< 42.1
2-Methyl-2-Butanol	NA	NA	NA	NA	NA	< 4.90	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.90	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	< 7.18 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7.18 UJ	NA
2-Nitropropane	NA	NA	NA	NA	NA	< 1.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.75	NA
4-Chlorotoluene	NA	NA	NA	NA	NA	< 0.114	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.114	NA
4-Isopropyltoluene (Cymene)	NA	NA	NA	NA	NA	< 0.120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.120	NA
Acetone	NA	< 10	< 10	< 10	< 10	< 11.3	< 11.3	< 11.3	< 11.3	NA	NA	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 11.3	< 11.3
Acetonitrile	NA	NA	NA	NA	NA	< 24.0	< 24	NA	< 24.0	NA	NA	< 12	NA	NA	NA	NA	< 12	NA	< 24.0	< 24
Acrolein	NA	NA	NA	NA	NA	< 2.54	< 2.54	NA	< 2.54	NA	NA	< 10	NA	NA	NA	NA	< 10	NA	< 2.54	< 2.54
Acrylonitrile	NA	NA	NA	NA	NA	< 0.671	< 0.671	NA	< 0.671	NA	NA	< 2.8	NA	NA	NA	NA	< 2.8	NA	< 0.671	< 0.671
Allyl chloride (3-Chloropropene)	NA	NA	NA	NA	NA	< 0.500	< 0.5	NA	< 0.500	NA	NA	< 1.0	NA	NA	NA	NA	< 1.0	NA	< 0.500	< 0.5
Benzene	NA	< 0.38	< 0.38	< 0.38	< 0.38	< 0.0941	< 0.0941	< 0.0941	< 0.0941	23	23	24 J	NA	15	3.7	< 0.38	2.6	16	0.666 J	< 0.0941
Bromobenzene	NA	NA	NA	NA	NA	< 0.118	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.118	NA
Bromodichloromethane (Dichlorobromomethane)	NA	< 0.5	< 0.5	< 0.50	< 0.50	< 0.136	< 0.136	< 0.136	< 0.136	NA	NA	< 0.5	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.136	< 0.136
Bromoform (Tribromomethane)	NA	NA	NA	NA	NA	< 0.129	< 0.129	NA	< 0.129	NA	NA	< 0.71	NA	NA	NA	NA	< 0.71	NA	< 0.129	< 0.129
Bromomethane (Methyl bromide)	NA	NA	NA	NA	NA	< 0.605	< 0.605	NA	< 0.605	NA	NA	< 0.98	NA	NA	NA	NA	< 0.98	NA	< 0.605	< 0.605
Carbon disulfide	NA	< 0.5	< 0.5	< 0.50	< 0.50	< 0.0962	< 0.0962	< 0.0962	0.187 J	NA	NA	< 0.5	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50 UJ	< 0.0962	< 0.0962
Carbon tetrachloride	NA	NA	NA	NA	NA	< 0.128	< 0.128	NA	< 0.128	NA	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.128	< 0.128
Chlorobenzene	NA	< 0.5	< 0.5	< 0.50	< 0.50	< 0.116	< 0.116	< 0.116	< 0.116	NA	NA	< 0.5	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.116	< 0.116
Chlorobromomethane (Bromochloromethane)	NA	NA	NA	NA	NA	< 0.128	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.128	NA
Chlorodibromomethane (Dibromochloromethane)	NA	NA	NA	NA	NA	< 0.140	< 0.14	NA	< 0.140	NA	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.140	< 0.14

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID:	15-S	15-S	15-S	15-S	15-S	15-S	15-S	15-S	15-S	16-D	16-D	16-D	16-D	16-D	16-D	16-D	16-D	16-D	16-D
Sample Date:	9/22/2016	6/12/2017	6/8/2018	6/11/2019	6/11/2019	6/11/2020	6/14/2021	6/20/2022	6/12/2023	6/27/2013	6/27/2013	6/20/2014	9/4/2014	6/5/2015	6/21/2016	6/6/2017	6/6/2018	6/26/2019	6/11/2020	6/14/2021
Sample Type:	Resample				Duplicate		App. IX Well				Duplicate		Resample				App. IX Well			
Chloroethane	NA	NA	NA	NA	NA	< 0.192	< 0.192	NA	< 0.192	NA	NA	< 0.76	NA	NA	NA	NA	< 0.76	NA	< 0.192	< 0.192
Chloroform	NA	< 0.6	< 0.6	< 0.60	< 0.60	< 0.111	< 0.111	< 0.111	< 0.111	NA	NA	< 0.6	NA	< 0.60	< 0.60	< 0.6	< 0.6	< 0.60	< 0.111	< 0.111
Chloromethane (Methyl chloride)	NA	NA	NA	NA	NA	< 0.960	< 0.96	NA	< 0.960	NA	NA	< 0.83	NA	NA	NA	NA	< 0.83	NA	< 0.960	< 0.96
cis-1,2-Dichloroethene	NA	< 0.5	< 0.5	< 0.50	< 0.50	< 0.126	< 0.126	< 0.126	< 0.126	NA	NA	NA	NA	0.73 J	< 0.50	< 0.5	< 0.5	< 0.50	< 0.126	< 0.126
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	< 0.111	< 0.111	NA	< 0.111	NA	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.111	< 0.111
Cyclohexane	NA	NA	NA	NA	NA	< 0.188	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.188	NA
Cyclohexanone	NA	NA	NA	NA	NA	< 3.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.40	NA
Dibromomethane (Methylene bromide)	NA	NA	NA	NA	NA	< 0.122	< 0.122	NA	< 0.122	NA	NA	< 0.59	NA	NA	NA	NA	< 0.59	NA	< 0.122	< 0.122
Dichlorodifluoromethane (Freon 12)	NA	NA	NA	NA	NA	< 0.374	< 0.374	NA	< 0.374	NA	NA	< 0.85	NA	NA	NA	NA	< 0.85	NA	< 0.374	< 0.374
Dichloromonofluoromethane	NA	NA	NA	NA	NA	< 0.130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.130	NA
Dicyclopentadiene	NA	NA	NA	NA	NA	< 0.253	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.253	NA
Ethanol	NA	NA	NA	NA	NA	< 42.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 42.0	NA
Ethyl acetate	NA	NA	NA	NA	NA	< 3.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.59	NA
Ethyl methacrylate	NA	NA	NA	NA	NA	< 1.48	< 1.48	NA	< 1.48	NA	NA	< 0.6	NA	NA	NA	NA	< 0.6	NA	< 1.48	< 1.48
Ethylbenzene	NA	< 0.5	< 0.5	< 0.50	< 0.50	< 0.137	< 0.173	< 0.173	< 0.173	NA	NA	0.53 J	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.137	< 0.173
Hexachlorobutadiene	NA	NA	NA	NA	NA	< 0.337	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.337	NA
Hexachloroethane	NA	NA	NA	NA	NA	< 0.316	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.316	NA
Iodomethane (Methyl iodide)	NA	NA	NA	NA	NA	< 6.00	< 6	NA	< 6.00	NA	NA	< 0.68	NA	NA	NA	NA	< 0.9	NA	< 6.00	< 6
Isopropyl alcohol	NA	NA	NA	NA	NA	< 1.65	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	92.5 U	NA
Isopropyl ether	NA	NA	NA	NA	NA	< 0.105	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.105	NA
Isopropylbenzene (Cumene)	NA	NA	NA	NA	NA	< 0.105	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.105	NA
m+p-Xylenes	NA	NA	NA	NA	NA	< 0.430	< 0.43	< 0.43	< 0.430	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.430	< 0.43
Methyl acetate	NA	NA	NA	NA	NA	< 1.29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.29	NA
Methyl isobutyl ketone (4-Methyl-2-pentanone)	NA	NA	NA	NA	NA	< 0.478	< 0.478	NA	< 0.478	NA	NA	< 1.8	NA	NA	NA	NA	< 1.8	NA	< 0.478	< 0.478
Methyl methacrylate	NA	NA	NA	NA	NA	< 1.52	< 1.52	NA	< 1.52	NA	NA	< 5.0	NA	NA	NA	NA	< 5.0	NA	< 1.52	< 1.52 UJ
Methyl tertiary butyl ether (MTBE)	NA	NA	NA	NA	NA	< 0.101	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.101	NA
Methylacrylonitrile	NA	NA	NA	NA	NA	< 14.2	< 14.2	NA	< 14.2	NA	NA	< 6.0	NA	NA	NA	NA	< 6.0	NA	< 14.2	< 14.2
Methylcyclohexane	NA	NA	NA	NA	NA	< 0.660	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.660	NA
Methylene chloride (Dichloromethane)	NA	NA	NA	NA	NA	< 0.430	< 0.43	NA	< 0.430	NA	NA	< 3.0	NA	NA	NA	NA	< 3.0	NA	< 0.430	< 0.43
Naphthalene	NA	NA	NA	NA	NA	< 1.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.00	NA
n-Butyl alcohol	NA	NA	NA	NA	NA	< 150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 150	NA
n-Butylbenzene	NA	NA	NA	NA	NA	< 0.157	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.157	NA
n-Heptane	NA	NA	NA	NA	NA	< 0.373	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.373	NA
n-Hexane	NA	NA	NA	NA	NA	< 0.749	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.749	NA
n-Propylbenzene	NA	NA	NA	NA	NA	< 0.0993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0993	NA
o-Xylene	NA	NA	NA	NA	NA	< 0.174	< 0.174	< 0.174	< 0.174	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.174	< 0.174
Pentachloroethane	NA	NA	NA	NA	NA	< 2.30	< 2.3	NA	< 2.30	NA	NA	NA	NA	NA	NA	NA	< 0.6	NA	< 11.5	< 2.3
Propionitrile	NA	NA	NA	NA	NA	< 16.2	< 16.2	NA	< 16.2	NA	NA	< 7.0	NA	NA	NA	NA	< 7.0	NA	< 16.2	< 16.2
Propylene (Propene)	NA	NA	NA	NA	NA	< 0.936	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.936	NA
sec-Butylbenzene (2-Phenylbutane)	NA	NA	NA	NA	NA	< 0.125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.125	NA
Styrene	NA	NA	NA	NA	NA	< 0.118	< 0.118	NA	< 0.118	NA	NA	< 1.0	NA	NA	NA	NA	< 1.0	NA	< 0.118	< 0.118
tert-Amyl methyl ether	NA	NA	NA	NA	NA	< 0.195	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.195	NA
Tert-buty formate	NA	NA	NA	NA	NA	< 4.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.51	NA
tert-Butyl alcohol	NA	NA	NA	NA	NA	< 4.06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.06	NA
tert-Butyl ethyl ether	NA	NA	NA	NA	NA	< 0.101	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.101	NA
tert-Butylbenzene	NA	NA	NA	NA	NA	< 0.127	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.127	NA
Tetrachloroethene (PCE)	NA	NA	NA	NA	NA	< 0.300	< 0.3	NA	< 0.300	NA	NA	< 0.58	NA	NA	NA	NA	< 0.58	NA	< 0.300	< 0.3
Tetrahydrofuran	NA	NA	NA	NA	NA	< 0.929	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.929	NA
Toluene	NA	< 0.7	< 0.7	< 0.41	< 0.41	< 0.278	< 0.278	< 0.278	< 0.278	NA	NA	< 0.7	NA	< 0.70	< 0.70	< 0.7	< 0.7	< 0.41	< 0.278	< 0.278
trans-1,2-Dichloroethene	NA	< 0.5	< 0.5	< 0.50	< 0.50	< 0.149	< 0.149	< 0.149	< 0.149	NA	NA	< 0.5	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.149	< 0.149
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	< 0.118	< 0.118	NA	< 0.118	NA	NA	< 0.5	NA	NA	NA	NA	< 0.5	NA	< 0.118	< 0.118
trans-1,4-Dichlorobutene	NA	NA	NA	NA	NA	< 0.467	< 0.467	NA	< 0.467	NA	NA	< 1.0	NA	NA	NA	NA	< 1.0	NA	< 0.467	< 0.467
Trichloroethene (TCE)	NA	< 0.5	< 0.5	< 0.50	< 0.50	< 0.190	< 0.19	< 0.19	< 0.190	NA	NA	< 0.5	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.190	< 0.19
Trichlorofluoromethane (Freon 11)	NA	NA	NA	NA	NA	< 0.160	< 0.16	NA	< 0.160	NA	NA	< 0.52	NA	NA	NA	NA	< 0.52	NA	< 0.160	< 0.16
Vinyl acetate	NA	NA	NA	NA	NA	< 0.692	< 0.692	NA	< 0.692	NA	NA	< 2.0	NA	NA	NA	NA	< 2.0	NA	< 0.692	< 0.692
Vinyl chloride	NA	< 0.5	< 0.5	< 0.50	< 0.50	< 0.234	< 0.234	< 0.234	< 0.234	NA	NA	1.4	NA	1.0	< 0.50	< 0.5	< 0.5	0.70 J	< 0.234	< 0.234
Xylenes, Total	NA	< 1.6	< 1.6	< 1.6	< 1.6	< 0.174	< 0.174	< 0.174	< 0.174	4.8 J	3.1 J	6.3 J	NA	< 1.6	< 1.6	< 1.6	1.7 J	6.1 J	< 0.174	< 0.174

Notes:
mg/L = milligrams per liter
pg/L = picograms per liter
ug/L = micrograms per liter
2014 event performed in accordance with previous permit, with Appendix IX sampling at all program wells every 5 years; subsequent events perfomed annually at rotating list of wells per current permit

Data Qualifier Definitions:
B = The analyte was positively identified, the associated numerica value is estimated due to blank contamination
I = Interference present
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
NA = Not Analyzed
R = The sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified
U = The analyte was analyzed for but was not detected at a concentration greater than the reported sample quantitation limit
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample
< = Not detected at or above the associated Method Detection Limit
As described in annual CMERs, the constituents presented represent the established permit list in effect at time of sampling, and varies annually based on additional Appendix IX detections.
DQE flags may vary by lab and based on professional judgement applied by DQE analyst.

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	16-D 6/20/2022	16-D 6/12/2023 App. IX Well	16-I 6/28/2013	16-I 6/20/2014	16-I 9/4/2014 Resample	16-I 9/4/2014 Resample Duplicate	16-I 6/5/2015	16-I 6/5/2015 Duplicate	16-I 6/21/2016	16-I 6/21/2016 Duplicate	16-I 6/6/2017	16-I 6/6/2017 Duplicate	16-I 6/7/2018 App. IX Well	16-I 6/26/2019	16-I 6/11/2020	16-I 6/14/2021	16-I 6/20/2022	16-I 6/12/2023 App. IX Well	19-SR 6/16/2014 Background
1,2-Dibromoethane - SW846 8011, ug/L																			
1,2-Dibromo-3-Chloropropane	NA	< 0.00793	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.00763	NA
1,2-Dibromoethane (Ethylene dibromide)	NA	< 0.00568	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.00547	NA
Chlorinated Herbicides - SW846 8151, 8151A, 8321, ug/L																			
2,2-Dichloropropionic acid (Dalapon)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.344	NA	NA	NA	NA
2,4,5-T	NA	< 0.573	NA	< 0.04	NA	NA	NA	NA	NA	NA	NA	NA	< 0.016	NA	< 0.258	< 0.258	NA	< 0.573	< 0.04
2,4,5-TP (Silvex)	< 0.335	< 0.807	NA	< 0.018	NA	NA	< 0.018	< 0.018	< 0.036	< 0.036	< 0.0036	< 0.0036	< 0.0073	< 0.0073	< 0.335	< 0.335	< 0.335	< 0.807	< 0.018
2,4-D	NA	< 1.00	NA	< 0.26	NA	NA	NA	NA	NA	NA	NA	NA	< 0.1	NA	< 0.547	< 0.547	NA	< 1.00	< 0.26
2,4-DB	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.302	NA	NA	NA	NA
Dicamba	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.245	NA	NA	NA	NA
Dichlorprop	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.04	NA	NA	NA	NA
Dinoseb	NA	NA	NA	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.250	NA	NA	NA	< 0.16
MCPA (2-Methyl-4-Chlorophenoxyacetic acid)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 13.1	NA	NA	NA	NA
MCPP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 66.0	NA	NA	NA	NA
Cyanide - EPA 846 9012A, EPA 335.2, 335.4, mg/L																			
Cyanide	< 0.0012	< 0.0069	NA	< 0.0035	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0035	NA	NA	NA	< 0.0012	< 0.0069	< 0.0035
Dioxins/Furans - SW846 8290, 8290A, pg/L																			
1,2,3,4,6,7,8,9-OCDD (OCDD)	< 1.6	41 J	NA	NA	NA	NA	5.3 J	3.9 J	2.8 J	6.1 J	6.9 J	9.5 J	3.1 J	9.1 UJ	27 IJ U	< 14	< 3.4	< 11	NA
1,2,3,4,6,7,8,9-OCDF (OCDF)	< 1	< 2.2	NA	NA	NA	NA	1.5 J	1.0 J	0.86 J	4.0 J	1.2 J	2.2 J	3.6 J	< 1.9	< 12	< 12	< 1.5	< 7.0	NA
1,2,3,4,6,7,8-HpCDD	< 1.1	< 2.5	NA	NA	NA	NA	0.61 J	0.62 J	0.69 J	0.86 J	1.2 J	1.9 J	1.0 J	< 0.85	< 3.9	< 4.3	< 1.5	< 3.3	NA
1,2,3,4,6,7,8-HpCDF	< 0.76	< 1.1	NA	NA	NA	NA	0.35 J	0.17 J	< 0.19	0.81 J	1.3 J	0.91 J	1.5 J	< 0.79	< 3.4	< 2.5	< 1.3	< 4.8	NA
1,2,3,4,7,8,9-HpCDF	< 1.4	< 2.6	NA	NA	NA	NA	NA	NA	NA	NA	0.82 J	0.94 J	9.1 J	< 0.96	< 3.5	< 5.7	< 2.1	< 5.6	NA
1,2,3,4,7,8-HxCDD	< 1.5	< 1.6	NA	< 0.78	NA	NA	NA	NA	NA	NA	NA	NA	1.5 J	< 1.4	< 3.0	< 2.6	< 1.4	< 3.4	< 0.73
1,2,3,4,7,8-HxCDF	< 0.32	< 0.94	NA	< 0.59	NA	NA	NA	NA	NA	NA	NA	NA	1.4 J	< 1.3	< 1.7	< 2.1	< 0.47	< 2.4	< 0.58
1,2,3,6,7,8-HxCDD	< 1.3	< 0.88	NA	< 0.77	NA	NA	NA	NA	NA	NA	NA	NA	< 0.13	< 1.3	< 2.9	< 4.1	< 2	< 1.2	< 0.72
1,2,3,6,7,8-HxCDF	< 0.43	< 0.74	NA	< 0.53	NA	NA	NA	NA	NA	NA	NA	NA	0.35 J	< 1.2	< 1.3	< 1.9	< 0.48	< 2.1	< 0.52
1,2,3,7,8,9-HxCDD	< 1.2	< 1.3	NA	< 0.7	NA	NA	NA	NA	NA	NA	NA	NA	< 0.12	< 1.3	< 2.3	< 3.2	< 1.3	< 2.4	< 0.66
1,2,3,7,8,9-HxCDF	< 0.42	< 0.64	NA	< 0.61	NA	NA	NA	NA	NA	NA	NA	NA	5.0 J	3.6 U	< 1.9	< 4.2	< 0.67	< 3.9	< 0.61
1,2,3,7,8-PeCDD	< 0.6	< 1.6	NA	< 3.2	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	< 1.7	< 2.2	< 4.6	< 1.6	< 2.1	< 3.0
1,2,3,7,8-PeCDF	< 0.27	< 0.49	NA	< 3.0	NA	NA	NA	NA	NA	NA	NA	NA	0.83 J	< 0.99	< 1.1	< 3.3	< 0.54	< 2.1	< 2.4
2,3,4,6,7,8-HxCDF	< 0.49	< 0.7	NA	< 0.56	NA	NA	NA	NA	NA	NA	NA	NA	< 0.29	< 1.3	< 1.6	< 1.7	< 0.5	< 2.2	< 0.56
2,3,4,7,8-PeCDF	< 0.22	< 0.97	NA	< 3.1	NA	NA	NA	NA	NA	NA	NA	NA	< 0.18	< 1.0	< 1.2	< 1.9	< 0.2	< 1.3	< 2.5
2,3,7,8-TCDD	< 0.8	< 1.7	NA	< 1.2	NA	NA	NA	NA	NA	NA	NA	NA	< 0.19	< 1.3	< 3.5	< 7.5	< 0.84	< 2.3	< 0.94
2,3,7,8-TCDF	< 0.36	< 1.7	NA	< 1.3	NA	NA	NA	NA	NA	NA	NA	NA	0.6 J	< 1.0	< 2.2	< 7.2	< 0.35	< 1.3	< 0.85
TEQ-WHO 2005	NA	0.012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.048	NA
Total HpCDD	< 1.1	< 2.5	NA	NA	NA	NA	1.6 J	1.5 J	1.6 J	2.1 J	2.7 J	3.3 J	2.6 J	< 5.4	< 3.9	< 4.3	< 1.5	< 3.3	NA
Total HpCDF	< 0.76	< 1.1	NA	NA	NA	NA	0.35 J	0.17 J	< 0.19	0.81 J	2.1 J	1.8 J	14 J	< 0.96	< 3.4	< 2.5	< 1.3	< 4.8	NA
Total HxCDD	< 1.2	< 0.88	NA	< 0.78	NA	NA	< 1.9	< 1.9	< 1.9	< 1.9	2.4 J	2.2 J	2.3 J	< 1.4	9.2 J	< 2.6	< 1.3	< 1.2	12 J
Total HxCDF	< 0.32	< 0.64	NA	< 0.61	NA	NA	< 1.9	< 1.9	< 1.9	< 1.9	4.0 J	3.8 J	11 J	3.6 U	< 1.3	< 1.7	< 0.47	< 2.1	< 0.61
Total PeCDD	< 0.6	< 1.6	NA	< 3.2	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	< 1.7	< 2.2	< 4.6	< 1.6	< 2.1	< 3.0
Total PeCDF	< 0.22	< 0.49	NA	< 3.1	NA	NA	NA	NA	NA	NA	NA	NA	0.83 J	< 1.0	< 1.1	< 1.9	< 0.2	< 1.3	< 2.5
Total TCDD	< 0.8	< 1.7	NA	< 3.1	NA	NA	2.9 J	2.5 J	4.0 J	3.2 J	5.7 J	4.6 J	4.3 J	< 1.3	6.5 J	< 7.5	< 0.84	< 2.3	7.1 J
Total TCDF	< 0.36	< 1.7	NA	< 1.3	NA	NA	NA	NA	NA	NA	NA	NA	0.6 J	< 1.0	< 2.2	< 7.2	< 0.35	< 1.3	< 0.85
Mercury, Total - SW846 7470, 7470A, mg/L																			
Mercury	< 0.00010	0.0002	NA	< 0.000091	NA	NA	< 0.00007	< 0.00007	< 0.000070	< 0.000070	< 0.00007	< 0.00007	< 0.00007	< 0.000070	NA	< 0.00010	< 0.00010	< 0.00010	0.0001 J
Metals, Total - SW846 6010C, 6020, 6020A, mg/L																			
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	< 0.00063	0.00058 J	NA	< 0.01	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0002	NA	NA	0.00069 J	< 0.00063	< 0.00034	< 0.01
Arsenic	0.00049 J	0.00055 J	0.0089	0.0084 J	NA	NA	0.0093	0.009	0.011	0.011	0.01	0.01	0.012	0.0095	0.0083	0.0011	0.0031	0.01	1.9
Barium	0.036	0.046	NA	0.13	NA	NA	0.14	0.14	0.11	0.11	0.11	0.11	0.16	0.19	0.0964	0.0293	0.043	0.11	0.4
Beryllium	< 0.00012	< 0.00021	NA	< 0.001	NA	NA	NA	NA	NA	NA	NA	NA	< 0.000068	NA	NA	< 0.00012	< 0.00012	< 0.00021	< 0.001
Cadmium	< 0.000080	< 0.00019	NA	< 0.001	NA	NA	< 0.00059	< 0.00059	< 0.00034	< 0.00034	< 0.000068	< 0.000068	< 0.00068	< 0.00025	< 0.00008	< 0.000080	< 0.000080	< 0.00019	0.005
Chromium	0.00078 U	0.0025	NA	< 0.002	NA	NA	< 0.00063	< 0.00063	< 0.0011	< 0.0011	0.00043 J	0.00068	0.00047 J	0.0010 J	0.0014	< 0.00062	0.00069 U	0.00074 J	0.0079 J
Cobalt	0.000061 J	0.00019 J	NA	< 0.003	NA	NA	< 0.00025	< 0.00025	< 0.00040	< 0.00040	0.00018 J	0.00018 J	0.00016 J	0.00026 J	0.00031 J	0.00012 J	0.00015 J	0.00019 J	< 0.003
Copper	< 0.00083	< 0.0017	0.0022 J	< 0.002	NA	NA	< 0.0019	< 0.0019	< 0.0021	< 0.0021	< 0.00042	< 0.00042	< 0.00042	< 0.0005	0.00088 J	0.00099 J	< 0.00083	< 0.0017	0.0043 J
Lead	< 0.000070	0.00091 J	NA	< 0.002	NA	NA	< 0.00017	< 0.00017	< 0.00035	< 0.00035	0.00015 J	0.00016 J	< 0.00007	< 0.00017	0.0002 J	< 0.000070	< 0.000070	< 0.00069	0.0036 J
Nickel	0.0010 U	0.0017	NA	< 0.003	NA	NA	< 0.0007	< 0.0007	< 0.0018	< 0.0018	0.00039 J	0.00038 J	< 0.00036	< 0.00086	0.00092 J	0.0011	0.00064 U	< 0.00062	< 0.003
Selenium	< 0.00037	< 0.00026	NA	< 0.004	NA	NA	< 0.00033	< 0.00033	< 0.00024	< 0.00024	< 0.000048	< 0.000048	0.000077 J	0.0026 U	< 0.00037	< 0.00037	< 0.00037	< 0.00026	< 0.004
Silver	< 0.000080	< 0.00020	NA	< 0.002	NA	NA	NA	NA	NA	NA	NA	NA	< 0.000022	NA	NA	< 0.000080	< 0.000080	< 0.00020	< 0.002
Thallium	< 0.000080	< 0.00011	NA	< 0.004	NA	NA	< 0.000017	< 0.000017	< 0.000085	< 0.000085	< 0.000017	< 0.000017	< 0.000017	< 0.00014	< 0.00008	< 0.000080	< 0.000080	< 0.00011	< 0.004
Tin	< 0.00043	0.00066 J	NA	< 0.005	NA	NA	NA	NA	NA	NA	NA	NA	< 0.00022	NA	NA	< 0.00043	< 0.00043	< 0.00065	< 0.005
Vanadium	< 0.0023	0.0013 J	NA	< 0.003	NA	NA	< 0.0022	< 0.0022	< 0.0014	< 0.0014	0.00054	0.00048 J	0.00043 J	< 0.0013	0.0029 J	< 0.0023	< 0.0023	0.00050 J	< 0.003
Zinc	0.0061 U	0.014	NA	< 0.008	NA	NA	< 0.014	< 0.014	NA	NA	NA	NA	0.0024 J	NA	< 0.0044	< 0.0044	< 0.0044	< 0.0072	0.021
Organophosphorus Pesticides - SW846 8141, ug/L																			
Basudin, Neocidol	NA	< 0.302	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.302	NA
Chlorpyrifos	NA	< 0.320	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.320	NA
Coumaphos	NA	< 0.410	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.410	NA
Dasanit	NA	< 0.405	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.405	NA
Demeton	NA	< 0.626	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.626	NA
Demeton-s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibrom	NA	< 0.594	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.594	NA
Dichlorvos	NA	< 0.196	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.196	NA
Dimethoate (Cygon)	NA	< 0.327	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.327	NA
Disulfoton	NA	< 0.227	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.227	NA
EPN	NA	< 0.129	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.129	NA
Ethoprophos	NA	< 0.293	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.293	NA
Ethyl Parathion	NA	< 0.454	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.454	NA
Fenthion	NA	< 0.213	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.213	NA
Folex	NA	< 1.32	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.32	NA

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	16-D 6/20/2022	16-D 6/12/2023 App. IX Well	16-I 6/28/2013	16-I 6/20/2014	16-I 9/4/2014 Resample	16-I 9/4/2014 Resample Duplicate	16-I 6/5/2015	16-I 6/5/2015 Duplicate	16-I 6/21/2016	16-I 6/21/2016 Duplicate	16-I 6/6/2017	16-I 6/6/2017 Duplicate	16-I 6/7/2018 App. IX Well	16-I 6/26/2019	16-I 6/11/2020	16-I 6/14/2021	16-I 6/20/2022	16-I 6/12/2023 App. IX Well	19-SR 6/16/2014 Background
Guthion	NA	< 0.534	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.534	NA
Malathion	NA	< 0.354	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.354	NA
Methyl parathion	NA	< 0.383	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.383	NA
Mevinphos	NA	< 0.275	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.275	NA
Phorate	NA	< 0.276	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.276	NA
Ronnel	NA	< 0.277	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.277	NA
Sulfotepp	NA	< 0.181	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.181	NA
Sulprofos	NA	< 0.214	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.214	NA
Tetrachlorvinphos	NA	< 0.277	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.277	NA
Tetraethyl diphosphate	NA	< 3.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.11	NA
Tokuthion (Prothiofos)	NA	< 0.241	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.241	NA
Trichloronate	NA	< 0.306	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.306	NA
Organophosphorus Pesticides - SW846 8270-PEST, ug/L																			
Dimethoate (Cygon)	NA	< 5.30	NA	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA	< 0.27	NA	< 5.05	< 5.05	NA	< 5.30	< 2.9
Disulfoton	NA	NA	NA	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA	< 0.42	NA	NA	NA	NA	NA	< 2.9
Ethyl Parathion	NA	NA	NA	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	NA	NA	< 2.9
Famphur	NA	< 4.12	NA	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA	< 0.28	NA	< 3.92	< 3.92	NA	< 4.12	< 2.9
Methyl parathion	NA	NA	NA	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA	< 0.19	NA	NA	NA	NA	NA	< 2.9
Phorate	NA	NA	NA	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA	< 0.24	NA	NA	NA	NA	NA	< 2.9
Sulfotepp	NA	< 4.19	NA	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA	< 0.26	NA	< 3.99	< 3.99	NA	< 4.19	< 2.9
Thionazin	NA	< 4.27	NA	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA	< 0.22	NA	< 4.07	< 4.07	NA	< 4.27	< 2.9
Pesticides - SW846 8081, 8081A, 8081B, ug/L																			
4,4'-DDD	NA	< 0.0177	NA	< 0.0029	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0032	NA	NA	< 0.0177 UJ	NA	< 0.0177	< 0.0029
4,4'-DDE	NA	< 0.0154	NA	< 0.0021	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0043	NA	NA	< 0.0154 UJ	NA	< 0.0154	< 0.0021
4,4'-DDT	NA	< 0.0198	NA	< 0.0037	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0042	NA	NA	< 0.0198 UJ	NA	< 0.0198	< 0.0037
Aldrin	< 0.0198	< 0.0198	NA	< 0.0029	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0032	NA	NA	< 0.0198	< 0.0198	< 0.0198	< 0.0029
alpha-BHC	NA	< 0.0172	NA	< 0.0034	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0038	NA	NA	< 0.0172	NA	< 0.0172	< 0.0034
alpha-Chlordane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0045	NA	NA	< 0.0149 UJ	NA	NA	NA
beta-BHC	NA	< 0.0208	NA	< 0.0029	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0032	NA	NA	< 0.0208	NA	< 0.0208	< 0.0029
beta-Chlordane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0034	NA	NA	NA	NA	NA	NA
Chlordane	NA	< 0.0198	NA	< 0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0198	NA	< 0.0198	< 0.12
Chlordane, technical	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	NA	NA	NA
Chlorobenzilate	NA	NA	NA	< 0.037	NA	NA	NA	NA	NA	NA	NA	NA	< 0.042	NA	NA	NA	NA	NA	< 0.037
delta-BHC	NA	< 0.0150	NA	< 0.002	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0029	NA	NA	< 0.015	NA	< 0.0150	< 0.002
Dieldrin	NA	< 0.0162	NA	< 0.0029	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0063	NA	NA	< 0.0162 UJ	NA	< 0.0162	< 0.0029
Endosulfan I	NA	< 0.0160	NA	< 0.0029	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0032	NA	NA	< 0.016 UJ	NA	< 0.0160	< 0.0029
Endosulfan II	NA	< 0.0164	NA	< 0.007	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0079	NA	NA	< 0.0164	NA	< 0.0164	< 0.007
Endosulfan sulfate	NA	< 0.0217	NA	< 0.002	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0022	NA	NA	< 0.0217 UJ	NA	< 0.0217	< 0.002
Endrin	NA	< 0.0161	NA	< 0.0029	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0032	NA	NA	< 0.0161 UJ	NA	< 0.0161	< 0.0029
Endrin aldehyde	NA	< 0.0237	NA	< 0.0027	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0030	NA	NA	< 0.0237	NA	< 0.0237	< 0.0027
Endrin ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	NA	< 0.0209	NA	< 0.024	NA	NA	NA	NA	NA	NA	NA	NA	< 0.027	NA	NA	< 0.0209	NA	< 0.0209	< 0.024
gamma-Chlordane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0137 UJ	NA	NA	NA
Heptachlor	NA	< 0.0148	NA	< 0.003	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0033	NA	NA	< 0.0148	NA	< 0.0148	< 0.003
Heptachlor Epoxide	NA	< 0.0183	NA	< 0.003	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0034	NA	NA	< 0.0183 UJ	NA	< 0.0183	< 0.003
Hexachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	NA	< 0.0193	NA	< 0.0039	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0044	NA	NA	< 0.0193 UJ	NA	< 0.0193	< 0.0039
Toxaphene	NA	< 0.168	NA	< 0.29	NA	NA	NA	NA	NA	NA	NA	NA	< 0.43	NA	NA	< 0.168	NA	< 0.168	< 0.29
Phenolics - E420.1, E420.4, SW9065, mg/L																			
Total Recoverable Phenolics	< 0.0250	0.0097 J	0.058	NA	NA	NA	0.11	0.11	0.32	0.34	0.2	0.25	0.08	< 0.09	0.11 U	0.0282	0.107	0.074	< 0.0045
Polychlorinated Biphenyl (PCB) - SW846 8082, 8082A, ug/																			
PCB-1016	NA	< 0.204	NA	< 0.046	NA	NA	NA	NA	NA	NA	NA	NA	< 0.068	NA	NA	NA	NA	< 0.200	< 0.046
PCB-1221	NA	< 0.408	NA	< 0.21	NA	NA	NA	NA	NA	NA	NA	NA	< 0.31	NA	NA	NA	NA	< 0.400	< 0.21
PCB-1232	NA	< 0.204	NA	< 0.095	NA	NA	NA	NA	NA	NA	NA	NA	< 0.58	NA	NA	NA	NA	< 0.200	< 0.095
PCB-1242	NA	< 0.204	NA	< 0.032	NA	NA	NA	NA	NA	NA	NA	NA	< 0.26	NA	NA	NA	NA	< 0.200	< 0.032
PCB-1248	NA	< 0.204	NA	< 0.019	NA	NA	NA	NA	NA	NA	NA	NA	< 0.028	NA	NA	NA	NA	< 0.200	< 0.019
PCB-1254	NA	< 0.204	NA	< 0.054	NA	NA	NA	NA	NA	NA	NA	NA	< 0.44	NA	NA	NA	NA	< 0.200	< 0.054
PCB-1260	NA	< 0.204	NA	< 0.032	NA	NA	NA	NA	NA	NA	NA	NA	< 0.048	NA	NA	NA	NA	< 0.200	< 0.032
PCB-1262	NA	< 0.204	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.200	NA
PCB-1268	NA	< 0.306	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.300	NA
PCBs, Total	NA	< 0.408	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.400	NA
Semi-Volatile Organic Compounds - SW846 8270C, 8270D																			
1,2,4,5-Tetrachlorobenzene	NA	< 0.0679	NA	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	< 0.56	NA	< 0.0647	< 0.0647	NA	< 0.0679	< 0.5
1,2,4-Trichlorobenzene	NA	< 0.0733	NA	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	< 0.57	NA	< 0.0698	< 0.0698	NA	< 0.0733	< 0.5
1,2-Dichlorobenzene	NA	< 0.0749	NA	< 0.54	NA	NA	NA	NA	NA	NA	NA	NA	< 0.61	NA	< 0.0713	< 0.0713	NA	< 0.0749	< 0.54
1,3,5-Trinitrobenzene	NA	< 1.39	NA	< 1.9	NA	NA	NA	NA	NA	NA	NA	NA	< 2.1	NA	< 1.32	< 1.32	NA	< 1.39	< 1.9
1,3-Dichlorobenzene	NA	< 0.139	NA	< 0.45	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	NA	< 0.132	< 0.132	NA	< 0.139	< 0.45
1,3-Dinitrobenzene	NA	< 0.377	NA	< 0.95	NA	NA	NA	NA	NA	NA	NA	NA	< 1.1	NA	< 0.359	< 0.359	NA	< 0.377	NA
1,4-Dichlorobenzene	NA	< 0.0989	NA	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	< 0.56	NA	< 0.0942	< 0.0942	NA	< 0.0989	< 0.5
1,4-Dioxane (p-Dioxane)	0.122 U	0.273 J	NA	7.4 J	5.5 J	< 0.96	6.7 J	7.8 J	7.9 J	7.2 J	4.5 J	7.6 J	5.8 J	< 1.0	NA	0.278 J	6.92	12.9	< 0.95
1,4-Naphthoquinone	NA	< 5.84	NA	< 3.8	NA	NA	NA	NA	NA	NA	NA	NA	< 4.3	NA	< 5.56 R	< 5.56 R	NA	< 5.84	< 3.8
1-Methylnaphthalene	< 0.079	0.118 J	0.59	0.83 J	NA	NA	0.8	0.96	46	86	78	120	0.46	0.13 J	9.99	4.58	75.7	149	< 0.48
1-Naphthylamine	< 0.289	< 0.303	3.7 J	< 3.8	NA	NA	6.4 J	5.0 J	< 4.0	< 4.0	< 4.0	< 4.0	< 4.3	< 4.0	< 0.289	< 0.289	1.33 J	6.73 J	< 3.8
2,2'-Oxybis(1-chloropropane)	NA	< 0.221	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	NA	< 0.221	NA
2,3,4,6-Tetrachlorophenol	NA	< 0.243	NA	< 0.61	NA	NA	NA	NA	NA	NA	NA	NA	< 0.68	NA	< 0.231	< 0.231	NA	< 0.243	< 0.61
2,4,5-Trichlorophenol	NA	< 0.114	NA	< 3.5	NA	NA	NA	NA	NA	NA	NA	NA	< 4.0	NA	< 0.109	< 0.109	NA	< 0.114	< 3.5
2,4,6-Trichlorophenol	NA	< 0.105	NA	< 3.3	NA	NA	NA	NA	NA	NA	NA	NA	< 3.7	NA	< 0.100	< 0.1	NA	< 0.105	< 3.3
2,4-Dichlorophenol	NA	< 0.107	NA	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA	< 3.2	NA	< 0.102	< 0.102	NA	< 0.107	< 2.9
2,4-Dimethylphenol	< 0.0636	< 0.0668	< 3.3	< 3.3	NA	NA	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.5	< 3.7	< 3.5	< 0.0636	< 0.0636	< 0.0636	< 0.0668	< 3.3

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	16-D 6/20/2022	16-D 6/12/2023 App. IX Well	16-I 6/28/2013	16-I 6/20/2014	16-I 9/4/2014 Resample	16-I 9/4/2014 Resample Duplicate	16-I 6/5/2015	16-I 6/5/2015 Duplicate	16-I 6/21/2016	16-I 6/21/2016 Duplicate	16-I 6/6/2017	16-I 6/6/2017 Duplicate	16-I 6/7/2018 App. IX Well	16-I 6/26/2019	16-I 6/11/2020	16-I 6/14/2021	16-I 6/20/2022	16-I 6/12/2023 App. IX Well	19-SR 6/16/2014 Background
2,4-Dinitrophenol	NA	< 6.23	NA	< 3.2	NA	NA	NA	NA	NA	NA	NA	NA	< 3.6	NA	< 5.93	< 5.93	NA	< 6.23	< 3.2
2,4-Dinitrotoluene	NA	< 0.103	NA	< 1.8	NA	NA	NA	NA	NA	NA	NA	NA	< 2.0	NA	< 0.0983	< 0.0983	NA	< 0.103	< 1.8
2,6-Dichlorophenol	NA	< 0.107	NA	< 3.8	NA	NA	NA	NA	NA	NA	NA	NA	< 4.3	NA	< 0.102	< 0.102	NA	< 0.107	< 3.8
2,6-Dinitrotoluene	NA	< 0.263	NA	< 1.8	NA	NA	NA	NA	NA	NA	NA	NA	< 2.0	NA	< 0.250	< 0.25	NA	< 0.263	< 1.8
2-Acetylaminofluorene	NA	< 0.266	NA	< 3.8	NA	NA	NA	NA	NA	NA	NA	NA	< 4.3	NA	< 0.253	< 0.253	NA	< 0.266	< 3.8
2-Chloronaphthalene	NA	< 0.0680	NA	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	< 0.56	NA	< 0.0648	< 0.0648	NA	< 0.0680	< 0.5
2-Chlorophenol	NA	< 0.140	NA	< 2.1	NA	NA	NA	NA	NA	NA	NA	NA	< 2.4	NA	< 0.133	< 0.133	NA	< 0.140	< 2.1
2-Methylaniline (o-Toluidine)	< 3.53	< 3.71	1.5 J	< 5.7	NA	NA	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	< 6.1	< 6.4	< 6.1	< 3.53	< 3.53	< 3.53	< 3.71	< 5.7
2-Methylnaphthalene	< 0.117	< 0.123	0.11 J	< 0.51	NA	NA	< 6.3	< 6.3	28	62	35	63	< 0.021	0.12 J	8.14	6.27	114	201	< 0.51
2-Methylphenol (o-Cresol)	NA	< 0.0975	NA	< 1.7	NA	NA	NA	NA	NA	NA	NA	NA	< 1.9	NA	< 0.0929	< 0.0929	NA	< 0.0975	< 1.7
2-Naphthylamine	< 4.48	< 4.70	7.0 J	5.6 J	NA	NA	12	9.1 J	< 4.0	4.0 J	< 4.0	< 4.0	< 4.3	< 4.0	< 4.48	< 4.48	< 4.48	< 4.70	< 3.8
2-Nitroaniline	NA	< 0.107	NA	< 2.1	NA	NA	NA	NA	NA	NA	NA	NA	< 2.4	NA	< 0.102	< 0.102	NA	< 0.107	< 2.1
2-Nitrophenol	NA	< 0.123	NA	< 0.62	NA	NA	NA	NA	NA	NA	NA	NA	< 0.7	NA	< 0.117	< 0.117	NA	< 0.123	< 0.62
2-Picoline	NA	< 7.17	NA	< 5.7	NA	NA	NA	NA	NA	NA	NA	NA	< 6.4	NA	< 6.83	< 6.83	NA	< 7.17	< 5.7
3,3'-Dichlorobenzidine	NA	< 0.223	NA	< 2.5	NA	NA	NA	NA	NA	NA	NA	NA	< 2.8	NA	< 0.212	< 0.212	NA	< 0.223	< 2.5
3,3'-Dimethylbenzidine	NA	< 3.56	NA	< 7.6	NA	NA	NA	NA	NA	NA	NA	NA	< 8.6	NA	< 3.39	< 3.39	NA	< 3.56	< 7.6
3+4-Methylphenol (m,p-Cresol)	< 0.168	< 0.176	< 0.37	NA	NA	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.1	< 1.1	< 1.1	< 0.168	< 0.168	< 0.168	< 0.176	NA
3-Methylchloranthrene	NA	< 0.172	NA	< 2.1	NA	NA	NA	NA	NA	NA	NA	NA	< 2.4	NA	< 0.164	< 0.164	NA	< 0.172	< 2.1
3-Methylphenol (m-Cresol)	NA	NA	NA	< 0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.37
3-Nitroaniline	NA	< 0.0912	NA	< 1.7	NA	NA	NA	NA	NA	NA	NA	NA	< 1.9	NA	< 0.0869	< 0.0869	NA	< 0.0912	< 1.7
4,6-Dinitro-2-Methylphenol	NA	< 1.18	NA	< 1.9	NA	NA	NA	NA	NA	NA	NA	NA	< 2.1	NA	< 1.12	< 1.12	NA	< 1.18	< 1.9
4-Aminobiphenyl	NA	< 0.484	NA	< 4.0	NA	NA	NA	NA	NA	NA	NA	NA	< 4.5	NA	< 0.461	< 0.461	NA	< 0.484	< 4.0
4-Bromophenyl phenyl ether	NA	< 0.0921	NA	< 0.3	NA	NA	NA	NA	NA	NA	NA	NA	< 0.34	NA	< 0.0877	< 0.0877	NA	< 0.0921	< 0.3
4-Chloro-3-Methylphenol	NA	< 0.138	NA	< 3.6	NA	NA	NA	NA	NA	NA	NA	NA	< 4.1	NA	< 0.131	< 0.131	NA	< 0.138	< 3.6
4-Chloroaniline	NA	< 0.246	NA	< 3.2	NA	NA	NA	NA	NA	NA	NA	NA	< 3.6	NA	< 0.234	< 0.234	NA	< 0.246	< 3.2
4-Chlorophenyl phenyl ether	NA	< 0.0972	NA	< 1.9	NA	NA	NA	NA	NA	NA	NA	NA	< 2.1	NA	< 0.0926	< 0.0926	NA	< 0.0972	< 1.9
4-Dimethylaminoazobenzene	NA	< 3.87	NA	< 2.2	NA	NA	NA	NA	NA	NA	NA	NA	< 2.5	NA	< 3.69	< 3.69	NA	< 3.87	< 2.2
4-Methylphenol (p-Cresol)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.37
4-Nitroaniline	NA	< 0.0956	NA	< 2.4	NA	NA	NA	NA	NA	NA	NA	NA	< 2.7	NA	< 0.0910	< 0.091	NA	< 0.0956	< 2.4
4-Nitrophenol	NA	< 0.150	NA	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	< 2.2	NA	< 0.143	< 0.143	NA	< 0.150	< 2.0
4-Nitroquinoline-N-Oxide	NA	< 2.13	NA	< 1.9	NA	NA	NA	NA	NA	NA	NA	NA	< 2.1	NA	< 2.03	< 2.03	NA	< 2.13	< 1.9
5-Nitro-O-Toluidine	NA	< 2.09	NA	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA	< 3.2	NA	< 1.99	< 1.99	NA	< 2.09	< 2.9
7,12-Dimethylbenz(a)anthracene	NA	< 1.80	NA	< 3.5	NA	NA	NA	NA	NA	NA	NA	NA	< 4.0	NA	< 1.71	< 1.71	NA	< 1.80	< 3.5
Acenaphthene	< 0.0886	0.180 J	180	220 J	NA	NA	270	300	190	280	310	320	250	8.8	22.5	4.82	60	139	0.57 J
Acenaphthylene	< 0.0921	< 0.0967	1.2	1.2 J	NA	NA	< 0.020	< 0.020	1.5	1.8	1.8	1.4	< 0.021	< 0.020	< 0.0921	< 0.0921	0.212 J	< 0.0967	< 0.53
Acetophenone	NA	< 0.218	NA	< 0.59	NA	NA	NA	NA	NA	NA	NA	NA	< 0.66	NA	< 0.208	< 0.208	NA	< 0.218	< 0.59
alpha, alpha-Dimethylphenethylamine	NA	< 3.29	NA	< 9.5	NA	NA	NA	NA	NA	NA	NA	NA	< 11	NA	< 3.13 R	< 3.13 R	NA	< 3.29	< 9.5
Aniline	NA	< 1.73	NA	< 3.6	NA	NA	NA	NA	NA	NA	NA	NA	< 4.1	NA	< 1.65	< 1.65	NA	< 1.73	< 3.6
Anthracene	< 0.0804	< 0.0844	1.3	0.94 J	NA	NA	0.87	0.93	1.2	1.5	< 0.02	< 0.02	< 0.021	< 0.020	< 0.0804	< 0.0804	< 0.0804	0.898 J	< 0.4
Aramite	NA	< 17.5	NA	< 1.9	NA	NA	NA	NA	NA	NA	NA	NA	< 2.1	NA	< 16.7	< 16.7	NA	< 17.5	< 1.9
Benzo(a)anthracene	< 0.199	< 0.209	0.099 J	< 0.32	NA	NA	< 0.092	< 0.092	< 0.20	< 0.20	< 0.04	< 0.04	< 0.043	< 0.040	< 0.199	< 0.199	< 0.199	< 0.209	< 0.32
Benzo(a)pyrene	< 0.0381	< 0.0400	0.077 J	< 0.41	NA	NA	< 0.20	< 0.20	< 0.20	< 0.20	< 0.04	< 0.04	< 0.043	< 0.040	< 0.0381	< 0.0381	< 0.0381	< 0.0400	< 0.41
Benzo(b)fluoranthene	< 0.13	< 0.136	0.17 J	< 0.36	NA	NA	< 0.092	< 0.092	< 0.20	< 0.20	< 0.04	< 0.04	< 0.043	< 0.040	< 0.130	< 0.13	< 0.13	< 0.136	< 0.36
Benzo(g,h,i)perylene	< 0.121	< 0.127	0.21	< 1.0	NA	NA	< 0.040	< 0.040	< 0.20	< 0.20	< 0.04	< 0.04	< 0.043	< 0.040	< 0.121	< 0.121	< 0.121	< 0.127	< 1.0
Benzo(k)fluoranthene	< 0.12	< 0.126	0.081 J	< 0.51	NA	NA	< 0.92	< 0.92	< 0.20	< 0.20	< 0.04	< 0.04	0.052 J	< 0.040	< 0.120	< 0.12	< 0.12	< 0.126	< 0.51
Benzyl Alcohol	NA	< 0.591	NA	< 1.9	NA	NA	NA	NA	NA	NA	NA	NA	< 2.1	NA	< 0.563	< 0.563	NA	< 0.591	< 1.9
bis(2-Chloroethoxy)methane	NA	< 0.122	NA	< 0.66	NA	NA	NA	NA	NA	NA	NA	NA	< 0.74	NA	< 0.116	< 0.116	NA	< 0.122	< 0.66
bis(2-Chloroethyl)ether	NA	< 0.144	NA	< 0.7	NA	NA	NA	NA	NA	NA	NA	NA	< 0.79	NA	< 0.137	< 0.137	NA	< 0.144	< 0.7
bis(2-Chloroisopropyl)ether	NA	NA	NA	< 0.77	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77
bis(2-Ethylhexyl)phthalate	< 0.895	< 0.940	< 1.9	< 2.2	NA	NA	< 6.0	< 6.0	< 2.3	< 2.3	4.0 J	< 2.3	< 2.4	< 5.1	< 0.895	< 0.895	< 0.895	< 0.940	< 2.2
Butyl benzyl phthalate	NA	< 0.803	NA	< 0.66	NA	NA	NA	NA	NA	NA	NA	NA	< 0.74	NA	< 0.765	< 0.765	NA	< 0.803	< 0.66
Chlorobenzilate	NA	< 4.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.84	NA	< 4.03	NA
Chrysene	< 0.13	< 0.136	< 0.038	< 0.47	NA	NA	< 9.2	< 9.2	< 0.20	< 0.20	< 0.04	< 0.04	< 0.043	< 0.040	< 0.130	< 0.13	< 0.13	< 0.136	< 0.47
Diallate	NA	< 0.550	NA	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA	< 3.2	NA	< 0.524	< 0.524	NA	< 0.550	< 2.9
Dibenzo(a,h)anthracene	NA	< 0.0676	NA	< 1.1	NA	NA	NA	NA	NA	NA	NA	NA	< 1.3	NA	< 0.0644	< 0.0644	NA	< 0.0676	< 1.1
Dibenzofuran	< 0.097	< 0.102	1.8 J	< 0.5	NA	NA	< 1.2	< 1.2	6.9 J	13	5.4 J	6.3 J	< 0.56	< 0.53	< 0.0970	0.142 J	8.92 J	25.7	< 0.5
Diethyl phthalate	NA	< 0.301	NA	< 0.67	NA	NA	NA	NA	NA	NA	NA	NA	< 0.75	NA	< 0.287	< 0.287	NA	< 0.301	< 0.67
Dimethyl phthalate	NA	< 0.273	NA	< 0.57	NA	NA	NA	NA	NA	NA	NA	NA	< 0.64	NA	< 0.260	< 0.26	NA	< 0.273	< 0.57
Di-n-butyl phthalate	NA	< 0.476	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.9	NA	< 0.453	< 0.453	NA	< 0.476	NA
Di-n-octyl phthalate	< 0.932	< 0.979	< 0.16	< 0.42	NA	NA	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.47	< 0.44	< 0.932	< 0.932	< 0.932	< 0.979	< 0.42
Dinoseb	NA	< 8.41	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.2	NA	< 8.01	< 8.01	NA	< 8.41	NA
Diphenylamine	NA	< 2.49	NA	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA	< 3.2	NA	< 2.37	< 2.37	NA	< 2.49	< 2.9
Ethyl methanesulfonate	NA	< 0.342	NA	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA	< 3.2	NA	< 0.326	< 0.326	NA	< 0.342	< 2.9
Fluoranthene	< 0.102	< 0.107	1.6	2.0 J	NA	NA	1.4	1.6	3.0	3.5	2.3	3.0	3.8	1.1	0.594 J	0.191 J	0.566 J	2.22	< 0.73
Fluorene	< 0.0844	< 0.0886	18	2.2 J	NA	NA	2.0	2.2	34	44	31	46	7.0	< 0.021	2.34	1.05	17.8	55	< 0.53
Hexachlorobenzene	NA	< 0.0793	NA	< 0.24	NA	NA	NA	NA	NA	NA	NA	NA	< 0.27	NA	< 0.0755	< 0.0755	NA	< 0.0793	< 0.24
Hexachlorobutadiene	NA	< 0.102	NA	< 3.4	NA	NA	NA	NA	NA	NA	NA	NA	< 3.8	NA	< 0.0968	< 0.0968	NA	< 0.102	< 3.4
Hexachlorocyclopentadiene	NA	< 0.0628	NA	< 2.5	NA	NA	NA	NA	NA	NA	NA	NA	< 2.8	NA	< 0.0598	< 0.0598	NA	< 0.0628	< 2.5
Hexachloroethane	< 0.127	< 0.133	< 4.0	< 4.0	NA	NA	< 4.8	< 4.8	< 4.2	< 4.2	< 4.2	< 4.2	< 4.5	< 4.2	< 0.127	< 0.127	< 0.127	< 0.133	< 4.0
Hexachlorophene	NA	< 1.51	NA	< 95	NA	NA	NA	NA	NA	NA	NA	NA	< 110	NA	< 1.44	< 1.44	NA	< 1.51	< 95
Hexachloropropene	NA	< 0.156	NA	< 1.9	NA	NA	NA	NA	NA	NA	NA	NA	< 2.1	NA	< 0.149	< 0.149	NA	< 0.156	< 1.9
Indeno(1,2,3-cd)pyrene	< 0.279	< 0.293	0.21	< 0.97	NA	NA	< 0.092	< 0.092	< 0.20	< 0.20	< 0.04	< 0.04	< 0.043	< 0.040	< 0.279	< 0.279	< 0.279	< 0.293	< 0.97
Isodrin	NA	< 4.32	NA	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA	< 3.2	NA	< 4.11	< 4.11	NA	< 4.32	< 2.9
Isophorone	NA	< 0.150	NA	< 0.54	NA	NA	NA	NA	NA	NA	NA	NA	< 0.61	NA	< 0.143	< 0.143	NA	< 0.150	< 0.54
Isosafrole	NA	< 4.07	NA	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA	< 3.2	NA	< 3.88	< 3.88	NA	< 4.07	< 2.9
Kepone	NA	< 2.79	NA	< 0.19	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	NA	< 2.66	< 2.66	NA	< 2.79	< 0.19
Methapyrilene	NA	< 10.5	NA	< 7.6	NA	NA	NA	NA	NA	NA	NA	NA	< 8.6	NA	< 10.0	< 10 R	NA	< 10.5	< 7.6
Methyl methanesulfonate	NA	< 3.57	NA	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA	< 3.2	NA	< 3.40	< 3.4	NA	< 3.57	< 2.9
Naphthalene	< 0.159	< 0.167	0.26	0.91 J	NA	NA	< 0.62	< 0.62	2.3	3.7	3.2	2.8	0.16 J	0.042 U	0.583 J	0.295 J	3.02	5.26	< 0.6

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	16-D 6/20/2022	16-D 6/12/2023 App. IX Well	16-I 6/28/2013	16-I 6/20/2014	16-I 9/4/2014 Resample	16-I 9/4/2014 Resample Duplicate	16-I 6/5/2015	16-I 6/5/2015 Duplicate	16-I 6/21/2016	16-I 6/21/2016 Duplicate	16-I 6/6/2017	16-I 6/6/2017 Duplicate	16-I 6/7/2018 App. IX Well	16-I 6/26/2019	16-I 6/11/2020	16-I 6/14/2021	16-I 6/20/2022	16-I 6/12/2023 App. IX Well	19-SR 6/16/2014 Background
Nitrobenzene	NA	< 0.312	NA	< 0.52	NA	NA	NA	NA	NA	NA	NA	NA	< 0.59	NA	< 0.297	< 0.297	NA	< 0.312	< 0.52
N-Nitrosodiethylamine	NA	< 3.75	NA	< 4.6	NA	NA	NA	NA	NA	NA	NA	NA	< 5.1	NA	< 3.57	< 3.57	NA	< 3.75	< 4.6
N-Nitrosodimethylamine	NA	< 1.05	NA	< 3.3	NA	NA	NA	NA	NA	NA	NA	NA	< 3.7	NA	< 0.998	< 0.998	NA	< 1.05	< 3.3
N-Nitrosodi-n-butylamine	NA	< 4.11	NA	< 4.1	NA	NA	NA	NA	NA	NA	NA	NA	< 4.6	NA	< 3.91	< 3.91	NA	< 4.11	< 4.1
N-Nitrosodi-n-propylamine	NA	< 0.274	NA	< 3.1	NA	NA	NA	NA	NA	NA	NA	NA	< 3.5	NA	< 0.261	< 0.261	NA	< 0.274	< 3.1
N-Nitrosodiphenylamine	< 2.37	< 2.49	< 0.17	< 0.45	NA	NA	1.2 J	< 0.47	< 0.47	< 0.47	< 0.47	< 0.48	< 0.5	< 0.47	< 2.37	< 2.37	< 2.37	< 2.49	< 0.45
N-Nitrosomethylethylamine	NA	< 3.41	NA	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA	< 3.2	NA	< 3.25	< 3.25	NA	< 3.41	< 2.9
N-Nitrosomorpholine	NA	< 3.41	NA	< 3.8	NA	NA	NA	NA	NA	NA	NA	NA	< 4.3	NA	< 3.25	< 3.25	NA	< 3.41	< 3.8
N-Nitrosopiperidine	NA	< 3.91	NA	< 3.8	NA	NA	NA	NA	NA	NA	NA	NA	< 4.3	NA	< 3.72	< 3.72	NA	< 3.91	< 3.8
N-Nitrosopyrrolidine	NA	< 3.56	NA	< 4.8	NA	NA	NA	NA	NA	NA	NA	NA	< 5.3	NA	< 3.39	< 3.39	NA	< 3.56	< 4.8
O,O,O-Triethyl Phosphorothioate	NA	< 3.08	NA	< 3.8	NA	NA	NA	NA	NA	NA	NA	NA	< 4.3	NA	NA	< 2.93	NA	< 3.08	< 3.8
Pentachlorobenzene	NA	< 4.36	NA	< 1.9	NA	NA	NA	NA	NA	NA	NA	NA	< 2.1	NA	< 4.15	< 4.15	NA	< 4.36	< 1.9
Pentachloroethane	NA	NA	NA	< 1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.9
Pentachloronitrobenzene	NA	< 4.36	NA	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA	< 3.2	NA	< 4.15	< 4.15	NA	< 4.36	< 2.9
Pentachlorophenol	< 0.313	< 0.329	< 1.3	< 1.7	NA	NA	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.9	< 1.8	< 0.313	< 0.313	< 0.313	< 0.329	< 1.7
Phenacetin	NA	< 4.89	NA	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA	< 3.2	NA	< 4.66	< 4.66	NA	< 4.89	< 2.9
Phenanthrene	< 0.112	0.131 J	5.6	0.61 J	NA	NA	0.51	0.59	15	25	21	36	1.8	0.053 U	0.822 J	1.17	14.6	48.2	< 0.39
Phenol	< 4.33	< 4.55	< 2.5	< 2.5	NA	NA	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.6	< 2.8	< 2.6	< 4.33	< 4.33	< 4.33	< 4.55	< 2.5
P-Phenylenediamine	NA	< 406	NA	< 0.95	NA	NA	NA	NA	NA	NA	NA	NA	< 1.1	NA	< 387 R	< 387 R	NA	< 406	< 0.95
Pronamide (Kerb)	NA	< 4.42	NA	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA	< 3.2	NA	< 4.21	< 4.21	NA	< 4.42	< 2.9
Pyrene	< 0.107	< 0.112	1.2	1.1 J	NA	NA	1.1	1.2	0.99 J	1.1	1.0	1.2	1.3	0.57	0.427 J	< 0.107	0.367 J	1.06	< 1.0
Pyridine	NA	< 0.658	NA	< 3.0	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	NA	< 0.627	< 0.627	NA	< 0.658	< 3.0
Safrole	NA	< 3.86	NA	< 3.8	NA	NA	NA	NA	NA	NA	NA	NA	< 4.3	NA	< 3.68	< 3.68	NA	< 3.86	< 3.8
Sulfide - EPA846 376.1, SM4500-S2-D, mg/L																			
Sulfide	< 0.0040	< 0.012	NA	0.064 J	NA	NA	0.074 J	0.066 J	0.039 J	0.055 J	0.086 J	0.088 J	0.11	< 0.057	< 0.0062	< 0.011	0.092	< 0.012	0.066 J
Volatile Organic Compounds - SW846 8260B, 8260C, ug/L																			
1,1,1,2-Tetrachloroethane	NA	< 0.147	NA	< 0.52	NA	NA	NA	NA	NA	NA	NA	NA	< 0.52	NA	< 0.147	< 0.147	NA	< 0.147	< 0.52
1,1,1-Trichloroethane	NA	< 0.149	NA	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	NA	< 0.149	< 0.149	NA	< 0.149	< 0.5
1,1,2,2-Tetrachloroethane	NA	< 0.133	NA	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	NA	< 0.133	< 0.133	NA	< 0.133	< 0.5
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.180	NA	NA	NA	NA
1,1,2-Trichloroethane	NA	< 0.158	NA	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	NA	< 0.158	< 0.158	NA	< 0.158	< 0.5
1,1-Dichloroethane	< 0.1	< 0.100	NA	0.89 J	NA	< 0.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.50	< 0.100	< 0.1	0.262 J	0.587 J	< 0.5
1,1-Dichloroethene	< 0.188	< 0.188	NA	< 0.5	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.50	< 0.188	< 0.188	< 0.188	< 0.188	< 0.5
1,1-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.142	NA	NA	NA	NA
1,2,3-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.230	NA	NA	NA	NA
1,2,3-Trichloropropane	NA	< 0.237	NA	< 0.84	NA	NA	NA	NA	NA	NA	NA	NA	< 0.84	NA	< 0.237	< 0.237	NA	< 0.237	< 0.84
1,2,3-Trimethylbenzene	NA	< 0.104	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.95	0.81 J	NA	23.7	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.481	NA	NA	NA	NA
1,2,4-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.322	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NA	NA	NA	< 1.5	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	NA	< 0.276	< 0.276	NA	NA	< 1.5
1,2-Dibromoethane (Ethylene dibromide)	NA	NA	NA	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	NA	< 0.126	< 0.126	NA	NA	< 0.5
1,2-Dichlorobenzene	NA	< 0.107	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	NA	< 0.107	NA	NA	< 0.107	NA
1,2-Dichloroethane	NA	< 0.0819	NA	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	NA	< 0.0819	< 0.0819	NA	< 0.0819	< 0.5
1,2-Dichloropropane	< 0.149	< 0.149	NA	< 0.5	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.50	< 0.149	< 0.149	< 0.149	< 0.149	< 0.5
1,3,5-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.104	NA	NA	NA	NA
1,3-Butadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.299	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.110	NA	NA	NA	NA
1,3-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.110	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.120	NA	NA	NA	NA
1,4-Dioxane (p-Dioxane)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 36.0	NA	NA	NA	NA
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39.8 J	NA	NA	NA	NA
2,2,4-Trimethylpentane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.391	NA	NA	NA	NA
2,2-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.161	NA	NA	NA	NA
2-Butanone (Methyl ethyl ketone)	NA	< 1.19	NA	< 2.6	NA	NA	NA	NA	NA	NA	NA	NA	< 2.6	NA	< 1.19	< 1.19	NA	< 1.19	< 2.6
2-Chloro-1,3-Butadiene	NA	< 1.45	NA	< 0.7	NA	NA	NA	NA	NA	NA	NA	NA	< 0.7	NA	< 1.45	< 1.45	NA	< 1.45	< 0.7
2-Chloroethyl vinyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.575	NA	NA	NA	NA
2-Chlorotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.106	NA	NA	NA	NA
2-Hexanone	NA	< 0.787	NA	< 3.1	NA	NA	NA	NA	NA	NA	NA	NA	< 3.1	NA	< 0.787	< 0.787	NA	< 0.787	< 3.1
2-Methyl-1-Propanol (isobutyl alcohol)	NA	< 42.1	NA	< 8.5	NA	NA	NA	NA	NA	NA	NA	NA	< 10	NA	< 42.1	< 42.1	NA	< 42.1	< 8.5
2-Methyl-2-Butanol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.90	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	56.3 J	NA	NA	NA	NA
2-Nitropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.75	NA	NA	NA	NA
4-Chlorotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.114	NA	NA	NA	NA
4-Isopropyltoluene (Cymene)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.120	NA	NA	NA	NA
Acetone	< 11.3	< 11.3	NA	< 10	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	97	< 11.3	< 11.3	< 11.3	< 11.3	230
Acetonitrile	NA	< 24.0	NA	< 12	NA	NA	NA	NA	NA	NA	NA	NA	< 12	NA	< 24.0	< 24	NA	< 24.0	< 12
Acrolein	NA	< 2.54	NA	< 10	NA	NA	NA	NA	NA	NA	NA	NA	< 10	NA	< 2.54	< 2.54	NA	< 2.54	< 10
Acrylonitrile	NA	< 0.671	NA	< 2.8	NA	NA	NA	NA	NA	NA	NA	NA	< 2.8	NA	< 0.671	< 0.671	NA	< 0.671	< 2.8
Allyl chloride (3-Chloropropene)	NA	< 0.500	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0	NA	< 0.500	< 0.5	NA	< 0.500	< 1.0
Benzene	< 0.0941	< 0.0941	51	63 J	NA	NA	63	62	57	56	45	44	28	0.48 J	12.1	1.81	42.4	73	< 0.34
Bromobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.118	NA	NA	NA	NA
Bromodichloromethane (Dichlorobromomethane)	< 0.136	< 0.136	NA	< 0.5	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.50	< 0.136	< 0.136	< 0.136	< 0.136	< 0.5
Bromoform (Tribromomethane)	NA	< 0.129	NA	< 0.71	NA	NA	NA	NA	NA	NA	NA	NA	< 0.71	NA	< 0.129	< 0.129	NA	< 0.129	< 0.71
Bromomethane (Methyl bromide)	NA	< 0.605	NA	< 0.98	NA	NA	NA	NA	NA	NA	NA	NA	< 0.98	NA	< 0.605	< 0.605	NA	< 0.605	< 0.98
Carbon disulfide	< 0.0962	< 0.0962	NA	< 0.5	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.50 UJ	< 0.0962	< 0.0962	< 0.0962	< 0.0962	< 0.5
Carbon tetrachloride	NA	< 0.128	NA	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	NA	< 0.128	< 0.128	NA	< 0.128	< 0.5
Chlorobenzene	< 0.116	< 0.116	NA	< 0.5	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.50	< 0.116	< 0.116	< 0.116	< 0.116	< 0.5
Chlorobromomethane (Bromochloromethane)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.128	NA	NA	NA	NA
Chlorodibromomethane (Dibromochloromethane)	NA	< 0.140	NA	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	NA	< 0.140	< 0.14	NA	< 0.140	< 0.5

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	16-D 6/20/2022	16-D 6/12/2023 App. IX Well	16-I 6/28/2013	16-I 6/20/2014	16-I 9/4/2014 Resample	16-I 9/4/2014 Resample Duplicate	16-I 6/5/2015	16-I 6/5/2015 Duplicate	16-I 6/21/2016	16-I 6/21/2016 Duplicate	16-I 6/6/2017	16-I 6/6/2017 Duplicate	16-I 6/7/2018 App. IX Well	16-I 6/26/2019	16-I 6/11/2020	16-I 6/14/2021	16-I 6/20/2022	16-I 6/12/2023 App. IX Well	19-SR 6/16/2014 Background
Chloroethane	NA	< 0.192	NA	< 0.76	NA	NA	NA	NA	NA	NA	NA	NA	< 0.76	NA	< 0.192	< 0.192	NA	< 0.192	< 0.76
Chloroform	< 0.111	< 0.111	NA	< 0.6	NA	NA	< 0.60	< 0.60	< 0.60	< 0.60	< 0.6	< 0.6	< 0.6	< 0.60	< 0.111	< 0.111	< 0.111	0.163 J	< 0.6
Chloromethane (Methyl chloride)	NA	< 0.960	NA	< 0.83	NA	NA	NA	NA	NA	NA	NA	NA	< 0.83	NA	< 0.960	< 0.96	NA	< 0.960	< 0.83
cis-1,2-Dichloroethene	< 0.126	< 0.126	NA	NA	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5	< 0.5	4.5	< 0.50	0.444 J	< 0.126	< 0.126	< 0.126	NA
cis-1,3-Dichloropropene	NA	< 0.111	NA	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	NA	< 0.111	< 0.111	NA	< 0.111	< 0.5
Cyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.07	NA	NA	NA	NA
Cyclohexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.40	NA	NA	NA	NA
Dibromomethane (Methylene bromide)	NA	< 0.122	NA	< 0.59	NA	NA	NA	NA	NA	NA	NA	NA	< 0.59	NA	< 0.122	< 0.122	NA	< 0.122	< 0.59
Dichlorodifluoromethane (Freon 12)	NA	< 0.374	NA	< 0.85	NA	NA	NA	NA	NA	NA	NA	NA	< 0.85	NA	< 0.374	< 0.374	NA	< 0.374	< 0.85
Dichloromonofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.130	NA	NA	NA	NA
Dicyclopentadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.253	NA	NA	NA	NA
Ethanol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 42.0	NA	NA	NA	NA
Ethyl acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.59	NA	NA	NA	NA
Ethyl methacrylate	NA	< 1.48	NA	< 0.6	NA	NA	NA	NA	NA	NA	NA	NA	< 0.6	NA	< 1.48	< 1.48	NA	< 1.48	< 0.6
Ethylbenzene	< 0.173	< 0.173	NA	< 0.5	NA	NA	0.68 J	< 0.50	3.6	3.8	1.5	1.5	< 0.5	< 0.50	0.925 J	0.337 J	4.69	5.78	< 0.5
Hexachlorobutadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.337	NA	NA	NA	NA
Hexachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.316	NA	NA	NA	NA
Iodomethane (Methyl iodide)	NA	< 6.00	NA	< 0.68	NA	NA	NA	NA	NA	NA	NA	NA	< 0.9	NA	< 6.00	< 6	NA	< 6.00	< 0.68
Isopropyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14.2 U	NA	NA	NA	NA
Isopropyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.105	NA	NA	NA	NA
Isopropylbenzene (Cumene)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.07	NA	NA	NA	NA
m+p-Xylenes	< 0.43	< 0.430	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.51	1.12 J	16.6	30.1	NA
Methyl acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.29	NA	NA	NA	NA
Methyl isobutyl ketone (4-Methyl-2-pentanone)	NA	< 0.478	NA	< 1.8	NA	NA	NA	NA	NA	NA	NA	NA	< 1.8	NA	< 0.478	< 0.478	NA	< 0.478	< 1.8
Methyl methacrylate	NA	< 1.52	NA	< 5.0	NA	NA	NA	NA	NA	NA	NA	NA	< 5.0	NA	< 1.52	< 1.52 UJ	NA	< 1.52	< 5.0
Methyl tertiary butyl ether (MTBE)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.101	NA	NA	NA	NA
Methylacrylonitrile	NA	< 14.2	NA	< 6.0	NA	NA	NA	NA	NA	NA	NA	NA	< 6.0	NA	< 14.2	< 14.2	NA	< 14.2	< 6.0
Methylcyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.01	NA	NA	NA	NA
Methylene chloride (Dichloromethane)	NA	< 0.430	NA	< 3.0	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	NA	< 0.430	< 0.43	NA	< 0.430	< 3.0
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.76 J	NA	NA	NA	NA
n-Butyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 150	NA	NA	NA	NA
n-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.157	NA	NA	NA	NA
n-Heptane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.373	NA	NA	NA	NA
n-Hexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.749	NA	NA	NA	NA
n-Propylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.564 J	NA	NA	NA	NA
o-Xylene	< 0.174	< 0.174	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.631 J	< 0.174	2.49	3.69	NA
Pentachloroethane	NA	< 2.30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.6	NA	< 2.30	< 2.3	NA	< 2.30	NA
Propionitrile	NA	< 16.2	NA	< 7.0	NA	NA	NA	NA	NA	NA	NA	NA	< 7.0	NA	< 16.2	< 16.2	NA	< 16.2	< 7.0
Propylene (Propene)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.936	NA	NA	NA	NA
sec-Butylbenzene (2-Phenylbutane)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.125	NA	NA	NA	NA
Styrene	NA	< 0.118	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0	NA	< 0.118	< 0.118	NA	0.287 J	< 1.0
tert-Amyl methyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.195	NA	NA	NA	NA
Tert-buty formate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.51	NA	NA	NA	NA
tert-Butyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.06	NA	NA	NA	NA
tert-Butyl ethyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.101	NA	NA	NA	NA
tert-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.127	NA	NA	NA	NA
Tetrachloroethene (PCE)	NA	< 0.300	NA	< 0.58	NA	NA	NA	NA	NA	NA	NA	NA	< 0.58	NA	< 0.300	< 0.3	NA	< 0.300	< 0.58
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.929	NA	NA	NA	NA
Toluene	< 0.278	< 0.278	NA	< 0.7	NA	NA	< 0.70	< 0.70	< 0.70	< 0.70	< 0.7	< 0.7	< 0.7	< 0.41	< 0.278	< 0.278	0.511 J	0.807 J	< 0.7
trans-1,2-Dichloroethene	< 0.149	< 0.149	NA	< 0.5	NA	NA	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.50	< 0.149	< 0.149	< 0.149	< 0.149	< 0.5
trans-1,3-Dichloropropene	NA	< 0.118	NA	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	NA	< 0.118	< 0.118	NA	< 0.118	< 0.5
trans-1,4-Dichlorobutene	NA	< 0.467	NA	< 1.0	NA	NA	NA	NA	NA	NA	NA	NA	< 1.0	NA	< 0.467	< 0.467	NA	< 0.467	< 1.0
Trichloroethene (TCE)	< 0.19	< 0.190	NA	1.2	NA	< 0.62	< 0.50	< 0.50	< 0.50	< 0.50	< 0.5	< 0.5	< 0.5	< 0.50	< 0.190	< 0.19	< 0.19	< 0.190	< 0.5
Trichlorofluoromethane (Freon 11)	NA	< 0.160	NA	< 0.52	NA	NA	NA	NA	NA	NA	NA	NA	< 0.52	NA	< 0.160	< 0.16	NA	< 0.160	< 0.52
Vinyl acetate	NA	< 0.692	NA	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	< 2.0	NA	< 0.692	< 0.692	NA	< 0.692	< 2.0
Vinyl chloride	< 0.234	< 0.234	NA	3.6	3.6	3.0	5.2	5.0	< 0.50	< 0.50	< 0.5	< 0.5	1.4	< 0.50	1.21	< 0.234	0.546 J	0.670 J	< 0.5
Xylenes, Total	< 0.174	< 0.174	< 1.6	< 1.6	NA	NA	< 1.6	< 1.6	3.7 J	3.7 J	5.3 J	5.4 J	< 1.6	< 1.6	4.14	1.12 J	19.1	33.8	< 1.6

Notes:
mg/L = milligrams per liter
pg/L = picograms per liter
ug/L = micrograms per liter
2014 event performed in accordance with previous permit, with Appendix IX sampling at all program wells every 5 years; subsequent events perfomed annually at rotating list of wells per current permit

Data Qualifier Definitions:
B = The analyte was positively identified, the associated numerica value is estimated due to blank contamination
I = Interference present
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
NA = Not Analyzed
R = The sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified
U = The analyte was analyzed for but was not detected at a concentration greater than the reported sample quantitation limit
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample
< = Not detected at or above the associated Method Detection Limit
As described in annual CMERs, the constituents presented represent the established permit list in effect at time of sampling, and varies annually based on additional Appendix IX detections.
DQE flags may vary by lab and based on professional judgement applied by DQE analyst.

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID:	19-SR	19-SR	19-SR	19-SR	19-SR	19-SR	19-SR	19-SR	19-SR	31-DR	31-DR	31-DR	31-DR	31-DR	31-DR	31-DR	31-DR	31-DR	31-DR	31-DR
Sample Date:	6/3/2015	6/8/2016	6/5/2017	6/4/2018	6/10/2019	6/11/2020	6/14/2021	6/20/2022	6/12/2023	6/27/2013	6/20/2014	6/5/2015	6/21/2016	6/6/2017	6/6/2018	6/11/2019	6/11/2020	6/11/2020	6/14/2021	6/20/2022
Sample Type:	Background	Background	Background	Background	Background	Background	Background	Background	Background			App. IX Well					App. IX Well	Duplicate		
1,2-Dibromoethane - SW846 8011, ug/L																				
1,2-Dibromo-3-Chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	< 0.00793	NA	NA	NA	NA	NA	NA	NA	< 0.00748	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	NA	NA	NA	NA	NA	NA	NA	NA	< 0.00568	NA	NA	NA	NA	NA	NA	NA	< 0.00536	NA	NA	NA
Chlorinated Herbicides - SW846 8151, 8151A, 8321, ug/L																				
2,2-Dichloropropionic acid (Dalapon)	NA	NA	NA	NA	NA	< 0.344	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.344	< 0.344	NA	NA
2,4,5-T	NA	NA	NA	< 0.016	NA	< 0.258	< 0.258	NA	< 0.573	NA	< 0.04	< 0.040	NA	NA	NA	NA	< 0.258	< 0.258	< 0.258	NA
2,4,5-TP (Silvex)	< 0.018	< 0.036	< 0.0036	< 0.0073	< 0.0073	< 0.335	< 0.335	< 0.335	< 0.807	NA	< 0.018	< 0.018	< 0.036	< 0.0036	< 0.0073	< 0.0073	< 0.335	< 0.335	< 0.335	< 0.335
2,4-D	NA	NA	NA	< 0.1	NA	< 0.547	< 0.547	NA	< 1.00	NA	< 0.26	< 0.26	NA	NA	NA	NA	< 0.547	< 0.547	< 0.547	NA
2,4-DB	NA	NA	NA	NA	NA	< 0.302	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.302	< 0.302	NA	NA
Dicamba	NA	NA	NA	NA	NA	< 0.245	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.245	< 0.245	NA	NA
Dichlorprop	NA	NA	NA	NA	NA	< 1.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.04	< 1.04	NA	NA
Dinoseb	NA	NA	NA	NA	NA	< 0.250	NA	NA	NA	NA	< 0.16	NA	NA	NA	NA	NA	< 0.250	< 0.250	NA	NA
MCPA (2-Methyl-4-Chlorophenoxyacetic acid)	NA	NA	NA	NA	NA	< 13.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 13.1	< 13.1	NA	NA
MCPP	NA	NA	NA	NA	NA	< 66.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 66.0	< 66.0	NA	NA
Cyanide - EPA 846 9012A, EPA 335.2, 335.4, mg/L																				
Cyanide	NA	NA	NA	< 0.0035	NA	NA	NA	< 0.0012	< 0.0069	NA	< 0.0035	< 0.0035	NA	NA	NA	NA	< 0.0012 UJ	NA	NA	< 0.0012
Dioxins/Furans - SW846 8290, 8290A, pg/L																				
1,2,3,4,6,7,8,9-OCDD (OCDD)	4.8 J	23 J	10 J	25 J	7.5 U	< 7.4	< 23 IJ U	< 3.3	< 7.3	NA	NA	3.3 J	4.6 J	5.7 J	21 J	71 J	30 J	26 IJ U	21 BJ U	< 2.6
1,2,3,4,6,7,8,9-OCDF (OCDF)	0.56 J	14 J	5.0 J	2.3 J	< 1.8	< 7.4	< 3.0	< 1.7	< 13	NA	NA	0.82 J	0.99 J	3.1 J	5.0 J	< 2.8	< 5.5	< 5.9	< 5.6	< 2.2
1,2,3,4,6,7,8-HpCDD	0.94 J	2.4 J	3.3 J	2.8 J	< 0.84	< 3.5	< 4.4	< 1.5	< 5.4	NA	NA	0.38 J	0.77 J	< 0.52	2.1 J	5.0 J	< 3.0	< 3.3	< 3.6	< 1.7
1,2,3,4,6,7,8-HpCDF	0.26 J	4.0 J	2.3 J	0.72 J	< 1.0	< 3.3	< 4.2	< 2	< 4.8	NA	NA	0.27 J	0.33 J	0.86 J	1.8 J	< 1.3	< 2.5	< 3.4	< 2.4	< 1.4
1,2,3,4,7,8,9-HpCDF	NA	NA	3.4 J	3.2 J	< 1.2	< 4.9	< 4.8	< 2.4	< 5.4	NA	NA	< 0.13	NA	0.78 J	12 J	< 1.6	< 3.2	< 4.6	< 4.2	< 3.5
1,2,3,4,7,8-HxCDD	NA	NA	NA	1.1 J	< 1.0	< 4.1	< 4.7	< 1.5	< 2.4	NA	< 0.72	< 0.16	NA	NA	NA	< 1.3	< 2.0	< 1.6	< 2.4	< 1.3
1,2,3,4,7,8-HxCDF	NA	NA	NA	< 0.52	< 1.0	< 1.8	< 2.7	< 0.33	< 1.2	NA	< 0.59	< 0.14	NA	NA	NA	< 1.2	< 0.74	< 0.74	< 2.4	< 0.45
1,2,3,6,7,8-HxCDD	NA	NA	NA	< 0.32	< 0.94	< 4.0	< 4.6	< 1.4	< 2.9	NA	< 0.71	< 0.12	NA	NA	NA	< 1.2	< 1.8	< 1.3	< 3.0	< 1.1
1,2,3,6,7,8-HxCDF	NA	NA	NA	< 0.5	< 0.94	< 1.9	< 2.8	< 0.54	< 2.0	NA	< 0.53	< 0.11	NA	NA	NA	< 1.1	< 0.64	< 0.93	< 2.2	< 0.5
1,2,3,7,8,9-HxCDD	NA	NA	NA	< 0.31	< 0.92	< 3.8	< 4.2	< 1.1	< 4.2	NA	< 0.65	< 0.11	NA	NA	NA	< 1.2	< 2.4	< 1.3	< 2.8	< 1.3
1,2,3,7,8,9-HxCDF	NA	NA	NA	2.2 J	< 1.1	< 2.8	< 4.7	< 0.63	< 1.7	NA	< 0.62	< 0.14	NA	NA	NA	< 1.4	< 1.2	< 0.63	< 3.1	< 0.44
1,2,3,7,8-PeCDD	NA	NA	NA	< 0.46	< 1.6	< 2.9	< 6.2	< 0.61	< 1.5	NA	< 2.2	< 0.23	NA	NA	NA	< 2.0	< 1.1	< 1.7	< 3.1	< 1.5
1,2,3,7,8-PeCDF	NA	NA	NA	0.89 J	< 0.88	< 2.8	< 5.4	< 0.55	< 1.9	NA	< 1.5	< 0.13	NA	NA	NA	< 1.3	< 0.69	< 0.49	< 2.4	< 0.48
2,3,4,6,7,8-HxCDF	NA	NA	NA	< 0.5	< 1.0	< 1.7	< 2.5	< 0.59	< 2.4	NA	< 0.57	< 0.12	NA	NA	NA	< 1.2	< 0.67	< 0.66	< 2.0	< 0.3
2,3,4,7,8-PeCDF	NA	NA	NA	< 0.24	< 0.90	< 1.2	< 4.9	< 0.43	< 1.2	NA	< 1.6	< 0.13	NA	NA	NA	< 1.3	< 0.79	< 0.68	< 2.2	< 0.32
2,3,7,8-TCDD	NA	NA	NA	< 0.37	< 1.2	< 5.0	< 8.4	< 0.95	< 1.5	NA	< 1.1	< 0.17	NA	NA	NA	< 1.5	< 1.8	< 0.87	< 6.7	< 1.3
2,3,7,8-TCDF	NA	NA	NA	< 0.19	< 0.66	< 3.7	< 7.7	< 0.37	< 1.3	NA	< 1.1	< 0.086	NA	NA	NA	< 0.98	< 1.4	< 0.65	< 5.5	< 0.48
TEQ-WHO 2005	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total HpCDD	1.9 J	4.7 J	4.9 J	7.4 J	< 3.0	< 3.5	< 4.4	< 1.5	< 5.4	NA	NA	1.4 J	2.3 J	< 0.52	5.6 J	16 J	< 3.0	7.4 JU	< 3.6	< 1.7
Total HpCDF	0.26 J	5.4 J	5.7 J	4.7 J	< 1.2	< 3.3	< 4.2	< 2	< 4.8	NA	NA	0.27 J	0.33 J	1.6 J	19 J	< 1.6	< 2.5	< 3.4	< 2.4	< 1.4
Total HxCDD	0.21 J	< 1.9	7.7 J	3.8 J	< 1.0	< 3.8	< 4.2	< 1.1	< 2.4	NA	< 0.72	< 0.16	< 1.9	< 2.0	5.3 J	5.2 J	< 1.8	< 1.3	< 2.4	< 1.1
Total HxCDF	< 0.15	1.5 J	9.1 J	2.2 J	< 1.1	< 1.7	< 2.5	< 0.33	< 1.2	NA	< 0.62	< 0.14	< 1.9	4.1 J	15 J	< 1.4	< 0.64	< 0.63	< 2.0	< 0.3
Total PeCDD	NA	NA	NA	< 0.46	< 1.6	< 2.9	< 6.2	< 0.61	< 1.5	NA	< 2.2	< 0.23	NA	NA	NA	< 2.0	< 1.1	< 1.7	< 3.1	< 1.5
Total PeCDF	NA	NA	NA	0.89 J	< 0.90	< 1.2	< 4.9	< 0.43	< 1.2	NA	< 1.6	< 0.13	NA	NA	NA	< 1.3	< 0.69	< 0.49	< 2.2	< 0.32
Total TCDD	0.77 J	2.6 J	1.2 J	2.7 J	< 1.2	< 5.0	< 8.4	< 0.95	< 1.5	NA	< 1.1	0.86 J	< 1.9	0.79 J	2.5 J	< 1.5	< 1.8	< 0.87	< 6.7	< 1.3
Total TCDF	NA	NA	NA	< 0.19	< 0.66	< 3.7	< 7.7	< 0.37	< 1.3	NA	< 1.1	< 0.086	NA	NA	NA	< 0.98	< 1.4	< 0.65	< 5.5	< 0.48
Mercury, Total - SW846 7470, 7470A, mg/L																				
Mercury	< 0.00007	< 0.000070	< 0.00007	< 0.00007	< 0.000070	NA	< 0.00010	< 0.00010	< 0.00010	NA	< 0.000091	< 0.00007	< 0.000070	< 0.00007	< 0.00007	< 0.000070	NA	NA	< 0.00010	< 0.00010
Metals, Total - SW846 6010C, 6020, 6020A, mg/L																				
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0364	NA
Antimony	NA	NA	NA	< 0.0002	NA	NA	< 0.00063	< 0.00063	< 0.00034	NA	< 0.01	< 0.00084	NA	NA	NA	NA	NA	NA	< 0.00063	< 0.00063
Arsenic	0.39	0.39	0.26	0.24	0.24	0.201	0.192 J	0.18	0.16	< 0.004	< 0.004	< 0.00066	< 0.00046	0.00015 J	0.00025	0.00031 J	< 0.0002	0.0002 J	< 0.00020	0.00024 J
Barium	0.24	0.24	0.26	0.29	0.25	0.218	0.223 J	0.17	0.17	NA	0.36	0.45	0.38	0.45	0.42	0.33	0.365	0.378	0.347	0.36
Beryllium	NA	NA	NA	< 0.000068	NA	NA	< 0.00012	< 0.00012	< 0.00021	NA	< 0.001	< 0.00037	NA	NA	NA	NA	NA	NA	NA	< 0.00012
Cadmium	< 0.00059	< 0.00034	< 0.000068	< 0.000068	< 0.00025	< 0.00008	< 0.000080	< 0.000080	< 0.00019	NA	< 0.001	< 0.00059	< 0.00034	< 0.000068	< 0.000068	< 0.00025	< 0.00008	< 0.00008	< 0.000080	< 0.000080
Chromium	< 0.00063	< 0.0011	0.00052	0.0008	0.00071 J	< 0.00062	0.00066 J	< 0.00062	< 0.00063	NA	0.025	< 0.00063	0.0054	< 0.00022	0.0014	0.0043	0.0016	0.0011	< 0.00062	< 0.00062
Cobalt	0.00026 J	< 0.00040	0.00025 J	0.00029 J	0.00027 J	0.00022 J	0.00046 J	0.00016 J	0.00014 J	NA	< 0.003	< 0.00025	< 0.00040	< 0.00008	0.00019 J	0.00053	0.00023 J	0.00013 J	0.000072 J	< 0.000060
Copper	< 0.0019	< 0.0021	< 0.00042	< 0.00042	< 0.0005	< 0.00083	0.00090 J	< 0.00083	< 0.0017	0.0048 J	< 0.002	< 0.0019	< 0.0021	0.00061	< 0.00042	0.00093 J	< 0.00083	< 0.00083	< 0.00083	< 0.00083
Lead	< 0.00017	< 0.00035	< 0.00007	0.00014 J	< 0.00017	< 0.00007	0.00046 J	< 0.000070	< 0.00069	NA	0.0024 J	< 0.00017	< 0.00035	< 0.00007	0.00041	0.0013	0.00056 J	0.0002 J	< 0.000070	< 0.000070
Nickel	< 0.0007	< 0.0018	0.00051	0.00045 J	< 0.00086	< 0.00056	< 0.00056	< 0.00056	< 0.00062	NA	0.016	0.0019 J	0.0032	0.00059	0.00073	0.0014 J	0.00059 J	< 0.00056	< 0.00056	< 0.00056
Selenium	< 0.00033	< 0.00024	0.00035 B	0.00013 J	0.0023 U	< 0.00037	< 0.00037	< 0.00037	< 0.00026	NA	< 0.004	< 0.00033	< 0.00024	0.000054 J	< 0.000048	0.0054 U	< 0.00037	< 0.00037	< 0.00037	< 0.00037
Silver	NA	NA	NA	< 0.000022	NA	NA	< 0.000080	< 0.000080	< 0.00020	NA	< 0.002	< 0.000063	NA	NA	NA	NA	NA	NA	< 0.000080	< 0.000080
Thallium	< 0.000017	< 0.000085	< 0.000017	< 0.000017	< 0.00014	< 0.00008	< 0.000080	< 0.000080	< 0.00011	NA	< 0.004	< 0.000017	< 0.000085	< 0.000017	< 0.000017	< 0.00014	< 0.00008	< 0.00008	< 0.000080	< 0.000080
Tin	NA	NA	NA	< 0.00022	NA	NA	< 0.00043	< 0.00043	0.00093 J	NA	< 0.005	< 0.0024	NA	NA	NA	NA	NA	NA	< 0.00043	< 0.00043
Vanadium	< 0.0022	< 0.0014	0.00048 J	0.00066	< 0.0013	< 0.0023	< 0.0023	< 0.0023	< 0.00023	NA	< 0.003	< 0.0022	< 0.0014	< 0.00028	0.00076	0.0030 J	< 0.0023	< 0.0023	< 0.0023	< 0.0023
Zinc	< 0.014	NA	NA	0.0015 J	NA	< 0.0044	0.0046 J	< 0.0044	< 0.0072	NA	< 0.008	< 0.014	NA	NA	NA	NA	< 0.0044	0.0052 J	< 0.0044	< 0.0044
Organophosphorus Pesticides - SW846 8141, ug/L																				
Basudin, Neocidol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.302	NA	NA	NA
Chlorpyrifos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.320	NA	NA	NA
Coumaphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.410	NA	NA	NA
Dasanit	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.405	NA	NA	NA
Demeton	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Demeton-s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.626	NA	NA	NA
Dibrom	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.594	NA	NA	NA
Dichlorvos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.196	NA	NA	NA
Dimethoate (Cygon)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.327	NA	NA	NA
Disulfoton	NA	NA	NA	NA	NA	NA	NA	NA	< 0.227	NA	NA	NA	NA	NA	NA	NA	< 0.227	NA	NA	NA
EPN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.129	NA	NA	NA
Ethoprophos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.293	NA	NA	NA
Ethyl Parathion	NA	NA	NA	NA	NA	NA	NA	NA	< 0.454	NA	NA	NA	NA	NA	NA	NA	< 0.454	NA	NA	NA
Fenthion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.213	NA	NA	NA
Folex	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.32	NA	NA	NA

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	19-SR 6/3/2015 Background	19-SR 6/8/2016 Background	19-SR 6/5/2017 Background	19-SR 6/4/2018 Background	19-SR 6/10/2019 Background	19-SR 6/11/2020 Background	19-SR 6/14/2021 Background	19-SR 6/20/2022 Background	19-SR 6/12/2023 Background	31-DR 6/27/2013	31-DR 6/20/2014	31-DR 6/5/2015 App. IX Well	31-DR 6/21/2016	31-DR 6/6/2017	31-DR 6/6/2018	31-DR 6/11/2019	31-DR 6/11/2020 App. IX Well	31-DR 6/11/2020 Duplicate	31-DR 6/14/2021	31-DR 6/20/2022
Guthion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.534	NA	NA	NA
Malathion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.354	NA	NA	NA
Methyl parathion	NA	NA	NA	NA	NA	NA	NA	NA	< 0.383	NA	NA	NA	NA	NA	NA	NA	< 0.383	NA	NA	NA
Mevinphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.275	NA	NA	NA
Phorate	NA	NA	NA	NA	NA	NA	NA	NA	< 0.276	NA	NA	NA	NA	NA	NA	NA	< 0.276	NA	NA	NA
Ronnel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.277	NA	NA	NA
Sulfotepp	NA	NA	NA	NA	NA	NA	NA	NA	< 0.181	NA	NA	NA	NA	NA	NA	NA	< 0.181	NA	NA	NA
Sulprofos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachlorvinphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.277	NA	NA	NA
Tetraethyl diphosphate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.11	NA	NA	NA
Tokuthion (Prothiofos)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.241	NA	NA	NA
Trichloronate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.306	NA	NA	NA
Organophosphorus Pesticides - SW846 8270-PEST, ug/L																				
Dimethoate (Cygon)	NA	NA	NA	< 0.27	NA	< 5.05	< 5.05	NA	< 5.05	NA	< 2.9	< 1.0	NA	NA	NA	NA	< 5.15	< 5.05	< 5.05	NA
Disulfoton	NA	NA	NA	< 0.43	NA	NA	NA	NA	NA	NA	< 2.9	< 3.0	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl Parathion	NA	NA	NA	< 0.21	NA	NA	NA	NA	NA	NA	< 2.9	< 3.0	NA	NA	NA	NA	NA	NA	NA	NA
Famphur	NA	NA	NA	< 0.28	NA	< 3.92	< 3.92	NA	< 3.92	NA	< 2.9	< 3.0	NA	NA	NA	NA	< 4.00	< 3.92	< 3.92	NA
Methyl parathion	NA	NA	NA	< 0.2	NA	NA	NA	NA	NA	NA	< 2.9	< 0.91	NA	NA	NA	NA	NA	NA	NA	NA
Phorate	NA	NA	NA	< 0.24	NA	NA	NA	NA	NA	NA	< 2.9	< 0.73	NA	NA	NA	NA	NA	NA	NA	NA
Sulfotepp	NA	NA	NA	< 0.26	NA	< 3.99	< 3.99	NA	< 3.99	NA	< 2.9	< 1.8	NA	NA	NA	NA	< 4.07	< 3.99	< 3.99	NA
Thionazin	NA	NA	NA	< 0.23	NA	< 4.07	< 4.07	NA	< 4.07	NA	< 2.9	< 3.0	NA	NA	NA	NA	< 4.15	< 4.07	< 4.07	NA
Pesticides - SW846 8081, 8081A, 8081B, ug/L																				
4,4'-DDD	NA	NA	NA	< 0.0033	NA	NA	< 0.0177	NA	< 0.0177	NA	< 0.0029	< 0.0030	NA	NA	NA	NA	< 0.0186	NA	< 0.0177 UJ	NA
4,4'-DDE	NA	NA	NA	< 0.0044	NA	NA	< 0.0154	NA	< 0.0154	NA	< 0.0021	< 0.0040	NA	NA	NA	NA	< 0.0162	NA	< 0.0154 UJ	NA
4,4'-DDT	NA	NA	NA	< 0.0043	NA	NA	< 0.0198	NA	< 0.0198	NA	< 0.0037	< 0.0039	NA	NA	NA	NA	< 0.0208	NA	< 0.0198 UJ	NA
Aldrin	NA	NA	NA	< 0.0033	NA	NA	< 0.0198	< 0.0198	< 0.0198	NA	< 0.0029	< 0.004	NA	NA	NA	NA	< 0.0208	NA	< 0.0198	< 0.0198
alpha-BHC	NA	NA	NA	< 0.004	NA	NA	< 0.0172	NA	< 0.0172	NA	< 0.0034	< 0.011	NA	NA	NA	NA	< 0.0181	NA	< 0.0172	NA
alpha-Chlordane	NA	NA	NA	< 0.0046	NA	NA	< 0.0149	NA	NA	NA	NA	< 0.0042	NA	NA	NA	NA	NA	NA	< 0.0149 UJ	NA
beta-BHC	NA	NA	NA	< 0.0033	NA	NA	< 0.0208	NA	< 0.0208	NA	< 0.0029	< 0.037	NA	NA	NA	NA	< 0.0218	NA	< 0.0208	NA
beta-Chlordane	NA	NA	NA	< 0.0035	NA	NA	NA	NA	NA	NA	NA	< 0.0032	NA	NA	NA	NA	NA	NA	< 0.0137 UJ	NA
Chlordane	NA	NA	NA	NA	NA	NA	< 0.0198	NA	< 0.0198	NA	< 0.12	< 0.13	NA	NA	NA	NA	< 0.0208	NA	< 0.0198	NA
Chlordane, technical	NA	NA	NA	< 0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzilate	NA	NA	NA	< 0.043	NA	NA	NA	NA	NA	NA	< 0.037	< 0.25	NA	NA	NA	NA	NA	NA	NA	NA
delta-BHC	NA	NA	NA	< 0.0030	NA	NA	< 0.015	NA	< 0.0150	NA	< 0.002	< 0.0027	NA	NA	NA	NA	< 0.0158	NA	< 0.015	NA
Dieldrin	NA	NA	NA	< 0.0065	NA	NA	< 0.0162	NA	< 0.0162	NA	< 0.0029	< 0.0042	NA	NA	NA	NA	< 0.0170	NA	< 0.0162 UJ	NA
Endosulfan I	NA	NA	NA	< 0.0033	NA	NA	< 0.016	NA	< 0.0160	NA	< 0.0029	< 0.0030	NA	NA	NA	NA	< 0.0168	NA	< 0.016 UJ	NA
Endosulfan II	NA	NA	NA	< 0.0082	NA	NA	< 0.0164	NA	< 0.0164	NA	< 0.007	< 0.0074	NA	NA	NA	NA	< 0.0172	NA	< 0.0164	NA
Endosulfan sulfate	NA	NA	NA	< 0.0023	NA	NA	< 0.0217	NA	< 0.0217	NA	< 0.002	< 0.0021	NA	NA	NA	NA	< 0.0228	NA	< 0.0217 UJ	NA
Endrin	NA	NA	NA	< 0.0033	NA	NA	< 0.0161	NA	< 0.0161	NA	< 0.0029	< 0.0030	NA	NA	NA	NA	< 0.0169	NA	< 0.0161 UJ	NA
Endrin aldehyde	NA	NA	NA	< 0.0031	NA	NA	< 0.0237	NA	< 0.0237	NA	< 0.0027	< 0.0028	NA	NA	NA	NA	< 0.0249	NA	< 0.0237	NA
Endrin ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0230	NA	NA	NA
gamma-BHC (Lindane)	NA	NA	NA	< 0.028	NA	NA	< 0.0209	NA	< 0.0209	NA	< 0.024	< 0.025	NA	NA	NA	NA	< 0.0219	NA	< 0.0209	NA
gamma-Chlordane	NA	NA	NA	NA	NA	NA	< 0.0137	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	NA	NA	NA	< 0.0034	NA	NA	< 0.0148	NA	< 0.0148	NA	< 0.003	< 0.0031	NA	NA	NA	NA	< 0.0155	NA	< 0.0148	NA
Heptachlor Epoxide	NA	NA	NA	< 0.0035	NA	NA	< 0.0183	NA	< 0.0183	NA	< 0.003	< 0.0032	NA	NA	NA	NA	< 0.0192	NA	< 0.0183 UJ	NA
Hexachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0185	NA	NA	NA
Methoxychlor	NA	NA	NA	< 0.0045	NA	NA	< 0.0193	NA	< 0.0193	NA	< 0.0039	< 0.0041	NA	NA	NA	NA	< 0.0203	NA	< 0.0193 UJ	NA
Toxaphene	NA	NA	NA	< 0.44	NA	NA	< 0.168	NA	< 0.168	NA	< 0.29	< 0.40	NA	NA	NA	NA	< 0.176	NA	< 0.168	NA
Phenolics - E420.1, E420.4, SW9065, mg/L																				
Total Recoverable Phenolics	< 0.0045	0.01	0.0087 J	0.0064 J	< 0.09	0.088 U	0.0272 U	< 0.0250	0.011 J	0.0078	NA	0.023	0.01	0.011	0.036	< 0.09	0.094 U	0.068 U	0.0553	0.0322 J
Polychlorinated Biphenyl (PCB) - SW846 8082, 8082A, ug/																				
PCB-1016	NA	NA	NA	< 0.053	NA	NA	NA	NA	< 0.202	NA	< 0.046	< 0.048	NA	NA	NA	NA	< 0.16	NA	NA	NA
PCB-1221	NA	NA	NA	< 0.24	NA	NA	NA	NA	< 0.404	NA	< 0.21	< 0.034	NA	NA	NA	NA	< 0.34	NA	NA	NA
PCB-1232	NA	NA	NA	< 0.45	NA	NA	NA	NA	< 0.202	NA	< 0.095	< 0.41	NA	NA	NA	NA	< 0.47	NA	NA	NA
PCB-1242	NA	NA	NA	< 0.2	NA	NA	NA	NA	< 0.202	NA	< 0.032	< 0.034	NA	NA	NA	NA	< 0.20	NA	NA	NA
PCB-1248	NA	NA	NA	< 0.022	NA	NA	NA	NA	< 0.202	NA	< 0.019	< 0.034	NA	NA	NA	NA	< 0.14	NA	NA	NA
PCB-1254	NA	NA	NA	< 0.34	NA	NA	NA	NA	< 0.202	NA	< 0.054	< 0.034	NA	NA	NA	NA	< 0.16	NA	NA	NA
PCB-1260	NA	NA	NA	< 0.038	NA	NA	NA	NA	< 0.202	NA	< 0.032	< 0.034	NA	NA	NA	NA	< 0.15	NA	NA	NA
PCB-1262	NA	NA	NA	NA	NA	NA	NA	NA	< 0.202	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1268	NA	NA	NA	NA	NA	NA	NA	NA	< 0.303	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs, Total	NA	NA	NA	NA	NA	NA	NA	NA	< 0.404	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semi-Volatile Organic Compounds - SW846 8270C, 8270D																				
1,2,4,5-Tetrachlorobenzene	NA	NA	NA	< 0.57	NA	< 0.0647	< 0.0647	NA	< 0.0647	NA	< 0.5	< 0.52	NA	NA	NA	NA	< 0.0660	< 0.0647	< 0.0647	NA
1,2,4-Trichlorobenzene	NA	NA	NA	< 0.58	NA	< 0.0698	< 0.0698	NA	< 0.0698	NA	< 0.5	< 0.53	NA	NA	NA	NA	< 0.0712	< 0.0698	< 0.0698	NA
1,2-Dichlorobenzene	NA	NA	NA	< 0.63	NA	< 0.0713	< 0.0713	NA	< 0.0713	NA	< 0.54	< 0.57	NA	NA	NA	NA	< 0.0727	< 0.0713	< 0.0713	NA
1,3,5-Trinitrobenzene	NA	NA	NA	< 2.2	NA	< 1.32	< 1.32	NA	< 1.32	NA	< 1.9	< 2.0	NA	NA	NA	NA	< 1.35	< 1.32	< 1.32	NA
1,3-Dichlorobenzene	NA	NA	NA	< 0.52	NA	< 0.132	< 0.132	NA	< 0.132	NA	< 0.45	< 0.47	NA	NA	NA	NA	< 0.135	< 0.132	< 0.132	NA
1,3-Dinitrobenzene	NA	NA	NA	< 1.1	NA	< 0.359	< 0.359	NA	< 0.359	NA	< 0.95	< 1.0	NA	NA	NA	NA	< 0.366	< 0.359	< 0.359	NA
1,4-Dichlorobenzene	NA	NA	NA	< 0.57	NA	< 0.0942	< 0.0942	NA	< 0.0942	NA	< 0.5	< 0.52	NA	NA	NA	NA	< 0.0961	< 0.0942	< 0.0942	NA
1,4-Dioxane (p-Dioxane)	< 1.0	< 1.0	< 0.99	< 1.1	< 0.96	NA	< 0.0447	0.214 U	0.117 J	NA	< 0.95	< 1.0	< 1.0	< 0.99	< 1.1	< 1.2	NA	NA	1.1	1.43
1,4-Naphthoquinone	NA	NA	NA	< 4.4	NA	< 5.56 R	< 5.56 R	NA	< 5.56	NA	< 3.8	< 4.0	NA	NA	NA	NA	< 5.67 R	< 5.56 R	< 5.56 R	NA
1-Methylnaphthalene	< 0.020	< 0.020	< 0.02	< 0.022	< 0.019	< 0.0790	< 0.079	< 0.079	< 0.0790	3.8	7.7 J	< 0.020	0.10 J	0.04 J	19	21 B	7.05	5.95	< 0.079	1.51
1-Naphthylamine	< 4.0	< 4.0	< 4.0	< 4.4	< 3.9	< 0.289	< 0.289	< 0.289	< 0.289	< 2.7	< 3.8	< 4.0	< 4.0	< 4.0	< 4.4	< 5.0	1.24 J	NA J	0.732 J	0.583 J
2,2'-Oxybis(1-chloropropane)	NA	NA	NA	NA	NA	NA	< 0.21	NA	< 0.210	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	NA
2,3,4,6-Tetrachlorophenol	NA	NA	NA	< 0.7	NA	< 0.231	< 0.231	NA	< 0.231	NA	< 0.61	< 0.64	NA	NA	NA	NA	< 0.236	< 0.231	< 0.231	NA
2,4,5-Trichlorophenol	NA	NA	NA	< 4.1	NA	< 0.109	< 0.109	NA	< 0.109	NA	< 3.5	< 3.7	NA	NA	NA	NA	< 0.111	< 0.109	< 0.109	NA
2,4,6-Trichlorophenol	NA	NA	NA	< 3.8	NA	< 0.100	< 0.1	NA	< 0.100	NA	< 3.3	< 1.0	NA	NA	NA	NA	< 0.102	< 0.100	< 0.1	NA
2,4-Dichlorophenol	NA	NA	NA	< 3.3	NA	< 0.102	< 0.102	NA	< 0.102	NA	< 2.9	< 3.0	NA	NA	NA	NA	< 0.104	< 0.102	< 0.102	NA
2,4-Dimethylphenol	< 3.5	< 3.5	< 3.5	< 3.8	< 3.4	< 0.0636	< 0.0636	< 0.0636	< 0.0636	< 3.3	< 3.3	< 3.5	< 3.5	< 3.5	< 3.8	< 4.4	< 0.0649	< 0.0636	< 0.0636	< 0.0636

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID:	19-SR	19-SR	19-SR	19-SR	19-SR	19-SR	19-SR	19-SR	19-SR	31-DR	31-DR	31-DR	31-DR	31-DR	31-DR	31-DR	31-DR	31-DR	31-DR	31-DR
Sample Date:	6/3/2015	6/8/2016	6/5/2017	6/4/2018	6/10/2019	6/11/2020	6/14/2021	6/20/2022	6/12/2023	6/27/2013	6/20/2014	6/5/2015	6/21/2016	6/6/2017	6/6/2018	6/11/2019	6/11/2020	6/11/2020	6/14/2021	6/20/2022
Sample Type:	Background	Background	Background	Background	Background	Background	Background	Background	Background			App. IX Well					App. IX Well	Duplicate		
2,4-Dinitrophenol	NA	NA	NA	< 3.7	NA	< 5.93	< 5.93	NA	< 5.93	NA	< 3.2	< 7.3	NA	NA	NA	NA	< 6.05	< 5.93	< 5.93	NA
2,4-Dinitrotoluene	NA	NA	NA	< 2.1	NA	< 0.0983	< 0.0983	NA	< 0.0983	NA	< 1.8	< 7.3	NA	NA	NA	NA	< 0.100	< 0.0983	< 0.0983	NA
2,6-Dichlorophenol	NA	NA	NA	< 4.4	NA	< 0.102	< 0.102	NA	< 0.102	NA	< 3.8	< 4.0	NA	NA	NA	NA	< 0.104	< 0.102	< 0.102	NA
2,6-Dinitrotoluene	NA	NA	NA	< 2.1	NA	< 0.250	< 0.25	NA	< 0.250	NA	< 1.8	< 3.6	NA	NA	NA	NA	< 0.255	< 0.250	< 0.25	NA
2-Acetylaminofluorene	NA	NA	NA	< 4.4	NA	< 0.253	< 0.253	NA	< 0.253	NA	< 3.8	< 4.0	NA	NA	NA	NA	< 0.258	< 0.253	< 0.253	NA
2-Chloronaphthalene	NA	NA	NA	< 0.57	NA	< 0.0648	< 0.0648	NA	< 0.0648	NA	< 0.5	< 0.52	NA	NA	NA	NA	< 0.0661	< 0.0648	< 0.0648	NA
2-Chlorophenol	NA	NA	NA	< 2.4	NA	< 0.133	< 0.133	NA	< 0.133	NA	< 2.1	< 3.0	NA	NA	NA	NA	< 0.136	< 0.133	< 0.133	NA
2-Methylaniline (o-Toluidine)	< 6.0	< 6.0	< 5.9	< 6.6	< 5.8	< 3.53	< 3.53	< 3.53	< 3.53	< 0.95	< 5.7	7.5 J	< 6.0	< 6.0	< 6.6	7.5 J	6.33 J	5.95 J	< 3.53	< 3.53
2-Methylnaphthalene	< 6.3	< 0.020	< 0.02	< 0.022	< 0.019	< 0.117	< 0.117	< 0.117	< 0.117	0.62	1.2 J	< 6.3	0.046 J	< 0.02	0.68	0.32 U	< 0.119	< 0.117	< 0.117	< 0.117
2-Methylphenol (o-Cresol)	NA	NA	NA	< 2.0	NA	< 0.0929	< 0.0929	NA	< 0.0929	NA	< 1.7	< 1.8	NA	NA	NA	NA	< 0.0948	< 0.0929	< 0.0929	NA
2-Naphthylamine	< 4.0	< 4.0	< 4.0	< 4.4	< 3.9 UJ	< 4.48	< 4.48	< 4.48	< 4.48	< 2.8	< 3.8	< 4.0	< 4.0	< 4.0	< 4.4	< 5.0	< 4.57	< 4.48	< 4.48	< 4.48
2-Nitroaniline	NA	NA	NA	< 2.4	NA	< 0.102	< 0.102	NA	< 0.102	NA	< 2.1	< 2.2	NA	NA	NA	NA	< 0.104	< 0.102	< 0.102	NA
2-Nitrophenol	NA	NA	NA	< 0.71	NA	< 0.117	< 0.117	NA	< 0.117	NA	< 0.62	< 0.65	NA	NA	NA	NA	< 0.119	< 0.117	< 0.117	NA
2-Picoline	NA	NA	NA	< 6.6	NA	< 6.83	< 6.83	NA	< 6.83	NA	< 5.7	< 6.0	NA	NA	NA	NA	< 6.97	< 6.83	< 6.83	NA
3,3'-Dichlorobenzidine	NA	NA	NA	< 2.9	NA	< 0.212	< 0.212	NA	< 0.212	NA	< 2.5	< 1.0	NA	NA	NA	NA	< 0.216	< 0.212	< 0.212	NA
3,3'-Dimethylbenzidine	NA	NA	NA	< 8.8	NA	< 3.39	< 3.39	NA	< 3.39	NA	< 7.6	< 8.0	NA	NA	NA	NA	< 3.46	< 3.39	< 3.39	NA
3+4-Methylphenol (m,p-Cresol)	< 1.0	< 1.0	< 1.0	< 1.1	< 1.0	< 0.168	< 0.168	< 0.168	< 0.168	< 0.37	NA	< 1.0	< 1.0	< 1.0	< 1.1	< 1.3	< 0.171	< 0.168	< 0.168	< 0.168
3-Methylchloranthrene	NA	NA	NA	< 2.4	NA	< 0.164	< 0.164	NA	< 0.164	NA	< 2.1	< 2.2	NA	NA	NA	NA	< 0.167	< 0.164	< 0.164	NA
3-Methylphenol (m-Cresol)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	NA	NA	NA	< 2.0	NA	< 0.0869	< 0.0869	NA	< 0.0869	NA	< 1.7	< 1.8	NA	NA	NA	NA	< 0.0886	< 0.0869	< 0.0869	NA
4,6-Dinitro-2-Methylphenol	NA	NA	NA	< 2.2	NA	< 1.12	< 1.12	NA	< 1.12	NA	< 1.9	< 2.0	NA	NA	NA	NA	< 1.14	< 1.12	< 1.12	NA
4-Aminobiphenyl	NA	NA	NA	< 4.6	NA	< 0.461	< 0.461	NA	< 0.461	NA	< 4.0	< 4.2	NA	NA	NA	NA	< 0.470	< 0.461	< 0.461	NA
4-Bromophenyl phenyl ether	NA	NA	NA	< 0.35	NA	< 0.0877	< 0.0877	NA	< 0.0877	NA	< 0.3	< 0.32	NA	NA	NA	NA	< 0.0895	< 0.0877	< 0.0877	NA
4-Chloro-3-Methylphenol	NA	NA	NA	< 4.2	NA	< 0.131	< 0.131	NA	< 0.131	NA	< 3.6	< 3.8	NA	NA	NA	NA	< 0.134	< 0.131	< 0.131	NA
4-Chloroaniline	NA	NA	NA	< 3.7	NA	< 0.234	< 0.234	NA	< 0.234	NA	< 3.2	< 3.4	NA	NA	NA	NA	< 0.239	< 0.234	< 0.234	NA
4-Chlorophenyl phenyl ether	NA	NA	NA	< 2.2	NA	< 0.0926	< 0.0926	NA	< 0.0926	NA	< 1.9	< 2.0	NA	NA	NA	NA	< 0.0945	< 0.0926	< 0.0926	NA
4-Dimethylaminoazobenzene	NA	NA	NA	< 2.5	NA	< 3.69	< 3.69	NA	< 3.69	NA	< 2.2	< 2.3	NA	NA	NA	NA	< 3.76	< 3.69	< 3.69	NA
4-Methylphenol (p-Cresol)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	NA	NA	NA	< 2.7	NA	< 0.0910	< 0.091	NA	< 0.0910	NA	< 2.4	< 2.5	NA	NA	NA	NA	< 0.0928	< 0.0910	< 0.091	NA
4-Nitrophenol	NA	NA	NA	< 2.3	NA	< 0.143	< 0.143	NA	< 0.143	NA	< 2.0	< 2.1	NA	NA	NA	NA	< 0.146	< 0.143	< 0.143	NA
4-Nitroquinoline-N-Oxide	NA	NA	NA	< 2.2	NA	< 2.03	< 2.03	NA	< 2.03	NA	< 1.9	< 2.0	NA	NA	NA	NA	< 2.07	< 2.03	< 2.03	NA
5-Nitro-O-Toluidine	NA	NA	NA	< 3.3	NA	< 1.99	< 1.99	NA	< 1.99	NA	< 2.9	< 3.0	NA	NA	NA	NA	< 2.03	< 1.99	< 1.99	NA
7,12-Dimethylbenz(a)anthracene	NA	NA	NA	< 4.1	NA	< 1.71	< 1.71	NA	< 1.71	NA	< 3.5	< 3.7	NA	NA	NA	NA	< 1.74	< 1.71	< 1.71	NA
Acenaphthene	0.59	1.0	0.54	0.66	0.47	0.520 J	0.488 J	0.575 J	0.427 J	17	29 J	4.5	1.5	31	23	13.3	12.2	4.29	4.64	
Acenaphthylene	< 0.020	< 0.020	< 0.02	< 0.022	< 0.019	< 0.0921	< 0.0921	< 0.0921	< 0.0921	0.13 J	< 0.53	< 0.020	0.075 J	< 0.02	< 0.022	< 0.025	< 0.0939	< 0.0921	< 0.0921	< 0.0921
Acetophenone	NA	NA	NA	< 0.68	NA	< 0.208	< 0.208	NA	< 0.208	NA	< 0.59	< 0.62	NA	NA	NA	NA	< 0.212	< 0.208	< 0.208	NA
alpha, alpha-Dimethylphenethylamine	NA	NA	NA	< 11	NA	< 3.13 R	< 3.13 R	NA	< 3.13	NA	< 9.5	< 10	NA	NA	NA	NA	< 3.19 R	< 3.13 R	< 3.13 R	NA
Aniline	NA	NA	NA	< 4.2	NA	< 1.65	< 1.65	NA	< 1.65	NA	< 3.6	< 3.8	NA	NA	NA	NA	< 1.68	< 1.65	< 1.65	NA
Anthracene	0.17 J	0.11 J	0.12 J	0.16 J	0.12 J	< 0.0804	< 0.0804	< 0.0804	< 0.0804	0.091 J	< 0.4	0.059 J	0.044 J	0.093 J	< 0.022	< 0.025	< 0.0820	< 0.0804	< 0.0804	< 0.0804
Aramite	NA	NA	NA	< 2.2	NA	< 16.7	< 16.7	NA	< 16.7	NA	< 1.9	< 2.0	NA	NA	NA	NA	< 17.0	< 16.7	< 16.7	NA
Benzo(a)anthracene	< 0.092	< 0.040	< 0.04	< 0.044	< 0.039	< 0.199	< 0.199	< 0.199	< 0.199	< 0.038	< 0.32	< 0.092	< 0.040	< 0.04	< 0.044	< 0.050	< 0.203	< 0.199	< 0.199	< 0.199
Benzo(a)pyrene	< 0.20	< 0.040	< 0.04	< 0.044	< 0.039	< 0.0381	< 0.0381	< 0.0381	< 0.0381	< 0.038	< 0.41	< 0.20	< 0.040	< 0.04	< 0.044	< 0.050	< 0.0389	< 0.0381	< 0.0381	< 0.0381
Benzo(b)fluoranthene	< 0.092	< 0.040	< 0.04	< 0.044	< 0.039	< 0.130	< 0.13	< 0.13	< 0.130	< 0.038	< 0.36	< 0.092	< 0.040	< 0.04	< 0.044	< 0.050	< 0.133	< 0.130	< 0.13	< 0.13
Benzo(g,h,i)perylene	< 0.040	< 0.040	< 0.04	< 0.044	< 0.039	< 0.121	< 0.121	< 0.121	< 0.121	< 0.038	< 1.0	< 0.040	< 0.040	< 0.04	< 0.044	< 0.050	< 0.123	< 0.121	< 0.121	< 0.121
Benzo(k)fluoranthene	< 0.92	< 0.040	< 0.04	< 0.044	< 0.039	< 0.120	< 0.12	< 0.12	< 0.120	< 0.038	< 0.51	< 0.92	< 0.040	< 0.04	< 0.044	< 0.050	< 0.122	< 0.120	< 0.12	< 0.12
Benzyl Alcohol	NA	NA	NA	< 2.2	NA	< 0.563	< 0.563	NA	< 0.563	NA	< 1.9	< 2.0	NA	NA	NA	NA	< 0.574	< 0.563	< 0.563	NA
bis(2-Chloroethoxy)methane	NA	NA	NA	< 0.76	NA	< 0.116	< 0.116	NA	< 0.116	NA	< 0.66	< 0.69	NA	NA	NA	NA	< 0.118	< 0.116	< 0.116	NA
bis(2-Chloroethyl)ether	NA	NA	NA	< 0.81	NA	< 0.137	< 0.137	NA	< 0.137	NA	< 0.7	< 0.74	NA	NA	NA	NA	< 0.140	< 0.137	< 0.137	NA
bis(2-Chloroisopropyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	< 6.0	2.7 J	9.6 J	9.0 J	< 4.8	< 0.895	< 0.895	< 0.895	< 0.895	< 1.9	< 2.2	< 6.0	< 2.3	2.9 J	< 2.5	15	< 0.913	< 0.895	< 0.895	< 0.895
Butyl benzyl phthalate	NA	NA	NA	< 0.76	NA	< 0.765	< 0.765	NA	< 0.765	NA	< 0.66	< 0.69	NA	NA	NA	NA	< 0.780	< 0.765	< 0.765	NA
Chlorobenzilate	NA	NA	NA	NA	NA	NA	< 3.84	NA	< 3.84	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.84	NA
Chrysene	< 9.2	< 0.040	< 0.04	< 0.044	< 0.039	< 0.130	< 0.13	< 0.13	< 0.130	< 0.038	< 0.47	< 9.2	< 0.040	< 0.04	< 0.044	< 0.050	< 0.133	< 0.130	< 0.13	< 0.13
Diallate	NA	NA	NA	< 3.3	NA	< 0.524	< 0.524	NA	< 0.524	NA	< 2.9	< 1.1	NA	NA	NA	NA	< 0.534	< 0.524	< 0.524	NA
Dibenzo(a,h)anthracene	NA	NA	NA	< 1.3	NA	< 0.0644	< 0.0644	NA	< 0.0644	NA	< 1.1	< 0.050	NA	NA	NA	NA	< 0.0657	< 0.0644	< 0.0644	NA
Dibenzofuran	< 1.2	< 0.52	< 0.51	< 0.57	< 0.50	< 0.0970	< 0.097	< 0.097	< 0.0970	< 0.16	< 0.5	< 1.2	< 0.52	< 0.52	< 0.57	< 0.65	< 0.0989	< 0.0970	< 0.097	< 0.097
Diethyl phthalate	NA	NA	NA	< 0.77	NA	< 0.287	< 0.287	NA	< 0.287	NA	< 0.67	< 0.70	NA	NA	NA	NA	< 0.293	< 0.287	< 0.287	NA
Dimethyl phthalate	NA	NA	NA	< 0.66	NA	< 0.260	< 0.26	NA	< 0.260	NA	< 0.57	< 0.60	NA	NA	NA	NA	< 0.265	< 0.260	< 0.26	NA
Di-n-butyl phthalate	NA	NA	NA	< 3.0	NA	< 0.453	< 0.453	NA	< 0.453	NA	NA	< 2.7	NA	NA	NA	NA	< 0.462	< 0.453	< 0.453	NA
Di-n-octyl phthalate	< 0.44	< 0.44	< 0.43	< 0.48	< 0.42	< 0.932	< 0.932	< 0.932	< 0.932	< 0.16	< 0.42	< 0.44	< 0.44	< 0.44	< 0.48	< 0.55	< 0.951	< 0.932	< 0.932	< 0.932
Dinoseb	NA	NA	NA	< 3.3	NA	< 8.01	< 8.01	NA	< 8.01	NA	NA	< 3.0	NA	NA	NA	NA	< 8.17	< 8.01	< 8.01	NA
Diphenylamine	NA	NA	NA	< 3.3	NA	< 2.37	< 2.37	NA	< 2.37	NA	< 2.9	< 3.0	NA	NA	NA	NA	< 2.42	< 2.37	< 2.37	NA
Ethyl methanesulfonate	NA	NA	NA	< 3.3	NA	< 0.326	< 0.326	NA	< 0.326	NA	< 2.9	< 3.0	NA	NA	NA	NA	< 0.333	< 0.326	< 0.326	NA
Fluoranthene	< 0.020	0.035 J	< 0.02	< 0.022	< 0.019	< 0.102	< 0.102	< 0.102	< 0.102	< 0.019	< 0.73	0.021 J	< 0.020	0.17 J	< 0.022	< 0.025	< 0.104	< 0.102	< 0.102	< 0.102
Fluorene	< 0.021	< 0.021	0.047 J	< 0.023	< 0.020	< 0.0844	< 0.0844	< 0.0844	< 0.0844	0.098 J	< 0.53	0.17 J	0.050 J	0.15 J	< 0.023	< 0.026	< 0.0861	< 0.0844	< 0.0844	< 0.0844
Hexachlorobenzene	NA	NA	NA	< 0.27	NA	< 0.0755	< 0.0755	NA	< 0.0755	NA	< 0.24	< 1.0	NA	NA	NA	NA	< 0.0770	< 0.0755	< 0.0755	NA
Hexachlorobutadiene	NA	NA	NA	< 3.9	NA	< 0.0968	< 0.0968	NA	< 0.0968	NA	< 3.4	< 1.0	NA	NA	NA	NA	< 0.0987	< 0.0968	< 0.0968	NA
Hexachlorocyclopentadiene	NA	NA	NA	< 2.9	NA	< 0.0598	< 0.0598	NA	< 0.0598	NA	< 2.5	< 2.6	NA	NA	NA	NA	< 0.0610	< 0.0598	< 0.0598	NA
Hexachloroethane	< 4.8	< 4.2	< 4.1	< 4.6	< 4.0	< 0.127	< 0.127	< 0.127	< 0.127	< 4.0	< 4.0	< 4.8	< 4.2	< 4.2	< 4.6	< 5.2	< 0.130	< 0.127	< 0.127	< 0.127
Hexachlorophene	NA	NA	NA	< 110	NA	< 1.44	< 1.44	NA	< 1.44	NA	< 95	< 100	NA	NA	NA	NA	< 1.47	< 1.44	< 1.44	NA
Hexachloropropene	NA	NA	NA	< 2.2	NA	< 0.149	< 0.149	NA	< 0.149	NA	< 1.9	< 2.0	NA	NA	NA	NA	< 0.152	< 0.149	< 0.149	NA
Indeno(1,2,3-cd)pyrene	< 0.092	< 0.040	< 0.04	< 0.044	< 0.039	< 0.279	< 0.279	< 0.279	< 0.279	< 0.038	< 0.97	< 0.092	< 0.040	< 0.04	< 0.044	< 0.050	< 0.285	< 0.279	< 0.279	< 0.279
Isodrin	NA	NA	NA	< 3.3	NA	< 4.11	< 4.11	NA	< 4.11	NA	< 2.9	< 3.0	NA	NA	NA	NA	< 4.19	< 4.11	< 4.11	NA
Isophorone	NA	NA	NA	< 0.63	NA	< 0.143	< 0.143	NA	< 0.143	NA	< 0.54	< 0.57	NA	NA	NA	NA	< 0.146	< 0.143	< 0.143	NA
Isosafrole	NA	NA	NA	< 3.3	NA	< 3.88	< 3.88	NA	< 3.88	NA	< 2.9	< 3.0	NA	NA	NA	NA	< 3.96	< 3.88	< 3.88	NA
Kepone	NA	NA	NA	< 0.22	NA	< 2.66	< 2.66	NA	< 2.66	NA	< 0.19	< 0.20	NA	NA	NA	NA	< 2.71	< 2.66	< 2.66	NA
Methapyrilene	NA	NA	NA	< 8.8	NA	< 10.0	< 10 R	NA	< 10.0	NA	< 7.6	< 8.0	NA	NA	NA	NA	< 10.2	< 10.0	< 10 R	NA
Methyl methanesulfonate	NA	NA	NA	< 3.3	NA	< 3.40	< 3.4	NA	< 3.40	NA	< 2.9	< 3.0	NA	NA	NA	NA	< 3.47	< 3.40	< 3.4	NA
Naphthalene	< 0.62	< 0.020	< 0.02	< 0.022	< 0.019	< 0.159	< 0.159	< 0.159	< 0.159	0.43	0.61 J	< 0.62	0.20	0.092 J	0.25	0.076 U	< 0.162	< 0.159	< 0.159	< 0.159

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID:	19-SR	19-SR	19-SR	19-SR	19-SR	19-SR	19-SR	19-SR	19-SR	31-DR	31-DR	31-DR	31-DR	31-DR	31-DR	31-DR	31-DR	31-DR	31-DR	31-DR
Sample Date:	6/3/2015	6/8/2016	6/5/2017	6/4/2018	6/10/2019	6/11/2020	6/14/2021	6/20/2022	6/12/2023	6/27/2013	6/20/2014	6/5/2015	6/21/2016	6/6/2017	6/6/2018	6/11/2019	6/11/2020	6/11/2020	6/14/2021	6/20/2022
Sample Type:	Background	Background	Background	Background	Background	Background	Background	Background	Background			App. IX Well					App. IX Well	Duplicate		
Nitrobenzene	NA	NA	NA	< 0.6	NA	< 0.297	< 0.297	NA	< 0.297	NA	< 0.52	< 0.55	NA	NA	NA	NA	< 0.303	< 0.297	< 0.297	NA
N-Nitrosodiethylamine	NA	NA	NA	< 5.3	NA	< 3.57	< 3.57	NA	< 3.57	NA	< 4.6	< 4.8	NA	NA	NA	NA	< 3.64	< 3.57	< 3.57	NA
N-Nitrosodimethylamine	NA	NA	NA	< 3.8	NA	< 0.998	< 0.998	NA	< 0.998	NA	< 3.3	< 1.0	NA	NA	NA	NA	< 1.02	< 0.998	< 0.998	NA
N-Nitrosodi-n-butylamine	NA	NA	NA	< 4.7	NA	< 3.91	< 3.91	NA	< 3.91	NA	< 4.1	< 4.3	NA	NA	NA	NA	< 3.99	< 3.91	< 3.91	NA
N-Nitrosodi-n-propylamine	NA	NA	NA	< 3.6	NA	< 0.261	< 0.261	NA	< 0.261	NA	< 3.1	< 1.0	NA	NA	NA	NA	< 0.266	< 0.261	< 0.261	NA
N-Nitrosodiphenylamine	< 1.0	< 0.47	< 0.46	< 0.52	< 0.45	< 2.37	< 2.37	< 2.37	< 2.37	< 0.17	< 0.45	< 0.47	< 0.47	< 0.47	< 0.52	< 0.58	< 2.42	< 2.37	< 2.37	< 2.37
N-Nitrosomethylethylamine	NA	NA	NA	< 3.3	NA	< 3.25	< 3.25	NA	< 3.25	NA	< 2.9	< 3.0	NA	NA	NA	NA	< 3.32	< 3.25	< 3.25	NA
N-Nitrosomorpholine	NA	NA	NA	< 4.4	NA	< 3.25	< 3.25	NA	< 3.25	NA	< 3.8	< 4.0	NA	NA	NA	NA	< 3.32	< 3.25	< 3.25	NA
N-Nitrosopiperidine	NA	NA	NA	< 4.4	NA	< 3.72	< 3.72	NA	< 3.72	NA	< 3.8	< 4.0	NA	NA	NA	NA	< 3.79	< 3.72	< 3.72	NA
N-Nitrosopyrrolidine	NA	NA	NA	< 5.5	NA	< 3.39	< 3.39	NA	< 3.39	NA	< 4.8	< 5.0	NA	NA	NA	NA	< 3.46	< 3.39	< 3.39	NA
O,O,O-Triethyl Phosphorothioate	NA	NA	NA	< 4.4	NA	NA	< 2.93	NA	< 2.93	NA	< 3.8	< 4.0	NA	NA	NA	NA	NA	NA	< 2.93	NA
Pentachlorobenzene	NA	NA	NA	< 2.2	NA	< 4.15	< 4.15	NA	< 4.15	NA	< 1.9	< 2.9	NA	NA	NA	NA	< 4.23	< 4.15	< 4.15	NA
Pentachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachloronitrobenzene	NA	NA	NA	< 3.3	NA	< 4.15	< 4.15	NA	< 4.15	NA	< 2.9	< 3.0	NA	NA	NA	NA	< 4.23	< 4.15	< 4.15	NA
Pentachlorophenol	< 1.8	< 1.8	< 1.8	< 2.0	< 1.7	< 0.313	< 0.313	< 0.313	< 0.313	< 1.3	< 1.7	< 1.8	< 1.8	< 1.8	< 2.0	< 2.3	< 0.319	< 0.313	< 0.313	< 0.313
Phenacetin	NA	NA	NA	< 3.3	NA	< 4.66	< 4.66	NA	< 4.66	NA	< 2.9	< 3.0	NA	NA	NA	NA	< 4.75	< 4.66	< 4.66	NA
Phenanthrene	< 0.020	0.037 J	< 0.02	< 0.022	< 0.019	< 0.112	< 0.112	< 0.112	< 0.112	0.16 J	< 0.39	0.052 J	0.025 J	0.83	0.61	0.31	0.268 J	0.212 J	< 0.112	< 0.112
Phenol	< 2.6	< 2.6	< 2.6	< 2.9	< 2.5	< 4.33	< 4.33	< 4.33	< 4.33	< 2.5	< 2.5	< 2.6	< 2.6	< 2.6	< 2.9	< 3.2	< 4.42	< 4.33	< 4.33	< 4.33
P-Phenylenediamine	NA	NA	NA	< 1.1	NA	< 387 R	< 387 R	NA	< 387	NA	< 0.95	< 1.0	NA	NA	NA	NA	< 395 R	< 387 R	< 387 R	NA
Pronamide (Kerb)	NA	NA	NA	< 3.3	NA	< 4.21	< 4.21	NA	< 4.21	NA	< 2.9	< 3.0	NA	NA	NA	NA	< 4.29	< 4.21	< 4.21	NA
Pyrene	< 0.020	0.025 J	< 0.02	< 0.022	< 0.019	< 0.107	< 0.107	< 0.107	< 0.107	< 0.019	< 1.0	0.022 J	< 0.020	0.11 J	< 0.022	< 0.025	< 0.109	< 0.107	< 0.107	< 0.107
Pyridine	NA	NA	NA	< 3.5	NA	< 0.627	< 0.627	NA	< 0.627	NA	< 3.0	< 3.2	NA	NA	NA	NA	< 0.640	< 0.627	< 0.627	NA
Safrole	NA	NA	NA	< 4.4	NA	< 3.68	< 3.68	NA	< 3.68	NA	< 3.8	< 4.0	NA	NA	NA	NA	< 3.75	< 3.68	< 3.68	NA
Sulfide - EPA846 376.1, SM4500-S2-D, mg/L																				
Sulfide	0.099 J	< 0.036	0.18	0.09 J	0.095 J	0.017 J	< 0.011	< 0.0040	< 0.012	NA	< 0.036	0.038 J	< 0.036	< 0.057	< 0.057	0.078 J	< 0.0062	< 0.0062	< 0.011	< 0.0040
Volatile Organic Compounds - SW846 8260B, 8260C, ug/L																				
1,1,1,2-Tetrachloroethane	NA	NA	NA	< 0.52	NA	< 0.147	< 0.147	NA	< 0.147	NA	< 0.52	< 0.52	NA	NA	NA	NA	< 0.147	< 0.147	< 0.147	NA
1,1,1-Trichloroethane	NA	NA	NA	< 0.5	NA	< 0.149	< 0.149	NA	< 0.149	NA	< 0.5	< 0.50	NA	NA	NA	NA	< 0.149	< 0.149	< 0.149	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA	< 0.5	NA	< 0.133	< 0.133	NA	< 0.133	NA	< 0.5	< 0.50	NA	NA	NA	NA	< 0.133	< 0.133	< 0.133	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NA	NA	NA	NA	NA	< 0.180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.180	< 0.180	NA	NA
1,1,2-Trichloroethane	NA	NA	NA	< 0.5	NA	< 0.158	< 0.158	NA	< 0.158	NA	< 0.5	< 0.50	NA	NA	NA	NA	< 0.158	< 0.158	< 0.158	NA
1,1-Dichloroethane	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.100	< 0.1	< 0.1	< 0.100	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.100	0.114 J	0.635 J	0.462 J
1,1-Dichloroethene	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.188	< 0.188	< 0.188	< 0.188	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.188	< 0.188	< 0.188	< 0.188
1,1-Dichloropropene	NA	NA	NA	NA	NA	< 0.142	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.142	< 0.142	NA	NA
1,2,3-Trichlorobenzene	NA	NA	NA	NA	NA	< 0.230	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.230	< 0.230	NA	NA
1,2,3-Trichloropropane	NA	NA	NA	< 0.84	NA	< 0.237	< 0.237	NA	< 0.237	NA	< 0.84	< 0.84	NA	NA	NA	NA	< 0.237	< 0.237	< 0.237	NA
1,2,3-Trimethylbenzene	NA	NA	NA	NA	NA	< 0.104	< 0.104	NA	0.159 J	NA	NA	NA	NA	NA	NA	NA	< 0.104	0.171 J	0.298 J	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	< 0.481	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.481	< 0.481	NA	NA
1,2,4-Trimethylbenzene	NA	NA	NA	NA	NA	< 0.322	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.322	< 0.322	NA	NA
1,2-Dibromo-3-Chloropropane	NA	NA	NA	< 1.5	NA	< 0.276	< 0.276	NA	NA	NA	< 1.5	< 1.5	NA	NA	NA	NA	< 0.276	< 0.276	< 0.276	NA
1,2-Dibromoethane (Ethylene dibromide)	NA	NA	NA	< 0.5	NA	< 0.126	< 0.126	NA	NA	NA	< 0.5	< 0.50	NA	NA	NA	NA	< 0.126	< 0.126	< 0.126	NA
1,2-Dichlorobenzene	NA	NA	NA	< 0.5	NA	< 0.107	NA	NA	< 0.107	NA	NA	< 0.50	NA	NA	NA	NA	< 0.107	< 0.107	NA	NA
1,2-Dichloroethane	NA	NA	NA	< 0.5	NA	< 0.0819	< 0.0819	NA	< 0.0819	NA	< 0.5	< 0.50	NA	NA	NA	NA	< 0.0819	< 0.0819	< 0.0819	NA
1,2-Dichloropropane	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.149	< 0.149	< 0.149	< 0.149	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.149	< 0.149	< 0.149	< 0.149
1,3,5-Trimethylbenzene	NA	NA	NA	NA	NA	< 0.104	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.104	< 0.104	NA	NA
1,3-Butadiene	NA	NA	NA	NA	NA	< 0.299	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.299	< 0.299	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	< 0.110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.110	< 0.110	NA	NA
1,3-Dichloropropane	NA	NA	NA	NA	NA	< 0.110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.110	< 0.110	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	< 0.120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.120	< 0.120	NA	NA
1,4-Dioxane (p-Dioxane)	NA	NA	NA	NA	NA	< 36.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 36.0	< 36.0	NA	NA
1-Methylnaphthalene	NA	NA	NA	NA	NA	< 7.30 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7.30 UJ	< 7.30 UJ	NA	NA
2,2,4-Trimethylpentane	NA	NA	NA	NA	NA	< 0.391	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.391	< 0.391	NA	NA
2,2-Dichloropropane	NA	NA	NA	NA	NA	< 0.161	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.161	< 0.161	NA	NA
2-Butanone (Methyl ethyl ketone)	NA	NA	NA	< 2.6	NA	< 1.19	< 1.19	NA	< 1.19	NA	< 2.6	< 2.6	NA	NA	NA	NA	< 1.19	< 1.19	< 1.19	NA
2-Chloro-1,3-Butadiene	NA	NA	NA	< 0.7	NA	< 1.45	< 1.45	NA	< 1.45	NA	< 0.7	< 0.70	NA	NA	NA	NA	< 1.45	< 1.45	< 1.45	NA
2-Chloroethyl vinyl ether	NA	NA	NA	NA	NA	< 0.575	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.575	< 0.575	NA	NA
2-Chlorotoluene	NA	NA	NA	NA	NA	< 0.106	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.106	< 0.106	NA	NA
2-Hexanone	NA	NA	NA	< 3.1	NA	< 0.787	< 0.787	NA	< 0.787	NA	< 3.1	< 3.1	NA	NA	NA	NA	< 0.787	< 0.787	< 0.787	NA
2-Methyl-1-Propanol (isobutyl alcohol)	NA	NA	NA	< 10	NA	< 42.1	< 42.1	NA	< 42.1	NA	< 8.5	< 10	NA	NA	NA	NA	< 42.1	< 42.1	< 42.1	NA
2-Methyl-2-Butanol	NA	NA	NA	NA	NA	< 4.90	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.90	< 4.90	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	< 7.18 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	15.3 J	8.85 U	NA	NA
2-Nitropropane	NA	NA	NA	NA	NA	< 1.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.75	< 1.75	NA	NA
4-Chlorotoluene	NA	NA	NA	NA	NA	< 0.114	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.114	< 0.114	NA	NA
4-Isopropyltoluene (Cymene)	NA	NA	NA	NA	NA	< 0.120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.120	< 0.120	NA	NA
Acetone	< 10	< 10	< 10	< 10	< 10	< 11.3	< 11.3	< 11.3	< 11.3	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 11.3	< 11.3	< 11.3	< 11.3
Acetonitrile	NA	NA	NA	< 12	NA	< 24.0	< 24	NA	< 24.0	NA	< 12	< 12	NA	NA	NA	NA	< 24.0	< 24.0	< 24	NA
Acrolein	NA	NA	NA	< 10	NA	< 2.54	< 2.54	NA	< 2.54	NA	< 10	< 10	NA	NA	NA	NA	< 2.54	< 2.54	< 2.54	NA
Acrylonitrile	NA	NA	NA	< 2.8	NA	< 0.671	< 0.671	NA	< 0.671	NA	< 2.8	< 2.8	NA	NA	NA	NA	< 0.671	< 0.671	< 0.671	NA
Allyl chloride (3-Chloropropene)	NA	NA	NA	< 1.0	NA	< 0.500	< 0.5	NA	< 0.500	NA	< 1.0	< 1.0	NA	NA	NA	NA	< 0.500	< 0.500	< 0.5	NA
Benzene	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.0941	< 0.0941	< 0.0941	< 0.0941	< 0.34	< 0.34	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.0941	< 0.0941	< 0.0941	< 0.0941
Bromobenzene	NA	NA	NA	NA	NA	< 0.118	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.118	< 0.118	NA	NA
Bromodichloromethane (Dichlorobromomethane)	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.136	< 0.136	< 0.136	< 0.136	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.136	< 0.136	< 0.136	< 0.136
Bromoform (Tribromomethane)	NA	NA	NA	< 0.71	NA	< 0.129	< 0.129	NA	< 0.129	NA	< 0.71	< 0.71	NA	NA	NA	NA	< 0.129	< 0.129	< 0.129	NA
Bromomethane (Methyl bromide)	NA	NA	NA	< 0.98	NA	< 0.605	< 0.605	NA	< 0.605	NA	< 0.98	< 0.98	NA	NA	NA	NA	< 0.605	< 0.605	< 0.605	NA
Carbon disulfide	< 0.50	< 0.50	< 0.5	0.67 J	< 0.50	< 0.0962	< 0.0962	< 0.0962	< 0.0962	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.0962	< 0.0962	< 0.0962	< 0.0962
Carbon tetrachloride	NA	NA	NA	< 0.5	NA	< 0.128	< 0.128	NA	< 0.128	NA	< 0.5	< 0.50	NA	NA	NA	NA	< 0.128	< 0.128	< 0.128	NA
Chlorobenzene	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.116	< 0.116	< 0.116	< 0.116	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.116	< 0.116	< 0.116	< 0.116
Chlorobromomethane (Bromochloromethane)	NA	NA	NA	NA	NA	< 0.128	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.128	< 0.128	NA	NA
Chlorodibromomethane (Dibromochloromethane)	NA	NA	NA	< 0.5	NA	< 0.140	< 0.14	NA	< 0.140	NA	< 0.5	< 0.50	NA	NA	NA	NA	< 0.140	< 0.140	< 0.14	NA

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID:	19-SR	19-SR	19-SR	19-SR	19-SR	19-SR	19-SR	19-SR	19-SR	31-DR	31-DR	31-DR	31-DR	31-DR	31-DR	31-DR	31-DR	31-DR	31-DR	31-DR
Sample Date:	6/3/2015	6/8/2016	6/5/2017	6/4/2018	6/10/2019	6/11/2020	6/14/2021	6/20/2022	6/12/2023	6/27/2013	6/20/2014	6/5/2015	6/21/2016	6/6/2017	6/6/2018	6/11/2019	6/11/2020	6/11/2020	6/14/2021	6/20/2022
Sample Type:	Background	Background	Background	Background	Background	Background	Background	Background	Background			App. IX Well					App. IX Well	Duplicate		
Chloroethane	NA	NA	NA	< 0.76	NA	< 0.192	< 0.192	NA	< 0.192	NA	< 0.76	< 0.76	NA	NA	NA	NA	< 0.192	< 0.192	< 0.192	NA
Chloroform	< 0.60	< 0.60	< 0.6	< 0.6	< 0.60	< 0.111	< 0.111	< 0.111	< 0.111	NA	< 0.6	< 0.60	< 0.60	< 0.6	< 0.6	< 0.60	< 0.111	< 0.111	< 0.111	< 0.111
Chloromethane (Methyl chloride)	NA	NA	NA	< 0.83	NA	< 0.960	< 0.96	NA	< 0.960	NA	< 0.83	< 0.83	NA	NA	NA	NA	< 0.960	< 0.960	< 0.96	NA
cis-1,2-Dichloroethene	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.126	< 0.126	< 0.126	< 0.126	NA	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.126	< 0.126	< 0.126	< 0.126
cis-1,3-Dichloropropene	NA	NA	NA	< 0.5	NA	< 0.111	< 0.111	NA	< 0.111	NA	< 0.5	< 0.50	NA	NA	NA	NA	< 0.111	< 0.111	< 0.111	NA
Cyclohexane	NA	NA	NA	NA	NA	< 0.188	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.723 J	0.636 J	NA	NA
Cyclohexanone	NA	NA	NA	NA	NA	< 3.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.40	< 3.40	NA	NA
Dibromomethane (Methylene bromide)	NA	NA	NA	< 0.59	NA	< 0.122	< 0.122	NA	< 0.122	NA	< 0.59	< 0.59	NA	NA	NA	NA	< 0.122	< 0.122	< 0.122	NA
Dichlorodifluoromethane (Freon 12)	NA	NA	NA	< 0.85	NA	< 0.374	< 0.374	NA	< 0.374	NA	< 0.85	< 0.85	NA	NA	NA	NA	< 0.374	< 0.374	< 0.374	NA
Dichloromonofluoromethane	NA	NA	NA	NA	NA	< 0.130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.130	< 0.130	NA	NA
Dicyclopentadiene	NA	NA	NA	NA	NA	< 0.253	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.253	< 0.253	NA	NA
Ethanol	NA	NA	NA	NA	NA	< 42.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 42.0	< 42.0	NA	NA
Ethyl acetate	NA	NA	NA	NA	NA	< 3.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.59	< 3.59	NA	NA
Ethyl methacrylate	NA	NA	NA	< 0.6	NA	< 1.48	< 1.48	NA	< 1.48	NA	< 0.6	< 0.60	NA	NA	NA	NA	< 1.48	< 1.48	< 1.48	NA
Ethylbenzene	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.137	< 0.173	< 0.173	< 0.173	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.137	< 0.137	< 0.173	< 0.173
Hexachlorobutadiene	NA	NA	NA	NA	NA	< 0.337	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.337	< 0.337	NA	NA
Hexachloroethane	NA	NA	NA	NA	NA	< 0.316	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.316	< 0.316	NA	NA
Iodomethane (Methyl iodide)	NA	NA	NA	< 0.9	NA	< 6.00	< 6	NA	< 6.00	NA	< 0.68	< 0.68	NA	NA	NA	NA	< 6.00	< 6.00	< 6	NA
Isopropyl alcohol	NA	NA	NA	NA	NA	< 1.65	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	84.8 U	260 U	NA	NA
Isopropyl ether	NA	NA	NA	NA	NA	< 0.105	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.105	< 0.105	NA	NA
Isopropylbenzene (Cumene)	NA	NA	NA	NA	NA	< 0.105	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.374 J	0.45 J	NA	NA
m+p-Xylenes	NA	NA	NA	NA	NA	< 0.430	< 0.43	< 0.43	< 0.430	NA	NA	NA	NA	NA	NA	NA	1.8 J	2.28	< 0.43	0.56 J
Methyl acetate	NA	NA	NA	NA	NA	< 1.29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.29	< 1.29	NA	NA
Methyl isobutyl ketone (4-Methyl-2-pentanone)	NA	NA	NA	< 1.8	NA	< 0.478	< 0.478	NA	< 0.478	NA	< 1.8	< 1.8	NA	NA	NA	NA	< 0.478	< 0.478	< 0.478	NA
Methyl methacrylate	NA	NA	NA	< 5.0	NA	< 1.52	< 1.52 UJ	NA	< 1.52	NA	< 5.0	< 5.0	NA	NA	NA	NA	< 1.52	< 1.52	< 1.52	NA
Methyl tertiary butyl ether (MTBE)	NA	NA	NA	NA	NA	< 0.101	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.101	< 0.101	NA	NA
Methylacrylonitrile	NA	NA	NA	< 6.0	NA	< 14.2	< 14.2	NA	< 14.2	NA	< 6.0	< 6.0	NA	NA	NA	NA	< 14.2	< 14.2	< 14.2	NA
Methylcyclohexane	NA	NA	NA	NA	NA	< 0.660	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.660	< 0.660	NA	NA
Methylene chloride (Dichloromethane)	NA	NA	NA	< 3.0	NA	< 0.430	< 0.43	NA	< 0.430	NA	< 3.0	< 3.0	NA	NA	NA	NA	< 0.430	< 0.430	< 0.43	NA
Naphthalene	NA	NA	NA	NA	NA	< 1.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.00	< 1.00	NA	NA
n-Butyl alcohol	NA	NA	NA	NA	NA	< 150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 150	< 150	NA	NA
n-Butylbenzene	NA	NA	NA	NA	NA	< 0.157	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.157	< 0.157	NA	NA
n-Heptane	NA	NA	NA	NA	NA	< 0.373	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.373	< 0.373	NA	NA
n-Hexane	NA	NA	NA	NA	NA	< 0.749	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.749	< 0.749	NA	NA
n-Propylbenzene	NA	NA	NA	NA	NA	< 0.0993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0993	< 0.0993	NA	NA
o-Xylene	NA	NA	NA	NA	NA	< 0.174	< 0.174	< 0.174	< 0.174	NA	NA	NA	NA	NA	NA	NA	< 0.174	< 0.174	< 0.174	< 0.174
Pentachloroethane	NA	NA	NA	< 0.6	NA	< 2.30	< 2.3	NA	< 2.30	NA	NA	< 0.60	NA	NA	NA	NA	< 11.5	< 2.30	< 2.3	NA
Propionitrile	NA	NA	NA	< 7.0	NA	< 16.2	< 16.2	NA	< 16.2	NA	< 7.0	< 7.0	NA	NA	NA	NA	< 16.2	< 16.2	< 16.2	NA
Propylene (Propene)	NA	NA	NA	NA	NA	< 0.936	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.936	< 0.936	NA	NA
sec-Butylbenzene (2-Phenylbutane)	NA	NA	NA	NA	NA	< 0.125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.125	< 0.125	NA	NA
Styrene	NA	NA	NA	< 1.0	NA	< 0.118	< 0.118	NA	< 0.118	NA	< 1.0	< 1.0	NA	NA	NA	NA	< 0.118	< 0.118	< 0.118	NA
tert-Amyl methyl ether	NA	NA	NA	NA	NA	< 0.195	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.195	< 0.195	NA	NA
Tert-buty formate	NA	NA	NA	NA	NA	< 4.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.51	< 4.51	NA	NA
tert-Butyl alcohol	NA	NA	NA	NA	NA	< 4.06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.06	< 4.06	NA	NA
tert-Butyl ethyl ether	NA	NA	NA	NA	NA	< 0.101	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.101	< 0.101	NA	NA
tert-Butylbenzene	NA	NA	NA	NA	NA	< 0.127	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.127	< 0.127	NA	NA
Tetrachloroethene (PCE)	NA	NA	NA	< 0.58	NA	< 0.300	< 0.3	NA	< 0.300	NA	< 0.58	< 0.58	NA	NA	NA	NA	< 0.300	< 0.300	< 0.3	NA
Tetrahydrofuran	NA	NA	NA	NA	NA	< 0.929	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.929	< 0.929	NA	NA
Toluene	< 0.70	< 0.70	< 0.7	< 0.7	< 0.41	< 0.278	< 0.278	< 0.278	< 0.278	NA	< 0.7	< 0.70	< 0.70	< 0.7	< 0.7	< 0.41	< 0.278	< 0.278	< 0.278	< 0.278
trans-1,2-Dichloroethene	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.149	< 0.149	< 0.149	< 0.149	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.149	< 0.149	< 0.149	< 0.149
trans-1,3-Dichloropropene	NA	NA	NA	< 0.5	NA	< 0.118	< 0.118	NA	< 0.118	NA	< 0.5	< 0.50	NA	NA	NA	NA	< 0.118	< 0.118	< 0.118	NA
trans-1,4-Dichlorobutene	NA	NA	NA	< 1.0	NA	< 0.467	< 0.467	NA	< 0.467	NA	< 1.0	< 1.0	NA	NA	NA	NA	< 0.467	< 0.467	< 0.467	NA
Trichloroethene (TCE)	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.190	< 0.19	< 0.19	< 0.190	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.190	< 0.190	< 0.19	< 0.19
Trichlorofluoromethane (Freon 11)	NA	NA	NA	< 0.52	NA	< 0.160	< 0.16	NA	< 0.160	NA	< 0.52	< 0.52	NA	NA	NA	NA	< 0.160	< 0.160	< 0.16	NA
Vinyl acetate	NA	NA	NA	< 2.0	NA	< 0.692	< 0.692	NA	< 0.692	NA	< 2.0	< 2.0	NA	NA	NA	NA	< 0.692	< 0.692	< 0.692	NA
Vinyl chloride	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.234	< 0.234	< 0.234	< 0.234	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.234	< 0.234	< 0.234	< 0.234
Xylenes, Total	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 0.174	< 0.174	< 0.174	< 0.174	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	2.7 J	2.4 J	1.8 J	2.28 J	< 0.174	0.56 J

Notes:
mg/L = milligrams per liter
pg/L = picograms per liter
ug/L = micrograms per liter
2014 event performed in accordance with previous permit, with Appendix IX sampling at all program wells every 5 years; subsequent events perfomed annually at rotating list of wells per current permit

Data Qualifier Definitions:
B = The analyte was positively identified, the associated numerica value is estimated due to blank contamination
I = Interference present
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
NA = Not Analyzed
R = The sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified
U = The analyte was analyzed for but was not detected at a concentration greater than the reported sample quantitation limit
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample
< = Not detected at or above the associated Method Detection Limit
As described in annual CMERs, the constituents presented represent the established permit list in effect at time of sampling, and varies annually based on additional Appendix IX detections.
DQE flags may vary by lab and based on professional judgement applied by DQE analyst.

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID:	31-DR	31-DR	31-IR	31-IR	31-IR	31-IR	31-IR	31-IR	31-IR	31-IR	31-IR	31-IR	31-IR	31-IR	32-I	32-I	32-I	32-I	32-I
Sample Date:	6/12/2023	6/12/2023	6/26/2013	6/26/2013	6/19/2014	6/5/2015	6/21/2016	6/5/2017	6/6/2018	6/11/2019	6/11/2020	6/14/2021	6/14/2021	6/20/2022	6/12/2023	6/26/2013	6/16/2014	9/4/2014	6/5/2015	6/20/2016
Sample Type:		Duplicate		Duplicate		App. IX Well					App. IX Well		Duplicate					Resample		
1,2-Dibromoethane - SW846 8011, ug/L																				
1,2-Dibromo-3-Chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.00748	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.00536	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorinated Herbicides - SW846 8151, 8151A, 8321, ug/L																				
2,2-Dichloropropionic acid (Dalapon)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.344	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-T	< 0.573	< 0.573	NA	NA	< 0.04	< 0.040	NA	NA	NA	NA	< 0.258	< 0.258	< 0.258	NA	< 0.573	NA	< 0.04	NA	NA	NA
2,4,5-TP (Silvex)	< 0.807	< 0.807	NA	NA	< 0.018	< 0.018	< 0.036	< 0.0036	< 0.0073	< 0.0073	< 0.335	< 0.335	< 0.335	< 0.335	< 0.807	NA	< 0.018	NA	< 0.018	< 0.036
2,4-D	< 1.00	< 1.00	NA	NA	< 0.26	< 0.26	NA	NA	NA	NA	< 0.547	< 0.547	< 0.547	NA	< 1.00	NA	< 0.26	NA	NA	NA
2,4-DB	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.302	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dicamba	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.245	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorprop	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.04	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dinoseb	NA	NA	NA	NA	< 0.16	NA	NA	NA	NA	NA	< 0.250	NA	NA	NA	NA	NA	< 0.16	NA	NA	NA
MCPA (2-Methyl-4-Chlorophenoxyacetic acid)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 13.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
MCPP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 66.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide - EPA 846 9012A, EPA 335.2, 335.4, mg/L																				
Cyanide	< 0.0069	< 0.0069	NA	NA	< 0.0035	< 0.0035	NA	NA	NA	NA	< 0.0012 UJ	NA	NA	0.0012 U	< 0.0069	NA	< 0.0035	NA	NA	NA
Dioxins/Furans - SW846 8290, 8290A, pg/L																				
1,2,3,4,6,7,8,9-OCDD (OCDD)	76 J	51 J	NA	NA	NA	2.8 J	3.1 J	6.0 J	2.9 J	4.5 UJ	< 5.7	< 8.3 IJ U	< 12 IJ U	< 2.8	26 J	NA	NA	NA	3.6 J	3.8 J
1,2,3,4,6,7,8,9-OCDF (OCDF)	< 4.4	< 4.9	NA	NA	NA	0.82 J	0.81 J	2.0 J	4.6 J	< 2.0	< 4.2	< 5.2	< 2.2	< 1.5	< 10	NA	NA	NA	1.2 J	< 0.48
1,2,3,4,6,7,8-HpCDD	7.7 J	< 2.9	NA	NA	NA	< 0.20	< 0.48	1.8 J	0.78 J	< 0.97	< 1.9	< 4.4	< 3.2	< 1.2	< 2.4	NA	NA	NA	< 0.33	0.56 J
1,2,3,4,6,7,8-HpCDF	< 2.7	< 2.8	NA	NA	NA	< 0.14	< 0.28	1.5 J	1.9 J	< 1.1	< 1.5	< 1.5	< 2.8	< 0.75	< 6.8	NA	NA	NA	0.21 J	0.52 J
1,2,3,4,7,8,9-HpCDF	< 5.9	< 4.2	NA	NA	NA	< 0.17	NA	0.94 J	12 J	< 1.4	< 2.6	< 2.6	< 2.6	< 1.2	< 9.6	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDD	< 1.6	< 2.6	NA	NA	< 0.62	< 0.17	NA	NA	NA	< 1.1	< 2.2	< 2.4	< 2.4	< 0.44	< 2.4	NA	< 0.74	NA	NA	NA
1,2,3,4,7,8-HxCDF	< 1.4	< 0.93	NA	NA	< 0.38	< 0.15	NA	NA	NA	< 1.2	< 1.1	< 2.6	< 1.7	< 0.39	< 1.6	NA	< 0.49	NA	NA	NA
1,2,3,6,7,8-HxCDD	< 1.8	< 2.3	NA	NA	< 0.61	< 0.12	NA	NA	NA	< 1.0	< 2.0	< 2.2	< 2.4	< 0.5	< 2.2	NA	< 0.73	NA	NA	NA
1,2,3,6,7,8-HxCDF	< 1.5	< 1.2	NA	NA	< 0.35	< 0.12	NA	NA	NA	< 1.1	< 0.9	< 2.7	< 1.8	< 0.36	< 1.7	NA	< 0.44	NA	NA	NA
1,2,3,7,8,9-HxCDD	< 1.5	< 2.5	NA	NA	< 0.56	< 0.12	NA	NA	NA	< 0.99	< 1.2	< 2.5	< 2.2	< 0.65	< 2.5	NA	< 0.67	NA	NA	NA
1,2,3,7,8,9-HxCDF	< 1.8	< 1.8	NA	NA	< 0.4	< 0.15	NA	NA	NA	< 1.4	< 1.6	< 3.1	< 1.6	< 0.31	< 2.1	NA	< 0.51	NA	NA	NA
1,2,3,7,8-PeCDD	< 1.3	< 1.3	NA	NA	< 1.8	< 0.25	NA	NA	NA	< 1.9	< 1.6	< 3.5	< 2.5	< 0.43	< 1.8	NA	< 2.8	NA	NA	NA
1,2,3,7,8-PeCDF	< 2.2	< 0.97	NA	NA	< 1.7	< 0.13	NA	NA	NA	< 0.82	< 0.71	< 3.8	< 2.7	< 0.56	< 1.7	NA	< 2.0	NA	NA	NA
2,3,4,6,7,8-HxCDF	< 1.4	< 1.5	NA	NA	< 0.37	< 0.14	NA	NA	NA	< 1.2	< 1.2	< 2.5	< 1.4	< 0.38	< 2.5	NA	< 0.47	NA	NA	NA
2,3,4,7,8-PeCDF	< 0.69	< 0.74	NA	NA	< 1.8	< 0.13	NA	NA	NA	< 0.83	< 0.61	< 3.2	< 1.4	< 0.32	1.9 J	NA	< 2.1	NA	NA	NA
2,3,7,8-TCDD	< 2.1	< 1.8	NA	NA	< 0.8	< 0.16	NA	NA	NA	< 1.2	< 1.9	< 9.4	< 6.9	< 1	< 1.0	NA	< 0.86	NA	NA	NA
2,3,7,8-TCDF	< 1.5	< 0.75	NA	NA	< 0.95	< 0.084	NA	NA	NA	< 0.96	< 2.1	< 7.4	< 3.7	< 0.4	< 1.3	NA	< 0.81	NA	NA	NA
TEQ-WHO 2005	0.1	0.015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.59	NA	NA	NA	NA	NA
Total HpCDD	7.7 J	9.0 J	NA	NA	NA	0.85 J	< 0.48	1.8 J	2.0 J	< 3.6	2.5 JU	< 4.4	< 3.2	< 1.2	4.3 J	NA	NA	NA	2.7 J	2.2 J
Total HpCDF	< 2.7	< 2.8	NA	NA	NA	< 0.17	< 0.28	2.4 J	19 J	< 1.4	< 1.5	< 1.5	< 2.6	< 0.75	< 6.8	NA	NA	NA	0.21 J	0.52 J
Total HxCDD	6.8 J	4.2 J	NA	NA	< 0.62	< 0.17	< 1.9	1.2 J	3.0 J	< 1.1	< 1.2	< 2.2	< 2.2	< 0.44	< 2.2	NA	1.9 J	NA	< 1.9	< 1.9
Total HxCDF	< 1.4	< 0.93	NA	NA	< 0.4	< 0.15	< 1.9	3.1 J	16 J	< 1.4	< 0.9	< 2.5	< 1.4	< 0.31	< 1.6	NA	< 0.51	NA	< 1.9	< 1.9
Total PeCDD	< 1.3	< 1.3	NA	NA	< 1.8	< 0.25	NA	NA	NA	< 1.9	< 1.6	< 3.5	< 2.5	< 0.43	< 1.8	NA	< 2.8	NA	NA	NA
Total PeCDF	< 0.69	< 0.74	NA	NA	< 1.8	< 0.13	NA	NA	NA	< 0.89	< 0.61	< 3.2	< 1.4	< 0.32	1.9 J	NA	< 2.1	NA	NA	NA
Total TCDD	< 2.1	< 1.8	NA	NA	< 0.8	0.28 J	< 1.9	< 0.43	0.68 J	< 1.2	< 1.9	< 9.4	< 6.9	< 1	< 1.0	NA	< 0.86	NA	< 0.17	< 1.9
Total TCDF	< 1.5	< 0.75	NA	NA	< 0.95	< 0.084	NA	NA	NA	< 0.96	< 2.1	< 7.4	< 3.7	< 0.4	< 1.3	NA	< 0.81	NA	NA	NA
Mercury, Total - SW846 7470, 7470A, mg/L																				
Mercury	< 0.00010	< 0.00010	NA	NA	< 0.000091	< 0.00007	< 0.000070	< 0.00007	< 0.00007	< 0.000070	NA	< 0.00010	< 0.00010	< 0.00010	< 0.00010	NA	0.00011 J	NA	< 0.00007	< 0.000070
Metals, Total - SW846 6010C, 6020, 6020A, mg/L																				
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0364	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	< 0.00034	< 0.00034	NA	NA	< 0.01	< 0.00084	NA	NA	NA	NA	NA	< 0.00063	< 0.00063	< 0.00063	< 0.00034	NA	< 0.01	NA	NA	NA
Arsenic	0.00032 J	0.00022 J	< 0.004	< 0.004	< 0.004	< 0.00066	< 0.00046	0.00021 J	0.00018 J	< 0.00025	< 0.0002	< 0.00020	< 0.00020	0.00027 J	0.00031 J	< 0.004	0.0052 J	NA	0.0011 J	0.00049 J
Barium	0.31	0.29	NA	NA	0.067	0.06	0.045	0.042	0.075	0.062	0.0527	0.0512	0.0527	0.054	0.045	NA	0.025	NA	0.017	0.011
Beryllium	< 0.00021	< 0.00021	NA	NA	< 0.001	< 0.00037	NA	NA	NA	NA	NA	NA	< 0.00012	< 0.00012	< 0.00021	NA	< 0.001	NA	NA	NA
Cadmium	< 0.00019	< 0.00019	NA	NA	< 0.001	< 0.00059	< 0.00034	< 0.000068	< 0.000068	< 0.00025	< 0.00008	< 0.000080	< 0.000080	< 0.000080	< 0.00019	NA	< 0.001	NA	< 0.00059	< 0.00034
Chromium	0.0015	0.0023	NA	NA	< 0.002	< 0.00063	< 0.0011	0.00022 J	< 0.00022	< 0.0005	< 0.00062	< 0.00062	< 0.00062	0.001 U	< 0.00063	NA	0.0055 J	NA	< 0.00063	< 0.0011
Cobalt	0.00014 J	0.00030 J	NA	NA	< 0.003	0.00079 J	0.00040 J	0.00093	0.0017	0.0011	0.00022 J	0.00044 J	0.00047 J	< 0.000060	0.00023 J	NA	< 0.003	NA	0.00027 J	< 0.00040
Copper	< 0.0017	< 0.0017	0.0034 J	0.0023 J	0.002 J	< 0.0019	< 0.0021	< 0.00042	< 0.00042	< 0.0005	0.0018 J	0.00095 J	< 0.00083	0.0016 J	< 0.0017	0.0036 J	< 0.002	NA	< 0.0019	< 0.0021
Lead	< 0.00069	0.00081 J	NA	NA	< 0.002	< 0.00017	< 0.00035	0.00013 J	0.00022 J	0.00020 J	< 0.00007	0.00018 J	0.00026 J	< 0.000070	< 0.00069	NA	< 0.002	NA	< 0.00017	< 0.00035
Nickel	< 0.00062	0.00077 J	NA	NA	< 0.003	< 0.0007	< 0.0018	0.00037 J	0.00056	< 0.00086	0.00078 J	< 0.00056	< 0.00056	< 0.00056	< 0.00062	NA	< 0.003	NA	< 0.0007	< 0.0018
Selenium	< 0.00026	< 0.00026	NA	NA	< 0.004	< 0.00033	< 0.00024	0.00013 J	0.0015	0.0029 U	< 0.00037	0.00073 J	0.0010	0.00087 J	0.0019	NA	< 0.004	NA	< 0.00033	< 0.00024
Silver	< 0.00020	< 0.00020	NA	NA	< 0.002	< 0.000063	NA	NA	NA	NA	NA	< 0.000080	< 0.000080	< 0.000080	< 0.00020	NA	< 0.002	NA	NA	NA
Thallium	< 0.00011	< 0.00011	NA	NA	< 0.004	< 0.000017	< 0.000085	0.000052 J	0.000066 J	< 0.00014	< 0.00008	< 0.000080	< 0.000080	< 0.000080	< 0.00011	NA	< 0.004	NA	< 0.000017	< 0.000085
Tin	< 0.00065	< 0.00065	NA	NA	< 0.005	< 0.0024	NA	NA	NA	NA	NA	< 0.00043	< 0.00043	< 0.00043	< 0.00065	NA	< 0.005	NA	NA	NA
Vanadium	0.00049 J	0.0012 J	NA	NA	< 0.003	< 0.0022	< 0.0014	< 0.00028	< 0.00028	< 0.0013	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.00023	NA	< 0.003	NA	< 0.0022	< 0.0014
Zinc	< 0.0072	< 0.0072	NA	NA	< 0.008	< 0.014	NA	NA	NA	NA	0.0314 U	0.0078 J	0.0529 J	0.012 J	0.012	NA	0.037	< 0.008	< 0.014	NA
Organophosphorus Pesticides - SW846 8141, ug/L																				
Basudin, Neocidol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.302	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorpyrifos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.320	NA	NA	NA	NA	NA	NA	NA	NA	NA
Coumaphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.410	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dasanit	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.405	NA	NA	NA	NA	NA	NA	NA	NA	NA
Demeton	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Demeton-s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.626	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibrom	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.594	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorvos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.196	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethoate (Cygon)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.327	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disulfoton	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.227	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.129	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethoprophos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.293	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl Parathion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.454	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fenthion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.213	NA	NA	NA	NA	NA	NA	NA	NA	NA
Folex	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.32	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	31-DR 6/12/2023	31-DR 6/12/2023 Duplicate	31-IR 6/26/2013	31-IR 6/26/2013 Duplicate	31-IR 6/19/2014	31-IR 6/5/2015 App. IX Well	31-IR 6/21/2016	31-IR 6/5/2017	31-IR 6/6/2018	31-IR 6/11/2019	31-IR 6/11/2020 App. IX Well	31-IR 6/14/2021	31-IR 6/14/2021 Duplicate	31-IR 6/20/2022	31-IR 6/12/2023	32-I 6/26/2013	32-I 6/16/2014	32-I 9/4/2014 Resample	32-I 6/5/2015	32-I 6/20/2016
Guthion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.534	NA	NA	NA	NA	NA	NA	NA	NA	NA
Malathion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.354	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl parathion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.383	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mevinphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.275	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phorate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.276	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ronnel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.277	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfotepp	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.181	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulprofos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachlorvinphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.277	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetraethyl diphosphate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.11	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tokuthion (Prothiofos)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.241	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloronate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.306	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organophosphorus Pesticides - SW846 8270-PEST, ug/L																				
Dimethoate (Cygon)	< 5.30	< 5.05	NA	NA	< 2.9	< 1.0	NA	NA	NA	NA	< 5.05	< 5.05	< 5.05	NA	< 5.05	NA	< 2.9	NA	NA	NA
Disulfoton	NA	NA	NA	NA	< 2.9	< 3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.9	NA	NA	NA
Ethyl Parathion	NA	NA	NA	NA	< 2.9	< 3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.9	NA	NA	NA
Famphur	< 4.12	< 3.92	NA	NA	< 2.9	< 3.0	NA	NA	NA	NA	< 3.92	< 3.92	< 3.92	NA	< 3.92	NA	< 2.9	NA	NA	NA
Methyl parathion	NA	NA	NA	NA	< 2.9	< 0.91	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.9	NA	NA	NA
Phorate	NA	NA	NA	NA	< 2.9	< 0.73	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.9	NA	NA	NA
Sulfotepp	< 4.19	< 3.99	NA	NA	< 2.9	< 1.8	NA	NA	NA	NA	< 3.99	< 3.99	< 3.99	NA	< 3.99	NA	< 2.9	NA	NA	NA
Thionazin	< 4.27	< 4.07	NA	NA	< 2.9	< 3.0	NA	NA	NA	NA	< 4.07	< 4.07	< 4.07	NA	< 4.07	NA	< 2.9	NA	NA	NA
Pesticides - SW846 8081, 8081A, 8081B, ug/L																				
4,4'-DDD	< 0.0177	< 0.0253	NA	NA	< 0.0029	< 0.0030	NA	NA	NA	NA	< 0.0177	< 0.0177 UJ	< 0.0177 UJ	NA	< 0.0177	NA	< 0.003	NA	NA	NA
4,4'-DDE	< 0.0154	< 0.0220	NA	NA	< 0.0021	< 0.0040	NA	NA	NA	NA	< 0.0154	< 0.0154 UJ	< 0.0154 UJ	NA	< 0.0154	NA	< 0.0022	NA	NA	NA
4,4'-DDT	< 0.0198	< 0.0283	NA	NA	< 0.0037	< 0.0039	NA	NA	NA	NA	< 0.0198	< 0.0198 UJ	< 0.0198 UJ	NA	< 0.0198	NA	< 0.0039	NA	NA	NA
Aldrin	< 0.0198	< 0.0283	NA	NA	< 0.0029	< 0.004	NA	NA	NA	NA	< 0.0198	< 0.0198	< 0.0198	< 0.0198	< 0.0198	NA	< 0.003	NA	NA	NA
alpha-BHC	< 0.0172	< 0.0246	NA	NA	< 0.0034	< 0.011	NA	NA	NA	NA	< 0.0172	< 0.0172	< 0.0172	NA	< 0.0172	NA	< 0.0036	NA	NA	NA
alpha-Chlordane	NA	NA	NA	NA	NA	< 0.0042	NA	NA	NA	NA	NA	< 0.0149 UJ	< 0.0149 UJ	NA	NA	NA	NA	NA	NA	NA
beta-BHC	< 0.0208	< 0.0297	NA	NA	< 0.0029	< 0.037	NA	NA	NA	NA	< 0.0208	< 0.0208	< 0.0208	NA	< 0.0208	NA	< 0.003	NA	NA	NA
beta-Chlordane	NA	NA	NA	NA	NA	< 0.0032	NA	NA	NA	NA	NA	NA	< 0.0137 UJ	NA	NA	NA	NA	NA	NA	NA
Chlordane	< 0.0198	< 0.0283	NA	NA	< 0.12	< 0.13	NA	NA	NA	NA	< 0.0198	< 0.0198	< 0.0198	NA	< 0.0198	NA	< 0.13	NA	NA	NA
Chlordane, technical	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzilate	NA	NA	NA	NA	< 0.037	< 0.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0	NA	NA	NA
delta-BHC	< 0.0150	< 0.0215	NA	NA	< 0.002	< 0.0027	NA	NA	NA	NA	< 0.0150	< 0.015	< 0.015	NA	< 0.0150	NA	< 0.0021	NA	NA	NA
Dieldrin	< 0.0162	< 0.0232	NA	NA	< 0.0029	< 0.0042	NA	NA	NA	NA	< 0.0162	< 0.0162 UJ	< 0.0162 UJ	NA	< 0.0162	NA	< 0.003	NA	NA	NA
Endosulfan I	< 0.0160	< 0.0229	NA	NA	< 0.0029	< 0.0030	NA	NA	NA	NA	< 0.0160	< 0.016 UJ	< 0.016 UJ	NA	< 0.0160	NA	< 0.003	NA	NA	NA
Endosulfan II	< 0.0164	< 0.0235	NA	NA	< 0.007	< 0.0074	NA	NA	NA	NA	< 0.0164	< 0.0164	< 0.0164	NA	< 0.0164	NA	< 0.0074	NA	NA	NA
Endosulfan sulfate	< 0.0217	< 0.0310	NA	NA	< 0.002	< 0.0021	NA	NA	NA	NA	< 0.0217	< 0.0217 UJ	< 0.0217 UJ	NA	< 0.0217	NA	< 0.0021	NA	NA	NA
Endrin	< 0.0161	< 0.0230	NA	NA	< 0.0029	< 0.0030	NA	NA	NA	NA	< 0.0161	< 0.0161 UJ	< 0.0161 UJ	NA	< 0.0161	NA	< 0.003	NA	NA	NA
Endrin aldehyde	< 0.0237	< 0.0339	NA	NA	< 0.0027	< 0.0028	NA	NA	NA	NA	< 0.0237	< 0.0237	< 0.0237	NA	< 0.0237	NA	< 0.0028	NA	NA	NA
Endrin ketone	NA	< 0.0313	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0219	NA	NA	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	< 0.0209	< 0.0299	NA	NA	< 0.024	< 0.025	NA	NA	NA	NA	< 0.0209	< 0.0209	< 0.0209	NA	< 0.0209	NA	< 0.025	NA	NA	NA
gamma-Chlordane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0137 UJ	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	< 0.0148	< 0.0212	NA	NA	< 0.003	< 0.0031	NA	NA	NA	NA	< 0.0148	< 0.0148	< 0.0148	NA	< 0.0148	NA	< 0.0031	NA	NA	NA
Heptachlor Epoxide	< 0.0183	< 0.0262	NA	NA	0.013 J	< 0.0032	NA	NA	NA	NA	< 0.0183	< 0.0183 UJ	< 0.0183 UJ	NA	< 0.0183	NA	< 0.0032	NA	NA	NA
Hexachlorobenzene	NA	< 0.0252	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0176	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	< 0.0193	< 0.0276	NA	NA	< 0.0039	< 0.0041	NA	NA	NA	NA	< 0.0193	< 0.0193 UJ	< 0.0193 UJ	NA	< 0.0193	NA	< 0.0041	NA	NA	NA
Toxaphene	< 0.168	< 0.240	NA	NA	< 0.29	< 0.40	NA	NA	NA	NA	< 0.168	< 0.168	< 0.168	NA	< 0.168	NA	< 0.3	NA	NA	NA
Phenolics - E420.1, E420.4, SW9065, mg/L																				
Total Recoverable Phenolics	0.022	0.017 J	< 0.0045	< 0.0045	NA	< 0.0045	0.013	0.012	< 0.0045	< 0.09	0.037 U	0.0162 J	0.0433 J	< 0.0250	< 0.0093	< 0.0045	< 0.0045	NA	< 0.0045	0.011
Polychlorinated Biphenyl (PCB) - SW846 8082, 8082A, ug/																				
PCB-1016	NA	NA	NA	NA	< 0.046	< 0.048	NA	NA	NA	NA	< 0.16	NA	NA	NA	NA	NA	< 0.047	NA	NA	NA
PCB-1221	NA	NA	NA	NA	< 0.21	< 0.034	NA	NA	NA	NA	< 0.34	NA	NA	NA	NA	NA	< 0.21	NA	NA	NA
PCB-1232	NA	NA	NA	NA	< 0.095	< 0.41	NA	NA	NA	NA	< 0.47	NA	NA	NA	NA	NA	< 0.097	NA	NA	NA
PCB-1242	NA	NA	NA	NA	< 0.032	< 0.034	NA	NA	NA	NA	< 0.20	NA	NA	NA	NA	NA	< 0.033	NA	NA	NA
PCB-1248	NA	NA	NA	NA	< 0.019	< 0.034	NA	NA	NA	NA	< 0.14	NA	NA	NA	NA	NA	< 0.019	NA	NA	NA
PCB-1254	NA	NA	NA	NA	< 0.054	< 0.034	NA	NA	NA	NA	< 0.16	NA	NA	NA	NA	NA	< 0.055	NA	NA	NA
PCB-1260	NA	NA	NA	NA	< 0.032	< 0.034	NA	NA	NA	NA	< 0.15	NA	NA	NA	NA	NA	< 0.033	NA	NA	NA
PCB-1262	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1268	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semi-Volatile Organic Compounds - SW846 8270C, 8270D																				
1,2,4,5-Tetrachlorobenzene	< 0.0679	< 0.0647	NA	NA	< 0.5	< 0.52	NA	NA	NA	NA	< 0.0647	< 0.0647	< 0.0647	NA	< 0.0647	NA	< 0.5	NA	NA	NA
1,2,4-Trichlorobenzene	< 0.0733	< 0.0698	NA	NA	< 0.51	< 0.53	NA	NA	NA	NA	< 0.0698	< 0.0698	< 0.0698	NA	< 0.0698	NA	< 0.51	NA	NA	NA
1,2-Dichlorobenzene	< 0.0749	< 0.0713	NA	NA	< 0.55	< 0.57	NA	NA	NA	NA	< 0.0713	< 0.0713	< 0.0713	NA	< 0.0713	NA	< 0.55	NA	NA	NA
1,3,5-Trinitrobenzene	< 1.39	< 1.32	NA	NA	< 1.9	< 2.0	NA	NA	NA	NA	< 1.32	< 1.32	< 1.32	NA	< 1.32	NA	< 1.9	NA	NA	NA
1,3-Dichlorobenzene	< 0.139	< 0.132	NA	NA	< 0.46	< 0.47	NA	NA	NA	NA	< 0.132	< 0.132	< 0.132	NA	< 0.132	NA	< 0.46	NA	NA	NA
1,3-Dinitrobenzene	< 0.377	< 0.359	NA	NA	< 0.97	< 1.0	NA	NA	NA	NA	< 0.359	< 0.359	< 0.359	NA	< 0.359	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	< 0.0989	< 0.0942	NA	NA	< 0.5	< 0.52	NA	NA	NA	NA	< 0.0942	< 0.0942	< 0.0942	NA	< 0.0942	NA	< 0.5	NA	NA	NA
1,4-Dioxane (p-Dioxane)	0.80	0.309 J	NA	NA	< 0.97	2.4 J	< 1.0	< 0.98	< 1.1	< 1.2	NA	< 0.0447	< 0.0447	0.173 U	0.195 J	NA	4.2 J	NA	3.9 J	3.3 J
1,4-Naphthoquinone	< 5.84	< 5.56	NA	NA	< 3.9	< 4.0	NA	NA	NA	NA	< 5.56 R	< 5.56 R	< 5.56 R	NA	< 5.56	NA	< 3.9	NA	NA	NA
1-Methylnaphthalene	4.99	7.73	0.056 J	< 0.019	< 0.49	< 0.020	< 0.020	< 0.02	0.44	2.3 B	0.445 J	< 0.079	< 0.079	< 0.079	< 0.0790	< 0.019	< 0.49	NA	< 0.020	0.044 J
1-Naphthylamine	1.04 J	1.66 J	< 2.8	< 2.7	< 3.9	< 4.0	< 4.0	< 3.9	< 4.3	< 5.0	< 0.289	< 0.289	< 0.289	< 0.289	< 0.289	< 2.7	< 3.9	NA	< 4.0	< 4.0
2,2'-Oxybis(1-chloropropane)	< 0.221	< 0.210	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	NA	< 0.210	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	< 0.243	< 0.231	NA	NA	< 0.62	< 0.64	NA	NA	NA	NA	< 0.231	< 0.231	< 0.231	NA	< 0.231	NA	< 0.62	NA	NA	NA
2,4,5-Trichlorophenol	< 0.114	< 0.109	NA	NA	< 3.6	< 3.7	NA	NA	NA	NA	< 0.109	< 0.109	< 0.109	NA	< 0.109	NA	< 3.6	NA	NA	NA
2,4,6-Trichlorophenol	< 0.105	< 0.100	NA	NA	< 3.4	< 1.0	NA	NA	NA	NA	< 0.100	< 0.1	< 0.1	NA	< 0.100	NA	< 3.4	NA	NA	NA
2,4-Dichlorophenol	< 0.107	< 0.102	NA	NA	< 2.9	< 3.0	NA	NA	NA	NA	< 0.102	< 0.102	< 0.102	NA	< 0.102	NA	< 2.9	NA	NA	NA
2,4-Dimethylphenol	< 0.0668	< 0.0636	< 3.5	< 3.3	< 3.4	< 3.5	< 3.5	< 3.4	< 3.7	< 4.3	< 0.0636	< 0.0636	< 0.0636	< 0.0636	< 0.0636	< 3.3	< 3.4	NA	< 3.5	< 3.5

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	31-DR 6/12/2023	31-DR 6/12/2023 Duplicate	31-IR 6/26/2013	31-IR 6/26/2013 Duplicate	31-IR 6/19/2014	31-IR 6/5/2015 App. IX Well	31-IR 6/21/2016	31-IR 6/5/2017	31-IR 6/6/2018	31-IR 6/11/2019	31-IR 6/11/2020 App. IX Well	31-IR 6/14/2021	31-IR 6/14/2021 Duplicate	31-IR 6/20/2022	31-IR 6/12/2023	32-I 6/26/2013	32-I 6/16/2014	32-I 9/4/2014 Resample	32-I 6/5/2015	32-I 6/20/2016
2,4-Dinitrophenol	< 6.23	< 5.93	NA	NA	< 3.3	< 7.3	NA	NA	NA	NA	< 5.93	< 5.93	< 5.93	NA	< 5.93	NA	< 3.3	NA	NA	NA
2,4-Dinitrotoluene	< 0.103	< 0.0983	NA	NA	< 1.8	< 7.3	NA	NA	NA	NA	< 0.0983	< 0.0983	< 0.0983	NA	< 0.0983	NA	< 1.8	NA	NA	NA
2,6-Dichlorophenol	< 0.107	< 0.102	NA	NA	< 3.9	< 4.0	NA	NA	NA	NA	< 0.102	< 0.102	< 0.102	NA	< 0.102	NA	< 3.9	NA	NA	NA
2,6-Dinitrotoluene	< 0.263	< 0.250	NA	NA	< 1.8	< 3.6	NA	NA	NA	NA	< 0.250	< 0.25	< 0.25	NA	< 0.250	NA	< 1.8	NA	NA	NA
2-Acetylaminofluorene	< 0.266	< 0.253	NA	NA	< 3.9	< 4.0	NA	NA	NA	NA	< 0.253	< 0.253	< 0.253	NA	< 0.253	NA	< 3.9	NA	NA	NA
2-Chloronaphthalene	< 0.0680	< 0.0648	NA	NA	< 0.5	< 0.52	NA	NA	NA	NA	< 0.0648	< 0.0648	< 0.0648	NA	< 0.0648	NA	< 0.5	NA	NA	NA
2-Chlorophenol	< 0.140	< 0.133	NA	NA	< 2.1	< 3.0	NA	NA	NA	NA	< 0.133	< 0.133	< 0.133	NA	< 0.133	NA	< 2.1	NA	NA	NA
2-Methylaniline (o-Toluidine)	< 3.71	5.25 J	< 1.0	< 0.95	< 5.8	< 6.0	< 6.0	< 5.9	< 6.4	< 7.4	< 3.53	< 3.53	< 3.53	< 3.53	< 3.53	< 0.95	< 5.8	NA	< 6.0	< 6.0
2-Methylnaphthalene	0.127 J	0.146 J	< 0.02	< 0.019	< 0.52	< 6.3	< 0.020	< 0.02	0.036 J	0.10 U	< 0.117	< 0.117	< 0.117	< 0.117	< 0.117	< 0.019	< 0.52	NA	< 6.3	0.045 J
2-Methylphenol (o-Cresol)	< 0.0975	< 0.0929	NA	NA	< 1.7	< 1.8	NA	NA	NA	NA	< 0.0929	< 0.0929	< 0.0929	NA	< 0.0929	NA	< 1.7	NA	NA	NA
2-Naphthylamine	< 4.70	< 4.48	< 2.9	< 2.8	< 3.9	< 4.0	< 4.0	< 3.9	< 4.3	< 5.0 UJ	< 4.48	< 4.48	< 4.48	< 4.48	< 4.48	< 2.8	< 3.9	NA	< 4.0	< 4.0
2-Nitroaniline	< 0.107	< 0.102	NA	NA	< 2.1	< 2.2	NA	NA	NA	NA	< 0.102	< 0.102	< 0.102	NA	< 0.102	NA	< 2.1	NA	NA	NA
2-Nitrophenol	< 0.123	< 0.117	NA	NA	< 0.63	< 0.65	NA	NA	NA	NA	< 0.117	< 0.117	< 0.117	NA	< 0.117	NA	< 0.63	NA	NA	NA
2-Picoline	< 7.17	< 6.83	NA	NA	< 5.8	< 6.0	NA	NA	NA	NA	< 6.83	< 6.83	< 6.83	NA	< 6.83	NA	< 5.8	NA	NA	NA
3,3'-Dichlorobenzidine	< 0.223	< 0.212	NA	NA	< 2.5	< 1.0	NA	NA	NA	NA	< 0.212	< 0.212	< 0.212	NA	< 0.212	NA	< 2.5	NA	NA	NA
3,3'-Dimethylbenzidine	< 3.56	< 3.39	NA	NA	< 7.8	< 8.0	NA	NA	NA	NA	< 3.39	< 3.39	< 3.39	NA	< 3.39	NA	< 7.8	NA	NA	NA
3+4-Methylphenol (m,p-Cresol)	< 0.176	< 0.168	< 0.39	< 0.37	NA	< 1.0	< 1.0	< 1.0	< 1.1	< 1.3	< 0.168	< 0.168	< 0.168	< 0.168	< 0.168	< 0.37	NA	NA	< 1.0	< 1.0
3-Methylchloranthrene	< 0.172	< 0.164	NA	NA	< 2.1	< 2.2	NA	NA	NA	NA	< 0.164	< 0.164	< 0.164	NA	< 0.164	NA	< 2.1	NA	NA	NA
3-Methylphenol (m-Cresol)	NA	NA	NA	NA	< 0.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.38	NA	NA	NA
3-Nitroaniline	< 0.0912	< 0.0869	NA	NA	< 1.7	< 1.8	NA	NA	NA	NA	< 0.0869	< 0.0869	< 0.0869	NA	< 0.0869	NA	< 1.7	NA	NA	NA
4,6-Dinitro-2-Methylphenol	< 1.18	< 1.12	NA	NA	< 1.9	< 2.0	NA	NA	NA	NA	< 1.12	< 1.12	< 1.12	NA	< 1.12	NA	< 1.9	NA	NA	NA
4-Aminobiphenyl	< 0.484	< 0.461	NA	NA	< 4.1	< 4.2	NA	NA	NA	NA	< 0.461	< 0.461	< 0.461	NA	< 0.461	NA	< 4.1	NA	NA	NA
4-Bromophenyl phenyl ether	< 0.0921	< 0.0877	NA	NA	< 0.31	< 0.32	NA	NA	NA	NA	< 0.0877	< 0.0877	< 0.0877	NA	< 0.0877	NA	< 0.31	NA	NA	NA
4-Chloro-3-Methylphenol	< 0.138	< 0.131	NA	NA	< 3.7	< 3.8	NA	NA	NA	NA	< 0.131	< 0.131	< 0.131	NA	< 0.131	NA	< 3.7	NA	NA	NA
4-Chloroaniline	< 0.246	< 0.234	NA	NA	< 3.3	< 3.4	NA	NA	NA	NA	< 0.234	< 0.234	< 0.234	NA	< 0.234	NA	< 3.3	NA	NA	NA
4-Chlorophenyl phenyl ether	< 0.0972	< 0.0926	NA	NA	< 1.9	< 2.0	NA	NA	NA	NA	< 0.0926	< 0.0926	< 0.0926	NA	< 0.0926	NA	< 1.9	NA	NA	NA
4-Dimethylaminoazobenzene	< 3.87	< 3.69	NA	NA	< 2.2	< 2.3	NA	NA	NA	NA	< 3.69	< 3.69	< 3.69	NA	< 3.69	NA	< 2.2	NA	NA	NA
4-Methylphenol (p-Cresol)	NA	NA	NA	NA	< 0.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.38	NA	NA	NA
4-Nitroaniline	< 0.0956	< 0.0910	NA	NA	< 2.4	< 2.5	NA	NA	NA	NA	< 0.0910	< 0.091	< 0.091	NA	< 0.0910	NA	< 2.4	NA	NA	NA
4-Nitrophenol	< 0.150	< 0.143	NA	NA	< 2.0	< 2.1	NA	NA	NA	NA	< 0.143	< 0.143	< 0.143	NA	< 0.143	NA	< 2.0	NA	NA	NA
4-Nitroquinoline-N-Oxide	< 2.13	< 2.03	NA	NA	< 1.9	< 2.0	NA	NA	NA	NA	< 2.03	< 2.03	< 2.03	NA	< 2.03	NA	< 1.9	NA	NA	NA
5-Nitro-O-Toluidine	< 2.09	< 1.99	NA	NA	< 2.9	< 3.0	NA	NA	NA	NA	< 1.99	< 1.99	< 1.99	NA	< 1.99	NA	< 2.9	NA	NA	NA
7,12-Dimethylbenz(a)anthracene	< 1.80	< 1.71	NA	NA	< 3.6	< 3.7	NA	NA	NA	NA	< 1.71	< 1.71	< 1.71	NA	< 1.71	NA	< 3.6	NA	NA	NA
Acenaphthene	8.32	11.4	0.47	0.39	< 0.45	< 0.020	< 0.020	< 0.02	2.2	6.5	4.14	< 0.0886	< 0.0886	< 0.0886	< 0.0886	< 0.019	0.48 J	NA	< 0.020	0.034 J
Acenaphthylene	< 0.0967	< 0.0921	0.082 J	0.069 J	< 0.54	< 0.020	< 0.020	< 0.02	0.49	0.79	0.773 J	< 0.0921	< 0.0921	< 0.0921	< 0.0921	< 0.019	< 0.54	NA	< 0.020	0.036 J
Acetophenone	< 0.218	< 0.208	NA	NA	< 0.6	< 0.62	NA	NA	NA	NA	< 0.208	0.284 U	0.279 U	NA	< 0.208	NA	< 0.6	NA	NA	NA
alpha, alpha-Dimethylphenethylamine	< 3.29	< 3.13	NA	NA	< 9.7	< 10	NA	NA	NA	NA	< 3.13 R	< 3.13 R	< 3.13 R	NA	< 3.13	NA	< 9.7	NA	NA	NA
Aniline	< 1.73	< 1.65	NA	NA	< 3.7	< 3.8	NA	NA	NA	NA	< 1.65	< 1.65	< 1.65	NA	< 1.65	NA	< 3.7	NA	NA	NA
Anthracene	< 0.0844	< 0.0804	0.087 J	0.078 J	< 0.41	< 0.020	< 0.020	< 0.02	1.6	1.2	1.24	< 0.0804	< 0.0804	< 0.0804	< 0.0804	< 0.019	< 0.41	NA	< 0.020	0.024 J
Aramite	< 17.5	< 16.7	NA	NA	< 1.9	< 2.0	NA	NA	NA	NA	< 16.7	< 16.7	< 16.7	NA	< 16.7	NA	< 1.9	NA	NA	NA
Benzo(a)anthracene	< 0.209	< 0.199	< 0.04	< 0.038	< 0.33	< 0.092	< 0.040	< 0.039	< 0.043	< 0.050	< 0.199	< 0.199	< 0.199	< 0.199	< 0.199	< 0.038	< 0.33	NA	< 0.092	< 0.040
Benzo(a)pyrene	< 0.0400	< 0.0381	< 0.04	< 0.038	< 0.42	< 0.20	< 0.040	< 0.039	< 0.043	< 0.050	< 0.0381	< 0.0381	< 0.0381	< 0.0381	< 0.0381	< 0.038	< 0.42	NA	< 0.20	< 0.040
Benzo(b)fluoranthene	< 0.136	< 0.130	< 0.04	< 0.038	< 0.37	< 0.092	< 0.040	< 0.039	< 0.043	< 0.050	< 0.130	< 0.13	< 0.13	< 0.13	< 0.130	< 0.038	< 0.37	NA	< 0.092	< 0.040
Benzo(g,h,i)perylene	< 0.127	< 0.121	< 0.04	< 0.038	< 1.0	< 0.040	< 0.040	< 0.039	< 0.043	< 0.050	< 0.121	< 0.121	< 0.121	< 0.121	< 0.121	< 0.038	< 1.0	NA	< 0.040	< 0.040
Benzo(k)fluoranthene	< 0.126	< 0.120	< 0.04	< 0.038	< 0.52	< 0.92	< 0.040	< 0.039	< 0.043	< 0.050	< 0.120	< 0.12	< 0.12	< 0.12	< 0.120	< 0.038	< 0.52	NA	< 0.92	< 0.040
Benzyl Alcohol	< 0.591	< 0.563	NA	NA	< 1.9	< 2.0	NA	NA	NA	NA	< 0.563	< 0.563	< 0.563	NA	< 0.563	NA	< 1.9	NA	NA	NA
bis(2-Chloroethoxy)methane	< 0.122	< 0.116	NA	NA	< 0.67	< 0.69	NA	NA	NA	NA	< 0.116	< 0.116	< 0.116	NA	< 0.116	NA	< 0.67	NA	NA	NA
bis(2-Chloroethyl)ether	< 0.144	< 0.137	NA	NA	< 0.72	< 0.74	NA	NA	NA	NA	< 0.137	< 0.137	< 0.137	NA	< 0.137	NA	< 0.72	NA	NA	NA
bis(2-Chloroisopropyl)ether	NA	NA	NA	NA	< 0.79	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.79	NA	NA	NA
bis(2-Ethylhexyl)phthalate	< 0.940	< 0.895	< 2.0	< 1.9	< 2.2	< 6.0	2.3 J	< 2.2	4.0 J	< 6.2	< 0.895	< 0.895	< 0.895	< 0.895	< 0.895	< 1.9	< 2.2	NA	< 6.0	3.1 J
Butyl benzyl phthalate	< 0.803	< 0.765	NA	NA	< 0.67	< 0.69	NA	NA	NA	NA	< 0.765	< 0.765	< 0.765	NA	< 0.765	NA	< 0.67	NA	NA	NA
Chlorobenzilate	< 4.03	< 3.84	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.84	< 3.84	NA	< 3.84	NA	NA	NA	NA	NA
Chrysene	< 0.136	< 0.130	< 0.04	< 0.038	< 0.48	< 9.2	< 0.040	< 0.039	< 0.043	< 0.050	< 0.130	< 0.13	< 0.13	< 0.13	< 0.130	< 0.038	< 0.48	NA	< 9.2	< 0.040
Diallate	< 0.550	< 0.524	NA	NA	< 2.9	< 1.1	NA	NA	NA	NA	< 0.524	< 0.524	< 0.524	NA	< 0.524	NA	< 2.9	NA	NA	NA
Dibenzo(a,h)anthracene	< 0.0676	< 0.0644	NA	NA	< 1.1	< 0.050	NA	NA	NA	NA	< 0.0644	< 0.0644	< 0.0644	NA	< 0.0644	NA	< 1.1	NA	NA	NA
Dibenzofuran	< 0.102	< 0.0970	2.2 J	1.9 J	< 0.5	< 1.2	< 0.52	< 0.51	6.2 J	15	12.4	0.542 J	0.254 J	< 0.097	< 0.0970	< 0.16	< 0.5	NA	< 1.2	< 0.52
Diethyl phthalate	0.325 J	< 0.287	NA	NA	< 0.68	< 0.70	NA	NA	NA	NA	< 0.287	< 0.287	< 0.287	NA	< 0.287	NA	< 0.68	NA	NA	NA
Dimethyl phthalate	< 0.273	< 0.260	NA	NA	< 0.58	< 0.60	NA	NA	NA	NA	< 0.260	< 0.26	< 0.26	NA	< 0.260	NA	< 0.58	NA	NA	NA
Di-n-butyl phthalate	< 0.476	< 0.453	NA	NA	NA	< 2.7	NA	NA	NA	NA	< 0.453	< 0.453	< 0.453	NA	< 0.453	NA	NA	NA	NA	NA
Di-n-octyl phthalate	< 0.979	< 0.932	< 0.17	< 0.16	< 0.43	< 0.44	< 0.44	< 0.43	< 0.47	< 0.55	< 0.932	< 0.932	< 0.932	< 0.932	< 0.932	< 0.16	< 0.43	NA	< 0.44	< 0.44
Dinoseb	< 8.41	< 8.01	NA	NA	NA	< 3.0	NA	NA	NA	NA	< 8.01	< 8.01	< 8.01	NA	< 8.01	NA	NA	NA	NA	NA
Diphenylamine	< 2.49	< 2.37	NA	NA	< 2.9	< 3.0	NA	NA	NA	NA	< 2.37	< 2.37	< 2.37	NA	< 2.37	NA	< 2.9	NA	NA	NA
Ethyl methanesulfonate	< 0.342	< 0.326	NA	NA	< 2.9	< 3.0	NA	NA	NA	NA	< 0.326	< 0.326	< 0.326	NA	< 0.326	NA	< 2.9	NA	NA	NA
Fluoranthene	< 0.107	< 0.102	0.047 J	0.043 J	< 0.75	< 0.020	< 0.020	< 0.02	0.7	1.6	2.16	< 0.102	0.189 J	0.344 J	< 0.102	0.074 J	< 0.75	NA	< 0.020	0.039 J
Fluorene	< 0.0886	< 0.0844	2.8	2.5	< 0.54	< 0.021	< 0.021	< 0.021	4.8	6.2	1.99	< 0.0844	< 0.0844	< 0.0844	< 0.0844	< 0.02	< 0.54	NA	< 0.021	0.024 J
Hexachlorobenzene	< 0.0793	< 0.0755	NA	NA	< 0.24	< 1.0	NA	NA	NA	NA	< 0.0755	< 0.0755	< 0.0755	NA	< 0.0755	NA	< 0.24	NA	NA	NA
Hexachlorobutadiene	< 0.102	< 0.0968	NA	NA	< 3.5	< 1.0	NA	NA	NA	NA	< 0.0968	< 0.0968	< 0.0968	NA	< 0.0968	NA	< 3.5	NA	NA	NA
Hexachlorocyclopentadiene	< 0.0628	< 0.0598	NA	NA	< 2.5	< 2.6	NA	NA	NA	NA	< 0.0598	< 0.0598	< 0.0598	NA	< 0.0598	NA	< 2.5	NA	NA	NA
Hexachloroethane	< 0.133	< 0.127	< 4.2	< 4.0	< 4.1	< 4.8	< 4.2	< 4.1	< 4.5	< 5.2	< 0.127	< 0.127	< 0.127	< 0.127	< 0.127	< 4.0	< 4.1	NA	< 4.8	< 4.2
Hexachlorophene	< 1.51	< 1.44	NA	NA	< 97	< 100	NA	NA	NA	NA	< 1.44	< 1.44	< 1.44	NA	< 1.44	NA	< 97	NA	NA	NA
Hexachloropropene	< 0.156	< 0.149	NA	NA	< 1.9	< 2.0	NA	NA	NA	NA	< 0.149	< 0.149	< 0.149	NA	< 0.149	NA	< 1.9	NA	NA	NA
Indeno(1,2,3-cd)pyrene	< 0.293	< 0.279	< 0.04	< 0.038	< 0.99	< 0.092	< 0.040	< 0.039	< 0.043	< 0.050	< 0.279	< 0.279	< 0.279	< 0.279	< 0.279	< 0.038	< 0.99	NA	< 0.092	< 0.040
Isodrin	< 4.32	< 4.11	NA	NA	< 2.9	< 3.0	NA	NA	NA	NA	< 4.11	< 4.11	< 4.11	NA	< 4.11	NA	< 2.9	NA	NA	NA
Isophorone	< 0.150	< 0.143	NA	NA	< 0.55	< 0.57	NA	NA	NA	NA	< 0.143	< 0.143	< 0.143	NA	< 0.143	NA	< 0.55	NA	NA	NA
Isosafrole	< 4.07	< 3.88	NA	NA	< 2.9	< 3.0	NA	NA	NA	NA	< 3.88	< 3.88	< 3.88	NA	< 3.88	NA	< 2.9	NA	NA	NA
Kepone	< 2.79	< 2.66	NA	NA	< 0.19	< 0.20	NA	NA	NA	NA	< 2.66	< 2.66	< 2.66	NA	< 2.66	NA	< 0.19	NA	NA	NA
Methapyrilene	< 10.5	< 10.0	NA	NA	< 7.8	< 8.0	NA	NA	NA	NA	< 10.0	< 10 R	< 10 R	NA	< 10.0	NA	< 7.8	NA	NA	NA
Methyl methanesulfonate	< 3.57	< 3.40	NA	NA	< 2.9	< 3.0	NA	NA	NA	NA	< 3.40	< 3.4	< 3.4	NA	< 3.40	NA	< 2.9	NA	NA	NA
Naphthalene	< 0.167	< 0.159	0.069 J	0.049 J	< 0.61	< 0.62	< 0.020	< 0.02	0.44	2.5 B	0.754 J	< 0.159	< 0.159	< 0.159	< 0.159	< 0.019	< 0.61	NA	< 0.62	0.043 J

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	31-DR 6/12/2023	31-DR 6/12/2023 Duplicate	31-IR 6/26/2013	31-IR 6/26/2013 Duplicate	31-IR 6/19/2014	31-IR 6/5/2015 App. IX Well	31-IR 6/21/2016	31-IR 6/5/2017	31-IR 6/6/2018	31-IR 6/11/2019	31-IR 6/11/2020 App. IX Well	31-IR 6/14/2021	31-IR 6/14/2021 Duplicate	31-IR 6/20/2022	31-IR 6/12/2023	32-I 6/26/2013	32-I 6/16/2014	32-I 9/4/2014 Resample	32-I 6/5/2015	32-I 6/20/2016
Nitrobenzene	< 0.312	< 0.297	NA	NA	< 0.53	< 0.55	NA	NA	NA	NA	< 0.297	< 0.297	< 0.297	NA	< 0.297	NA	< 0.53	NA	NA	NA
N-Nitrosodiethylamine	< 3.75	< 3.57	NA	NA	< 4.7	< 4.8	NA	NA	NA	NA	< 3.57	< 3.57	< 3.57	NA	< 3.57	NA	< 4.7	NA	NA	NA
N-Nitrosodimethylamine	< 1.05	< 0.998	NA	NA	< 3.4	< 1.0	NA	NA	NA	NA	< 0.998	< 0.998	< 0.998	NA	< 0.998	NA	< 3.4	NA	NA	NA
N-Nitrosodi-n-butylamine	< 4.11	< 3.91	NA	NA	< 4.2	< 4.3	NA	NA	NA	NA	< 3.91	< 3.91	< 3.91	NA	< 3.91	NA	< 4.2	NA	NA	NA
N-Nitrosodi-n-propylamine	< 0.274	< 0.261	NA	NA	< 3.2	< 1.0	NA	NA	NA	NA	< 0.261	< 0.261	< 0.261	NA	< 0.261	NA	< 3.2	NA	NA	NA
N-Nitrosodiphenylamine	< 2.49	< 2.37	< 0.18	< 0.17	< 0.46	< 0.47	< 0.47	< 0.46	< 0.5	< 0.58	< 2.37	< 2.37	< 2.37	< 2.37	< 2.37	< 0.17	< 0.46	NA	< 0.47	< 0.47
N-Nitrosomethylethylamine	< 3.41	< 3.25	NA	NA	< 2.9	< 3.0	NA	NA	NA	NA	< 3.25	< 3.25	< 3.25	NA	< 3.25	NA	< 2.9	NA	NA	NA
N-Nitrosomorpholine	< 3.41	< 3.25	NA	NA	< 3.9	< 4.0	NA	NA	NA	NA	< 3.25	< 3.25	< 3.25	NA	< 3.25	NA	< 3.9	NA	NA	NA
N-Nitrosopiperidine	< 3.91	< 3.72	NA	NA	< 3.9	< 4.0	NA	NA	NA	NA	< 3.72	< 3.72	< 3.72	NA	< 3.72	NA	< 3.9	NA	NA	NA
N-Nitrosopyrrolidine	< 3.56	< 3.39	NA	NA	< 4.9	< 5.0	NA	NA	NA	NA	< 3.39	< 3.39	< 3.39	NA	< 3.39	NA	< 4.9	NA	NA	NA
O,O,O-Triethyl Phosphorothioate	< 3.08	< 2.93	NA	NA	< 3.9	< 4.0	NA	NA	NA	NA	NA	< 2.93	< 2.93	NA	< 2.93	NA	< 3.9	NA	NA	NA
Pentachlorobenzene	< 4.36	< 4.15	NA	NA	< 1.9	< 2.9	NA	NA	NA	NA	< 4.15	< 4.15	< 4.15	NA	< 4.15	NA	< 1.9	NA	NA	NA
Pentachloroethane	NA	NA	NA	NA	< 1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.9	NA	NA	NA
Pentachloronitrobenzene	< 4.36	< 4.15	NA	NA	< 2.9	< 3.0	NA	NA	NA	NA	< 4.15	< 4.15	< 4.15	NA	< 4.15	NA	< 2.9	NA	NA	NA
Pentachlorophenol	< 0.329	< 0.313	< 1.4	< 1.3	< 1.8	< 1.8	< 1.8	< 1.8	< 1.9	< 2.2	< 0.313	< 0.313	< 0.313	< 0.313	< 0.313	< 1.3	< 1.8	NA	< 1.8	< 1.8
Phenacetin	< 4.89	< 4.66	NA	NA	< 2.9	< 3.0	NA	NA	NA	NA	< 4.66	< 4.66	< 4.66	NA	< 4.66	NA	< 2.9	NA	NA	NA
Phenanthrene	0.148 J	0.186 J	1.0	0.88	< 0.4	< 0.020	< 0.020	< 0.02	8.0	16	4.77	< 0.112	< 0.112	< 0.112	< 0.112	0.056 J	< 0.4	NA	< 0.020	< 0.020
Phenol	< 4.55	< 4.33	< 2.6	< 2.5	< 2.5	< 2.6	< 2.6	< 2.6	< 2.8	< 3.2	< 4.33	< 4.33	< 4.33	< 4.33	< 4.33	< 2.5	< 2.5	NA	< 2.6	< 2.6
P-Phenylenediamine	< 406	< 387	NA	NA	< 0.97	< 1.0	NA	NA	NA	NA	< 387 R	< 387 R	< 387 R	NA	< 387	NA	< 0.97	NA	NA	NA
Pronamide (Kerb)	< 4.42	< 4.21	NA	NA	< 2.9	< 3.0	NA	NA	NA	NA	< 4.21	< 4.21	< 4.21	NA	< 4.21	NA	< 2.9	NA	NA	NA
Pyrene	< 0.112	< 0.107	0.035 J	0.032 J	< 1.1	< 0.020	< 0.020	< 0.02	0.17 J	0.86	1.16	< 0.107	0.14 J	0.276 J	< 0.107	0.08 J	< 1.1	NA	< 0.020	< 0.020
Pyridine	< 0.658	< 0.627	NA	NA	< 3.1	< 3.2	NA	NA	NA	NA	< 0.627	< 0.627	< 0.627	NA	< 0.627	NA	< 3.1	NA	NA	NA
Safrole	< 3.86	< 3.68	NA	NA	< 3.9	< 4.0	NA	NA	NA	NA	< 3.68	< 3.68	< 3.68	NA	< 3.68	NA	< 3.9	NA	NA	NA
Sulfide - EPA846 376.1, SM4500-S2-D, mg/L																				
Sulfide	< 0.012	< 0.012	NA	NA	< 0.036	< 0.036	< 0.036	< 0.057	< 0.057	< 0.057	< 0.0062	< 0.011	< 0.011	< 0.0040	< 0.012	NA	< 0.036	NA	0.036 J	< 0.036
Volatile Organic Compounds - SW846 8260B, 8260C, ug/L																				
1,1,1,2-Tetrachloroethane	< 0.147	< 0.147	NA	NA	< 0.52	< 0.52	NA	NA	NA	NA	< 0.147	< 0.147	< 0.147	NA	< 0.147	NA	< 0.52	NA	NA	NA
1,1,1-Trichloroethane	< 0.149	< 0.149	NA	NA	< 0.5	< 0.50	NA	NA	NA	NA	< 0.149	< 0.149	< 0.149	NA	< 0.149	NA	< 0.5	NA	NA	NA
1,1,2,2-Tetrachloroethane	< 0.133	< 0.133	NA	NA	< 0.5	< 0.50	NA	NA	NA	NA	< 0.133	< 0.133	< 0.133	NA	< 0.133	NA	< 0.5	NA	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.180	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	< 0.158	< 0.158	NA	NA	< 0.5	< 0.50	NA	NA	NA	NA	< 0.158	< 0.158	< 0.158	NA	< 0.158	NA	< 0.5	NA	NA	NA
1,1-Dichloroethane	< 0.100	< 0.100	NA	NA	1.2	13	1.2	0.5 J	< 0.5	< 0.50	< 0.100	< 0.1	< 0.1	< 0.1	< 0.100	NA	4.7	3.8	5.9	4.1
1,1-Dichloroethene	< 0.188	< 0.188	NA	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.188	< 0.188	< 0.188	< 0.188	< 0.188	NA	< 0.5	NA	< 0.50	< 0.50
1,1-Dichloropropene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.142	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.230	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	< 0.237	< 0.237	NA	NA	< 0.84	< 0.84	NA	NA	NA	NA	< 0.237	< 0.237	< 0.237	NA	< 0.237	NA	< 0.84	NA	NA	NA
1,2,3-Trimethylbenzene	< 0.104	< 0.104	NA	NA	NA	NA	NA	NA	NA	NA	< 0.104	< 0.104	< 0.104	NA	< 0.104	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.481	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.322	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NA	NA	NA	NA	< 1.5	< 1.5	NA	NA	NA	NA	< 0.276	< 0.276	< 0.276	NA	NA	NA	< 1.5	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	NA	NA	NA	NA	< 0.5	< 0.50	NA	NA	NA	NA	< 0.126	< 0.126	< 0.126	NA	NA	NA	< 0.5	NA	NA	NA
1,2-Dichlorobenzene	< 0.107	< 0.107	NA	NA	NA	< 0.50	NA	NA	NA	NA	< 0.107	NA	NA	NA	< 0.107	NA	NA	NA	NA	NA
1,2-Dichloroethane	< 0.0819	< 0.0819	NA	NA	< 0.5	< 0.50	NA	NA	NA	NA	< 0.0819	< 0.0819	< 0.0819	NA	< 0.0819	NA	< 0.5	NA	NA	NA
1,2-Dichloropropane	< 0.149	< 0.149	NA	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.149	< 0.149	< 0.149	< 0.149	< 0.149	NA	< 0.5	NA	< 0.50	< 0.50
1,3,5-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.104	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Butadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.299	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.110	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.110	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.120	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane (p-Dioxane)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 36.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7.30 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2,4-Trimethylpentane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.391	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.161	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone (Methyl ethyl ketone)	< 1.19	< 1.19	NA	NA	< 2.6	< 2.6	NA	NA	NA	NA	< 1.19	< 1.19	< 1.19	NA	< 1.19	NA	< 2.6	NA	NA	NA
2-Chloro-1,3-Butadiene	< 1.45	< 1.45	NA	NA	< 0.7	< 0.70	NA	NA	NA	NA	< 1.45	< 1.45	< 1.45	NA	< 1.45	NA	< 0.7	NA	NA	NA
2-Chloroethyl vinyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.575	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.106	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	< 0.787	< 0.787	NA	NA	< 3.1	< 3.1	NA	NA	NA	NA	< 0.787	< 0.787	< 0.787	NA	< 0.787	NA	< 3.1	NA	NA	NA
2-Methyl-1-Propanol (isobutyl alcohol)	< 42.1	< 42.1	NA	NA	< 8.5	< 10	NA	NA	NA	NA	< 42.1	< 42.1	< 42.1	NA	< 42.1	NA	< 8.5	NA	NA	NA
2-Methyl-2-Butanol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.90	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7.18 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.75	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorotoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.114	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Isopropyltoluene (Cymene)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.120	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	< 11.3	< 11.3	NA	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 11.3	< 11.3	< 11.3	< 11.3	< 11.3	NA	< 10	NA	< 10	< 10
Acetonitrile	< 24.0	< 24.0	NA	NA	< 12	< 12	NA	NA	NA	NA	< 24.0	< 24	< 24	NA	< 24.0	NA	< 12	NA	NA	NA
Acrolein	< 2.54	< 2.54	NA	NA	< 10	< 10	NA	NA	NA	NA	< 2.54	< 2.54	< 2.54	NA	< 2.54	NA	< 10	NA	NA	NA
Acrylonitrile	< 0.671	< 0.671	NA	NA	< 2.8	< 2.8	NA	NA	NA	NA	< 0.671	< 0.671	< 0.671	NA	< 0.671	NA	< 2.8	NA	NA	NA
Allyl chloride (3-Chloropropene)	< 0.500	< 0.500	NA	NA	< 1.0	< 1.0	NA	NA	NA	NA	< 0.500	< 0.5	< 0.5	NA	< 0.500	NA	< 1.0	NA	NA	NA
Benzene	< 0.0941	< 0.0941	< 0.34	< 0.34	1.6 J	1.8	< 0.38	< 0.38	< 0.38	< 0.38	< 0.0941	< 0.0941	< 0.0941	< 0.0941	< 0.0941	< 0.34	< 0.34	NA	< 0.38	< 0.38
Bromobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.118	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane (Dichlorobromomethane)	< 0.136	< 0.136	NA	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.136	< 0.136	< 0.136	< 0.136	< 0.136	NA	< 0.5	NA	< 0.50	< 0.50
Bromoform (Tribromomethane)	< 0.129	< 0.129	NA	NA	< 0.71	< 0.71	NA	NA	NA	NA	< 0.129	< 0.129	< 0.129	NA	< 0.129	NA	< 0.71	NA	NA	NA
Bromomethane (Methyl bromide)	< 0.605	< 0.605	NA	NA	< 0.98	< 0.98	NA	NA	NA	NA	< 0.605	< 0.605	< 0.605	NA	< 0.605	NA	< 0.98	NA	NA	NA
Carbon disulfide	< 0.0962	< 0.0962	NA	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.0962	< 0.0962	< 0.0962	< 0.0962	< 0.0962	NA	< 0.5	NA	< 0.50	< 0.50
Carbon tetrachloride	< 0.128	< 0.128	NA	NA	< 0.5	< 0.50	NA	NA	NA	NA	< 0.128	< 0.128	< 0.128	NA	< 0.128	NA	< 0.5	NA	NA	NA
Chlorobenzene	< 0.116	< 0.116	NA	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.116	< 0.116	< 0.116	< 0.116	< 0.116	NA	< 0.5	NA	< 0.50	< 0.50
Chlorobromomethane (Bromochloromethane)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.128	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorodibromomethane (Dibromochloromethane)	< 0.140	< 0.140	NA	NA	< 0.5	< 0.50	NA	NA	NA	NA	< 0.140	< 0.14	< 0.14	NA	< 0.140	NA	< 0.5	NA	NA	NA

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	31-DR 6/12/2023	31-DR 6/12/2023 Duplicate	31-IR 6/26/2013	31-IR 6/26/2013 Duplicate	31-IR 6/19/2014	31-IR 6/5/2015 App. IX Well	31-IR 6/21/2016	31-IR 6/5/2017	31-IR 6/6/2018	31-IR 6/11/2019	31-IR 6/11/2020 App. IX Well	31-IR 6/14/2021	31-IR 6/14/2021 Duplicate	31-IR 6/20/2022	31-IR 6/12/2023	32-I 6/26/2013	32-I 6/16/2014	32-I 9/4/2014 Resample	32-I 6/5/2015	32-I 6/20/2016
Chloroethane	< 0.192	< 0.192	NA	NA	< 0.76	< 0.76	NA	NA	NA	NA	< 0.192	< 0.192	< 0.192	NA	< 0.192	NA	< 0.76	NA	NA	NA
Chloroform	< 0.111	< 0.111	NA	NA	< 0.6	< 0.60	< 0.60	< 0.6	< 0.6	< 0.60	< 0.111	0.115 J	0.875 J	< 0.111	< 0.111	NA	< 0.6	NA	< 0.60	< 0.60
Chloromethane (Methyl chloride)	< 0.960	< 0.960	NA	NA	< 0.83	< 0.83	NA	NA	NA	NA	< 0.960	< 0.96	< 0.96	NA	< 0.960	NA	< 0.83	NA	NA	NA
cis-1,2-Dichloroethene	< 0.126	< 0.126	NA	NA	NA	11	< 0.50	< 0.5	< 0.5	< 0.50	< 0.126	< 0.126	< 0.126	< 0.126	< 0.126	NA	NA	NA	8.1	4.8
cis-1,3-Dichloropropene	< 0.111	< 0.111	NA	NA	< 0.5	< 0.50	NA	NA	NA	NA	< 0.111	< 0.111	< 0.111	NA	< 0.111	NA	< 0.5	NA	NA	NA
Cyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.188	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyclohexanone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibromomethane (Methylene bromide)	< 0.122	< 0.122	NA	NA	< 0.59	< 0.59	NA	NA	NA	NA	< 0.122	< 0.122	< 0.122	NA	< 0.122	NA	< 0.59	NA	NA	NA
Dichlorodifluoromethane (Freon 12)	< 0.374	< 0.374	NA	NA	< 0.85	< 0.85	NA	NA	NA	NA	< 0.374	< 0.374	< 0.374	NA	< 0.374	NA	< 0.85	NA	NA	NA
Dichloromonofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.130	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dicyclopentadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.253	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethanol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 42.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.59	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl methacrylate	< 1.48	< 1.48	NA	NA	< 0.6	< 0.60	NA	NA	NA	NA	< 1.48	< 1.48	< 1.48	NA	< 1.48	NA	< 0.6	NA	NA	NA
Ethylbenzene	< 0.173	< 0.173	NA	NA	< 0.5	0.52 J	< 0.50	< 0.5	< 0.5	< 0.50	< 0.137	< 0.173	< 0.173	< 0.173	< 0.173	NA	< 0.5	NA	< 0.50	< 0.50
Hexachlorobutadiene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.337	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.316	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane (Methyl iodide)	< 6.00	< 6.00	NA	NA	< 0.68	< 0.68	NA	NA	NA	NA	< 6.00	< 6	< 6	NA	< 6.00	NA	< 0.68	NA	NA	NA
Isopropyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.65	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.105	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene (Cumene)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.105	NA	NA	NA	NA	NA	NA	NA	NA	NA
m+p-Xylenes	1.41 J	1.64 J	NA	NA	NA	NA	NA	NA	NA	NA	< 0.430	< 0.43	< 0.43	< 0.43	< 0.430	NA	NA	NA	NA	NA
Methyl acetate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.29	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl isobutyl ketone (4-Methyl-2-pentanone)	< 0.478	< 0.478	NA	NA	< 1.8	< 1.8	NA	NA	NA	NA	< 0.478	< 0.478	< 0.478	NA	< 0.478	NA	< 1.8	NA	NA	NA
Methyl methacrylate	< 1.52	< 1.52	NA	NA	< 5.0	< 5.0	NA	NA	NA	NA	< 1.52	< 1.52	< 1.52 UJ	NA	< 1.52	NA	< 5.0	NA	NA	NA
Methyl tertiary butyl ether (MTBE)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.101	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylacrylonitrile	< 14.2	< 14.2	NA	NA	< 6.0	< 6.0	NA	NA	NA	NA	< 14.2	< 14.2	< 14.2	NA	< 14.2	NA	< 6.0	NA	NA	NA
Methylcyclohexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.660	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride (Dichloromethane)	< 0.430	< 0.430	NA	NA	< 3.0	< 3.0	NA	NA	NA	NA	< 0.430	< 0.43	< 0.43	NA	< 0.430	NA	< 3.0	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.15 J	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 150	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.157	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Heptane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.373	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Hexane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.749	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0993	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	< 0.174	< 0.174	NA	NA	NA	NA	NA	NA	NA	NA	< 0.174	< 0.174	< 0.174	< 0.174	< 0.174	NA	NA	NA	NA	NA
Pentachloroethane	< 2.30	< 2.30	NA	NA	NA	< 0.60	NA	NA	NA	NA	< 2.30	< 2.3	< 2.3	NA	< 2.30	NA	NA	NA	NA	NA
Propionitrile	< 16.2	< 16.2	NA	NA	< 7.0	< 7.0	NA	NA	NA	NA	< 16.2	< 16.2	< 16.2	NA	< 16.2	NA	< 7.0	NA	NA	NA
Propylene (Propene)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.936	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene (2-Phenylbutane)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.125	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	< 0.118	< 0.118	NA	NA	< 1.0	< 1.0	NA	NA	NA	NA	< 0.118	< 0.118	< 0.118	NA	< 0.118	NA	< 1.0	NA	NA	NA
tert-Amyl methyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.195	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tert-buty formate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.51	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butyl alcohol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.06	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butyl ethyl ether	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.101	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.127	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene (PCE)	< 0.300	< 0.300	NA	NA	< 0.58	< 0.58	NA	NA	NA	NA	< 0.300	< 0.3	< 0.3	NA	< 0.300	NA	< 0.58	NA	NA	NA
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.929	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	< 0.278	< 0.278	NA	NA	< 0.7	< 0.70	< 0.70	< 0.7	< 0.7	< 0.41	< 0.278	< 0.278	< 0.278	< 0.278	< 0.278	NA	< 0.7	NA	< 0.70	< 0.70
trans-1,2-Dichloroethene	< 0.149	< 0.149	NA	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.149	< 0.149	< 0.149	< 0.149	< 0.149	NA	< 0.5	NA	< 0.50	< 0.50
trans-1,3-Dichloropropene	< 0.118	< 0.118	NA	NA	< 0.5	< 0.50	NA	NA	NA	NA	< 0.118	< 0.118	< 0.118	NA	< 0.118	NA	< 0.5	NA	NA	NA
trans-1,4-Dichlorobutene	< 0.467	< 0.467	NA	NA	< 1.0	< 1.0	NA	NA	NA	NA	< 0.467	< 0.467	< 0.467	NA	< 0.467	NA	< 1.0	NA	NA	NA
Trichloroethene (TCE)	< 0.190	< 0.190	NA	NA	< 0.5	< 0.50	0.69 J	< 0.5	< 0.5	< 0.50	< 0.190	< 0.19	< 0.19	< 0.19	< 0.190	NA	2.5	3.0	3.7	2.9
Trichlorofluoromethane (Freon 11)	< 0.160	< 0.160	NA	NA	< 0.52	< 0.52	NA	NA	NA	NA	< 0.160	< 0.16	< 0.16	NA	< 0.160	NA	< 0.52	NA	NA	NA
Vinyl acetate	< 0.692	< 0.692	NA	NA	< 2.0	< 2.0	NA	NA	NA	NA	< 0.692	< 0.692	< 0.692	NA	< 0.692	NA	< 2.0	NA	NA	NA
Vinyl chloride	< 0.234	< 0.234	NA	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.234	< 0.234	< 0.234	< 0.234	< 0.234	NA	1.1	< 0.5	< 0.50	< 0.50
Xylenes, Total	1.41 J	1.64 J	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 0.174	< 0.174	< 0.174	< 0.174	< 0.174	< 1.6	< 1.6	NA	< 1.6	< 1.6

Notes:
mg/L = milligrams per liter
pg/L = picograms per liter
ug/L = micrograms per liter
2014 event performed in accordance with previous permit, with Appendix IX sampling at all program wells every 5 years; subsequent events perfomed annually at rotating list of wells per current permit

Data Qualifier Definitions:
B = The analyte was positively identified, the associated numerica value is estimated due to blank contamination
I = Interference present
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
NA = Not Analyzed
R = The sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified
U = The analyte was analyzed for but was not detected at a concentration greater than the reported sample quantitation limit
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample
< = Not detected at or above the associated Method Detection Limit
As described in annual CMERs, the constituents presented represent the established permit list in effect at time of sampling, and varies annually based on additional Appendix IX detections.
DQE flags may vary by lab and based on professional judgement applied by DQE analyst.

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	32-I 6/5/2017	32-I 6/4/2018	32-I 6/10/2019	32-I 6/11/2020	32-I 6/14/2021	32-I 6/20/2022	32-I 6/12/2023	32-S 6/27/2013	32-S 6/17/2014	32-S 6/4/2015	32-S 6/20/2016	32-S 6/5/2017	32-S 6/4/2018	32-S 6/10/2019	32-S 6/11/2020	32-S 6/11/2020 Duplicate	32-S 6/14/2021	32-S 6/20/2022	32-S 6/12/2023
1,2-Dibromoethane - SW846 8011, ug/L																			
1,2-Dibromo-3-Chloropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorinated Herbicides - SW846 8151, 8151A, 8321, ug/L																			
2,2-Dichloropropionic acid (Dalapon)	NA	NA	NA	< 0.344	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.344	< 0.344	NA	NA	NA
2,4,5-T	NA	NA	NA	< 0.258	< 0.258	NA	< 0.573	NA	< 0.04	NA	NA	NA	NA	NA	< 0.258	< 0.258	< 0.258	NA	< 0.573
2,4,5-TP (Silvex)	< 0.0036	< 0.0073	< 0.0073	< 0.335	< 0.335	< 0.335	< 0.807	NA	< 0.018	< 0.018	< 0.036	< 0.0036	< 0.0073	< 0.0073	< 0.335	< 0.335	< 0.335	< 0.335	< 0.807
2,4-D	NA	NA	NA	< 0.547	< 0.547	NA	< 1.00	NA	< 0.26	NA	NA	NA	NA	NA	< 0.547	< 0.547	< 0.547	NA	< 1.00
2,4-DB	NA	NA	NA	< 0.302	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.302	< 0.302	NA	NA	NA
Dicamba	NA	NA	NA	< 0.245	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.245	< 0.245	NA	NA	NA
Dichlorprop	NA	NA	NA	< 1.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.04	< 1.04	NA	NA	NA
Dinoseb	NA	NA	NA	< 0.250	NA	NA	NA	NA	< 0.16	NA	NA	NA	NA	NA	< 0.250	< 0.250	NA	NA	NA
MCPA (2-Methyl-4-Chlorophenoxyacetic acid)	NA	NA	NA	< 13.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 13.1	< 13.1	NA	NA	NA
MCPP	NA	NA	NA	< 66.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 66.0	< 66.0	NA	NA	NA
Cyanide - EPA 846 9012A, EPA 335.2, 335.4, mg/L																			
Cyanide	NA	NA	NA	NA	NA	0.0023 U	< 0.0069	NA	< 0.0035	NA	NA	NA	NA	NA	NA	NA	NA	0.00890 J	< 0.0069
Dioxins/Furans - SW846 8290, 8290A, pg/L																			
1,2,3,4,6,7,8,9-OCDD (OCDD)	7.0 J	75 J	24 U	< 3.9	86 J	< 1.1	< 4.0	NA	NA	31 J	12 J	8.7 J	31 J	23 U	< 5.0	< 5.8	27 BJ J	< 1.5	64 J
1,2,3,4,6,7,8,9-OCDF (OCDF)	3.5 J	3.9 J	< 2.7	< 5.5	< 11	< 1.4	< 4.5	NA	NA	< 0.92	1.6 J	4.8 J	3.5 J	< 1.5	< 5.1	< 2.5	< 6.0	< 1.5	< 4.4
1,2,3,4,6,7,8-HpCDD	2.0 J	10 J	3.0 J	< 2.7	< 6.4	< 1.1	6.5 J	NA	NA	2.7 J	1.5 J	2.6 J	3.3 J	2.1 J	< 2.9	< 1.6	< 4.3	< 0.76	< 5.2
1,2,3,4,6,7,8-HpCDF	1.4 J	0.85 J	< 1.5	< 1.9	< 3.9	< 4.6 UJ	< 6.3	NA	NA	< 0.47	0.50 J	2.0 J	0.91 J	< 1.0	< 2.0	< 1.3	< 2.4	< 3.5 UJ	< 1.8
1,2,3,4,7,8,9-HpCDF	< 1.0	3.1 J	< 1.8	< 3.0	< 7.9	< 9.9 UJ	< 9.1	NA	NA	NA	NA	2.6 J	3.8 J	< 1.3	< 3.0	< 1.5	< 3.8	< 2	< 2.6
1,2,3,4,7,8-HxCDD	NA	NA	< 1.5	< 1.9	< 4.0	< 1.1	< 4.5	NA	< 0.76	NA	NA	NA	NA	1.2 J	< 2.1	< 0.58	< 2.0	< 0.26	< 2.0
1,2,3,4,7,8-HxCDF	NA	NA	< 1.3	< 1.3	< 3.8	< 0.56	< 1.5	NA	< 0.45	NA	NA	NA	NA	< 0.93	< 1.3	< 0.49	< 3.9	< 0.55 UJ	< 1.5
1,2,3,6,7,8-HxCDD	NA	NA	< 1.4	< 1.3	< 3.6	< 0.7	< 2.5	NA	< 0.75	NA	NA	NA	NA	< 0.84	< 1.4	< 0.82	< 2.8	< 0.25	< 1.1
1,2,3,6,7,8-HxCDF	NA	NA	< 1.2	< 1.2	< 2.1	< 0.37	< 1.4	NA	< 0.41	NA	NA	NA	NA	< 0.85	< 1.1	< 0.34	< 2.6	< 0.29	< 2.3
1,2,3,7,8,9-HxCDD	NA	NA	< 1.3	< 1.6	< 5.3	< 0.75	< 1.1	NA	< 0.68	NA	NA	NA	NA	< 0.83	< 2.1	< 0.58	< 2.3	< 1.0	< 1.2
1,2,3,7,8,9-HxCDF	NA	NA	< 1.5	< 1.3	< 3.8	< 0.32	< 1.2	NA	< 0.48	NA	NA	NA	NA	< 1.0	< 1.3	< 0.8	< 3.1	< 0.42	< 1.6
1,2,3,7,8-PeCDD	NA	NA	< 2.1	< 2.2	< 3.4	< 0.35	< 1.8	NA	< 1.5	NA	NA	NA	NA	< 1.3	< 1.5	< 0.83	< 3.9	< 0.45	< 1.2
1,2,3,7,8-PeCDF	NA	NA	< 1.3	< 1.0	< 4.1	< 0.31	< 1.4	NA	< 1.4	NA	NA	NA	NA	< 0.67	< 0.48	< 0.31	< 3.6	< 0.29	< 1.1
2,3,4,6,7,8-HxCDF	NA	NA	< 1.3	< 1.2	< 2.5	< 0.29	< 1.5	NA	< 0.44	NA	NA	NA	NA	< 0.92	< 1.0	< 0.48	< 2.5	< 0.25	< 1.1
2,3,4,7,8-PeCDF	NA	NA	< 1.3	< 0.45	< 3.0	< 0.21	< 1.7	NA	< 1.4	NA	NA	NA	NA	< 0.69	< 0.40	< 0.39	< 2.8	< 0.12	< 0.83
2,3,7,8-TCDD	NA	NA	< 1.7	< 1.6	< 7.9	< 0.51	< 0.93	NA	< 1.1	NA	NA	NA	NA	< 0.91	< 0.86	< 0.68	< 8.4	< 0.35	< 0.93
2,3,7,8-TCDF	NA	NA	< 1.0	< 2.1	< 8.1	< 0.36	< 0.64	NA	< 0.55	NA	NA	NA	NA	< 0.54	< 1.0	< 0.39	< 5.7	< 0.34	< 0.72
TEQ-WHO 2005	NA	NA	NA	NA	NA	NA	0.081	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.019
Total HpCDD	3.7 J	63 B	18 J	< 2.7	38 J	< 1.1	29 J	NA	NA	19 J	3.4 J	4.4 J	16 J	13 J	< 2.9	3.0 J U	11 J	< 0.76	25 J
Total HpCDF	1.4 J	6.4 J	< 1.8	< 1.9	< 3.9	< 4.6	< 6.3	NA	NA	< 0.57	0.50 J	4.6 J	6.0 J	< 1.3	< 2.0	< 1.3	< 2.4	< 2.0	< 1.8
Total HxCDD	3.6 J	16 J	< 1.5	< 1.3	< 3.6	< 0.7	< 1.1	NA	< 0.76	< 0.67	< 1.9	9.9 J	1.7 J	1.2 J	< 1.4	< 0.58	< 2.0	< 0.25	< 1.1
Total HxCDF	1.2 J	3.4 J	< 1.5	< 1.2	< 2.1	< 0.29	< 1.2	NA	< 0.48	< 0.25	< 1.9	9.0 J	4.3 J	< 1.0	< 1.0	< 0.34	< 2.5	< 0.25	< 1.1
Total PeCDD	NA	NA	< 2.1	< 2.2	< 3.4	< 0.35	< 1.8	NA	< 1.5	NA	NA	NA	NA	< 1.3	< 1.5	< 0.83	< 3.9	< 0.45	< 1.2
Total PeCDF	NA	NA	< 1.3	< 0.45	< 3.0	< 0.21	< 1.4	NA	< 1.4	NA	NA	NA	NA	< 0.69	< 0.4	< 0.31	< 2.8	< 0.12	< 0.83
Total TCDD	< 0.65	< 2.1	< 1.7	< 1.6	< 7.9	< 0.51	< 0.93	NA	< 1.1	0.94 J	1.0 J	0.96 J	1.1 J	< 1.3	< 0.86	< 0.68	< 8.4	< 0.35	< 0.93
Total TCDF	NA	NA	< 1.0	< 2.1	< 8.1	< 0.36	< 0.64	NA	< 0.55	NA	NA	NA	NA	< 0.54	< 1.0	< 0.39	< 5.7	< 0.34	< 0.72
Mercury, Total - SW846 7470, 7470A, mg/L																			
Mercury	< 0.00007	< 0.00007	< 0.000070	NA	< 0.00010	< 0.00010	< 0.00010	NA	< 0.000091	< 0.00007	< 0.000070	< 0.00007	< 0.00007	< 0.000070	NA	NA	< 0.00010	< 0.00010	< 0.00010
Metals, Total - SW846 6010C, 6020, 6020A, mg/L																			
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	NA	NA	NA	NA	< 0.00063	< 0.00063	< 0.00034	NA	< 0.01	NA	NA	NA	NA	NA	NA	NA	< 0.00063	< 0.00063	< 0.00034
Arsenic	0.00072	0.014	0.0098	0.0064	0.0090	0.0076	0.0081	< 0.004	< 0.004	< 0.00066	0.00069 J	0.00061	0.00075	0.00030 J	< 0.0002	< 0.0002	0.00025 J	< 0.00020	0.00016 J
Barium	0.014	0.09	0.077	0.0595	0.0693	0.060	0.059	NA	0.14	0.13	0.11	0.13	0.13	0.099	0.105	0.108	0.0712	0.080	0.089
Beryllium	NA	NA	NA	NA	< 0.00012	< 0.00012	< 0.00021	NA	< 0.001	NA	NA	NA	NA	NA	NA	NA	< 0.00012	< 0.00012	< 0.00021
Cadmium	< 0.000068	< 0.000068	< 0.00025	< 0.00008	< 0.000080	< 0.000080	< 0.00019	NA	< 0.001	< 0.00059	< 0.00034	< 0.000068	< 0.000068	< 0.00025	< 0.00008	< 0.00008	< 0.000080	< 0.000080	< 0.00019
Chromium	< 0.00022	0.00042 J	< 0.0005	< 0.00062	< 0.00062	< 0.00062	< 0.00063	NA	< 0.002	< 0.00063	< 0.0011	< 0.00022	< 0.00022	< 0.0005	< 0.00062	< 0.00062	< 0.00062	0.00068 U	< 0.00063
Cobalt	0.00036 J	0.0076	0.0070	0.0073	0.0075	0.0080	0.007	NA	< 0.003	< 0.00025	< 0.00040	< 0.00008	< 0.00008	< 0.00012	< 0.00006	< 0.00006	< 0.000060	< 0.000060	< 0.00012
Copper	< 0.00042	< 0.00042	< 0.0005	< 0.00083	< 0.00083	0.0024 J	< 0.0017	0.0023 J	0.0054 J	< 0.0019	< 0.0021	< 0.00042	0.0021	< 0.0005	< 0.00083	< 0.00083	< 0.00083	< 0.00083	< 0.0017
Lead	< 0.00007	0.00017 J	< 0.00017	< 0.00007	0.00015 J	< 0.000070	< 0.00069	NA	0.0043 J	< 0.00017	< 0.00035	< 0.00007	< 0.00007	< 0.00017	< 0.00007	< 0.00007	0.00016 J	< 0.000070	< 0.00069
Nickel	< 0.00036	< 0.00036	< 0.00086	< 0.00056	< 0.00056	0.0013 J	< 0.00062	NA	< 0.003	< 0.0007	< 0.0018	< 0.00036	0.00043 J	< 0.00086	< 0.00056	< 0.00056	< 0.00056	< 0.00056	< 0.00062
Selenium	0.00014 J	0.000092 J	< 0.0023	< 0.00037	< 0.00037	< 0.00037	< 0.00026	NA	0.0042 J	< 0.00033	< 0.00024	0.00009 J	< 0.000048	0.0027 U	< 0.00037	< 0.00037	< 0.00037	< 0.00037	< 0.00026
Silver	NA	NA	NA	NA	< 0.000080	< 0.000080	< 0.00020	NA	< 0.002	NA	NA	NA	NA	NA	NA	NA	< 0.000080	< 0.000080	< 0.00020
Thallium	< 0.000017	< 0.000017	< 0.00014	< 0.00008	< 0.000080	< 0.000080	< 0.00011	NA	< 0.004	< 0.000017	< 0.000085	< 0.000017	< 0.000017	< 0.00014	< 0.00008	< 0.00008	< 0.000080	< 0.000080	< 0.00011
Tin	NA	NA	NA	NA	< 0.00043	< 0.00043	< 0.00065	NA	< 0.005	NA	NA	NA	NA	NA	NA	NA	< 0.00043	< 0.00043	0.00087 J
Vanadium	< 0.00028	< 0.00028	< 0.0013	< 0.0023	< 0.0023	< 0.0023	< 0.00023	NA	< 0.003	< 0.0022	< 0.0014	< 0.00028	< 0.00028	< 0.0013	< 0.0023	< 0.0023	< 0.0023	< 0.0023	0.00046 J
Zinc	NA	NA	NA	< 0.0044	0.0090 J	0.0093 U	< 0.0072	NA	0.015 J	< 0.014	NA	NA	NA	NA	< 0.0044	< 0.0044	< 0.0044	< 0.0044	< 0.0072
Organophosphorus Pesticides - SW846 8141, ug/L																			
Basudin, Neocidol	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorpyrifos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Coumaphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dasanit	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Demeton	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Demeton-s	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibrom	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorvos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethoate (Cygon)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Disulfoton	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPN	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethoprophos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl Parathion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fenthion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Folex	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	32-I 6/5/2017	32-I 6/4/2018	32-I 6/10/2019	32-I 6/11/2020	32-I 6/14/2021	32-I 6/20/2022	32-I 6/12/2023	32-S 6/27/2013	32-S 6/17/2014	32-S 6/4/2015	32-S 6/20/2016	32-S 6/5/2017	32-S 6/4/2018	32-S 6/10/2019	32-S 6/11/2020	32-S 6/11/2020 Duplicate	32-S 6/14/2021	32-S 6/20/2022	32-S 6/12/2023
Guthion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Malathion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl parathion	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mevinphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phorate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ronnel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfotepp	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulprofos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachlorvinphos	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetraethyl diphosphate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tokuthion (Prothiofos)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloronate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Organophosphorus Pesticides - SW846 8270-PEST, ug/L																			
Dimethoate (Cygon)	NA	NA	NA	< 5.05	< 5.05	NA	< 5.05	NA	< 3.0	NA	NA	NA	NA	NA	< 5.05	< 5.05	< 5.05	NA	< 5.05
Disulfoton	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl Parathion	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Famphur	NA	NA	NA	< 3.92	< 3.92	NA	< 3.92	NA	< 3.0	NA	NA	NA	NA	NA	< 3.92	< 3.92	< 3.92	NA	< 3.92
Methyl parathion	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phorate	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfotepp	NA	NA	NA	< 3.99	< 3.99	NA	< 3.99	NA	< 3.0	NA	NA	NA	NA	NA	< 3.99	< 3.99	< 3.99	NA	< 3.99
Thionazin	NA	NA	NA	< 4.07	< 4.07	NA	< 4.07	NA	< 3.0	NA	NA	NA	NA	NA	< 4.07	< 4.07	< 4.07	NA	< 4.07
Pesticides - SW846 8081, 8081A, 8081B, ug/L																			
4,4'-DDD	NA	NA	NA	NA	< 0.0177	NA	< 0.0177	NA	< 0.0029	NA	NA	NA	NA	NA	NA	NA	< 0.0177	NA	< 0.0177
4,4'-DDE	NA	NA	NA	NA	< 0.0154	NA	< 0.0154	NA	< 0.0021	NA	NA	NA	NA	NA	NA	NA	< 0.0154	NA	< 0.0154
4,4'-DDT	NA	NA	NA	NA	< 0.0198	NA	< 0.0198	NA	< 0.0038	NA	NA	NA	NA	NA	NA	NA	< 0.0198	NA	< 0.0198
Aldrin	NA	NA	NA	NA	< 0.0198	< 0.0198	< 0.0198	NA	< 0.0029	NA	NA	NA	NA	NA	NA	NA	< 0.0198	< 0.0198	< 0.0198
alpha-BHC	NA	NA	NA	NA	< 0.0172	NA	< 0.0172	NA	< 0.0035	NA	NA	NA	NA	NA	NA	NA	< 0.0172	NA	< 0.0172
alpha-Chlordane	NA	NA	NA	NA	< 0.0149	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0149	NA	NA
beta-BHC	NA	NA	NA	NA	< 0.0208	NA	< 0.0208	NA	< 0.0029	NA	NA	NA	NA	NA	NA	NA	< 0.0208	NA	< 0.0208
beta-Chlordane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlordane	NA	NA	NA	NA	< 0.0198	NA	< 0.0198	NA	< 0.13	NA	NA	NA	NA	NA	NA	NA	< 0.0198	NA	< 0.0198
Chlordane, technical	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzilate	NA	NA	NA	NA	NA	NA	NA	NA	< 0.038	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
delta-BHC	NA	NA	NA	NA	< 0.015	NA	< 0.0150	NA	< 0.002	NA	NA	NA	NA	NA	NA	NA	< 0.015	NA	< 0.0150
Dieldrin	NA	NA	NA	NA	< 0.0162	NA	< 0.0162	NA	< 0.0029	NA	NA	NA	NA	NA	NA	NA	< 0.0162	NA	< 0.0162
Endosulfan I	NA	NA	NA	NA	< 0.016	NA	< 0.0160	NA	< 0.0029	NA	NA	NA	NA	NA	NA	NA	< 0.016	NA	< 0.0160
Endosulfan II	NA	NA	NA	NA	< 0.0164	NA	< 0.0164	NA	< 0.0072	NA	NA	NA	NA	NA	NA	NA	< 0.0164	NA	< 0.0164
Endosulfan sulfate	NA	NA	NA	NA	< 0.0217	NA	< 0.0217	NA	< 0.002	NA	NA	NA	NA	NA	NA	NA	< 0.0217	NA	< 0.0217
Endrin	NA	NA	NA	NA	< 0.0161	NA	< 0.0161	NA	< 0.0029	NA	NA	NA	NA	NA	NA	NA	< 0.0161	NA	< 0.0161
Endrin aldehyde	NA	NA	NA	NA	< 0.0237	NA	< 0.0237	NA	< 0.0027	NA	NA	NA	NA	NA	NA	NA	< 0.0237	NA	< 0.0237
Endrin ketone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	NA	NA	NA	NA	< 0.0209	NA	< 0.0209	NA	< 0.024	NA	NA	NA	NA	NA	NA	NA	< 0.0209	NA	< 0.0209
gamma-Chlordane	NA	NA	NA	NA	< 0.0137	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0137	NA	NA
Heptachlor	NA	NA	NA	NA	< 0.0148	NA	< 0.0148	NA	< 0.003	NA	NA	NA	NA	NA	NA	NA	< 0.0148	NA	< 0.0148
Heptachlor Epoxide	NA	NA	NA	NA	< 0.0183	NA	< 0.0183	NA	< 0.0031	NA	NA	NA	NA	NA	NA	NA	< 0.0183	NA	< 0.0183
Hexachlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	NA	NA	NA	NA	< 0.0193	NA	< 0.0193	NA	< 0.004	NA	NA	NA	NA	NA	NA	NA	< 0.0193	NA	< 0.0193
Toxaphene	NA	NA	NA	NA	< 0.168	NA	< 0.168	NA	< 0.29	NA	NA	NA	NA	NA	NA	NA	< 0.168	NA	< 0.168
Phenolics - E420.1, E420.4, SW9065, mg/L																			
Total Recoverable Phenolics	0.0054 J	0.0083 J	< 0.09 R	0.013 J	0.0152 U	< 0.0250	0.011 J	< 0.0045	0.0088 J	< 0.0045	0.0094 J	0.0061 J	0.011	< 0.09	0.022 U	0.03 U	0.0132 U	< 0.0250	0.012 J
Polychlorinated Biphenyl (PCB) - SW846 8082, 8082A, ug/																			
PCB-1016	NA	NA	NA	NA	NA	NA	NA	NA	< 0.047	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1221	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1232	NA	NA	NA	NA	NA	NA	NA	NA	< 0.097	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1242	NA	NA	NA	NA	NA	NA	NA	NA	< 0.033	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1248	NA	NA	NA	NA	NA	NA	NA	NA	< 0.019	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1254	NA	NA	NA	NA	NA	NA	NA	NA	< 0.055	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1260	NA	NA	NA	NA	NA	NA	NA	NA	< 0.033	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1262	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-1268	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs, Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semi-Volatile Organic Compounds - SW846 8270C, 8270D																			
1,2,4,5-Tetrachlorobenzene	NA	NA	NA	< 0.0647	< 0.0647	NA	< 0.0647	NA	< 0.52	NA	NA	NA	NA	NA	< 0.0647	< 0.0647	< 0.0647	NA	< 0.0647
1,2,4-Trichlorobenzene	NA	NA	NA	< 0.0698	< 0.0698	NA	< 0.0698	NA	< 0.53	NA	NA	NA	NA	NA	< 0.0698	< 0.0698	< 0.0698	NA	< 0.0698
1,2-Dichlorobenzene	NA	NA	NA	< 0.0713	< 0.0713	NA	< 0.0713	NA	< 0.57	NA	NA	NA	NA	NA	< 0.0713	< 0.0713	< 0.0713	NA	< 0.0713
1,3,5-Trinitrobenzene	NA	NA	NA	< 1.32	< 1.32	NA	< 1.32	NA	< 2.0	NA	NA	NA	NA	NA	< 1.32	< 1.32	< 1.32	NA	< 1.32
1,3-Dichlorobenzene	NA	NA	NA	< 0.132	< 0.132	NA	< 0.132	NA	< 0.47	NA	NA	NA	NA	NA	< 0.132	< 0.132	< 0.132	NA	< 0.132
1,3-Dinitrobenzene	NA	NA	NA	< 0.359	< 0.359	NA	< 0.359	NA	< 1.0	NA	NA	NA	NA	NA	< 0.359	< 0.359	< 0.359	NA	< 0.359
1,4-Dichlorobenzene	NA	NA	NA	< 0.0942	< 0.0942	NA	< 0.0942	NA	< 0.52	NA	NA	NA	NA	NA	< 0.0942	< 0.0942	< 0.0942	NA	< 0.0942
1,4-Dioxane (p-Dioxane)	< 0.97	5.7 J	6.3 J	NA	8.29	6.47	5.12	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.1	< 1.3	NA	NA	< 0.0447	< 0.0447	< 0.0447
1,4-Naphthoquinone	NA	NA	NA	< 5.56 R	< 5.56 R	NA	< 5.56	NA	< 4.0	NA	NA	NA	NA	NA	< 5.56 R	< 5.56 R	< 5.56 R	NA	< 5.56
1-Methylnaphthalene	< 0.019	0.21	< 0.025	< 0.0790	< 0.079	< 0.079	< 0.0790	< 0.019	< 0.5	< 0.020	< 0.020	< 0.02	< 0.022	< 0.026	< 0.0790	< 0.0790	< 0.079	< 0.079	< 0.0790
1-Naphthylamine	< 3.9	< 4.3	< 5.0	< 0.289	< 0.289	< 0.289	< 0.289	< 2.7	< 4.0	< 4.0	< 4.0	< 4.0	< 4.4	< 5.2	< 0.289	< 0.289	< 0.289	< 0.289	< 0.289
2,2'-Oxybis(1-chloropropane)	NA	NA	NA	NA	< 0.21	NA	< 0.210	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	NA	< 0.210
2,3,4,6-Tetrachlorophenol	NA	NA	NA	< 0.231	< 0.231	NA	< 0.231	NA	< 0.64	NA	NA	NA	NA	NA	< 0.231	< 0.231	< 0.231	NA	< 0.231
2,4,5-Trichlorophenol	NA	NA	NA	< 0.109	< 0.109	NA	< 0.109	NA	< 3.7	NA	NA	NA	NA	NA	< 0.109	< 0.109	< 0.109	NA	< 0.109
2,4,6-Trichlorophenol	NA	NA	NA	< 0.100	< 0.1	NA	< 0.100	NA	< 3.5	NA	NA	NA	NA	NA	< 0.100	< 0.100	< 0.1	NA	< 0.100
2,4-Dichlorophenol	NA	NA	NA	< 0.102	< 0.102	NA	< 0.102	NA	< 3.0	NA	NA	NA	NA	NA	< 0.102	< 0.102	< 0.102	NA	< 0.102
2,4-Dimethylphenol	< 3.4	< 3.7	< 4.4	< 0.0636	< 0.0636	< 0.0636	< 0.0636	< 3.3	< 3.5	< 3.5	< 3.5	< 3.5	< 3.9	< 4.6	< 0.0636	< 0.0636	< 0.0636	< 0.0636	< 0.0636

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	32-I 6/5/2017	32-I 6/4/2018	32-I 6/10/2019	32-I 6/11/2020	32-I 6/14/2021	32-I 6/20/2022	32-I 6/12/2023	32-S 6/27/2013	32-S 6/17/2014	32-S 6/4/2015	32-S 6/20/2016	32-S 6/5/2017	32-S 6/4/2018	32-S 6/10/2019	32-S 6/11/2020	32-S 6/11/2020 Duplicate	32-S 6/14/2021	32-S 6/20/2022	32-S 6/12/2023
2,4-Dinitrophenol	NA	NA	NA	< 5.93	< 5.93	NA	< 5.93	NA	< 3.4	NA	NA	NA	NA	NA	< 5.93	< 5.93	< 5.93	NA	< 5.93
2,4-Dinitrotoluene	NA	NA	NA	< 0.0983	< 0.0983	NA	< 0.0983	NA	< 1.9	NA	NA	NA	NA	NA	< 0.0983	< 0.0983	< 0.0983	NA	< 0.0983
2,6-Dichlorophenol	NA	NA	NA	< 0.102	< 0.102	NA	< 0.102	NA	< 4.0	NA	NA	NA	NA	NA	< 0.102	< 0.102	< 0.102	NA	< 0.102
2,6-Dinitrotoluene	NA	NA	NA	< 0.250	< 0.25	NA	< 0.250	NA	< 1.9	NA	NA	NA	NA	NA	< 0.250	< 0.250	< 0.25	NA	< 0.250
2-Acetylaminofluorene	NA	NA	NA	< 0.253	< 0.253	NA	< 0.253	NA	< 4.0	NA	NA	NA	NA	NA	< 0.253	< 0.253	< 0.253	NA	< 0.253
2-Chloronaphthalene	NA	NA	NA	< 0.0648	< 0.0648	NA	< 0.0648	NA	< 0.52	NA	NA	NA	NA	NA	< 0.0648	< 0.0648	< 0.0648	NA	< 0.0648
2-Chlorophenol	NA	NA	NA	< 0.133	< 0.133	NA	< 0.133	NA	< 2.2	NA	NA	NA	NA	NA	< 0.133	< 0.133	< 0.133	NA	< 0.133
2-Methylaniline (o-Toluidine)	< 5.8	< 6.4	< 7.5	< 3.53	< 3.53	< 3.53	< 3.53	< 0.95	< 6.0	< 6.0	< 6.0	< 6.0	< 6.7	< 7.8	< 3.53	< 3.53	< 3.53	< 3.53	< 3.53
2-Methylnaphthalene	< 0.019	0.024 J	< 0.025	< 0.117	< 0.117	< 0.117	< 0.117	< 0.019	< 0.54	< 6.3	< 0.020	< 0.02	< 0.022	< 0.026	< 0.117	< 0.117	< 0.117	< 0.117	< 0.117
2-Methylphenol (o-Cresol)	NA	NA	NA	< 0.0929	< 0.0929	NA	< 0.0929	NA	< 1.8	NA	NA	NA	NA	NA	< 0.0929	< 0.0929	< 0.0929	NA	< 0.0929
2-Naphthylamine	< 3.9	< 4.3	< 5.0 UJ	< 4.48	< 4.48	< 4.48	< 4.48	< 2.8	< 4.0	< 4.0	< 4.0	< 4.0	< 4.4	< 5.2 UJ	< 4.48	< 4.48	< 4.48	< 4.48	< 4.48
2-Nitroaniline	NA	NA	NA	< 0.102	< 0.102	NA	< 0.102	NA	< 2.2	NA	NA	NA	NA	NA	< 0.102	< 0.102	< 0.102	NA	< 0.102
2-Nitrophenol	NA	NA	NA	< 0.117	< 0.117	NA	< 0.117	NA	< 0.65	NA	NA	NA	NA	NA	< 0.117	< 0.117	< 0.117	NA	< 0.117
2-Picoline	NA	NA	NA	< 6.83	< 6.83	NA	< 6.83	NA	< 6.0	NA	NA	NA	NA	NA	< 6.83	< 6.83	< 6.83	NA	< 6.83
3,3'-Dichlorobenzidine	NA	NA	NA	< 0.212	< 0.212	NA	< 0.212	NA	< 2.6	NA	NA	NA	NA	NA	< 0.212	< 0.212	< 0.212	NA	< 0.212
3,3'-Dimethylbenzidine	NA	NA	NA	< 3.39	< 3.39	NA	< 3.39	NA	< 8.0	NA	NA	NA	NA	NA	< 3.39	< 3.39	< 3.39	NA	< 3.39
3+4-Methylphenol (m,p-Cresol)	< 1.0	< 1.1	< 1.3	< 0.168	< 0.168	< 0.168	< 0.168	< 0.37	NA	< 1.0	< 1.0	< 1.0	< 1.2	< 1.4	< 0.168	< 0.168	< 0.168	< 0.168	< 0.168
3-Methylchloranthrene	NA	NA	NA	< 0.164	< 0.164	NA	< 0.164	NA	< 2.2	NA	NA	NA	NA	NA	< 0.164	< 0.164	< 0.164	NA	< 0.164
3-Methylphenol (m-Cresol)	NA	NA	NA	NA	NA	NA	NA	NA	< 0.39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	NA	NA	NA	< 0.0869	< 0.0869	NA	< 0.0869	NA	< 1.8	NA	NA	NA	NA	NA	< 0.0869	< 0.0869	< 0.0869	NA	< 0.0869
4,6-Dinitro-2-Methylphenol	NA	NA	NA	< 1.12	< 1.12	NA	< 1.12	NA	< 2.0	NA	NA	NA	NA	NA	< 1.12	< 1.12	< 1.12	NA	< 1.12
4-Aminobiphenyl	NA	NA	NA	< 0.461	< 0.461	NA	< 0.461	NA	< 4.2	NA	NA	NA	NA	NA	< 0.461	< 0.461	< 0.461	NA	< 0.461
4-Bromophenyl phenyl ether	NA	NA	NA	< 0.0877	< 0.0877	NA	< 0.0877	NA	< 0.32	NA	NA	NA	NA	NA	< 0.0877	< 0.0877	< 0.0877	NA	< 0.0877
4-Chloro-3-Methylphenol	NA	NA	NA	< 0.131	< 0.131	NA	< 0.131	NA	< 3.8	NA	NA	NA	NA	NA	< 0.131	< 0.131	< 0.131	NA	< 0.131
4-Chloroaniline	NA	NA	NA	< 0.234	< 0.234	NA	< 0.234	NA	< 3.4	NA	NA	NA	NA	NA	< 0.234	< 0.234	< 0.234	NA	< 0.234
4-Chlorophenyl phenyl ether	NA	NA	NA	< 0.0926	< 0.0926	NA	< 0.0926	NA	< 2.0	NA	NA	NA	NA	NA	< 0.0926	< 0.0926	< 0.0926	NA	< 0.0926
4-Dimethylaminoazobenzene	NA	NA	NA	< 3.69	< 3.69	NA	< 3.69	NA	< 2.3	NA	NA	NA	NA	NA	< 3.69	< 3.69	< 3.69	NA	< 3.69
4-Methylphenol (p-Cresol)	NA	NA	NA	NA	NA	NA	NA	NA	< 0.39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	NA	NA	NA	< 0.0910	< 0.091	NA	< 0.0910	NA	< 2.5	NA	NA	NA	NA	NA	< 0.0910	< 0.0910	< 0.091	NA	< 0.0910
4-Nitrophenol	NA	NA	NA	< 0.143	< 0.143	NA	< 0.143	NA	< 2.1	NA	NA	NA	NA	NA	< 0.143	< 0.143	< 0.143	NA	< 0.143
4-Nitroquinoline-N-Oxide	NA	NA	NA	< 2.03	< 2.03	NA	< 2.03	NA	< 2.0	NA	NA	NA	NA	NA	< 2.03	< 2.03	< 2.03	NA	< 2.03
5-Nitro-O-Toluidine	NA	NA	NA	< 1.99	< 1.99	NA	< 1.99	NA	< 3.0	NA	NA	NA	NA	NA	< 1.99	< 1.99	< 1.99	NA	< 1.99
7,12-Dimethylbenz(a)anthracene	NA	NA	NA	< 1.71	< 1.71	NA	< 1.71	NA	< 3.7	NA	NA	NA	NA	NA	< 1.71	< 1.71	< 1.71	NA	< 1.71
Acenaphthene	< 0.019	14	1.6 J	< 0.0886	< 0.0886	< 0.0886	< 0.0886	< 0.019	< 0.46	< 0.020	< 0.020	< 0.02	< 0.022	< 0.026	< 0.0886	< 0.0886	< 0.0886	< 0.0886	< 0.0886
Acenaphthylene	< 0.019	< 0.021	< 0.025	< 0.0921	< 0.0921	< 0.0921	< 0.0921	< 0.019	< 0.56	< 0.020	< 0.020	< 0.02	< 0.022	< 0.026	< 0.0921	< 0.0921	< 0.0921	< 0.0921	< 0.0921
Acetophenone	NA	NA	NA	< 0.208	< 0.208	NA	< 0.208	NA	< 0.62	NA	NA	NA	NA	NA	< 0.208	< 0.208	< 0.208	NA	< 0.208
alpha, alpha-Dimethylphenethylamine	NA	NA	NA	< 3.13 R	< 3.13 R	NA	< 3.13	NA	< 10	NA	NA	NA	NA	NA	< 3.13 R	< 3.13 R	< 3.13 R	NA	< 3.13
Aniline	NA	NA	NA	< 1.65	< 1.65	NA	< 1.65	NA	< 3.8	NA	NA	NA	NA	NA	< 1.65	< 1.65	< 1.65	NA	< 1.65
Anthracene	< 0.019	0.093 J	0.038 J	< 0.0804	< 0.0804	< 0.0804	< 0.0804	0.095 J	< 0.42	< 0.020	0.048 J	0.043 J	0.082 J	0.032 J	< 0.0804	< 0.0804	< 0.0804	< 0.0804	< 0.0804
Aramite	NA	NA	NA	< 16.7	< 16.7	NA	< 16.7	NA	< 2.0	NA	NA	NA	NA	NA	< 16.7	< 16.7	< 16.7	NA	< 16.7
Benzo(a)anthracene	< 0.039	0.05 J	< 0.050	< 0.199	< 0.199	< 0.199	< 0.199	0.075 J	< 0.34	< 0.092	< 0.040	< 0.04	< 0.044	< 0.052	< 0.199	< 0.199	< 0.199	< 0.199	< 0.199
Benzo(a)pyrene	< 0.039	< 0.043	< 0.050	< 0.0381	< 0.0381	< 0.0381	< 0.0381	< 0.038	< 0.43	< 0.20	< 0.040	< 0.04	< 0.044	< 0.052	< 0.0381	< 0.0381	< 0.0381	< 0.0381	< 0.0381
Benzo(b)fluoranthene	< 0.039	0.047 J	< 0.050	< 0.130	< 0.13	< 0.13	< 0.130	0.085 J	< 0.38	< 0.092	< 0.040	< 0.04	< 0.044	< 0.052	< 0.130	< 0.130	< 0.13	< 0.13	< 0.130
Benzo(g,h,i)perylene	< 0.039	< 0.043	< 0.050	< 0.121	< 0.121	< 0.121	< 0.121	< 0.038	< 1.1	< 0.040	< 0.040	< 0.04	< 0.044	< 0.052	< 0.121	< 0.121	< 0.121	< 0.121	< 0.121
Benzo(k)fluoranthene	< 0.039	< 0.043	< 0.050	< 0.120	< 0.12	< 0.12	< 0.120	< 0.038	< 0.54	< 0.92	< 0.040	< 0.04	< 0.044	< 0.052	< 0.120	< 0.120	< 0.12	< 0.12	< 0.120
Benzyl Alcohol	NA	NA	NA	< 0.563	< 0.563	NA	< 0.563	NA	< 2.0	NA	NA	NA	NA	NA	< 0.563	< 0.563	< 0.563	NA	< 0.563
bis(2-Chloroethoxy)methane	NA	NA	NA	< 0.116	< 0.116	NA	< 0.116	NA	< 0.69	NA	NA	NA	NA	NA	< 0.116	< 0.116	< 0.116	NA	< 0.116
bis(2-Chloroethyl)ether	NA	NA	NA	< 0.137	< 0.137	NA	< 0.137	NA	< 0.74	NA	NA	NA	NA	NA	< 0.137	< 0.137	< 0.137	NA	< 0.137
bis(2-Chloroisopropyl)ether	NA	NA	NA	NA	NA	NA	NA	NA	< 0.81	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	2.3 J	8.0 J	< 6.3	< 0.895	< 0.895	< 0.895	< 0.895	< 1.9	< 2.3	< 6.0	< 2.3	< 2.3	< 2.5	< 6.5	< 0.895	< 0.895	< 0.895	< 0.895	< 0.895
Butyl benzyl phthalate	NA	NA	NA	< 0.765	< 0.765	NA	< 0.765	NA	< 0.69	NA	NA	NA	NA	NA	< 0.765	< 0.765	< 0.765	NA	< 0.765
Chlorobenzilate	NA	NA	NA	NA	< 3.84	NA	< 3.84	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.84	NA	< 3.84
Chrysene	< 0.039	< 0.043	< 0.050	< 0.130	< 0.13	< 0.13	< 0.130	< 0.038	< 0.49	< 9.2	< 0.040	< 0.04	< 0.044	< 0.052	< 0.130	< 0.130	< 0.13	< 0.13	< 0.130
Diallate	NA	NA	NA	< 0.524	< 0.524	NA	< 0.524	NA	< 3.0	NA	NA	NA	NA	NA	< 0.524	< 0.524	< 0.524	NA	< 0.524
Dibenzo(a,h)anthracene	NA	NA	NA	< 0.0644	< 0.0644	NA	< 0.0644	NA	< 1.2	NA	NA	NA	NA	NA	< 0.0644	< 0.0644	< 0.0644	NA	< 0.0644
Dibenzofuran	< 0.51	< 0.56	< 0.65	< 0.0970	< 0.097	< 0.097	< 0.0970	< 0.16	< 0.52	< 1.2	< 0.52	< 0.52	< 0.58	< 0.68	< 0.0970	< 0.0970	< 0.097	< 0.097	< 0.0970
Diethyl phthalate	NA	NA	NA	< 0.287	< 0.287	NA	< 0.287	NA	< 0.7	NA	NA	NA	NA	NA	< 0.287	< 0.287	< 0.287	NA	< 0.287
Dimethyl phthalate	NA	NA	NA	< 0.260	< 0.26	NA	< 0.260	NA	< 0.6	NA	NA	NA	NA	NA	< 0.260	< 0.260	< 0.26	NA	< 0.260
Di-n-butyl phthalate	NA	NA	NA	< 0.453	< 0.453	NA	< 0.453	NA	NA	NA	NA	NA	NA	NA	< 0.453	< 0.453	< 0.453	NA	< 0.453
Di-n-octyl phthalate	< 0.43	< 0.47	< 0.55	< 0.932	< 0.932	< 0.932	< 0.932	< 0.16	< 0.44	< 0.44	< 0.44	< 0.44	< 0.49	< 0.58	< 0.932	< 0.932	< 0.932	< 0.932	< 0.932
Dinoseb	NA	NA	NA	< 8.01	< 8.01	NA	< 8.01	NA	NA	NA	NA	NA	NA	NA	< 8.01	< 8.01	< 8.01	NA	< 8.01
Diphenylamine	NA	NA	NA	< 2.37	< 2.37	NA	< 2.37	NA	< 3.0	NA	NA	NA	NA	NA	< 2.37	< 2.37	< 2.37	NA	< 2.37
Ethyl methanesulfonate	NA	NA	NA	< 0.326	< 0.326	NA	< 0.326	NA	< 3.0	NA	NA	NA	NA	NA	< 0.326	< 0.326	< 0.326	NA	< 0.326
Fluoranthene	< 0.019	0.069 J	0.040 J	< 0.102	< 0.102	< 0.102	< 0.102	0.076 J	< 0.77	< 0.020	0.023 J	< 0.02	< 0.022	0.065 J	< 0.102	< 0.102	< 0.102	< 0.102	< 0.102
Fluorene	< 0.02	0.16 J	< 0.026	< 0.0844	< 0.0844	< 0.0844	< 0.0844	< 0.02	< 0.56	< 0.021	< 0.021	< 0.021	< 0.023	< 0.027	< 0.0844	< 0.0844	< 0.0844	< 0.0844	< 0.0844
Hexachlorobenzene	NA	NA	NA	< 0.0755	< 0.0755	NA	< 0.0755	NA	< 0.25	NA	NA	NA	NA	NA	< 0.0755	< 0.0755	< 0.0755	NA	< 0.0755
Hexachlorobutadiene	NA	NA	NA	< 0.0968	< 0.0968	NA	< 0.0968	NA	< 3.6	NA	NA	NA	NA	NA	< 0.0968	< 0.0968	< 0.0968	NA	< 0.0968
Hexachlorocyclopentadiene	NA	NA	NA	< 0.0598	< 0.0598	NA	< 0.0598	NA	< 2.6	NA	NA	NA	NA	NA	< 0.0598	< 0.0598	< 0.0598	NA	< 0.0598
Hexachloroethane	< 4.1	< 4.5	< 5.3	< 0.127	< 0.127	< 0.127	< 0.127	< 4.0	< 4.2	< 4.8	< 4.2	< 4.2	< 4.7	< 5.5	< 0.127	< 0.127	< 0.127	< 0.127	< 0.127
Hexachlorophene	NA	NA	NA	< 1.44	< 1.44	NA	< 1.44	NA	< 100	NA	NA	NA	NA	NA	< 1.44	< 1.44	< 1.44	NA	< 1.44
Hexachloropropene	NA	NA	NA	< 0.149	< 0.149	NA	< 0.149	NA	< 2.0	NA	NA	NA	NA	NA	< 0.149	< 0.149	< 0.149	NA	< 0.149
Indeno(1,2,3-cd)pyrene	< 0.039	< 0.043	< 0.050	< 0.279	< 0.279	< 0.279	< 0.279	< 0.038	< 1.0	< 0.092	< 0.040	< 0.04	< 0.044	< 0.052	< 0.279	< 0.279	< 0.279	< 0.279	< 0.279
Isodrin	NA	NA	NA	< 4.11	< 4.11	NA	< 4.11	NA	< 3.0	NA	NA	NA	NA	NA	< 4.11	< 4.11	< 4.11	NA	< 4.11
Isophorone	NA	NA	NA	< 0.143	< 0.143	NA	< 0.143	NA	< 0.57	NA	NA	NA	NA	NA	< 0.143	< 0.143	< 0.143	NA	< 0.143
Isosafrole	NA	NA	NA	< 3.88	< 3.88	NA	< 3.88	NA	< 3.0	NA	NA	NA	NA	NA	< 3.88	< 3.88	< 3.88	NA	< 3.88
Kepone	NA	NA	NA	< 2.66	< 2.66	NA	< 2.66	NA	< 0.2	NA	NA	NA	NA	NA	< 2.66	< 2.66	< 2.66	NA	< 2.66
Methapyrilene	NA	NA	NA	< 10.0	< 10 R	NA	< 10.0	NA	< 8.0	NA	NA	NA	NA	NA	< 10.0	< 10.0	< 10 R	NA	< 10.0
Methyl methanesulfonate	NA	NA	NA	< 3.40	< 3.4	NA	< 3.40	NA	< 3.0	NA	NA	NA	NA	NA	< 3.40	< 3.40	< 3.4	NA	< 3.40
Naphthalene	< 0.019	0.03 J	< 0.025	< 0.159	< 0.159	< 0.159	< 0.159	0.053 J	< 0.63	< 0.62	< 0.020	< 0.02	< 0.022	< 0.026	< 0.159	< 0.159	< 0.159	< 0.159	< 0.159

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	32-I 6/5/2017	32-I 6/4/2018	32-I 6/10/2019	32-I 6/11/2020	32-I 6/14/2021	32-I 6/20/2022	32-I 6/12/2023	32-S 6/27/2013	32-S 6/17/2014	32-S 6/4/2015	32-S 6/20/2016	32-S 6/5/2017	32-S 6/4/2018	32-S 6/10/2019	32-S 6/11/2020	32-S 6/11/2020 Duplicate	32-S 6/14/2021	32-S 6/20/2022	32-S 6/12/2023
Nitrobenzene	NA	NA	NA	< 0.297	< 0.297	NA	< 0.297	NA	< 0.55	NA	NA	NA	NA	NA	< 0.297	< 0.297	< 0.297	NA	< 0.297
N-Nitrosodiethylamine	NA	NA	NA	< 3.57	< 3.57	NA	< 3.57	NA	< 4.8	NA	NA	NA	NA	NA	< 3.57	< 3.57	< 3.57	NA	< 3.57
N-Nitrosodimethylamine	NA	NA	NA	< 0.998	< 0.998	NA	< 0.998	NA	< 3.5	NA	NA	NA	NA	NA	< 0.998	< 0.998	< 0.998	NA	< 0.998
N-Nitrosodi-n-butylamine	NA	NA	NA	< 3.91	< 3.91	NA	< 3.91	NA	< 4.3	NA	NA	NA	NA	NA	< 3.91	< 3.91	< 3.91	NA	< 3.91
N-Nitrosodi-n-propylamine	NA	NA	NA	< 0.261	< 0.261	NA	< 0.261	NA	< 3.3	NA	NA	NA	NA	NA	< 0.261	< 0.261	< 0.261	NA	< 0.261
N-Nitrosodiphenylamine	< 0.46	< 0.5	< 0.59	< 2.37	< 2.37	< 2.37	< 2.37	< 0.17	< 0.47	< 1.0	< 0.47	< 0.47	< 0.52	< 0.61	< 2.37	< 2.37	< 2.37	< 2.37	< 2.37
N-Nitrosomethylethylamine	NA	NA	NA	< 3.25	< 3.25	NA	< 3.25	NA	< 3.0	NA	NA	NA	NA	NA	< 3.25	< 3.25	< 3.25	NA	< 3.25
N-Nitrosomorpholine	NA	NA	NA	< 3.25	< 3.25	NA	< 3.25	NA	< 4.0	NA	NA	NA	NA	NA	< 3.25	< 3.25	< 3.25	NA	< 3.25
N-Nitrosopiperidine	NA	NA	NA	< 3.72	< 3.72	NA	< 3.72	NA	< 4.0	NA	NA	NA	NA	NA	< 3.72	< 3.72	< 3.72	NA	< 3.72
N-Nitrosopyrrolidine	NA	NA	NA	< 3.39	< 3.39	NA	< 3.39	NA	< 5.0	NA	NA	NA	NA	NA	< 3.39	< 3.39	< 3.39	NA	< 3.39
O,O,O-Triethyl Phosphorothioate	NA	NA	NA	NA	< 2.93	NA	< 2.93	NA	< 4.0	NA	NA	NA	NA	NA	NA	NA	< 2.93	NA	< 2.93
Pentachlorobenzene	NA	NA	NA	< 4.15	< 4.15	NA	< 4.15	NA	< 2.0	NA	NA	NA	NA	NA	< 4.15	< 4.15	< 4.15	NA	< 4.15
Pentachloroethane	NA	NA	NA	NA	NA	NA	NA	NA	< 2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachloronitrobenzene	NA	NA	NA	< 4.15	< 4.15	NA	< 4.15	NA	< 3.0	NA	NA	NA	NA	NA	< 4.15	< 4.15	< 4.15	NA	< 4.15
Pentachlorophenol	< 1.8	< 1.9	< 2.3	< 0.313	< 0.313	< 0.313	< 0.313	< 1.3	< 1.8	< 1.8	< 1.8	< 1.8	< 2.0	< 2.4	< 0.313	< 0.313	< 0.313	< 0.313	< 0.313
Phenacetin	NA	NA	NA	< 4.66	< 4.66	NA	< 4.66	NA	< 3.0	NA	NA	NA	NA	NA	< 4.66	< 4.66	< 4.66	NA	< 4.66
Phenanthrene	< 0.019	0.067 J	< 0.025	< 0.112	< 0.112	< 0.112	< 0.112	0.081 J	< 0.41	< 0.020	< 0.020	< 0.02	0.025 J	0.041 J	< 0.112	< 0.112	< 0.112	< 0.112	< 0.112
Phenol	< 2.5	< 2.8	< 3.3	< 4.33	< 4.33	< 4.33	< 4.33	< 2.5	< 2.6	< 2.6	< 2.6	< 2.6	< 2.9	< 3.4	< 4.33	< 4.33	< 4.33	< 4.33	< 4.33
P-Phenylenediamine	NA	NA	NA	< 387 R	< 387 R	NA	< 387	NA	< 1.0	NA	NA	NA	NA	NA	< 387 R	< 387 R	< 387 R	NA	< 387
Pronamide (Kerb)	NA	NA	NA	< 4.21	< 4.21	NA	< 4.21	NA	< 3.0	NA	NA	NA	NA	NA	< 4.21	< 4.21	< 4.21	NA	< 4.21
Pyrene	< 0.019	0.12 J	0.046 J	< 0.107	< 0.107	< 0.107	< 0.107	0.18 J	< 1.1	< 0.020	0.11 J	0.062 J	0.11 J	0.14 J	< 0.107	< 0.107	< 0.107	< 0.107	< 0.107
Pyridine	NA	NA	NA	< 0.627	< 0.627	NA	< 0.627	NA	< 3.2	NA	NA	NA	NA	NA	< 0.627	< 0.627	< 0.627	NA	< 0.627
Safrole	NA	NA	NA	< 3.68	< 3.68	NA	< 3.68	NA	< 4.0	NA	NA	NA	NA	NA	< 3.68	< 3.68	< 3.68	NA	< 3.68
Sulfide - EPA846 376.1, SM4500-S2-D, mg/L																			
Sulfide	< 0.057	< 0.057	< 0.057	< 0.0062	< 0.011	< 0.0040	< 0.012	NA	0.1	0.074 J	0.28	0.26	0.27	< 0.057	0.022	0.023	0.13	0.042	0.10
Volatile Organic Compounds - SW846 8260B, 8260C, ug/L																			
1,1,1,2-Tetrachloroethane	NA	NA	NA	< 0.147	< 0.147	NA	< 0.147	NA	< 0.52	NA	NA	NA	NA	NA	< 0.147	< 0.147	< 0.147	NA	< 0.147
1,1,1-Trichloroethane	NA	NA	NA	< 0.149	< 0.149	NA	< 0.149	NA	< 0.5	NA	NA	NA	NA	NA	< 0.149	< 0.149	< 0.149	NA	< 0.149
1,1,2,2-Tetrachloroethane	NA	NA	NA	< 0.133	< 0.133	NA	< 0.133	NA	< 0.5	NA	NA	NA	NA	NA	< 0.133	< 0.133	< 0.133	NA	< 0.133
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NA	NA	NA	< 0.180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.180	< 0.180	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA	< 0.158	< 0.158	NA	< 0.158	NA	< 0.5	NA	NA	NA	NA	NA	< 0.158	< 0.158	< 0.158	NA	< 0.158
1,1-Dichloroethane	3.9	3.7	4.1	2.78	2.1	1.71	0.789 J	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.100	< 0.100	< 0.1	< 0.1	< 0.100
1,1-Dichloroethene	< 0.5	< 0.5	0.62 J	0.339 J	0.545 J	0.315 J	< 0.188	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.188	< 0.188	< 0.188	< 0.188	< 0.188
1,1-Dichloropropene	NA	NA	NA	< 0.142	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.142	< 0.142	NA	NA	NA
1,2,3-Trichlorobenzene	NA	NA	NA	< 0.230	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.230	< 0.230	NA	NA	NA
1,2,3-Trichloropropane	NA	NA	NA	< 0.237	< 0.237	NA	< 0.237	NA	< 0.84	NA	NA	NA	NA	NA	< 0.237	< 0.237	< 0.237	NA	< 0.237
1,2,3-Trimethylbenzene	NA	NA	NA	< 0.104	< 0.104	NA	< 0.104	NA	NA	NA	NA	NA	NA	NA	< 0.104	< 0.104	< 0.104	NA	< 0.104
1,2,4-Trichlorobenzene	NA	NA	NA	< 0.481	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.481	< 0.481	NA	NA	NA
1,2,4-Trimethylbenzene	NA	NA	NA	< 0.322	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.322	< 0.322	NA	NA	NA
1,2-Dibromo-3-Chloropropane	NA	NA	NA	< 0.276	< 0.276	NA	NA	NA	< 1.5	NA	NA	NA	NA	NA	< 0.276	< 0.276	< 0.276	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	NA	NA	NA	< 0.126	< 0.126	NA	NA	NA	< 0.5	NA	NA	NA	NA	NA	< 0.126	< 0.126	< 0.126	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	< 0.107	NA	NA	< 0.107	NA	NA	NA	NA	NA	NA	NA	< 0.107	< 0.107	NA	NA	< 0.107
1,2-Dichloroethane	NA	NA	NA	< 0.0819	< 0.0819	NA	< 0.0819	NA	< 0.5	NA	NA	NA	NA	NA	< 0.0819	< 0.0819	< 0.0819	NA	< 0.0819
1,2-Dichloropropane	< 0.5	< 0.5	< 0.50	< 0.149	< 0.149	< 0.149	< 0.149	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.149	< 0.149	< 0.149	< 0.149	< 0.149
1,3,5-Trimethylbenzene	NA	NA	NA	< 0.104	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.104	< 0.104	NA	NA	NA
1,3-Butadiene	NA	NA	NA	< 0.299	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.299	< 0.299	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	< 0.110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.110	< 0.110	NA	NA	NA
1,3-Dichloropropane	NA	NA	NA	< 0.110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.110	< 0.110	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	< 0.120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.120	< 0.120	NA	NA	NA
1,4-Dioxane (p-Dioxane)	NA	NA	NA	< 36.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 36.0	< 36.0	NA	NA	NA
1-Methylnaphthalene	NA	NA	NA	< 7.30 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7.30 UJ	< 7.30 UJ	NA	NA	NA
2,2,4-Trimethylpentane	NA	NA	NA	< 0.391	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.391	< 0.391	NA	NA	NA
2,2-Dichloropropane	NA	NA	NA	< 0.161	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.161	< 0.161	NA	NA	NA
2-Butanone (Methyl ethyl ketone)	NA	NA	NA	< 1.19	< 1.19	NA	< 1.19	NA	< 2.6	NA	NA	NA	NA	NA	< 1.19	< 1.19	< 1.19	NA	< 1.19
2-Chloro-1,3-Butadiene	NA	NA	NA	< 1.45	< 1.45	NA	< 1.45	NA	< 0.7	NA	NA	NA	NA	NA	< 1.45	< 1.45	< 1.45	NA	< 1.45
2-Chloroethyl vinyl ether	NA	NA	NA	< 0.575	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.575	< 0.575	NA	NA	NA
2-Chlorotoluene	NA	NA	NA	< 0.106	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.106	< 0.106	NA	NA	NA
2-Hexanone	NA	NA	NA	< 0.787	< 0.787	NA	< 0.787	NA	< 3.1	NA	NA	NA	NA	NA	< 0.787	< 0.787	< 0.787	NA	< 0.787
2-Methyl-1-Propanol (isobutyl alcohol)	NA	NA	NA	< 42.1	< 42.1	NA	< 42.1	NA	< 8.5	NA	NA	NA	NA	NA	< 42.1	< 42.1	< 42.1	NA	< 42.1
2-Methyl-2-Butanol	NA	NA	NA	< 4.90	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.90	< 4.90	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	< 7.18 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7.18 UJ	< 7.18 UJ	NA	NA	NA
2-Nitropropane	NA	NA	NA	< 1.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.75	< 1.75	NA	NA	NA
4-Chlorotoluene	NA	NA	NA	< 0.114	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.114	< 0.114	NA	NA	NA
4-Isopropyltoluene (Cymene)	NA	NA	NA	< 0.120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.120	< 0.120	NA	NA	NA
Acetone	< 10	< 10	< 10	< 11.3	< 11.3	< 11.3	< 11.3	NA	68	< 10	< 10	< 10	< 10	< 10	< 11.3	< 11.3	< 11.3	< 11.3	< 11.3
Acetonitrile	NA	NA	NA	< 24.0	< 24	NA	< 24.0	NA	< 12	NA	NA	NA	NA	NA	< 24.0	< 24.0	< 24	NA	< 24.0
Acrolein	NA	NA	NA	< 2.54	< 2.54	NA	< 2.54	NA	< 10	NA	NA	NA	NA	NA	< 2.54	< 2.54	< 2.54	NA	< 2.54
Acrylonitrile	NA	NA	NA	< 0.671	< 0.671	NA	< 0.671	NA	< 2.8	NA	NA	NA	NA	NA	< 0.671	< 0.671	< 0.671	NA	< 0.671
Allyl chloride (3-Chloropropene)	NA	NA	NA	< 0.500	< 0.5	NA	< 0.500	NA	< 1.0	NA	NA	NA	NA	NA	< 0.500	< 0.500	< 0.5	NA	< 0.500
Benzene	< 0.38	< 0.38	< 0.38	< 0.0941	< 0.0941	< 0.0941	< 0.0941	< 0.34	< 0.34	< 0.38	< 0.38	< 0.38	< 0.38	< 0.38	< 0.0941	< 0.0941	< 0.0941	< 0.0941	< 0.0941
Bromobenzene	NA	NA	NA	< 0.118	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.118	< 0.118	NA	NA	NA
Bromodichloromethane (Dichlorobromomethane)	< 0.5	< 0.5	< 0.50	< 0.136	< 0.136	< 0.136	< 0.136	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.136	< 0.136	< 0.136	< 0.136	< 0.136
Bromoform (Tribromomethane)	NA	NA	NA	< 0.129	< 0.129	NA	< 0.129	NA	< 0.71	NA	NA	NA	NA	NA	< 0.129	< 0.129	< 0.129	NA	< 0.129
Bromomethane (Methyl bromide)	NA	NA	NA	< 0.605	< 0.605	NA	< 0.605	NA	< 0.98	NA	NA	NA	NA	NA	< 0.605	< 0.605	< 0.605	NA	< 0.605
Carbon disulfide	< 0.5	< 0.5	< 0.50	< 0.0962	< 0.0962	< 0.0962	< 0.0962	NA	1.2	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.0962	< 0.0962	< 0.0962	< 0.0962	< 0.0962
Carbon tetrachloride	NA	NA	NA	< 0.128	< 0.128	NA	< 0.128	NA	< 0.5	NA	NA	NA	NA	NA	< 0.128	< 0.128	< 0.128	NA	< 0.128
Chlorobenzene	< 0.5	< 0.5	< 0.50	< 0.116	< 0.116	< 0.116	< 0.116	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.116	< 0.116	< 0.116	< 0.116	< 0.116
Chlorobromomethane (Bromochloromethane)	NA	NA	NA	< 0.128	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.128	< 0.128	NA	NA	NA
Chlorodibromomethane (Dibromochloromethane)	NA	NA	NA	< 0.140	< 0.14	NA	< 0.140	NA	< 0.5	NA	NA	NA	NA	NA	< 0.140	< 0.140	< 0.14	NA	< 0.140

Table D-1
AWTC Summary of Groundwater Analytical Results for Program Wells

Location ID: / Sample Date: / Sample Type:	32-I 6/5/2017	32-I 6/4/2018	32-I 6/10/2019	32-I 6/11/2020	32-I 6/14/2021	32-I 6/20/2022	32-I 6/12/2023	32-S 6/27/2013	32-S 6/17/2014	32-S 6/4/2015	32-S 6/20/2016	32-S 6/5/2017	32-S 6/4/2018	32-S 6/10/2019	32-S 6/11/2020	32-S 6/11/2020 Duplicate	32-S 6/14/2021	32-S 6/20/2022	32-S 6/12/2023
Chloroethane	NA	NA	NA	< 0.192	< 0.192	NA	< 0.192	NA	< 0.76	NA	NA	NA	NA	NA	< 0.192	< 0.192	< 0.192	NA	< 0.192
Chloroform	< 0.6	< 0.6	< 0.60	< 0.111	< 0.111	< 0.111	< 0.111	NA	< 0.6	< 0.60	< 0.60	< 0.6	< 0.6	< 0.60	< 0.111	< 0.111	< 0.111	< 0.111	< 0.111
Chloromethane (Methyl chloride)	NA	NA	NA	< 0.960	< 0.96	NA	< 0.960	NA	< 0.83	NA	NA	NA	NA	NA	< 0.960	< 0.960	< 0.96	NA	< 0.960
cis-1,2-Dichloroethene	3.9	4.7	4.9	3.59	5.15	3.19	1.31	NA	NA	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.126	< 0.126	< 0.126	< 0.126	< 0.126
cis-1,3-Dichloropropene	NA	NA	NA	< 0.111	< 0.111	NA	< 0.111	NA	< 0.5	NA	NA	NA	NA	NA	< 0.111	< 0.111	< 0.111	NA	< 0.111
Cyclohexane	NA	NA	NA	< 0.188	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.188	< 0.188	NA	NA	NA
Cyclohexanone	NA	NA	NA	< 3.40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.40	< 3.40	NA	NA	NA
Dibromomethane (Methylene bromide)	NA	NA	NA	< 0.122	< 0.122	NA	< 0.122	NA	< 0.59	NA	NA	NA	NA	NA	< 0.122	< 0.122	< 0.122	NA	< 0.122
Dichlorodifluoromethane (Freon 12)	NA	NA	NA	< 0.374	< 0.374	NA	< 0.374	NA	< 0.85	NA	NA	NA	NA	NA	< 0.374	< 0.374	< 0.374	NA	< 0.374
Dichloromonofluoromethane	NA	NA	NA	< 0.130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.130	< 0.130	NA	NA	NA
Dicyclopentadiene	NA	NA	NA	< 0.253	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.253	< 0.253	NA	NA	NA
Ethanol	NA	NA	NA	< 42.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 42.0	< 42.0	NA	NA	NA
Ethyl acetate	NA	NA	NA	< 3.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.59	< 3.59	NA	NA	NA
Ethyl methacrylate	NA	NA	NA	< 1.48	< 1.48	NA	< 1.48	NA	< 0.6	NA	NA	NA	NA	NA	< 1.48	< 1.48	< 1.48	NA	< 1.48
Ethylbenzene	< 0.5	< 0.5	< 0.50	< 0.137	< 0.173	< 0.173	< 0.173	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.137	< 0.137	< 0.173	< 0.173	< 0.173
Hexachlorobutadiene	NA	NA	NA	< 0.337	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.337	< 0.337	NA	NA	NA
Hexachloroethane	NA	NA	NA	< 0.316	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.316	< 0.316	NA	NA	NA
Iodomethane (Methyl iodide)	NA	NA	NA	< 6.00	< 6	NA	< 6.00	NA	< 0.68	NA	NA	NA	NA	NA	< 6.00	< 6.00	< 6	NA	< 6.00
Isopropyl alcohol	NA	NA	NA	< 1.65	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.65	< 1.65	NA	NA	NA
Isopropyl ether	NA	NA	NA	< 0.105	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.105	< 0.105	NA	NA	NA
Isopropylbenzene (Cumene)	NA	NA	NA	< 0.105	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.105	< 0.105	NA	NA	NA
m+p-Xylenes	NA	NA	NA	< 0.430	< 0.43	< 0.43	< 0.430	NA	NA	NA	NA	NA	NA	NA	< 0.430	< 0.430	< 0.43	< 0.43	< 0.430
Methyl acetate	NA	NA	NA	< 1.29	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.29	< 1.29	NA	NA	NA
Methyl isobutyl ketone (4-Methyl-2-pentanone)	NA	NA	NA	< 0.478	< 0.478	NA	< 0.478	NA	< 1.8	NA	NA	NA	NA	NA	< 0.478	< 0.478	< 0.478	NA	< 0.478
Methyl methacrylate	NA	NA	NA	< 1.52	< 1.52 UJ	NA	< 1.52	NA	< 5.0	NA	NA	NA	NA	NA	< 1.52	< 1.52	< 1.52 UJ	NA	< 1.52
Methyl tertiary butyl ether (MTBE)	NA	NA	NA	< 0.101	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.101	< 0.101	NA	NA	NA
Methylacrylonitrile	NA	NA	NA	< 14.2	< 14.2	NA	< 14.2	NA	< 6.0	NA	NA	NA	NA	NA	< 14.2	< 14.2	< 14.2	NA	< 14.2
Methylcyclohexane	NA	NA	NA	< 0.660	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.660	< 0.660	NA	NA	NA
Methylene chloride (Dichloromethane)	NA	NA	NA	< 0.430	< 0.43	NA	< 0.430	NA	< 3.0	NA	NA	NA	NA	NA	< 0.430	< 0.430	< 0.43	NA	< 0.430
Naphthalene	NA	NA	NA	< 1.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.00	< 1.00	NA	NA	NA
n-Butyl alcohol	NA	NA	NA	< 150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 150	< 150	NA	NA	NA
n-Butylbenzene	NA	NA	NA	< 0.157	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.157	< 0.157	NA	NA	NA
n-Heptane	NA	NA	NA	< 0.373	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.373	< 0.373	NA	NA	NA
n-Hexane	NA	NA	NA	< 0.749	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.749	< 0.749	NA	NA	NA
n-Propylbenzene	NA	NA	NA	< 0.0993	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0993	< 0.0993	NA	NA	NA
o-Xylene	NA	NA	NA	< 0.174	< 0.174	< 0.174	< 0.174	NA	NA	NA	NA	NA	NA	NA	< 0.174	< 0.174	< 0.174	< 0.174	< 0.174
Pentachloroethane	NA	NA	NA	< 2.30	< 2.3	NA	< 2.30	NA	NA	NA	NA	NA	NA	NA	< 2.30	< 2.30	< 2.3	NA	< 2.30
Propionitrile	NA	NA	NA	< 16.2	< 16.2	NA	< 16.2	NA	< 7.0	NA	NA	NA	NA	NA	< 16.2	< 16.2	< 16.2	NA	< 16.2
Propylene (Propene)	NA	NA	NA	< 0.936	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.936	< 0.936	NA	NA	NA
sec-Butylbenzene (2-Phenylbutane)	NA	NA	NA	< 0.125	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.125	< 0.125	NA	NA	NA
Styrene	NA	NA	NA	< 0.118	< 0.118	NA	< 0.118	NA	< 1.0	NA	NA	NA	NA	NA	< 0.118	< 0.118	< 0.118	NA	< 0.118
tert-Amyl methyl ether	NA	NA	NA	< 0.195	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.195	< 0.195	NA	NA	NA
Tert-buty formate	NA	NA	NA	< 4.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.51	< 4.51	NA	NA	NA
tert-Butyl alcohol	NA	NA	NA	< 4.06	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.06	< 4.06	NA	NA	NA
tert-Butyl ethyl ether	NA	NA	NA	< 0.101	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.101	< 0.101	NA	NA	NA
tert-Butylbenzene	NA	NA	NA	< 0.127	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.127	< 0.127	NA	NA	NA
Tetrachloroethene (PCE)	NA	NA	NA	< 0.300	< 0.3	NA	< 0.300	NA	< 0.58	NA	NA	NA	NA	NA	< 0.300	< 0.300	< 0.3	NA	< 0.300
Tetrahydrofuran	NA	NA	NA	< 0.929	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.929	< 0.929	NA	NA	NA
Toluene	< 0.7	< 0.7	< 0.41	< 0.278	< 0.278	< 0.278	< 0.278	NA	< 0.7	< 0.70	< 0.70	< 0.7	< 0.7	< 0.41	< 0.278	< 0.278	< 0.278	< 0.278	< 0.278
trans-1,2-Dichloroethene	< 0.5	< 0.5	< 0.50	< 0.149	0.196 J	< 0.149	< 0.149	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.149	< 0.149	< 0.149	< 0.149	< 0.149
trans-1,3-Dichloropropene	NA	NA	NA	< 0.118	< 0.118	NA	< 0.118	NA	< 0.5	NA	NA	NA	NA	NA	< 0.118	< 0.118	< 0.118	NA	< 0.118
trans-1,4-Dichlorobutene	NA	NA	NA	< 0.467	< 0.467	NA	< 0.467	NA	< 1.0	NA	NA	NA	NA	NA	< 0.467	< 0.467	< 0.467	NA	< 0.467
Trichloroethene (TCE)	2.0	2.8	3.8	2.33	2.57	1.67	0.558 J	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.190	< 0.190	< 0.19	< 0.19	< 0.190
Trichlorofluoromethane (Freon 11)	NA	NA	NA	< 0.160	< 0.16	NA	< 0.160	NA	< 0.52	NA	NA	NA	NA	NA	< 0.160	< 0.160	< 0.16	NA	< 0.160
Vinyl acetate	NA	NA	NA	< 0.692	< 0.692	NA	< 0.692	NA	< 2.0	NA	NA	NA	NA	NA	< 0.692	< 0.692	< 0.692	NA	< 0.692
Vinyl chloride	< 0.5	0.73 J	1.5	0.885 J	0.779 J	0.42 J	< 0.234	NA	< 0.5	< 0.50	< 0.50	< 0.5	< 0.5	< 0.50	< 0.234	< 0.234	< 0.234	< 0.234	< 0.234
Xylenes, Total	< 1.6	< 1.6	< 1.6	< 0.174	< 0.174	< 0.174	< 0.174	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 0.174	< 0.174	< 0.174	< 0.174	< 0.174

Notes:
mg/L = milligrams per liter
pg/L = picograms per liter
ug/L = micrograms per liter
2014 event performed in accordance with previous permit, with Appendix IX sampling at all program wells every 5 years; subsequent events perfomed annually at rotating list of wells per current permit

Data Qualifier Definitions:
B = The analyte was positively identified, the associated numerica value is estimated due to blank contamination
I = Interference present
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
NA = Not Analyzed
R = The sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified
U = The analyte was analyzed for but was not detected at a concentration greater than the reported sample quantitation limit
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample
< = Not detected at or above the associated Method Detection Limit
As described in annual CMERs, the constituents presented represent the established permit list in effect at time of sampling, and varies annually based on additional Appendix IX detections.
DQE flags may vary by lab and based on professional judgement applied by DQE analyst.

Table D-2
AWTC Summary of Groundwater Analytical Results for DNAPL Effectiveness Wells

Location ID: / Sample Date:	6-I 6/24/2016	6-I 8/2/2018	6-I 6/12/2020	6-I 6/21/2022	6-S 6/24/2016	6-S 6/13/2018	6-S 6/12/2020	6-S 6/21/2022	17-D 6/25/2016	17-D 6/13/2018	17-D 6/12/2020	17-D 6/22/2022	21-I 6/25/2016
Chlorinated Herbicides - SW846 8151, ug/L													
2,2-Dichloropropionic acid (Dalapon)	NA	NA	< 0.344	NA	NA	NA	< 0.344	NA	NA	NA	< 0.344	NA	NA
2,4,5-T	NA	NA	< 0.258	NA	NA	NA	< 0.258	NA	NA	NA	< 0.258	NA	NA
2,4,5-TP (Silvex)	< 0.036	< 0.0073	< 0.335	< 0.335	< 0.036	< 0.0073	< 0.335	< 0.335	< 0.036	< 0.0073	< 0.335	< 0.335	< 0.036
2,4-D	NA	NA	< 0.547	NA	NA	NA	< 0.547	NA	NA	NA	< 0.547	NA	NA
2,4-DB	NA	NA	< 0.302	NA	NA	NA	3.6	NA	NA	NA	< 0.302	NA	NA
Dicamba	NA	NA	< 0.245	NA	NA	NA	< 0.245	NA	NA	NA	< 0.245	NA	NA
Dichlorprop	NA	NA	< 1.04	NA	NA	NA	< 1.04	NA	NA	NA	< 1.04	NA	NA
Dinoseb	NA	NA	< 0.250	NA	NA	NA	< 0.250	NA	NA	NA	< 0.250	NA	NA
MCPA (2-Methyl-4-Chlorophenoxyacetic acid)	NA	NA	< 13.1	NA	NA	NA	< 13.1	NA	NA	NA	< 13.1	NA	NA
MCPP	NA	NA	< 66	NA	NA	NA	< 66	NA	NA	NA	< 66	NA	NA
Cyanide - EPA 846 335.4, mg/L													
Cyanide	NA	NA	NA	< 0.0012	NA	NA	NA	0.0017 U	NA	NA	NA	0.0012 J	NA
Dioxins/Furans - SW846 8290, 8290A, pg/L													
1,2,3,4,6,7,8,9-OCDD (OCDD)	70 J	14 JB	13 BJ	< 2.4	72 J	9.8 J	9.4 IJ U	< 1.5	46 J	5.9 J	22 IJ U	< 0.73	53 J
1,2,3,4,6,7,8,9-OCDF (OCDF)	4.0 J	3.0 J	< 3.5	< 1.7	3.8 J	1.2 J	< 6.6	< 1.8	3.4 J	1.2 J	< 4.3	< 2	< 0.52
1,2,3,4,6,7,8-HpCDD	4.4 J	2.0 JB	< 3.1	< 1.2	4.1 J	1.8 J	3.5 J	< 1.5	1.6 J	0.94 J	3.0 J	< 1.4	2.1 J
1,2,3,4,6,7,8-HpCDF	1.8 J	0.98 Jq	< 2.1	< 1.4 UJ	1.5 J	0.56 J	< 2.4	< 1.2 UJ	0.84 J	0.37 J	< 1.4	< 0.94	1.1 J
1,2,3,4,7,8,9-HpCDF	NA	< 0.45	< 2.7	< 1.4	NA	0.85 J	< 2.4	< 1.6	NA	3.6 J	< 1.5	< 2.0	NA
1,2,3,4,7,8-HxCDD	NA	NA	< 1.4	< 0.9	NA	NA	< 1.7	< 0.45	NA	NA	< 0.81	< 0.68	NA
1,2,3,4,7,8-HxCDF	NA	NA	< 1.3	< 0.67 UJ	NA	NA	< 0.63	< 0.41	NA	NA	< 0.78	< 0.22	NA
1,2,3,6,7,8-HxCDD	NA	NA	< 1.3	< 0.89	NA	NA	< 1.7	< 1.1	NA	NA	< 0.93	< 0.81	NA
1,2,3,6,7,8-HxCDF	NA	NA	< 0.93	< 0.28	NA	NA	< 0.76	< 0.51	NA	NA	< 0.69	< 0.44	NA
1,2,3,7,8,9-HxCDD	NA	NA	< 1.3	< 0.9	NA	NA	< 1.8	< 0.91	NA	NA	< 0.90	< 1.3	NA
1,2,3,7,8,9-HxCDF	NA	NA	< 1.1	< 0.65	NA	NA	< 0.72	< 0.39	NA	NA	< 0.85	< 0.3	NA
1,2,3,7,8-PeCDD	NA	NA	< 0.78	< 0.34	NA	NA	< 1.6	< 0.61	NA	NA	< 0.76	< 1.3	NA
1,2,3,7,8-PeCDF	NA	NA	< 0.79	< 0.37	NA	NA	< 0.68	< 0.66	NA	NA	< 0.78	< 0.4	NA
2,3,4,6,7,8-HxCDF	NA	NA	< 0.64	< 0.22	NA	NA	< 0.93	< 0.41	NA	NA	< 0.51	< 0.34	NA
2,3,4,7,8-PeCDF	NA	NA	< 0.52	< 0.15	NA	NA	< 0.79	< 0.23	NA	NA	< 0.43	< 0.38	NA
2,3,7,8-TCDD	NA	NA	< 2.0	< 0.52	NA	NA	< 1.9	< 0.67	NA	NA	< 0.99	< 0.93	NA
2,3,7,8-TCDF	NA	NA	< 0.96	< 0.31	NA	NA	< 1.4	< 0.62	NA	NA	< 0.53	< 0.44	NA
Total HpCDD	7.9 J	3.8 JqB	< 3.1	< 1.2	8.6 J	3.8 J	3.5 J	< 1.5	4.2 J	2.9 J	3.0 J	< 1.4	3.4 J
Total HpCDF	2.8 J	0.98 Jq	< 2.1	< 1.4	2.9 J	1.8 J	< 2.4	< 1.2	0.84 J	4.6 J	< 1.4	< 0.94	1.1 J
Total HxCDD	< 1.9	< 1.7	< 1.3	< 0.89	0.46 J	1.2 J	< 1.7	< 0.45	< 1.9	1.7 J	< 0.81	< 0.68	< 1.9
Total HxCDF	< 1.9	< 0.73	< 0.64	< 0.22	< 1.9	1.9 J	< 0.63	< 0.39	< 1.9	5.8 J	< 0.51	< 0.22	< 1.9
Total PeCDD	NA	NA	< 0.78	< 0.34	NA	NA	< 1.6	< 0.61	NA	NA	< 0.76	< 1.3	NA
Total PeCDF	NA	NA	< 0.52	< 0.15	NA	NA	< 0.68	< 0.23	NA	NA	< 0.43	< 0.38	NA
Total TCDD	< 1.9	< 2	< 2.0	< 0.52	< 1.9	< 2.3	< 1.9	< 0.67	< 1.9	< 2.0	< 0.99	< 0.93	< 1.9
Total TCDF	NA	NA	< 0.96	< 0.31	NA	NA	< 1.4	< 0.62	NA	NA	< 0.53	< 0.44	NA
Mercury, Total - SW846 7470, mg/L													
Mercury	< 0.000070	NA	NA	< 0.00010	< 0.000070	< 0.00007	NA	< 0.00010	< 0.000070	< 0.00007	NA	< 0.00010	< 0.000070
Metals, Total - SW846 6020, 6020A, mg/L													
Antimony	NA	NA	NA	< 0.00063	NA	NA	NA	< 0.0013	NA	NA	NA	< 0.00063	NA
Arsenic	0.00097 J	0.00056	0.00049 J	0.00058 J	< 0.00046	0.00042	0.00032 J	0.00059 J	< 0.00046	0.00067	0.00022 J	0.00023 J	0.019
Barium	0.035	0.15	0.332	0.36	0.085	0.2	0.184	0.16	0.085	0.052	0.0347	0.025	0.012
Beryllium	NA	NA	NA	< 0.00012	NA	NA	NA	< 0.00024	NA	NA	NA	< 0.00012	NA
Cadmium	< 0.00034	NA	< 0.00008	< 0.000080	< 0.00034	< 0.000068	< 0.00008	< 0.00016	< 0.00034	< 0.000068	< 0.00008	< 0.000080	< 0.00034
Chromium	0.0032	0.00094 B	0.0014	0.00095 J	< 0.0011	0.00059	0.00096 J	< 0.0012	< 0.0011	< 0.00022	< 0.00062	< 0.00062	< 0.0011
Cobalt	< 0.00040	< 0.00008	< 0.00006	< 0.000060	< 0.00040	0.00026 J	0.00033 J	0.00038 J	< 0.00040	< 0.00008	< 0.00006	< 0.000060	< 0.00040
Copper	< 0.0021	0.0011	< 0.00083	< 0.00083	< 0.0021	0.00092	< 0.00083	< 0.0017	< 0.0021	< 0.00042	< 0.00083	< 0.00083	< 0.0021
Lead	0.00053 J	0.00013 J	0.00011 J	< 0.000070	< 0.00035	0.00013 J	0.0011	0.00036 J	< 0.00035	< 0.00007	0.00025 J	< 0.000070	< 0.00035
Nickel	< 0.0018	0.0005	< 0.00056	< 0.00056	< 0.0018	0.0006	< 0.00056	< 0.0011	< 0.0018	0.0004 J	< 0.00056	< 0.00056	0.0028
Selenium	0.00067 J	0.000089 J	< 0.00037	< 0.00037	< 0.00024	0.00024 J	< 0.00037	< 0.00074	< 0.00024	0.00012 J	< 0.00037	< 0.00037	< 0.00024
Silver	NA	NA	NA	< 0.000080	NA	NA	NA	< 0.00016	NA	NA	NA	< 0.000080	NA
Thallium	< 0.000085	< 0.000017	< 0.00008	< 0.000080	< 0.000085	< 0.000017	< 0.00008	< 0.00016	< 0.000085	< 0.000017	< 0.00008	< 0.000080	< 0.000085
Tin	NA	NA	NA	< 0.00043	NA	NA	NA	< 0.00086	NA	NA	NA	< 0.00043	NA
Vanadium	< 0.0014	< 0.00028	< 0.0023	< 0.0023	< 0.0014	0.00042 J	< 0.0023	< 0.0046	< 0.0014	< 0.00028	< 0.0023	< 0.0023	< 0.0014
Zinc	NA	NA	0.0063 J	0.040 J	NA	NA	0.02	0.016 U	NA	NA	0.0075 J	< 0.0044	NA
Pesticides - SW846 8081, ug/L													
Aldrin	NA	NA	NA	< 0.0198	NA	NA	NA	< 0.0198	NA	NA	NA	< 0.0198	NA
Phenolics - E420.1, E420.4, mg/L													
Total Recoverable Phenolics	0.039	< 0.008	0.035	< 0.0250	0.0075 J	0.0068 J	0.16	0.0800	< 0.0045	< 0.0045	0.018 J	< 0.0250	0.0089 J
Semi-Volatile Organic Compounds - SW846 8270C, 8270D, 8270-LL, ug/L													
1,2,4,5-Tetrachlorobenzene	NA	NA	< 0.0647	NA	NA	NA	< 0.0647	NA	NA	NA	< 0.0647	NA	NA
1,2,4-Trichlorobenzene	NA	NA	< 0.0698	NA	NA	NA	< 0.0698	NA	NA	NA	< 0.0698	NA	NA
1,2-Dichlorobenzene	NA	NA	< 0.0713	NA	NA	NA	< 0.0713	NA	NA	NA	< 0.0713	NA	NA
1,3,5-Trinitrobenzene	NA	NA	< 1.32	NA	NA	NA	< 1.32	NA	NA	NA	< 1.32	NA	NA
1,3-Dichlorobenzene	NA	NA	< 0.132	NA	NA	NA	< 0.132	NA	NA	NA	< 0.132	NA	NA

Table D-2
AWTC Summary of Groundwater Analytical Results for DNAPL Effectiveness Wells

Location ID: / Sample Date:	6-I 6/24/2016	6-I 8/2/2018	6-I 6/12/2020	6-I 6/21/2022	6-S 6/24/2016	6-S 6/13/2018	6-S 6/12/2020	6-S 6/21/2022	17-D 6/25/2016	17-D 6/13/2018	17-D 6/12/2020	17-D 6/22/2022	21-I 6/25/2016
1,3-Dinitrobenzene	NA	NA	< 0.359	NA	NA	NA	< 0.359	NA	NA	NA	< 0.359	NA	NA
1,4-Dichlorobenzene	NA	NA	< 0.0942	NA	NA	NA	< 0.0942	NA	NA	NA	< 0.0942	NA	NA
1,4-Dioxane (p-Dioxane)	< 1.0	< 1.1	NA	0.388 U	< 1.0	< 1.7	NA	0.146 U	< 1.0	< 1.1	NA	0.708	< 1.0
1,4-Naphthoquinone	NA	NA	< 5.56 R	NA	NA	NA	< 5.56 R	NA	NA	NA	< 5.56 R	NA	NA
1-Methylnaphthalene	0.054 J	0.19 J	0.539 J	< 0.079	8.2	5.7	15.4	18.9	0.022 J	7.7	< 0.0790	< 0.079	0.53
1-Naphthylamine	< 4.0	< 4.4	< 0.289	< 0.289	< 4.0	< 6.7	< 0.289	< 0.289	< 4.0	< 4.4	< 0.289	< 0.289	< 4.0
2,3,4,6-Tetrachlorophenol	NA	NA	< 0.231	NA	NA	NA	< 0.231	NA	NA	NA	< 0.231	NA	NA
2,4,5-Trichlorophenol	NA	NA	< 0.109	NA	NA	NA	< 0.109	NA	NA	NA	< 0.109	NA	NA
2,4,6-Trichlorophenol	NA	NA	< 0.100	NA	NA	NA	< 0.100	NA	NA	NA	< 0.100	NA	NA
2,4-Dichlorophenol	NA	NA	< 0.102	NA	NA	NA	< 0.102	NA	NA	NA	< 0.102	NA	NA
2,4-Dimethylphenol	< 3.5	< 3.8	< 0.0636	< 0.0636	< 3.5	< 5.9	< 0.0636	< 0.0636	< 3.5	< 3.9	< 0.0636	< 0.0636	< 3.5
2,4-Dinitrophenol	NA	NA	< 5.93	NA	NA	NA	< 5.93	NA	NA	NA	< 5.93	NA	NA
2,4-Dinitrotoluene	NA	NA	< 0.0983	NA	NA	NA	< 0.0983	NA	NA	NA	< 0.0983	NA	NA
2,6-Dichlorophenol	NA	NA	< 0.102	NA	NA	NA	< 0.102	NA	NA	NA	< 0.102	NA	NA
2,6-Dinitrotoluene	NA	NA	< 0.250	NA	NA	NA	< 0.250	NA	NA	NA	< 0.250	NA	NA
2-Acetylaminofluorene	NA	NA	< 0.253	NA	NA	NA	< 0.253	NA	NA	NA	< 0.253	NA	NA
2-Chloronaphthalene	NA	NA	< 0.0648	NA	NA	NA	< 0.0648	NA	NA	NA	< 0.0648	NA	NA
2-Chlorophenol	NA	NA	< 0.133	NA	NA	NA	< 0.133	NA	NA	NA	< 0.133	NA	NA
2-Methylaniline (o-Toluidine)	< 6.0	< 6.6	< 3.53	< 3.53	< 6.0	< 10	< 3.53	< 3.53	< 6.0	< 6.6	< 3.53	< 3.53	< 6.0
2-Methylnaphthalene	0.070 J	0.23 B	0.244 J	< 0.117	0.93	< 0.43	4.28	0.27 J	0.021 J	14	< 0.117	< 0.117	0.45
2-Methylphenol (o-Cresol)	NA	NA	< 0.0929	NA	NA	NA	< 0.0929	NA	NA	NA	< 0.0929	NA	NA
2-Naphthylamine	< 4.0	< 4.4	< 4.48	< 4.48	< 4.0	< 6.7	< 4.48	< 4.48	< 4.0	< 4.4	< 4.48	< 4.48	< 4.0
2-Nitroaniline	NA	NA	< 0.102	NA	NA	NA	< 0.102	NA	NA	NA	< 0.102	NA	NA
2-Nitrophenol	NA	NA	< 0.117	NA	NA	NA	< 0.117	NA	NA	NA	< 0.117	NA	NA
2-Picoline	NA	NA	< 6.83	NA	NA	NA	< 6.83	NA	NA	NA	< 6.83	NA	NA
3,3'-Dichlorobenzidine	NA	NA	< 0.212	NA	NA	NA	< 0.212	NA	NA	NA	< 0.212	NA	NA
3,3'-Dimethylbenzidine	NA	NA	< 3.39	NA	NA	NA	< 3.39	NA	NA	NA	< 3.39	NA	NA
3+4-Methylphenol (m,p-Cresol)	< 1.0	4.7 J	< 0.168	< 0.168	< 1.0	< 1.7	< 0.168	< 0.168	< 1.0	< 1.1	< 0.168	< 0.168	< 1.0
3-Methylchloranthrene	NA	NA	< 0.164	NA	NA	NA	< 0.164	NA	NA	NA	< 0.164	NA	NA
3-Nitroaniline	NA	NA	< 0.0869	NA	NA	NA	< 0.0869	NA	NA	NA	< 0.0869	NA	NA
4,6-Dinitro-2-Methylphenol	NA	NA	< 1.12	NA	NA	NA	< 1.12	NA	NA	NA	< 1.12	NA	NA
4-Aminobiphenyl	NA	NA	< 0.461	NA	NA	NA	< 0.461	NA	NA	NA	< 0.461	NA	NA
4-Bromophenyl phenyl ether	NA	NA	< 0.0877	NA	NA	NA	< 0.0877	NA	NA	NA	< 0.0877	NA	NA
4-Chloro-3-Methylphenol	NA	NA	< 0.131	NA	NA	NA	< 0.131	NA	NA	NA	< 0.131	NA	NA
4-Chloroaniline	NA	NA	< 0.234	NA	NA	NA	< 0.234	NA	NA	NA	< 0.234	NA	NA
4-Chlorophenyl phenyl ether	NA	NA	< 0.0926	NA	NA	NA	< 0.0926	NA	NA	NA	< 0.0926	NA	NA
4-Dimethylaminoazobenzene	NA	NA	< 3.69	NA	NA	NA	< 3.69	NA	NA	NA	< 3.69	NA	NA
4-Nitroaniline	NA	NA	< 0.0910	NA	NA	NA	< 0.0910	NA	NA	NA	< 0.0910	NA	NA
4-Nitrophenol	NA	NA	< 0.143	NA	NA	NA	< 0.143	NA	NA	NA	< 0.143	NA	NA
4-Nitroquinoline-N-Oxide	NA	NA	< 2.03	NA	NA	NA	< 2.03	NA	NA	NA	< 2.03	NA	NA
5-Nitro-O-Toluidine	NA	NA	< 1.99	NA	NA	NA	< 1.99	NA	NA	NA	< 1.99	NA	NA
7,12-Dimethylbenz(a)anthracene	NA	NA	< 1.71	NA	NA	NA	< 1.71	NA	NA	NA	< 1.71	NA	NA
Acenaphthene	0.12 J	3.0	6.68	1.5 J	93	89	78.2	93.7	0.28	45	< 0.0886	< 0.0886	1.2
Acenaphthylene	< 0.020	< 0.022	< 0.0921	< 0.0921	0.43	< 0.43	< 0.0921	0.296 J	0.020 J	< 0.44	< 0.0921	< 0.0921	0.025 J
Acetophenone	NA	NA	< 0.208	NA	NA	NA	< 0.208	NA	NA	NA	< 0.208	NA	NA
alpha, alpha-Dimethylphenethylamine	NA	NA	< 3.13 R	NA	NA	NA	< 3.13 R	NA	NA	NA	< 3.13 R	NA	NA
Aniline	NA	NA	< 1.65	NA	NA	NA	< 1.65	NA	NA	NA	< 1.65	NA	NA
Anthracene	0.032 J	0.25	0.333 J	< 0.0804	0.83	2.8 J	3.53	3.98	< 0.020	10	< 0.0804	< 0.0804	0.36
Aramite	NA	NA	< 16.7	NA	NA	NA	< 16.7	NA	NA	NA	< 16.7	NA	NA
Benzo(a)anthracene	< 0.040	0.094 J	< 0.199	< 0.199	0.45	< 0.85	0.264 J	0.324 J	< 0.040	< 0.88	< 0.199	< 0.199	0.57
Benzo(a)pyrene	< 0.040	< 0.043	< 0.0381	< 0.0381	0.097 J	< 0.85	< 0.0381	< 0.0381	< 0.040	< 0.88	< 0.0381	< 0.0381	< 0.040
Benzo(b)fluoranthene	< 0.040	0.053 J	< 0.130	< 0.13	0.18 J	< 0.85	< 0.130	< 0.13	< 0.040	< 0.88	< 0.130	< 0.13	< 0.040
Benzo(g,h,i)perylene	< 0.040	< 0.043	< 0.121	< 0.121	< 0.040	< 0.85	< 0.121	< 0.121	< 0.040	< 0.88	< 0.121	< 0.121	< 0.040
Benzo(k)fluoranthene	< 0.040	< 0.043	< 0.120	< 0.12	0.077 J	< 0.85	< 0.120	< 0.12	< 0.040	< 0.88	< 0.120	< 0.12	< 0.040
Benzyl Alcohol	NA	NA	< 0.563	NA	NA	NA	< 0.563	NA	NA	NA	< 0.563	NA	NA
bis(2-Chloroethoxy)methane	NA	NA	< 0.116	NA	NA	NA	< 0.116	NA	NA	NA	< 0.116	NA	NA
bis(2-Chloroethyl)ether	NA	NA	< 0.137	NA	NA	NA	< 0.137	NA	NA	NA	< 0.137	NA	NA
bis(2-Ethylhexyl)phthalate	< 2.3	7.7 J	< 0.895	< 0.895	< 2.3	< 3.8	< 0.895	< 0.895	< 2.3	< 2.5	< 0.895	< 0.895	< 2.3
Butyl benzyl phthalate	NA	NA	< 0.765	NA	NA	NA	< 0.765	NA	NA	NA	< 0.765	NA	NA
Chrysene	< 0.040	< 0.043	< 0.130	< 0.13	0.40	< 0.85	0.173 J	0.179 J	< 0.040	< 0.88	< 0.130	< 0.13	0.19 J
Diallate	NA	NA	< 0.524	NA	NA	NA	< 0.524	NA	NA	NA	< 0.524	NA	NA
Dibenzo(a,h)anthracene	NA	NA	< 0.0644	NA	NA	NA	< 0.0644	NA	NA	NA	< 0.0644	NA	NA
Dibenzofuran	< 0.52	< 0.57	0.476 J	< 0.097	25	16 J	19.6	3.96 J	< 0.52	19	< 0.0970	< 0.097	0.72 J
Diethyl phthalate	NA	NA	< 0.287	NA	NA	NA	< 0.287	NA	NA	NA	< 0.287	NA	NA
Dimethoate (Cygon)	NA	NA	< 5.05	NA	NA	NA	< 5.05	NA	NA	NA	< 5.05	NA	NA
Dimethyl phthalate	NA	NA	< 0.260	NA	NA	NA	< 0.260	NA	NA	NA	< 0.260	NA	NA
Di-n-butyl phthalate	NA	NA	< 0.453	NA	NA	NA	< 0.453	NA	NA	NA	< 0.453	NA	NA
Di-n-octyl phthalate	< 0.44	NA	< 0.932	< 0.932	< 0.44	< 0.74	< 0.932	< 0.932	< 0.44	< 0.49	< 0.932	< 0.932	< 0.44

Table D-2
AWTC Summary of Groundwater Analytical Results for DNAPL Effectiveness Wells

Location ID: / Sample Date:	6-I 6/24/2016	6-I 8/2/2018	6-I 6/12/2020	6-I 6/21/2022	6-S 6/24/2016	6-S 6/13/2018	6-S 6/12/2020	6-S 6/21/2022	17-D 6/25/2016	17-D 6/13/2018	17-D 6/12/2020	17-D 6/22/2022	21-I 6/25/2016
Dinoseb	NA	NA	< 8.01	NA	NA	NA	< 8.01	NA	NA	NA	< 8.01	NA	NA
Diphenylamine	NA	NA	< 2.37	NA	NA	NA	< 2.37	NA	NA	NA	< 2.37	NA	NA
Ethyl methanesulfonate	NA	NA	< 0.326	NA	NA	NA	< 0.326	NA	NA	NA	< 0.326	NA	NA
Famphur	NA	NA	< 3.92	NA	NA	NA	< 3.92	NA	NA	NA	< 3.92	NA	NA
Fluoranthene	0.18 J	0.68	0.741 J	0.273 J	13	7.1	7.6	8.73	0.16 J	9.7	< 0.102	< 0.102	1.9
Fluorene	0.067 J	0.25	0.654 J	0.142 U	36	44	45.0	56	0.044 J	34	< 0.0844	< 0.0844	0.77
Hexachlorobenzene	NA	NA	< 0.0755	NA	NA	NA	< 0.0755	NA	NA	NA	< 0.0755	NA	NA
Hexachlorobutadiene	NA	NA	< 0.0968	NA	NA	NA	< 0.0968	NA	NA	NA	< 0.0968	NA	NA
Hexachlorocyclopentadiene	NA	NA	< 0.0598	NA	NA	NA	< 0.0598	NA	NA	NA	< 0.0598	NA	NA
Hexachloroethane	< 4.2	NA	< 0.127	< 0.127	< 4.2	< 7.0	< 0.127	< 0.127	< 4.2	< 4.6	< 0.127	< 0.127	< 4.2
Hexachlorophene	NA	NA	< 1.44	NA	NA	NA	< 1.44	NA	NA	NA	< 1.44	NA	NA
Hexachloropropene	NA	NA	< 0.149	NA	NA	NA	< 0.149	NA	NA	NA	< 0.149	NA	NA
Indeno(1,2,3-cd)pyrene	< 0.040	< 0.043	< 0.279	< 0.279	0.057 J	< 0.85	< 0.279	< 0.279	< 0.040	< 0.88	< 0.279	< 0.279	< 0.040
Isodrin	NA	NA	< 4.11	NA	NA	NA	< 4.11	NA	NA	NA	< 4.11	NA	NA
Isophorone	NA	NA	< 0.143	NA	NA	NA	< 0.143	NA	NA	NA	< 0.143	NA	NA
Isosafrole	NA	NA	< 3.88	NA	NA	NA	< 3.88	NA	NA	NA	< 3.88	NA	NA
Kepone	NA	NA	< 2.66	NA	NA	NA	< 2.66	NA	NA	NA	< 2.66	NA	NA
Methapyrilene	NA	NA	< 10.0	NA	NA	NA	< 10.0	NA	NA	NA	< 10.0	NA	NA
Methyl methanesulfonate	NA	NA	< 3.40	NA	NA	NA	< 3.40	NA	NA	NA	< 3.40	NA	NA
Naphthalene	0.52	1.7	2.01	0.195 U	0.28	1.2 J	0.681 J	0.27 U	0.051 J	3.5 J	0.226 J	< 0.159	3.9
Nitrobenzene	NA	NA	< 0.297	NA	NA	NA	< 0.297	NA	NA	NA	< 0.297	NA	NA
N-Nitrosodiethylamine	NA	NA	< 3.57	NA	NA	NA	< 3.57	NA	NA	NA	< 3.57	NA	NA
N-Nitrosodimethylamine	NA	NA	< 0.998	NA	NA	NA	< 0.998	NA	NA	NA	< 0.998	NA	NA
N-Nitrosodi-n-butylamine	NA	NA	< 3.91	NA	NA	NA	< 3.91	NA	NA	NA	< 3.91	NA	NA
N-Nitrosodi-n-propylamine	NA	NA	< 0.261	NA	NA	NA	< 0.261	NA	NA	NA	< 0.261	NA	NA
N-Nitrosodiphenylamine	< 0.47	NA	< 2.37	< 2.37	< 0.47	< 0.79	< 2.37	< 2.37	< 0.47	< 0.52	< 2.37	< 2.37	< 0.47
N-Nitrosomethylethylamine	NA	NA	< 3.25	NA	NA	NA	< 3.25	NA	NA	NA	< 3.25	NA	NA
N-Nitrosomorpholine	NA	NA	< 3.25	NA	NA	NA	< 3.25	NA	NA	NA	< 3.25	NA	NA
N-Nitrosopiperidine	NA	NA	< 3.72	NA	NA	NA	< 3.72	NA	NA	NA	< 3.72	NA	NA
N-Nitrosopyrrolidine	NA	NA	< 3.39	NA	NA	NA	< 3.39	NA	NA	NA	< 3.39	NA	NA
Pentachlorobenzene	NA	NA	< 4.15	NA	NA	NA	< 4.15	NA	NA	NA	< 4.15	NA	NA
Pentachloronitrobenzene	NA	NA	< 4.15	NA	NA	NA	< 4.15	NA	NA	NA	< 4.15	NA	NA
Pentachlorophenol	< 1.8	< 2	< 0.313	< 0.313	< 1.8	< 3.0	< 0.313	< 0.313	< 1.8	< 2.0	< 0.313	< 0.313	< 1.8
Phenacetin	NA	NA	< 4.66	NA	NA	NA	< 4.66	NA	NA	NA	< 4.66	NA	NA
Phenanthrene	0.11 J	0.42	0.471 J	< 0.112	3.1	6.4	14.3	16.4	0.028 J	61	< 0.112	< 0.112	1.6
Phenol	8.7 J	3.3 J	< 4.33	< 4.33	< 2.6	< 4.4	< 4.33	< 4.33	< 2.6	< 2.9	< 4.33	< 4.33	< 2.6
P-Phenylenediamine	NA	NA	< 387 R	NA	NA	NA	< 387 R	NA	NA	NA	< 387 R	NA	NA
Pronamide (Kerb)	NA	NA	< 4.21	NA	NA	NA	< 4.21	NA	NA	NA	< 4.21	NA	NA
Pyrene	0.15 J	0.52	0.537 J	0.254 J	9.0	5.3	4.71	5.68	0.35	7.4	< 0.107	< 0.107	8.5
Pyridine	NA	NA	< 0.627	NA	NA	NA	< 0.627	NA	NA	NA	< 0.627	NA	NA
Safrole	NA	NA	< 3.68	NA	NA	NA	< 3.68	NA	NA	NA	< 3.68	NA	NA
Sulfotepp	NA	NA	< 3.99	NA	NA	NA	< 3.99	NA	NA	NA	< 3.99	NA	NA
Thionazin	NA	NA	< 4.07	NA	NA	NA	< 4.07	NA	NA	NA	< 4.07	NA	NA
Sulfide - EPA846 376.2, SM4500-S2-D, mg/L													
Sulfide	0.42	0.15	< 0.0062	< 0.0040	0.10	< 0.057	< 0.0062	< 0.0040	< 0.036	0.074 J	< 0.0062	< 0.0040	< 0.036
Volatile Organic Compounds - SW846 8260B, 8260C, ug/L													
1,1,1,2-Tetrachloroethane	NA	NA	< 0.147	NA	NA	NA	< 0.147	NA	NA	NA	< 0.147	NA	NA
1,1,1-Trichloroethane	NA	NA	< 0.149	NA	NA	NA	< 0.149	NA	NA	NA	< 0.149	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	< 0.133	NA	NA	NA	< 0.133	NA	NA	NA	< 0.133	NA	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NA	NA	< 0.180	NA	NA	NA	< 0.180	NA	NA	NA	< 0.180	NA	NA
1,1,2-Trichloroethane	NA	NA	< 0.158	NA	NA	NA	< 0.158	NA	NA	NA	< 0.158	NA	NA
1,1-Dichloroethane	< 0.50	< 0.5	< 0.100	< 0.1	< 0.50	< 0.5	< 0.100	< 0.1	< 0.50	< 0.5	< 0.100	< 0.1	< 0.50
1,1-Dichloroethene	< 0.50	NA	< 0.188	< 0.188	< 0.50	< 0.5	< 0.188	< 0.188	< 0.50	< 0.5	< 0.188	< 0.188	< 0.50
1,1-Dichloropropene	NA	NA	< 0.142	NA	NA	NA	< 0.142	NA	NA	NA	< 0.142	NA	NA
1,2,3-Trichlorobenzene	NA	NA	< 0.230	NA	NA	NA	< 0.230	NA	NA	NA	< 0.230	NA	NA
1,2,3-Trichloropropane	NA	NA	< 0.237	NA	NA	NA	< 0.237	NA	NA	NA	< 0.237	NA	NA
1,2,3-Trimethylbenzene	NA	NA	< 0.104	NA	NA	NA	0.712 J	NA	NA	NA	< 0.104	NA	NA
1,2,4-Trichlorobenzene	NA	NA	< 0.481	NA	NA	NA	0.324 J	NA	NA	NA	< 0.481	NA	NA
1,2,4-Trimethylbenzene	NA	NA	< 0.322	NA	NA	NA	< 0.322	NA	NA	NA	< 0.322	NA	NA
1,2-Dibromo-3-Chloropropane	NA	NA	< 0.276	NA	NA	NA	< 0.276	NA	NA	NA	< 0.276	NA	NA
1,2-Dibromoethane (Ethylene dibromide)	NA	NA	< 0.126	NA	NA	NA	< 0.126	NA	NA	NA	< 0.126	NA	NA
1,2-Dichlorobenzene	NA	NA	< 0.107	NA	NA	NA	< 0.107	NA	NA	NA	< 0.107	NA	NA
1,2-Dichloroethane	NA	NA	< 0.0819	NA	NA	NA	< 0.0819	NA	NA	NA	< 0.0819	NA	NA
1,2-Dichloropropane	< 0.50	NA	< 0.149	< 0.149	< 0.50	< 0.5	< 0.149	< 0.149	< 0.50	< 0.5	< 0.149	< 0.149	< 0.50
1,3,5-Trimethylbenzene	NA	NA	< 0.104	NA	NA	NA	< 0.104	NA	NA	NA	< 0.104	NA	NA
1,3-Butadiene	NA	NA	< 0.299	NA	NA	NA	< 0.299	NA	NA	NA	< 0.299	NA	NA
1,3-Dichlorobenzene	NA	NA	< 0.110	NA	NA	NA	< 0.110	NA	NA	NA	< 0.110	NA	NA
1,3-Dichloropropane	NA	NA	< 0.110	NA	NA	NA	< 0.110	NA	NA	NA	< 0.110	NA	NA

Table D-2
AWTC Summary of Groundwater Analytical Results for DNAPL Effectiveness Wells

Location ID: / Sample Date:	6-I 6/24/2016	6-I 8/2/2018	6-I 6/12/2020	6-I 6/21/2022	6-S 6/24/2016	6-S 6/13/2018	6-S 6/12/2020	6-S 6/21/2022	17-D 6/25/2016	17-D 6/13/2018	17-D 6/12/2020	17-D 6/22/2022	21-I 6/25/2016
1,4-Dichlorobenzene	NA	NA	< 0.120	NA	NA	NA	< 0.120	NA	NA	NA	< 0.120	NA	NA
1,4-Dioxane (p-Dioxane)	NA	NA	< 36.0	NA	NA	NA	< 36.0	NA	NA	NA	< 36.0	NA	NA
1-Methylnaphthalene	NA	NA	< 146 UJ	NA	NA	NA	< 7.30 UJ	NA	NA	NA	< 7.30 UJ	NA	NA
2,2,4-Trimethylpentane	NA	NA	< 0.391	NA	NA	NA	< 0.391	NA	NA	NA	< 0.391	NA	NA
2,2-Dichloropropane	NA	NA	< 0.161	NA	NA	NA	< 0.161	NA	NA	NA	< 0.161	NA	NA
2-Butanone (Methyl ethyl ketone)	NA	NA	< 1.19	NA	NA	NA	< 1.19	NA	NA	NA	< 1.19	NA	NA
2-Chloro-1,3-Butadiene	NA	NA	< 1.45	NA	NA	NA	< 1.45	NA	NA	NA	< 1.45	NA	NA
2-Chloroethyl vinyl ether	NA	NA	< 0.575	NA	NA	NA	< 0.575	NA	NA	NA	< 0.575	NA	NA
2-Chlorotoluene	NA	NA	< 0.106	NA	NA	NA	< 0.106	NA	NA	NA	< 0.106	NA	NA
2-Hexanone	NA	NA	< 0.787	NA	NA	NA	< 0.787	NA	NA	NA	< 0.787	NA	NA
2-Methyl-1-Propanol (isobutyl alcohol)	NA	NA	< 42.1	NA	NA	NA	< 42.1	NA	NA	NA	< 42.1	NA	NA
2-Methyl-2-Butanol	NA	NA	< 4.90	NA	NA	NA	< 4.90	NA	NA	NA	< 4.90	NA	NA
2-Methylnaphthalene	NA	NA	< 144 UJ	NA	NA	NA	20 J	NA	NA	NA	< 7.18 UJ	NA	NA
2-Nitropropane	NA	NA	< 1.75	NA	NA	NA	< 1.75	NA	NA	NA	< 1.75	NA	NA
4-Chlorotoluene	NA	NA	< 0.114	NA	NA	NA	< 0.114	NA	NA	NA	< 0.114	NA	NA
4-Isopropyltoluene (Cymene)	NA	NA	< 0.120	NA	NA	NA	< 0.120	NA	NA	NA	< 0.120	NA	NA
Acetone	50	< 10	< 11.3	< 11.3	< 10	< 10	< 11.3	< 11.3	< 10	< 10	< 11.3	< 11.3	< 10
Acetonitrile	NA	NA	< 24.0	NA	NA	NA	< 24.0	NA	NA	NA	< 24.0	NA	NA
Acrolein	NA	NA	< 2.54	NA	NA	NA	< 2.54	NA	NA	NA	< 2.54	NA	NA
Acrylonitrile	NA	NA	< 0.671	NA	NA	NA	< 0.671	NA	NA	NA	< 0.671	NA	NA
Allyl chloride (3-Chloropropene)	NA	NA	< 0.500	NA	NA	NA	< 0.500	NA	NA	NA	< 0.500	NA	NA
Benzene	< 0.38	< 0.38	0.19 J	0.119 J	< 0.38	< 0.38	0.122 J	< 0.0941	< 0.38	< 0.38	< 0.941	< 0.0941	< 0.38
Bromobenzene	NA	NA	< 0.118	NA	NA	NA	< 0.118	NA	NA	NA	< 0.118	NA	NA
Bromodichloromethane (Dichlorobromomethane)	< 0.50	NA	< 0.136	< 0.136	< 0.50	< 0.5	< 0.136	< 0.136	< 0.50	< 0.5	< 0.136	< 0.136	< 0.50
Bromoform (Tribromomethane)	NA	NA	< 0.129	NA	NA	NA	< 0.129	NA	NA	NA	< 0.129	NA	NA
Bromomethane (Methyl bromide)	NA	NA	< 0.605	NA	NA	NA	< 0.605	NA	NA	NA	< 0.605	NA	NA
Carbon disulfide	< 0.50	< 0.5	< 0.0962	< 0.0962	< 0.50	< 0.5	< 0.0962	0.347 J	< 0.50	< 0.5	0.276 J	< 0.0962	< 0.50
Carbon tetrachloride	NA	NA	< 0.128	NA	NA	NA	< 0.128	NA	NA	NA	< 0.128	NA	NA
Chlorobenzene	< 0.50	NA	< 0.116	< 0.116	< 0.50	< 0.5	< 0.116	< 0.116	< 0.50	< 0.5	< 0.116	< 0.116	< 0.50
Chlorobromomethane (Bromochloromethane)	NA	NA	< 0.128	NA	NA	NA	< 0.128	NA	NA	NA	< 0.128	NA	NA
Chlorodibromomethane (Dibromochloromethane)	NA	NA	< 0.140	NA	NA	NA	< 0.140	NA	NA	NA	< 0.140	NA	NA
Chloroethane	NA	NA	< 0.192	NA	NA	NA	< 0.192	NA	NA	NA	< 0.192	NA	NA
Chloroform	< 0.60	NA	< 0.111	< 0.111	< 0.60	< 0.6	< 0.111	< 0.111	< 0.60	< 0.6	< 0.111	< 0.111	< 0.60
Chloromethane (Methyl chloride)	NA	NA	< 0.960	NA	NA	NA	< 0.960	NA	NA	NA	< 0.960	NA	NA
cis-1,2-Dichloroethene	< 0.50	< 0.5	< 0.126	< 0.126	< 0.50	< 0.5	< 0.126	< 0.126	< 0.50	< 0.5	< 0.126	< 0.126	< 0.50
cis-1,3-Dichloropropene	NA	NA	< 0.111	NA	NA	NA	< 0.111	NA	NA	NA	< 0.111	NA	NA
Cyclohexane	NA	NA	< 0.188	NA	NA	NA	< 0.188	NA	NA	NA	< 0.188	NA	NA
Cyclohexanone	NA	NA	< 3.40	NA	NA	NA	< 3.40	NA	NA	NA	< 3.40	NA	NA
Dibromomethane (Methylene bromide)	NA	NA	< 0.122	NA	NA	NA	< 0.122	NA	NA	NA	< 0.122	NA	NA
Dichlorodifluoromethane (Freon 12)	NA	NA	< 0.374	NA	NA	NA	< 0.374	NA	NA	NA	< 0.374	NA	NA
Dichloromonofluoromethane	NA	NA	< 0.130	NA	NA	NA	< 0.130	NA	NA	NA	< 0.130	NA	NA
Dicyclopentadiene	NA	NA	< 0.253	NA	NA	NA	< 0.253	NA	NA	NA	< 0.253	NA	NA
Ethanol	NA	NA	< 42.0	NA	NA	NA	< 42.0	NA	NA	NA	< 42.0	NA	NA
Ethyl acetate	NA	NA	< 3.59	NA	NA	NA	< 3.59	NA	NA	NA	< 3.59	NA	NA
Ethyl methacrylate	NA	NA	< 1.48	NA	NA	NA	< 1.48	NA	NA	NA	< 1.48	NA	NA
Ethylbenzene	< 0.50	< 0.5	< 0.137	< 0.173	< 0.50	< 0.5	< 0.137	< 0.173	< 0.50	< 0.5	< 0.137	< 0.173	< 0.50
Hexachlorobutadiene	NA	NA	< 0.337	NA	NA	NA	< 0.337	NA	NA	NA	< 0.337	NA	NA
Hexachloroethane	NA	NA	< 0.316	NA	NA	NA	< 0.316	NA	NA	NA	< 3.16	NA	NA
Iodomethane (Methyl iodide)	NA	NA	< 6.00	NA	NA	NA	< 6.00	NA	NA	NA	< 6.00	NA	NA
Isopropyl alcohol	NA	NA	350 U	NA	NA	NA	< 1.65	NA	NA	NA	467 U	NA	NA
Isopropyl ether	NA	NA	< 0.105	NA	NA	NA	< 0.105	NA	NA	NA	< 0.105	NA	NA
Isopropylbenzene (Cumene)	NA	NA	< 0.105	NA	NA	NA	0.79 J	NA	NA	NA	< 0.105	NA	NA
m+p-Xylenes	NA	NA	< 0.430	0.45 J	NA	NA	0.516 J	0.924 J	NA	NA	< 0.430	< 0.43	NA
Methyl acetate	NA	NA	< 1.29	NA	NA	NA	< 1.29	NA	NA	NA	< 1.29	NA	NA
Methyl isobutyl ketone (4-Methyl-2-pentanone)	NA	NA	< 0.478	NA	NA	NA	< 0.478	NA	NA	NA	< 0.478	NA	NA
Methyl methacrylate	NA	NA	< 1.52	NA	NA	NA	< 1.52	NA	NA	NA	< 1.52	NA	NA
Methyl tertiary butyl ether (MTBE)	NA	NA	0.171 J	NA	NA	NA	< 0.101	NA	NA	NA	< 0.101	NA	NA
Methylacrylonitrile	NA	NA	< 14.2	NA	NA	NA	< 14.2	NA	NA	NA	< 14.2	NA	NA
Methylcyclohexane	NA	NA	< 0.660	NA	NA	NA	< 0.660	NA	NA	NA	< 0.660	NA	NA
Methylene chloride (Dichloromethane)	NA	NA	< 0.430	NA	NA	NA	< 0.430	NA	NA	NA	< 0.430	NA	NA
Naphthalene	NA	NA	< 20.0	NA	NA	NA	1.08 J	NA	NA	NA	< 1.00	NA	NA
n-Butyl alcohol	NA	NA	< 150	NA	NA	NA	< 150	NA	NA	NA	< 150	NA	NA
n-Butylbenzene	NA	NA	< 0.157	NA	NA	NA	< 0.157	NA	NA	NA	< 0.157	NA	NA
n-Heptane	NA	NA	< 0.373	NA	NA	NA	< 0.373	NA	NA	NA	< 0.373	NA	NA
n-Hexane	NA	NA	< 0.749	NA	NA	NA	< 0.749	NA	NA	NA	< 0.749	NA	NA
n-Propylbenzene	NA	NA	< 0.0993	NA	NA	NA	0.24 J	NA	NA	NA	< 0.0993	NA	NA
o-Xylene	NA	NA	< 0.174	< 0.174	NA	NA	0.339 J	0.407 J	NA	NA	< 0.174	< 0.174	NA
Pentachloroethane	NA	NA	< 46.0	NA	NA	NA	< 2.30	NA	NA	NA	< 23.0	NA	NA

Table D-2
AWTC Summary of Groundwater Analytical Results for DNAPL Effectiveness Wells

Location ID: / Sample Date:	6-I 6/24/2016	6-I 8/2/2018	6-I 6/12/2020	6-I 6/21/2022	6-S 6/24/2016	6-S 6/13/2018	6-S 6/12/2020	6-S 6/21/2022	17-D 6/25/2016	17-D 6/13/2018	17-D 6/12/2020	17-D 6/22/2022	21-I 6/25/2016
Propionitrile	NA	NA	< 16.2	NA	NA	NA	< 16.2	NA	NA	NA	< 16.2	NA	NA
Propylene (Propene)	NA	NA	< 0.936	NA	NA	NA	< 0.936	NA	NA	NA	< 0.936	NA	NA
sec-Butylbenzene (2-Phenylbutane)	NA	NA	< 0.125	NA	NA	NA	< 0.125	NA	NA	NA	< 0.125	NA	NA
Styrene	NA	NA	< 0.118	NA	NA	NA	< 0.118	NA	NA	NA	< 0.118	NA	NA
tert-Amyl methyl ether	NA	NA	< 0.195	NA	NA	NA	< 0.195	NA	NA	NA	< 0.195	NA	NA
Tert-buty formate	NA	NA	< 4.51	NA	NA	NA	< 4.51	NA	NA	NA	< 4.51	NA	NA
tert-Butyl alcohol	NA	NA	< 4.06	NA	NA	NA	< 4.06	NA	NA	NA	< 4.06	NA	NA
tert-Butyl ethyl ether	NA	NA	< 0.101	NA	NA	NA	< 0.101	NA	NA	NA	< 0.101	NA	NA
tert-Butylbenzene	NA	NA	< 0.127	NA	NA	NA	< 0.127	NA	NA	NA	< 0.127	NA	NA
Tetrachloroethene (PCE)	NA	NA	< 0.300	NA	NA	NA	< 0.300	NA	NA	NA	< 0.300	NA	NA
Tetrahydrofuran	NA	NA	< 0.929	NA	NA	NA	< 0.929	NA	NA	NA	< 0.929	NA	NA
Toluene	< 0.70	NA	< 0.278	< 0.278	< 0.70	< 0.7	< 0.278	< 0.278	< 0.70	< 0.7	< 0.278	< 0.278	< 0.70
trans-1,2-Dichloroethene	< 0.50	NA	< 0.149	< 0.149	< 0.50	< 0.5	< 0.149	< 0.149	< 0.50	< 0.5	< 0.149	< 0.149	< 0.50
trans-1,3-Dichloropropene	NA	NA	< 0.118	NA	NA	NA	< 0.118	NA	NA	NA	< 0.118	NA	NA
trans-1,4-Dichlorobutene	NA	NA	< 0.467	NA	NA	NA	< 0.467	NA	NA	NA	< 0.467	NA	NA
Trichloroethene (TCE)	< 0.50	< 0.5	< 0.190	< 0.19	< 0.50	< 0.5	< 0.190	< 0.19	0.69 J	< 0.5	< 0.190	< 0.19	< 0.50
Trichlorofluoromethane (Freon 11)	NA	NA	< 0.160	NA	NA	NA	< 0.160	NA	NA	NA	< 0.160	NA	NA
Vinyl acetate	NA	NA	< 0.692	NA	NA	NA	< 0.692	NA	NA	NA	< 0.692	NA	NA
Vinyl chloride	< 0.50	< 0.5	< 0.234	< 0.234	< 0.50	< 0.5	< 0.234	< 0.234	< 0.50	< 0.5	< 0.234	< 0.234	< 0.50
Xylenes, Total	< 1.6	< 2.6	< 0.174	0.45 J	< 1.6	< 1.6	0.855 J	1.33 J	< 1.6	< 1.6	< 0.174	< 0.174	< 1.6

Notes:
mg/L = milligrams per liter
pg/L = picograms per liter
ug/L = micrograms per liter
As specified in Section 6 of the 2014 permit application, these six DNAPL effectiveness wells were sampled biennially, in even calendar years, after the effective date (September 2014) of the renewed permit; note that in addition to site-specific constituents analyzed in accordance with Section 6 of the application, additional constituents were analyzed and thus reported in this table.

Data Qualifier Definitions:
B = The analyte was positively identified, the associated numerica value is estimated due to blank contamination
I = Interference present
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
NA = Not Analyzed
q = Result is the estimated maximum possible concentration, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference
R = The sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified
U = The analyte was analyzed for but was not detected at a concentration greater than the reported sample quantitation limit
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample
< = Not detected at or above the associated Method Detection Limit
DQE flags may vary by lab and based on professional judgement applied by DQE analyst.

Table D-2
AWTC Summary of Groundwater Analytical Results for DNAPL Effectiveness Wells

Location ID: / Sample Date:	21-I 6/14/2018	21-I 6/12/2020	21-I 6/21/2022	23-D 6/24/2016	23-D 6/14/2018	23-D 6/12/2020	23-D 6/21/2022	23-I 6/24/2016	23-I 6/14/2018	23-I 6/12/2020	23-I 6/21/2022
Chlorinated Herbicides - SW846 8151, ug/L											
2,2-Dichloropropionic acid (Dalapon)	NA	< 0.344	NA	NA	NA	< 0.354	NA	NA	NA	< 0.344	NA
2,4,5-T	NA	< 0.258	NA	NA	NA	< 0.266	NA	NA	NA	< 0.258	NA
2,4,5-TP (Silvex)	< 0.0073	< 0.335	< 0.335	< 0.036	0.012 J	< 0.345	< 0.335	< 0.036	< 0.0073	< 0.335	< 0.335
2,4-D	NA	< 0.547	NA	NA	NA	< 0.563	NA	NA	NA	< 0.547	NA
2,4-DB	NA	< 0.302	NA	NA	NA	< 0.311	NA	NA	NA	419	NA
Dicamba	NA	< 0.245	NA	NA	NA	< 0.252	NA	NA	NA	< 0.245	NA
Dichlorprop	NA	< 1.04	NA	NA	NA	< 1.07	NA	NA	NA	< 1.04	NA
Dinoseb	NA	< 0.250	NA	NA	NA	< 0.258	NA	NA	NA	< 0.250	NA
MCPA (2-Methyl-4-Chlorophenoxyacetic acid)	NA	< 13.1	NA	NA	NA	< 13.5	NA	NA	NA	< 13.1	NA
MCPP	NA	< 66	NA	NA	NA	< 68	NA	NA	NA	< 66	NA
Cyanide - EPA 846 335.4, mg/L											
Cyanide	NA	NA	0.003 U	NA	NA	NA	0.0015 U	NA	NA	NA	0.0018 U
Dioxins/Furans - SW846 8290, 8290A, pg/L											
1,2,3,4,6,7,8,9-OCDD (OCDD)	10 J	9.1 IJ	< 1.7	93 J	5.8 J	170	< 2.9	54 J	12 J	22 BJ	< 2.6
1,2,3,4,6,7,8,9-OCDF (OCDF)	1.2 J	< 2.2	< 0.51	5.2 J	0.8 J	16 J	< 1.1	3.2 J	1.1 J	< 2.9	< 1.2
1,2,3,4,6,7,8-HpCDD	1.5 J	< 1.5	< 1.1	7.4 J	1.2 J	21 J	< 1.5	2.7 J	1.8 J	2.2 IJ U	< 2.7
1,2,3,4,6,7,8-HpCDF	0.39 J	< 0.83	< 1	1.6 J	0.38 J	4.9 IJ	< 0.98	0.92 J	0.69 J	< 1.4	< 1.8
1,2,3,4,7,8,9-HpCDF	2.1 J	< 1.5	< 2.1	NA	2.6 J	< 2.0	< 2.1	NA	1.2 J	< 1.1	< 3.7
1,2,3,4,7,8-HxCDD	NA	< 1.0	< 0.64	NA	NA	< 0.65	< 0.93	NA	NA	< 0.99	< 1.3
1,2,3,4,7,8-HxCDF	NA	< 0.52	< 0.4	NA	NA	< 1.3	< 0.41	NA	NA	< 0.63	< 0.68
1,2,3,6,7,8-HxCDD	NA	< 0.90	< 0.78	NA	NA	< 0.61	< 0.79	NA	NA	< 0.66	< 1.6
1,2,3,6,7,8-HxCDF	NA	< 0.41	< 0.49	NA	NA	< 1.5	< 0.44	NA	NA	< 0.54	< 0.67
1,2,3,7,8,9-HxCDD	NA	< 0.90	< 0.61	NA	NA	< 0.76	< 1.3	NA	NA	< 0.67	< 1.1
1,2,3,7,8,9-HxCDF	NA	< 0.46	< 0.43	NA	NA	< 0.46	< 0.37	NA	NA	< 0.57	< 1.0
1,2,3,7,8-PeCDD	NA	< 0.75	< 0.75	NA	NA	< 0.90	< 0.38	NA	NA	< 0.66	< 0.69
1,2,3,7,8-PeCDF	NA	< 0.25	< 0.51	NA	NA	< 0.75	< 0.48	NA	NA	< 0.59	< 0.55
2,3,4,6,7,8-HxCDF	NA	< 0.37	< 0.39	NA	NA	< 1.2	< 0.49	NA	NA	< 0.44	< 0.64
2,3,4,7,8-PeCDF	NA	< 0.22	< 0.25	NA	NA	< 0.70	< 0.31	NA	NA	< 0.41	< 0.29
2,3,7,8-TCDD	NA	< 0.61	< 0.9	NA	NA	< 0.62	< 0.78	NA	NA	< 1.2	< 0.93
2,3,7,8-TCDF	NA	< 0.69	< 0.44	NA	NA	< 0.73	< 0.39	NA	NA	< 1.5	< 0.56
Total HpCDD	3.2 J	< 1.5	< 1.1	16 J	2.9 J	46 J	< 1.5	5.6 J	5.0 J	4.1 J	< 2.7
Total HpCDF	3.0 J	< 0.83	< 1.0	3.2 J	3.0 J	7.6 J	< 0.98	0.92 J	2.5 J	1.6 J	< 1.8
Total HxCDD	1.3 J	< 0.90	< 0.61	1.8 J	2.5 J	3.8 J	< 0.79	< 1.9	1.8 J	< 0.66	< 1.1
Total HxCDF	3.2 J	< 0.37	< 0.39	< 1.9	3.9 J	< 0.46	< 0.37	< 1.9	2.6 J	< 0.44	< 0.64
Total PeCDD	NA	< 0.75	< 0.75	NA	NA	< 0.90	< 0.38	NA	NA	< 0.66	< 0.69
Total PeCDF	NA	< 0.22	< 0.25	NA	NA	< 0.70	< 0.31	NA	NA	< 0.41	< 0.29
Total TCDD	< 2.2	< 0.61	< 0.9	< 1.9	< 2.2	< 0.62	< 0.78	< 1.9	0.96 J	< 1.2	< 0.93
Total TCDF	NA	< 0.69	< 0.44	NA	NA	< 0.73	< 0.39	NA	NA	< 1.5	< 0.56
Mercury, Total - SW846 7470, mg/L											
Mercury	< 0.00007	NA	< 0.00010	< 0.000070	< 0.00007	NA	< 0.00010	< 0.000070	< 0.00007	NA	< 0.00010
Metals, Total - SW846 6020, 6020A, mg/L											
Antimony	NA	NA	< 0.0013	NA	NA	NA	< 0.00063	NA	NA	NA	< 0.0013
Arsenic	0.014	0.0126	0.0052	0.00053 J	0.00017 J	< 0.0002	< 0.00020	0.0015	0.0014	0.0016	0.0013 J
Barium	0.04	0.0478	0.040	0.016	0.016	0.0129	0.014	0.0048	0.0043	0.0041	0.0031
Beryllium	NA	NA	< 0.00024	NA	NA	NA	< 0.00012	NA	NA	NA	< 0.00024
Cadmium	< 0.000068	< 0.00008	< 0.00016	< 0.00034	< 0.000068	< 0.00008	< 0.000080	< 0.00034	< 0.000068	< 0.00008	< 0.00016
Chromium	0.001	< 0.00062	< 0.0012	< 0.0011	< 0.00022	< 0.00062	< 0.00062	< 0.0011	0.00022 J	< 0.00062	< 0.0012
Cobalt	0.00054	0.0012	0.00097 J	< 0.00040	< 0.00008	0.00013 J	0.000092 J	< 0.00040	< 0.00008	0.000066 J	< 0.00012
Copper	< 0.00042	< 0.00083	< 0.0017	< 0.0021	0.0011	0.0025 J	0.002 U	< 0.0021	0.0021	0.0012 J	< 0.0017
Lead	< 0.00007	0.000085 J	< 0.00014	< 0.00035	< 0.00007	0.00023 J	< 0.000070	< 0.00035	0.00036	0.00027 J	< 0.00014
Nickel	0.0011	0.005	0.0040	0.0024 J	0.0026	0.002	0.0024	< 0.0018	0.0022	0.0018	0.0016 J
Selenium	0.0003 B	< 0.00037	< 0.00074	< 0.00024	0.000096 J	< 0.00037	< 0.00037	0.00024 J	0.00034 B	< 0.00037	< 0.00074
Silver	NA	NA	< 0.00016	NA	NA	NA	< 0.000080	NA	NA	NA	< 0.00016
Thallium	< 0.000017	< 0.00008	< 0.00016	< 0.000085	< 0.000017	< 0.00008	< 0.000080	< 0.000085	< 0.000017	< 0.00008	< 0.00016
Tin	NA	NA	< 0.00086	NA	NA	NA	0.0011 U	NA	NA	NA	< 0.00086
Vanadium	< 0.00028	< 0.0023	< 0.0046	< 0.0014	< 0.00028	0.00069 J	< 0.0023	0.0017 J	0.0025	< 0.0023	< 0.0046
Zinc	NA	0.0074 J	< 0.0088	NA	NA	0.0066 J	0.0058 U	NA	NA	0.0076 J	0.030 J
Pesticides - SW846 8081, ug/L											
Aldrin	NA	NA	< 0.0198	NA	NA	NA	< 0.0198	NA	NA	NA	< 0.0198
Phenolics - E420.1, E420.4, mg/L											
Total Recoverable Phenolics	< 0.0045	0.018 J	< 0.0250	< 0.0045	0.0066 J	< 0.025	< 0.0250	0.31	0.57	1.1	1.62
Semi-Volatile Organic Compounds - SW846 8270C, 8270D, 8270											
1,2,4,5-Tetrachlorobenzene	NA	< 0.0647	NA	NA	NA	< 0.0647	NA	NA	NA	< 1.29	NA
1,2,4-Trichlorobenzene	NA	< 0.0698	NA	NA	NA	< 0.0698	NA	NA	NA	< 1.40	NA
1,2-Dichlorobenzene	NA	< 0.0713	NA	NA	NA	< 0.0713	NA	NA	NA	< 1.43	NA
1,3,5-Trinitrobenzene	NA	< 1.32	NA	NA	NA	< 1.32	NA	NA	NA	< 26.4	NA
1,3-Dichlorobenzene	NA	< 0.132	NA	NA	NA	< 0.132	NA	NA	NA	< 2.64	NA

Table D-2
AWTC Summary of Groundwater Analytical Results for DNAPL Effectiveness Wells

Location ID: / Sample Date:	21-I 6/14/2018	21-I 6/12/2020	21-I 6/21/2022	23-D 6/24/2016	23-D 6/14/2018	23-D 6/12/2020	23-D 6/21/2022	23-I 6/24/2016	23-I 6/14/2018	23-I 6/12/2020	23-I 6/21/2022
1,3-Dinitrobenzene	NA	< 0.359	NA	NA	NA	< 0.359	NA	NA	NA	< 7.18	NA
1,4-Dichlorobenzene	NA	< 0.0942	NA	NA	NA	< 0.0942	NA	NA	NA	< 1.88	NA
1,4-Dioxane (p-Dioxane)	< 1.1	NA	0.364 U	< 1.0	< 1.1	NA	0.0981 U	< 1.0	< 1.1	NA	1.3
1,4-Naphthoquinone	NA	< 5.56 R	NA	NA	NA	< 5.56 R	NA	NA	NA	< 111 R	NA
1-Methylnaphthalene	< 0.023	< 0.0790	< 0.079	0.29	0.18 J	< 0.0790	< 0.079	5.9	18	13.4 J	61.1
1-Naphthylamine	< 4.5	< 0.289	< 0.289	< 4.0	< 4.3	< 0.289	< 0.289	< 4.0	< 4.2	< 5.78	5.67 J
2,3,4,6-Tetrachlorophenol	NA	< 0.231	NA	NA	NA	< 0.231	NA	NA	NA	< 4.62	NA
2,4,5-Trichlorophenol	NA	< 0.109	NA	NA	NA	< 0.109	NA	NA	NA	< 2.18	NA
2,4,6-Trichlorophenol	NA	< 0.100	NA	NA	NA	< 0.100	NA	NA	NA	< 2.00	NA
2,4-Dichlorophenol	NA	< 0.102	NA	NA	NA	< 0.102	NA	NA	NA	< 2.04	NA
2,4-Dimethylphenol	< 4.0	< 0.0636	< 0.0636	< 3.5	< 3.8	< 0.0636	< 0.0636	21	87	106 J	44.7 J
2,4-Dinitrophenol	NA	< 5.93	NA	NA	NA	< 5.93	NA	NA	NA	< 119	NA
2,4-Dinitrotoluene	NA	< 0.0983	NA	NA	NA	< 0.0983	NA	NA	NA	< 1.97	NA
2,6-Dichlorophenol	NA	< 0.102	NA	NA	NA	< 0.102	NA	NA	NA	< 2.04	NA
2,6-Dinitrotoluene	NA	< 0.250	NA	NA	NA	< 0.250	NA	NA	NA	< 5.00	NA
2-Acetylaminofluorene	NA	< 0.253	NA	NA	NA	< 0.253	NA	NA	NA	< 5.06	NA
2-Chloronaphthalene	NA	< 0.0648	NA	NA	NA	< 0.0648	NA	NA	NA	< 1.30	NA
2-Chlorophenol	NA	< 0.133	NA	NA	NA	< 0.133	NA	NA	NA	< 2.66	NA
2-Methylaniline (o-Toluidine)	< 6.8	< 3.53	< 3.53	< 6.0	< 6.4	< 3.53	< 3.53	6.4 J	7.8 J	< 70.6	< 35.3
2-Methylnaphthalene	< 0.023	< 0.117	< 0.117	0.18 J	0.093 J	< 0.117	< 0.117	1.5	15	6.54 J	27.5
2-Methylphenol (o-Cresol)	NA	< 0.0929	NA	NA	NA	< 0.0929	NA	NA	NA	5.15 J	NA
2-Naphthylamine	< 4.5	< 4.48	< 4.48	< 4.0	< 4.3	< 4.48	< 4.48	< 4.0	< 4.2	< 89.6	< 44.8
2-Nitroaniline	NA	< 0.102	NA	NA	NA	< 0.102	NA	NA	NA	< 2.04	NA
2-Nitrophenol	NA	< 0.117	NA	NA	NA	< 0.117	NA	NA	NA	< 2.34	NA
2-Picoline	NA	< 6.83	NA	NA	NA	< 6.83	NA	NA	NA	< 137	NA
3,3'-Dichlorobenzidine	NA	< 0.212	NA	NA	NA	< 0.212	NA	NA	NA	< 4.24	NA
3,3'-Dimethylbenzidine	NA	< 3.39	NA	NA	NA	< 3.39	NA	NA	NA	< 67.8	NA
3+4-Methylphenol (m,p-Cresol)	< 1.2	< 0.168	< 0.168	< 1.0	< 1.1	< 0.168	< 0.168	< 1.0	< 1.1	7.6 J	< 1.68
3-Methylchloranthrene	NA	< 0.164	NA	NA	NA	< 0.164	NA	NA	NA	< 3.28	NA
3-Nitroaniline	NA	< 0.0869	NA	NA	NA	< 0.0869	NA	NA	NA	< 1.74	NA
4,6-Dinitro-2-Methylphenol	NA	< 1.12	NA	NA	NA	< 1.12	NA	NA	NA	< 22.4	NA
4-Aminobiphenyl	NA	< 0.461	NA	NA	NA	< 0.461	NA	NA	NA	< 9.22	NA
4-Bromophenyl phenyl ether	NA	< 0.0877	NA	NA	NA	< 0.0877	NA	NA	NA	< 1.75	NA
4-Chloro-3-Methylphenol	NA	< 0.131	NA	NA	NA	< 0.131	NA	NA	NA	< 2.62	NA
4-Chloroaniline	NA	< 0.234	NA	NA	NA	< 0.234	NA	NA	NA	< 4.68	NA
4-Chlorophenyl phenyl ether	NA	< 0.0926	NA	NA	NA	< 0.0926	NA	NA	NA	< 1.85	NA
4-Dimethylaminoazobenzene	NA	< 3.69	NA	NA	NA	< 3.69	NA	NA	NA	< 73.8	NA
4-Nitroaniline	NA	< 0.0910	NA	NA	NA	< 0.0910	NA	NA	NA	< 1.82	NA
4-Nitrophenol	NA	< 0.143	NA	NA	NA	< 0.143	NA	NA	NA	< 2.86	NA
4-Nitroquinoline-N-Oxide	NA	< 2.03	NA	NA	NA	< 2.03	NA	NA	NA	< 40.6	NA
5-Nitro-O-Toluidine	NA	< 1.99	NA	NA	NA	< 1.99	NA	NA	NA	< 39.8	NA
7,12-Dimethylbenz(a)anthracene	NA	< 1.71	NA	NA	NA	< 1.71	NA	NA	NA	< 34.2	NA
Acenaphthene	< 0.023	< 0.0886	< 0.0886	1.2	0.43	< 0.0886	< 0.0886	11	34	44.1	137
Acenaphthylene	< 0.023	< 0.0921	< 0.0921	0.075 J	< 0.022	< 0.0921	< 0.0921	0.97	1.3 J	3.39 J	3.84 J
Acetophenone	NA	< 0.208	NA	NA	NA	< 0.208	NA	NA	NA	< 4.16	NA
alpha, alpha-Dimethylphenethylamine	NA	< 3.13 R	NA	NA	NA	< 3.13 R	NA	NA	NA	< 62.6 R	NA
Aniline	NA	< 1.65	NA	NA	NA	< 1.65	NA	NA	NA	< 33.0	NA
Anthracene	0.046 J	< 0.0804	< 0.0804	0.078 J	< 0.022	< 0.0804	< 0.0804	0.38	< 0.42	< 1.61	< 0.804
Aramite	NA	< 16.7	NA	NA	NA	< 16.7	NA	NA	NA	< 334	NA
Benzo(a)anthracene	1.1	< 0.199	< 0.199	< 0.040	< 0.044	< 0.199	< 0.199	< 0.040	< 0.85	< 3.98	< 1.99
Benzo(a)pyrene	0.091 J	< 0.0381	< 0.0381	< 0.040	< 0.044	< 0.0381	< 0.0381	< 0.040	< 0.85	< 0.762	< 0.381
Benzo(b)fluoranthene	0.2 J	< 0.130	< 0.13	< 0.040	< 0.044	< 0.130	< 0.13	< 0.040	< 0.85	< 2.60	< 1.3
Benzo(g,h,i)perylene	< 0.045	< 0.121	< 0.121	< 0.040	< 0.044	< 0.121	< 0.121	< 0.040	< 0.85	< 2.42	< 1.21
Benzo(k)fluoranthene	0.094 J	< 0.120	< 0.12	< 0.040	< 0.044	< 0.120	< 0.12	< 0.040	< 0.85	< 2.40	< 1.2
Benzyl Alcohol	NA	< 0.563	NA	NA	NA	< 0.563	NA	NA	NA	< 11.3	NA
bis(2-Chloroethoxy)methane	NA	< 0.116	NA	NA	NA	< 0.116	NA	NA	NA	< 2.32	NA
bis(2-Chloroethyl)ether	NA	< 0.137	NA	NA	NA	< 0.137	NA	NA	NA	< 2.74	NA
bis(2-Ethylhexyl)phthalate	< 2.6	< 0.895	< 0.895	< 2.3	< 2.4	< 0.895	< 0.895	< 2.3	< 2.4	< 17.9	< 8.95
Butyl benzyl phthalate	NA	< 0.765	NA	NA	NA	< 0.765	NA	NA	NA	< 15.3	NA
Chrysene	0.46	< 0.130	< 0.13	< 0.040	< 0.044	< 0.130	< 0.13	< 0.040	< 0.85	< 2.60	< 1.3
Diallate	NA	< 0.524	NA	NA	NA	< 0.524	NA	NA	NA	< 10.5	NA
Dibenzo(a,h)anthracene	NA	< 0.0644	NA	NA	NA	< 0.0644	NA	NA	NA	< 1.29	NA
Dibenzofuran	< 0.59	< 0.0970	< 0.097	< 0.52	< 0.56	< 0.0970	< 0.097	1.5 J	10 J	5.72 J	35.1 J
Diethyl phthalate	NA	< 0.287	NA	NA	NA	< 0.287	NA	NA	NA	< 5.74	NA
Dimethoate (Cygon)	NA	< 5.05	NA	NA	NA	< 5.05	NA	NA	NA	< 101	NA
Dimethyl phthalate	NA	< 0.260	NA	NA	NA	< 0.260	NA	NA	NA	< 5.20	NA
Di-n-butyl phthalate	NA	< 0.453	NA	NA	NA	< 0.453	NA	NA	NA	< 9.06	NA
Di-n-octyl phthalate	< 0.5	< 0.932	< 0.932	< 0.44	< 0.47	< 0.932	< 0.932	< 0.44	< 0.47	< 18.6	< 9.32

Table D-2
AWTC Summary of Groundwater Analytical Results for DNAPL Effectiveness Wells

Location ID: / Sample Date:	21-I 6/14/2018	21-I 6/12/2020	21-I 6/21/2022	23-D 6/24/2016	23-D 6/14/2018	23-D 6/12/2020	23-D 6/21/2022	23-I 6/24/2016	23-I 6/14/2018	23-I 6/12/2020	23-I 6/21/2022
Dinoseb	NA	< 8.01	NA	NA	NA	< 8.01	NA	NA	NA	< 160	NA
Diphenylamine	NA	< 2.37	NA	NA	NA	< 2.37	NA	NA	NA	< 47.4	NA
Ethyl methanesulfonate	NA	< 0.326	NA	NA	NA	< 0.326	NA	NA	NA	< 6.52	NA
Famphur	NA	< 3.92	NA	NA	NA	< 3.92	NA	NA	NA	< 78.4	NA
Fluoranthene	3.6	0.73 J	< 0.102	0.16 J	0.045 J	< 0.102	< 0.102	< 0.020	0.53 J	< 2.04	< 1.02
Fluorene	< 0.024	< 0.0844	< 0.0844	0.21	0.063 J	< 0.0844	< 0.0844	0.98	8.6	5.32 J	33.5
Hexachlorobenzene	NA	< 0.0755	NA	NA	NA	< 0.0755	NA	NA	NA	< 1.51	NA
Hexachlorobutadiene	NA	< 0.0968	NA	NA	NA	< 0.0968	NA	NA	NA	< 1.94	NA
Hexachlorocyclopentadiene	NA	< 0.0598	NA	NA	NA	< 0.0598	NA	NA	NA	< 1.20	NA
Hexachloroethane	< 4.7	< 0.127	< 0.127	< 4.2	< 4.5	< 0.127	< 0.127	< 4.2	< 4.5	< 2.54	< 1.27
Hexachlorophene	NA	< 1.44	NA	NA	NA	< 1.44	NA	NA	NA	< 28.8	NA
Hexachloropropene	NA	< 0.149	NA	NA	NA	< 0.149	NA	NA	NA	< 2.98	NA
Indeno(1,2,3-cd)pyrene	< 0.045	< 0.279	< 0.279	< 0.040	< 0.044	< 0.279	< 0.279	< 0.040	< 0.85	< 5.58	< 2.79
Isodrin	NA	< 4.11	NA	NA	NA	< 4.11	NA	NA	NA	< 82.2	NA
Isophorone	NA	< 0.143	NA	NA	NA	< 0.143	NA	NA	NA	< 2.86	NA
Isosafrole	NA	< 3.88	NA	NA	NA	< 3.88	NA	NA	NA	< 77.6	NA
Kepone	NA	< 2.66	NA	NA	NA	< 2.66	NA	NA	NA	< 53.2	NA
Methapyrilene	NA	< 10.0	NA	NA	NA	< 10.0	NA	NA	NA	< 200	NA
Methyl methanesulfonate	NA	< 3.40	NA	NA	NA	< 3.40	NA	NA	NA	< 68.0	NA
Naphthalene	< 0.023	< 0.159	< 0.159	0.98	0.26	< 0.159	< 0.159	310	820	450	1020
Nitrobenzene	NA	< 0.297	NA	NA	NA	< 0.297	NA	NA	NA	< 5.94	NA
N-Nitrosodiethylamine	NA	< 3.57	NA	NA	NA	< 3.57	NA	NA	NA	< 71.4	NA
N-Nitrosodimethylamine	NA	< 0.998	NA	NA	NA	< 0.998	NA	NA	NA	< 20.0	NA
N-Nitrosodi-n-butylamine	NA	< 3.91	NA	NA	NA	< 3.91	NA	NA	NA	< 78.2	NA
N-Nitrosodi-n-propylamine	NA	< 0.261	NA	NA	NA	< 0.261	NA	NA	NA	< 5.22	NA
N-Nitrosodiphenylamine	< 0.53	< 2.37	< 2.37	< 0.47	< 0.5	< 2.37	< 2.37	< 0.47	< 0.5	< 47.4	< 23.7
N-Nitrosomethylethylamine	NA	< 3.25	NA	NA	NA	< 3.25	NA	NA	NA	< 65.0	NA
N-Nitrosomorpholine	NA	< 3.25	NA	NA	NA	< 3.25	NA	NA	NA	< 65.0	NA
N-Nitrosopiperidine	NA	< 3.72	NA	NA	NA	< 3.72	NA	NA	NA	< 74.4	NA
N-Nitrosopyrrolidine	NA	< 3.39	NA	NA	NA	< 3.39	NA	NA	NA	< 67.8	NA
Pentachlorobenzene	NA	< 4.15	NA	NA	NA	< 4.15	NA	NA	NA	< 83.0	NA
Pentachloronitrobenzene	NA	< 4.15	NA	NA	NA	< 4.15	NA	NA	NA	< 83.0	NA
Pentachlorophenol	< 2.0	< 0.313	< 0.313	6.1 J	3.2 J	< 0.313	< 0.313	1.9 J	3.0 J	< 6.26	< 3.13
Phenacetin	NA	< 4.66	NA	NA	NA	< 4.66	NA	NA	NA	< 93.2	NA
Phenanthrene	< 0.023	< 0.112	0.157 J	0.13 J	0.036 J	< 0.112	< 0.112	0.26	3.8 J	< 2.24	17.9
Phenol	< 2.9	< 4.33	< 4.33	< 2.6	< 2.8	< 4.33	< 4.33	< 2.6	< 2.8	< 86.6	< 43.3
P-Phenylenediamine	NA	< 387 R	NA	NA	NA	< 387 R	NA	NA	NA	< 7740 R	NA
Pronamide (Kerb)	NA	< 4.21	NA	NA	NA	< 4.21	NA	NA	NA	< 84.2	NA
Pyrene	17	7.17	2.35	0.098 J	0.036 J	< 0.107	< 0.107	< 0.020	0.61 J	< 2.14	< 1.07
Pyridine	NA	< 0.627	NA	NA	NA	< 0.627	NA	NA	NA	< 12.5	NA
Safrole	NA	< 3.68	NA	NA	NA	< 3.68	NA	NA	NA	< 73.6	NA
Sulfotepp	NA	< 3.99	NA	NA	NA	< 3.99	NA	NA	NA	< 79.8	NA
Thionazin	NA	< 4.07	NA	NA	NA	< 4.07	NA	NA	NA	< 81.4	NA
Sulfide - EPA846 376.2, SM4500-S2-D, mg/L											
Sulfide	< 0.057	< 0.0062	< 0.0040	0.048 J	< 0.057	< 0.0062	< 0.0040	< 0.036	< 0.057	< 0.0062	< 0.0040
Volatile Organic Compounds - SW846 8260B, 8260C, ug/L											
1,1,1,2-Tetrachloroethane	NA	< 0.147	NA	NA	NA	< 0.147	NA	NA	NA	< 0.147	NA
1,1,1-Trichloroethane	NA	< 0.149	NA	NA	NA	< 0.149	NA	NA	NA	< 0.149	NA
1,1,2,2-Tetrachloroethane	NA	< 0.133	NA	NA	NA	< 0.133	NA	NA	NA	< 0.133	NA
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NA	< 0.180	NA	NA	NA	< 0.180	NA	NA	NA	< 0.180	NA
1,1,2-Trichloroethane	NA	< 0.158	NA	NA	NA	< 0.158	NA	NA	NA	< 0.158	NA
1,1-Dichloroethane	< 0.5	< 0.100	< 0.1	< 1.0	< 0.5	< 0.100	< 0.1	< 0.50	< 0.5	< 0.100	< 0.1
1,1-Dichloroethene	< 0.5	< 0.188	< 0.188	< 1.0	< 0.5	< 0.188	< 0.188	< 0.50	< 0.5	< 0.188	< 0.188
1,1-Dichloropropene	NA	< 0.142	NA	NA	NA	< 0.142	NA	NA	NA	< 0.142	NA
1,2,3-Trichlorobenzene	NA	< 0.230	NA	NA	NA	< 0.230	NA	NA	NA	< 0.230	NA
1,2,3-Trichloropropane	NA	< 0.237	NA	NA	NA	< 0.237	NA	NA	NA	< 0.237	NA
1,2,3-Trimethylbenzene	NA	< 0.104	NA	NA	NA	< 0.104	NA	NA	NA	2.15	NA
1,2,4-Trichlorobenzene	NA	< 0.481	NA	NA	NA	< 0.481	NA	NA	NA	< 0.481	NA
1,2,4-Trimethylbenzene	NA	< 0.322	NA	NA	NA	< 0.322	NA	NA	NA	2.62	NA
1,2-Dibromo-3-Chloropropane	NA	< 0.276	NA	NA	NA	< 0.276	NA	NA	NA	< 0.276	NA
1,2-Dibromoethane (Ethylene dibromide)	NA	< 0.126	NA	NA	NA	< 0.126	NA	NA	NA	< 0.126	NA
1,2-Dichlorobenzene	NA	< 0.107	NA	NA	NA	< 0.107	NA	NA	NA	< 0.107	NA
1,2-Dichloroethane	NA	< 0.0819	NA	NA	NA	< 0.0819	NA	NA	NA	< 0.0819	NA
1,2-Dichloropropane	< 0.5	< 0.149	< 0.149	< 1.0	< 0.5	< 0.149	< 0.149	< 0.50	< 0.5	< 0.149	< 0.149
1,3,5-Trimethylbenzene	NA	< 0.104	NA	NA	NA	< 0.104	NA	NA	NA	0.753 J	NA
1,3-Butadiene	NA	< 0.299	NA	NA	NA	< 0.299	NA	NA	NA	< 0.299	NA
1,3-Dichlorobenzene	NA	< 0.110	NA	NA	NA	< 0.110	NA	NA	NA	< 0.110	NA
1,3-Dichloropropane	NA	< 0.110	NA	NA	NA	< 0.110	NA	NA	NA	< 0.110	NA

Table D-2
AWTC Summary of Groundwater Analytical Results for DNAPL Effectiveness Wells

Location ID: / Sample Date:	21-I 6/14/2018	21-I 6/12/2020	21-I 6/21/2022	23-D 6/24/2016	23-D 6/14/2018	23-D 6/12/2020	23-D 6/21/2022	23-I 6/24/2016	23-I 6/14/2018	23-I 6/12/2020	23-I 6/21/2022
1,4-Dichlorobenzene	NA	< 0.120	NA	NA	NA	< 0.120	NA	NA	NA	< 0.120	NA
1,4-Dioxane (p-Dioxane)	NA	< 36.0	NA	NA	NA	< 36.0	NA	NA	NA	< 36.0	NA
1-Methylnaphthalene	NA	< 7.30 UJ	NA	NA	NA	< 7.30 UJ	NA	NA	NA	13.3 J	NA
2,2,4-Trimethylpentane	NA	< 0.391	NA	NA	NA	< 0.391	NA	NA	NA	< 0.391	NA
2,2-Dichloropropane	NA	< 0.161	NA	NA	NA	< 0.161	NA	NA	NA	< 0.161	NA
2-Butanone (Methyl ethyl ketone)	NA	< 1.19	NA	NA	NA	< 1.19	NA	NA	NA	< 1.19	NA
2-Chloro-1,3-Butadiene	NA	< 1.45	NA	NA	NA	< 1.45	NA	NA	NA	< 1.45	NA
2-Chloroethyl vinyl ether	NA	< 0.575	NA	NA	NA	< 0.575	NA	NA	NA	< 0.575	NA
2-Chlorotoluene	NA	< 0.106	NA	NA	NA	< 0.106	NA	NA	NA	< 0.106	NA
2-Hexanone	NA	< 0.787	NA	NA	NA	< 0.787	NA	NA	NA	< 0.787	NA
2-Methyl-1-Propanol (isobutyl alcohol)	NA	< 42.1	NA	NA	NA	< 42.1	NA	NA	NA	< 42.1	NA
2-Methyl-2-Butanol	NA	< 4.90	NA	NA	NA	< 4.90	NA	NA	NA	< 4.90	NA
2-Methylnaphthalene	NA	< 7.18 UJ	NA	NA	NA	< 7.18 UJ	NA	NA	NA	22 J	NA
2-Nitropropane	NA	< 1.75	NA	NA	NA	< 1.75	NA	NA	NA	< 1.75	NA
4-Chlorotoluene	NA	< 0.114	NA	NA	NA	< 0.114	NA	NA	NA	< 0.114	NA
4-Isopropyltoluene (Cymene)	NA	< 0.120	NA	NA	NA	< 0.120	NA	NA	NA	0.358 J	NA
Acetone	< 10	< 11.3	< 11.3	1500	< 10	< 11.3	< 11.3	< 10	< 10	12.8 J	< 11.3
Acetonitrile	NA	< 24.0	NA	NA	NA	< 24.0	NA	NA	NA	< 24.0	NA
Acrolein	NA	< 2.54	NA	NA	NA	< 2.54	NA	NA	NA	< 2.54	NA
Acrylonitrile	NA	< 0.671	NA	NA	NA	< 0.671	NA	NA	NA	< 0.671	NA
Allyl chloride (3-Chloropropene)	NA	< 0.500	NA	NA	NA	< 0.500	NA	NA	NA	< 0.500	NA
Benzene	< 0.38	< 0.0941	< 0.0941	< 0.76	< 0.38	< 9.41	< 0.0941	3.2	13	60.5	121
Bromobenzene	NA	< 0.118	NA	NA	NA	< 0.118	NA	NA	NA	< 0.118	NA
Bromodichloromethane (Dichlorobromomethane)	< 0.5	< 0.136	< 0.136	< 1.0	< 0.5	< 0.136	< 0.136	< 0.50	< 0.5	< 0.136	< 0.136
Bromoform (Tribromomethane)	NA	< 0.129	NA	NA	NA	< 0.129	NA	NA	NA	< 0.129	NA
Bromomethane (Methyl bromide)	NA	< 0.605	NA	NA	NA	< 0.605	NA	NA	NA	< 0.605	NA
Carbon disulfide	< 0.5	0.378 J	< 0.0962	< 1.0	< 0.5	0.304 J	< 0.0962	< 0.50	< 0.5	< 0.0962	< 0.0962
Carbon tetrachloride	NA	< 0.128	NA	NA	NA	< 0.128	NA	NA	NA	< 0.128	NA
Chlorobenzene	< 0.5	< 0.116	< 0.116	< 1.0	< 0.5	< 0.116	< 0.116	< 0.50	< 0.5	< 0.116	< 0.116
Chlorobromomethane (Bromochloromethane)	NA	< 0.128	NA	NA	NA	< 0.128	NA	NA	NA	< 0.128	NA
Chlorodibromomethane (Dibromochloromethane)	NA	< 0.140	NA	NA	NA	< 0.140	NA	NA	NA	< 0.140	NA
Chloroethane	NA	< 0.192	NA	NA	NA	< 0.192	NA	NA	NA	< 0.192	NA
Chloroform	< 0.6	< 0.111	< 0.111	< 1.2	< 0.6	< 0.111	< 0.111	< 0.60	< 0.6	< 0.111	< 0.111
Chloromethane (Methyl chloride)	NA	< 0.960	NA	NA	NA	< 0.960	NA	NA	NA	< 0.960	NA
cis-1,2-Dichloroethene	< 0.5	< 0.126	< 0.126	< 1.0	< 0.5	< 0.126	< 0.126	< 0.50	< 0.5	< 0.126	< 0.126
cis-1,3-Dichloropropene	NA	< 0.111	NA	NA	NA	< 0.111	NA	NA	NA	< 0.111	NA
Cyclohexane	NA	< 0.188	NA	NA	NA	< 0.188	NA	NA	NA	< 0.188	NA
Cyclohexanone	NA	< 3.40	NA	NA	NA	< 3.40	NA	NA	NA	< 3.40	NA
Dibromomethane (Methylene bromide)	NA	< 0.122	NA	NA	NA	< 0.122	NA	NA	NA	< 0.122	NA
Dichlorodifluoromethane (Freon 12)	NA	< 0.374	NA	NA	NA	< 0.374	NA	NA	NA	< 0.374	NA
Dichloromonofluoromethane	NA	< 0.130	NA	NA	NA	< 0.130	NA	NA	NA	0.684 J	NA
Dicyclopentadiene	NA	< 0.253	NA	NA	NA	< 0.253	NA	NA	NA	< 0.253	NA
Ethanol	NA	< 42.0	NA	NA	NA	< 42.0	NA	NA	NA	< 42.0	NA
Ethyl acetate	NA	< 3.59	NA	NA	NA	< 3.59	NA	NA	NA	< 3.59	NA
Ethyl methacrylate	NA	< 1.48	NA	NA	NA	< 1.48	NA	NA	NA	< 1.48	NA
Ethylbenzene	< 0.5	< 0.137	< 0.173	< 1.0	< 0.5	< 0.137	< 0.173	0.74 J	8.1	8.84	44.9
Hexachlorobutadiene	NA	< 0.337	NA	NA	NA	< 0.337	NA	NA	NA	< 0.337	NA
Hexachloroethane	NA	< 0.316	NA	NA	NA	< 31.6	NA	NA	NA	< 0.316	NA
Iodomethane (Methyl iodide)	NA	< 6.00	NA	NA	NA	< 6.00	NA	NA	NA	< 6.00	NA
Isopropyl alcohol	NA	< 1.65	NA	NA	NA	3300 U	NA	NA	NA	50.5 U	NA
Isopropyl ether	NA	< 0.105	NA	NA	NA	< 0.105	NA	NA	NA	< 0.105	NA
Isopropylbenzene (Cumene)	NA	< 0.105	NA	NA	NA	< 0.105	NA	NA	NA	0.521 J	NA
m+p-Xylenes	NA	< 0.430	< 0.43	NA	NA	< 0.430	< 0.43	NA	NA	5.82	12.5
Methyl acetate	NA	< 1.29	NA	NA	NA	< 1.29	NA	NA	NA	< 1.29	NA
Methyl isobutyl ketone (4-Methyl-2-pentanone)	NA	< 0.478	NA	NA	NA	< 0.478	NA	NA	NA	< 0.478	NA
Methyl methacrylate	NA	< 1.52	NA	NA	NA	< 1.52	NA	NA	NA	< 1.52	NA
Methyl tertiary butyl ether (MTBE)	NA	< 0.101	NA	NA	NA	< 0.101	NA	NA	NA	0.898 J	NA
Methylacrylonitrile	NA	< 14.2	NA	NA	NA	< 14.2	NA	NA	NA	< 14.2	NA
Methylcyclohexane	NA	< 0.660	NA	NA	NA	< 0.660	NA	NA	NA	< 0.660	NA
Methylene chloride (Dichloromethane)	NA	< 0.430	NA	NA	NA	< 0.430	NA	NA	NA	< 0.430	NA
Naphthalene	NA	< 1.00	NA	NA	NA	< 1.00	NA	NA	NA	515	NA
n-Butyl alcohol	NA	< 150	NA	NA	NA	< 150	NA	NA	NA	< 150	NA
n-Butylbenzene	NA	< 0.157	NA	NA	NA	< 0.157	NA	NA	NA	< 0.157	NA
n-Heptane	NA	< 0.373	NA	NA	NA	< 0.373	NA	NA	NA	< 0.373	NA
n-Hexane	NA	< 0.749	NA	NA	NA	< 0.749	NA	NA	NA	< 0.749	NA
n-Propylbenzene	NA	< 0.0993	NA	NA	NA	< 0.0993	NA	NA	NA	0.23 J	NA
o-Xylene	NA	< 0.174	< 0.174	NA	NA	< 0.174	< 0.174	NA	NA	4.43	11.5
Pentachloroethane	NA	< 2.30	NA	NA	NA	< 230	NA	NA	NA	< 2.30	NA

Table D-2
AWTC Summary of Groundwater Analytical Results for DNAPL Effectiveness Wells

Location ID: / Sample Date:	21-I 6/14/2018	21-I 6/12/2020	21-I 6/21/2022	23-D 6/24/2016	23-D 6/14/2018	23-D 6/12/2020	23-D 6/21/2022	23-I 6/24/2016	23-I 6/14/2018	23-I 6/12/2020	23-I 6/21/2022
Propionitrile	NA	< 16.2	NA	NA	NA	< 16.2	NA	NA	NA	< 16.2	NA
Propylene (Propene)	NA	< 0.936	NA	NA	NA	< 0.936	NA	NA	NA	< 0.936	NA
sec-Butylbenzene (2-Phenylbutane)	NA	< 0.125	NA	NA	NA	< 0.125	NA	NA	NA	< 0.125	NA
Styrene	NA	< 0.118	NA	NA	NA	< 0.118	NA	NA	NA	< 0.118	NA
tert-Amyl methyl ether	NA	< 0.195	NA	NA	NA	< 0.195	NA	NA	NA	< 0.195	NA
Tert-buty formate	NA	< 4.51	NA	NA	NA	< 4.51	NA	NA	NA	< 4.51	NA
tert-Butyl alcohol	NA	< 4.06	NA	NA	NA	< 4.06	NA	NA	NA	< 4.06	NA
tert-Butyl ethyl ether	NA	< 0.101	NA	NA	NA	< 0.101	NA	NA	NA	< 0.101	NA
tert-Butylbenzene	NA	< 0.127	NA	NA	NA	< 0.127	NA	NA	NA	< 0.127	NA
Tetrachloroethene (PCE)	NA	< 0.300	NA	NA	NA	< 0.300	NA	NA	NA	< 0.300	NA
Tetrahydrofuran	NA	< 0.929	NA	NA	NA	< 0.929	NA	NA	NA	< 0.929	NA
Toluene	< 0.7	< 0.278	< 0.278	< 1.4	< 0.7	< 0.278	< 0.278	< 0.70	< 0.7	1.92	1.72
trans-1,2-Dichloroethene	< 0.5	< 0.149	< 0.149	< 1.0	< 0.5	< 0.149	< 0.149	< 0.50	< 0.5	< 0.149	< 0.149
trans-1,3-Dichloropropene	NA	< 0.118	NA	NA	NA	< 0.118	NA	NA	NA	< 0.118	NA
trans-1,4-Dichlorobutene	NA	< 0.467	NA	NA	NA	< 0.467	NA	NA	NA	< 0.467	NA
Trichloroethene (TCE)	< 0.5	< 0.190	< 0.19	< 1.0	< 0.5	< 0.190	< 0.19	< 0.50	< 0.5	< 0.190	< 0.19
Trichlorofluoromethane (Freon 11)	NA	< 0.160	NA	NA	NA	< 0.160	NA	NA	NA	< 0.160	NA
Vinyl acetate	NA	< 0.692	NA	NA	NA	< 0.692	NA	NA	NA	< 0.692	NA
Vinyl chloride	< 0.5	< 0.234	< 0.234	< 1.0	< 0.5	< 0.234	< 0.234	< 0.50	< 0.5	< 0.234	< 0.234
Xylenes, Total	< 1.6	< 0.174	< 0.174	< 3.2	< 1.6	< 0.174	< 0.174	< 1.6	6.5 J	10.3	24

Notes:
mg/L = milligrams per liter
pg/L = picograms per liter
ug/L = micrograms per liter
As specified in Section 6 of the 2014 permit application, these six DNAPL effectiveness wells were sampled biennially, in even calendar years, after the effective date (September 2014) of the renewed permit; note that in addition to site-specific constituents analyzed in accordance with Section 6 of the application, additional constituents were analyzed and thus reported in this table.

Data Qualifier Definitions:
B = The analyte was positively identified, the associated numerica value is estimated due to blank contamination
I = Interference present
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample
NA = Not Analyzed
q = Result is the estimated maximum possible concentration, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference
R = The sample result is rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified
U = The analyte was analyzed for but was not detected at a concentration greater than the reported sample quantitation limit
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample
< = Not detected at or above the associated Method Detection Limit
DQE flags may vary by lab and based on professional judgement applied by DQE analyst.

Appendix E

Laboratory Analytical Results for June 2022 and June 2023 Analysis

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

July 12, 2022

Gretchen Barrera
Alabama State Port Authority
P.O. Box 1588
Mobile, AL 36633

RE: Project: Alabama Wood Treating
Pace Project No.: 20247389

Dear Gretchen Barrera:

Enclosed are the analytical results for sample(s) received by the laboratory on June 22, 2022. The results relate only to the samples included in this report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Gulf Coast
- Pace Analytical Services - New Orleans

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

MK Brenner

Mary Kathryn Brenner
marykathryn.brenner@pacelabs.com
251-344-9106
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

CERTIFICATIONS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Pace Analytical Services New Orleans

Florida Department of Health (NELAC): E87595
Illinois Environmental Protection Agency: 0025721
Kansas Department of Health and Environment (NELAC): E-10266
Louisiana Dept. of Environmental Quality (NELAC/LELAP): 02006
Texas Commission on Env. Quality (NELAC): T104704405-09-TX
U.S. Dept. of Agriculture Foreign Soil Import: P330-10-00119

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Mold Certification #: LAB0152
Texas Certification #: T 104704245-17-14
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Gulf Coast

7979 Innovation Park Drive, Baton Rouge, LA 70820
Arkansas Certification #: 88-0655
DoD ELAP Certification #: 6429-01
Florida Certification #: E87854
Illinois Certification #: 004585
Kansas Certification #: E-10354
Louisiana/LELAP Certification #: 01955
North Carolina Certification #: 618
North Dakota Certification #: R-195
Oklahoma Certification #: 2019-101
South Carolina Certification #: 73006001
Texas Certification #: T104704178-19-11
USDA Soil Permit # P330-19-00209
Virginia Certification #: 460215
Washington Certification #: C929

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

SAMPLE SUMMARY

Project: Alabama Wood Treating
Pace Project No.: 20247389

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20247389001	6-I	Water	06/21/22 10:55	06/22/22 14:10
20247389002	6-S	Water	06/21/22 09:45	06/22/22 14:10
20247389003	7-D	Water	06/21/22 08:20	06/22/22 14:10
20247389004	7-IR	Water	06/21/22 09:20	06/22/22 14:10
20247389005	7-S	Water	06/21/22 08:10	06/22/22 14:10
20247389006	8-D	Water	06/21/22 15:10	06/22/22 14:10
20247389007	8-DK	Water	06/22/22 08:40	06/22/22 14:10
20247389008	8-I	Water	06/22/22 08:40	06/22/22 14:10
20247389009	9-I	Water	06/20/22 15:50	06/22/22 14:10
20247389010	8-S	Water	06/21/22 15:00	06/22/22 14:10
20247389011	15-D	Water	06/20/22 16:20	06/22/22 14:10
20247389012	15-I	Water	06/21/22 16:30	06/22/22 14:10
20247389013	15-S	Water	06/20/22 17:05	06/22/22 14:10
20247389014	16-D	Water	06/20/22 13:30	06/22/22 14:10
20247389015	16-I	Water	06/20/22 14:20	06/22/22 14:10
20247389016	17-D	Water	06/22/22 11:15	06/22/22 14:10
20247389017	19-SR	Water	06/20/22 09:40	06/22/22 14:10
20247389018	21-I	Water	06/21/22 13:30	06/22/22 14:10
20247389019	23-D	Water	06/21/22 11:15	06/22/22 14:10
20247389020	23-I	Water	06/21/22 12:05	06/22/22 14:10
20247389021	31-DR	Water	06/20/22 11:20	06/22/22 14:10
20247389022	31-IR	Water	06/20/22 10:00	06/22/22 14:10
20247389023	32-I	Water	06/20/22 11:45	06/22/22 14:10
20247389024	32-S	Water	06/20/22 12:52	06/22/22 14:10
20247389025	Equipment Blank 1	Water	06/20/22 07:25	06/22/22 14:10
20247389026	Equipment Blank 2	Water	06/20/22 07:45	06/22/22 14:10
20247389027	Equipment Blank 3	Water	06/20/22 08:05	06/22/22 14:10
20247389028	Equipment Blank 4	Water	06/21/22 17:05	06/22/22 14:10
20247389029	Equipment Blank 5	Water	06/21/22 17:25	06/22/22 14:10
20247389030	Equipment Blank 6	Water	06/21/22 17:45	06/22/22 14:10
20247389031	Field Dup 1	Water	06/21/22 08:20	06/22/22 14:10
20247389032	Field Dup 2	Water	06/21/22 09:45	06/22/22 14:10
20247389033	Trip Blank 1	Water	06/20/22 06:00	06/22/22 14:10
20247389034	Trip Blank 2	Water	06/20/22 06:05	06/22/22 14:10
20247389035	Trip Blank 3	Water	06/21/22 06:00	06/22/22 14:10
20247389036	Trip Blank 4	Water	06/21/22 06:05	06/22/22 14:10
20247389037	Trip Blank 5	Water	06/22/22 06:00	06/22/22 14:10

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

SAMPLE SUMMARY

Project: Alabama Wood Treating
Pace Project No.: 20247389

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20247389038	**Trip Blank 6**	Water	06/22/22 06:05	06/22/22 14:10

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

SAMPLE ANALYTE COUNT

Project: Alabama Wood Treating
Pace Project No.: 20247389

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
20247389001	**6-I**	EPA 8081	JMB	3	PAN
		EPA 8151	AO	2	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	TDM	1	PASI-GCLA
		EPA 8270C	ADF, JNJ	35	PAN
		EPA 8270C Modified	ADF	2	PAN
		EPA 8260B	JHH	21	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389002	**6-S**	EPA 8081	JMB	3	PAN
		EPA 8151	AO	2	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	TDM	1	PASI-GCLA
		EPA 8270C	ADF, JNJ	35	PAN
		EPA 8270C Modified	ADF	2	PAN
		EPA 8260B	JHH	21	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389003	**7-D**	EPA 8081	JMB	3	PAN
		EPA 8151	AO	2	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	TDM	1	PASI-GCLA
		EPA 8270C	ADF, JNJ	35	PAN
		EPA 8270C Modified	ADF	2	PAN
		EPA 8260B	JHH	21	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389004	**7-IR**	EPA 8081	JMB	3	PAN
		EPA 8151	AO	2	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	TDM	1	PASI-GCLA
		EPA 8270C	ADF, JNJ	35	PAN
		EPA 8270C Modified	ADF	2	PAN
		EPA 8260B	JHH	21	PAN

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

SAMPLE ANALYTE COUNT

Project: Alabama Wood Treating
Pace Project No.: 20247389

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389005	**7-S**	EPA 8081	JMB	3	PAN
		EPA 8151	AO	2	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	TDM	1	PASI-GCLA
		EPA 8270C	ADF, JNJ	35	PAN
		EPA 8270C Modified	ADF	2	PAN
		EPA 8260B	JHH	21	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389006	**8-D**	EPA 8011	HMH	2	PAN
		EPA 8081	JMB	21	PAN
		EPA 8141	AO	6	PAN
		EPA 8151	AO	4	PAN
		EPA 8082	TLS	9	PASI-GCLA
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	TDM	1	PASI-GCLA
		EPA 8270C	ADF, JNJ	124	PAN
		EPA 8270C Modified	ADF	2	PAN
		EPA 8260B	JHH	59	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389007	**8-DK**	EPA 8081	AO	3	PAN
		EPA 8151	AO	2	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	TDM	1	PASI-GCLA
		EPA 8270C	ADF, AGW	35	PAN
		EPA 8270C Modified	JNJ	2	PAN
		EPA 8260B	JAH	21	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389008	**8-I**	EPA 8011	HMH	2	PAN

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

SAMPLE ANALYTE COUNT

Project: Alabama Wood Treating
Pace Project No.: 20247389

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8081	AO	21	PAN
		EPA 8141	AO	6	PAN
		EPA 8151	AO	4	PAN
		EPA 8082	TLS	9	PASI-GCLA
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	TDM	1	PASI-GCLA
		EPA 8270C	ADF, JNJ	124	PAN
		EPA 8270C Modified	JNJ	2	PAN
		EPA 8260B	JAH	59	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389009	**9-I**	EPA 8081	AO	3	PAN
		EPA 8151	AO	2	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C	AGW, JNJ	35	PAN
		EPA 8270C Modified	AO	2	PAN
		EPA 8260B	DWR	21	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389010	**8-S**	EPA 8011	HMH	2	PAN
		EPA 8081	JMB	21	PAN
		EPA 8141	AO	6	PAN
		EPA 8151	AO	4	PAN
		EPA 8082	TLS	9	PASI-GCLA
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	TDM	1	PASI-GCLA
		EPA 8270C	ADF, JNJ	124	PAN
		EPA 8270C Modified	ADF	2	PAN
		EPA 8260B	JHH	59	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389011	**15-D**	EPA 8081	AO	3	PAN
		EPA 8151	AO	2	PAN

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

SAMPLE ANALYTE COUNT

Project: Alabama Wood Treating
Pace Project No.: 20247389

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C	AGW, JNJ	35	PAN
		EPA 8270C Modified	AO	2	PAN
		EPA 8260B	DWR	21	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389012	**15-I**	EPA 8081	JMB	3	PAN
		EPA 8151	AO	2	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	TDM	1	PASI-GCLA
		EPA 8270C	ADF, JNJ	35	PAN
		EPA 8270C Modified	ADF	2	PAN
		EPA 8260B	JHH	21	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389013	**15-S**	EPA 8081	AO	3	PAN
		EPA 8151	AO	2	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C	AGW, JNJ	35	PAN
		EPA 8270C Modified	AO	2	PAN
		EPA 8260B	DWR	21	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389014	**16-D**	EPA 8081	AO	3	PAN
		EPA 8151	AO	2	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C	AGW, JNJ	35	PAN
		EPA 8270C Modified	AO	2	PAN
		EPA 8260B	DWR	21	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA

Pace Analytical Services, LLC
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SAMPLE ANALYTE COUNT

Project: Alabama Wood Treating
Pace Project No.: 20247389

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 420.4	SLL2	1	PASI-GCLA
20247389015	**16-I**	EPA 8081	AO	3	PAN
		EPA 8151	AO	2	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C	AGW, JNJ	35	PAN
		EPA 8270C Modified	AO	2	PAN
		EPA 8260B	DWR	21	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389016	**17-D**	EPA 8081	AO	3	PAN
		EPA 8151	AO	2	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	TDM	1	PASI-GCLA
		EPA 8270C	ADF	35	PAN
		EPA 8270C Modified	JNJ	2	PAN
		EPA 8260B	JAH	21	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389017	**19-SR**	EPA 8081	AO	3	PAN
		EPA 8151	AO	2	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C	AGW, JNJ	35	PAN
		EPA 8270C Modified	AO	2	PAN
		EPA 8260B	DWR	21	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389018	**21-I**	EPA 8081	JMB	3	PAN
		EPA 8151	AO	2	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	TDM	1	PASI-GCLA
		EPA 8270C	ADF, JNJ	35	PAN
		EPA 8270C Modified	ADF	2	PAN

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SAMPLE ANALYTE COUNT

Project: Alabama Wood Treating
Pace Project No.: 20247389

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260B	JHH	21	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389019	**23-D**	EPA 8081	JMB	3	PAN
		EPA 8151	AO	2	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	TDM	1	PASI-GCLA
		EPA 8270C	ADF, JNJ	35	PAN
		EPA 8270C Modified	ADF	2	PAN
		EPA 8260B	JHH	21	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389020	**23-I**	EPA 8081	JMB	3	PAN
		EPA 8151	AO	2	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	TDM	1	PASI-GCLA
		EPA 8270C	JNJ	35	PAN
		EPA 8270C Modified	ADF	2	PAN
		EPA 8260B	JAH	21	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389021	**31-DR**	EPA 8081	AO	3	PAN
		EPA 8151	AO	2	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C	AGW, JNJ	35	PAN
		EPA 8270C Modified	AO	2	PAN
		EPA 8260B	DWR	21	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389022	**31-IR**	EPA 8081	AO	3	PAN
		EPA 8151	AO	2	PAN
		EPA 6020A	FC1	16	PASI-N

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SAMPLE ANALYTE COUNT

Project: Alabama Wood Treating
Pace Project No.: 20247389

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C	AGW, JNJ	35	PAN
		EPA 8270C Modified	AO	2	PAN
		EPA 8260B	DWR	21	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389023	**32-I**	EPA 8081	AO	3	PAN
		EPA 8151	AO	2	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C	AGW, JNJ	35	PAN
		EPA 8270C Modified	AO	2	PAN
		EPA 8260B	DWR	21	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389024	**32-S**	EPA 8081	AO	3	PAN
		EPA 8151	AO	2	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C	AGW, JNJ	35	PAN
		EPA 8270C Modified	AO	2	PAN
		EPA 8260B	DWR	21	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389025	**Equipment Blank 1**	EPA 8081	AO	3	PAN
		EPA 8151	AO	2	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C	AGW, JNJ	35	PAN
		EPA 8270C Modified	AO	2	PAN
		EPA 8260B	DWR	21	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA

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SAMPLE ANALYTE COUNT

Project: Alabama Wood Treating
Pace Project No.: 20247389

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
20247389026	**Equipment Blank 2**	EPA 8081	AO	3	PAN
		EPA 8151	AO	2	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C	AGW, JNJ	35	PAN
		EPA 8270C Modified	ADF	2	PAN
		EPA 8260B	DWR	21	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389027	**Equipment Blank 3**	EPA 8081	AO	3	PAN
		EPA 8151	AO	2	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C	AGW, JNJ	35	PAN
		EPA 8270C Modified	ADF	2	PAN
		EPA 8260B	DWR	21	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389028	**Equipment Blank 4**	EPA 8081	HLA	3	PAN
		EPA 8151	AO	2	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	TDM	1	PASI-GCLA
		EPA 8270C	ADF, JNJ	35	PAN
		EPA 8270C Modified	ADF	2	PAN
		EPA 8260B	JAH	21	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389029	**Equipment Blank 5**	EPA 8081	HLA	3	PAN
		EPA 8151	AO	2	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	TDM	1	PASI-GCLA
		EPA 8270C	ADF, JNJ	35	PAN
		EPA 8270C Modified	ADF	2	PAN
		EPA 8260B	JAH	21	PAN

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SAMPLE ANALYTE COUNT

Project: Alabama Wood Treating
Pace Project No.: 20247389

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389030	**Equipment Blank 6**	EPA 8081	HLA	3	PAN
		EPA 8151	AO	2	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	TDM	1	PASI-GCLA
		EPA 8270C	ADF, JNJ	35	PAN
		EPA 8270C Modified	ADF	2	PAN
		EPA 8260B	JAH	21	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389031	**Field Dup 1**	EPA 8081	HLA	3	PAN
		EPA 8151	AO	2	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	TDM	1	PASI-GCLA
		EPA 8270C	ADF, JNJ	35	PAN
		EPA 8270C Modified	ADF	2	PAN
		EPA 8260B	JAH	21	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389032	**Field Dup 2**	EPA 8081	AO	3	PAN
		EPA 8151	AO	2	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	TDM	1	PASI-GCLA
		EPA 8270C	ADF, JNJ	35	PAN
		EPA 8270C Modified	ADF	2	PAN
		EPA 8260B	JAH	21	PAN
		SM 4500-S-2 D	RVJ	1	PASI-N
		EPA 335.4	SLL2	1	PASI-GCLA
		EPA 420.4	SLL2	1	PASI-GCLA
20247389033	**Trip Blank 1**	EPA 8260B	DWR	21	PAN
20247389034	**Trip Blank 2**	EPA 8260B	DWR	21	PAN
20247389035	**Trip Blank 3**	EPA 8260B	DWR	21	PAN
20247389036	**Trip Blank 4**	EPA 8260B	DWR	21	PAN

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SAMPLE ANALYTE COUNT

Project: Alabama Wood Treating
Pace Project No.: 20247389

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
20247389037	**Trip Blank 5**	EPA 8260B	DWR	21	PAN
20247389038	**Trip Blank 6**	EPA 8260B	DWR	21	PAN

PAN = Pace National - Mt. Juliet
PASI-GCLA = Pace Analytical Gulf Coast
PASI-N = Pace Analytical Services - New Orleans

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 6-I **Lab ID: 20247389001** Collected: 06/21/22 10:55 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/27/22 07:33	06/27/22 15:05	309-00-2	
Surrogates										
Decachlorobiphenyl (S)	70.8	%	10.0-128			1	06/27/22 07:33	06/27/22 15:05	2051-24-3	
Tetrachloro-m-xylene (S)	79.8	%	10.0-127			1	06/27/22 07:33	06/27/22 15:05	877-09-8	
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/27/22 10:05	06/29/22 09:20	93-72-1	
Surrogates										
2,4-DCAA (S)	84.7	%	14.0-158			1	06/27/22 10:05	06/29/22 09:20	19719-28-9	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00063		1	06/24/22 06:35	06/27/22 21:31	7440-36-0	
Arsenic	**0.00058J**	mg/L	0.0010	0.00020		1	06/24/22 06:35	06/27/22 21:31	7440-38-2	
Barium	**0.36**	mg/L	0.0050	0.0018		5	06/24/22 06:35	06/27/22 21:48	7440-39-3	M1
Beryllium	ND	mg/L	0.0010	0.00012		1	06/24/22 06:35	06/27/22 21:31	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000080		1	06/24/22 06:35	06/27/22 21:31	7440-43-9	
Chromium	**0.00095J**	mg/L	0.0010	0.00062		1	06/24/22 06:35	06/27/22 21:31	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000060		1	06/24/22 06:35	06/27/22 21:31	7440-48-4	
Copper	ND	mg/L	0.0030	0.00083		1	06/24/22 06:35	06/27/22 21:31	7440-50-8	
Lead	ND	mg/L	0.0010	0.000070		1	06/24/22 06:35	06/27/22 21:31	7439-92-1	
Nickel	ND	mg/L	0.0010	0.00056		1	06/24/22 06:35	06/27/22 21:31	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00037		1	06/24/22 06:35	06/27/22 21:31	7782-49-2	
Silver	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 21:31	7440-22-4	
Thallium	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 21:31	7440-28-0	
Tin	ND	mg/L	0.0060	0.00043		1	06/24/22 06:35	06/27/22 21:31	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.0023		1	06/24/22 06:35	06/27/22 21:31	7440-62-2	
Zinc	**0.040**	mg/L	0.010	0.0044		1	06/24/22 06:35	06/27/22 21:31	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/25/22 13:45	06/28/22 14:39	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	**1.50**	ug/L	1.00	0.0886		1	06/28/22 03:27	06/28/22 20:11	83-32-9	G6
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/28/22 03:27	06/28/22 20:11	208-96-8	G6
Anthracene	ND	ug/L	1.00	0.0804		1	06/28/22 03:27	06/28/22 20:11	120-12-7	G6
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/28/22 03:27	06/28/22 20:11	56-55-3	G6
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/28/22 03:27	06/28/22 20:11	205-99-2	G6
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/28/22 03:27	06/28/22 20:11	207-08-9	G6
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/28/22 03:27	06/28/22 20:11	191-24-2	G6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 6-I **Lab ID: 20247389001** Collected: 06/21/22 10:55 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/28/22 03:27	06/28/22 20:11	50-32-8	G6
Chrysene	ND	ug/L	1.00	0.130		1	06/28/22 03:27	06/28/22 20:11	218-01-9	G6
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/28/22 03:27	06/28/22 20:11	132-64-9	G6
Fluoranthene	**0.273J**	ug/L	1.00	0.102		1	06/28/22 03:27	06/28/22 20:11	206-44-0	G6,J
Fluorene	**0.142J**	ug/L	1.00	0.0844		1	06/28/22 03:27	06/28/22 20:11	86-73-7	G6,J
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/28/22 03:27	06/28/22 20:11	67-72-1	G6
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/28/22 03:27	06/28/22 20:11	193-39-5	G6
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/28/22 03:27	06/28/22 20:11	90-12-0	G6
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/28/22 03:27	06/28/22 20:11	91-57-6	G6
Naphthalene	**0.195J**	ug/L	1.00	0.159		1	06/28/22 03:27	06/28/22 20:11	91-20-3	G6,J
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/28/22 03:27	06/28/22 20:11	86-30-6	G6
Phenanthrene	ND	ug/L	1.00	0.112		1	06/28/22 03:27	06/28/22 20:11	85-01-8	G6
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/28/22 03:27	06/28/22 20:11	117-81-7	G6
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/28/22 03:27	06/28/22 20:11	117-84-0	G6
Pyrene	**0.254J**	ug/L	1.00	0.107		1	06/28/22 03:27	06/28/22 20:11	129-00-0	G6,J
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/28/22 03:27	06/28/22 20:11	105-67-9	G6
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/28/22 03:27	06/28/22 20:11		G6
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/28/22 03:27	06/28/22 20:11	87-86-5	G6
Phenol	ND	ug/L	10.0	4.33		1	06/28/22 03:27	06/28/22 20:11	108-95-2	G6
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/28/22 03:27	07/02/22 11:32	134-32-7	G6
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/28/22 03:27	07/02/22 11:32	91-59-8	G6
O-Toluidine	ND	ug/L	10.0	3.53		1	06/28/22 03:27	07/02/22 11:32	95-53-4	G6
Surrogates										
2-Fluorophenol (S)	33.3	%	10.0-120			1	06/28/22 03:27	06/28/22 20:11	367-12-4	
Phenol-d5 (S)	23.6	%	10.0-120			1	06/28/22 03:27	06/28/22 20:11	4165-62-2	
Nitrobenzene-d5 (S)	55.6	%	10.0-127			1	06/28/22 03:27	06/28/22 20:11	4165-60-0	
2-Fluorobiphenyl (S)	52.9	%	10.0-130			1	06/28/22 03:27	06/28/22 20:11	321-60-8	
2,4,6-Tribromophenol (S)	66.5	%	10.0-155			1	06/28/22 03:27	06/28/22 20:11	118-79-6	
Terphenyl-d14 (S)	74.2	%	10.0-128			1	06/28/22 03:27	06/28/22 20:11	1718-51-0	
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.388J**	ug/L	0.400	0.0447		1	06/27/22 05:43	06/27/22 17:15	123-91-1	B,J
Surrogates										
Nitrobenzene-d5 (S)	55.4	%	10.0-120			1	06/27/22 05:43	06/27/22 17:15	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/02/22 11:26	07/02/22 11:26	67-64-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 6-I **Lab ID: 20247389001** Collected: 06/21/22 10:55 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Benzene	**0.119J**	ug/L	1.00	0.0941		1	07/02/22 11:26	07/02/22 11:26	71-43-2	J
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/02/22 11:26	07/02/22 11:26	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/02/22 11:26	07/02/22 11:26	75-15-0	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/02/22 11:26	07/02/22 11:26	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/02/22 11:26	07/02/22 11:26	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/02/22 11:26	07/02/22 11:26	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/02/22 11:26	07/02/22 11:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/02/22 11:26	07/02/22 11:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/02/22 11:26	07/02/22 11:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/02/22 11:26	07/02/22 11:26	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/02/22 11:26	07/02/22 11:26	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/02/22 11:26	07/02/22 11:26	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/02/22 11:26	07/02/22 11:26	79-01-6	L0
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/02/22 11:26	07/02/22 11:26	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/02/22 11:26	07/02/22 11:26	95-47-6	
m&p-Xylene	**0.450J**	ug/L	2.00	0.430		1	07/02/22 11:26	07/02/22 11:26	179601-23-1	J
Xylene (Total)	**0.450J**	ug/L	3.00	0.174		1	07/02/22 11:26	07/02/22 11:26	1330-20-7	J
Surrogates										
Toluene-d8 (S)	99.7	%	80.0-120			1	07/02/22 11:26	07/02/22 11:26	2037-26-5	
1,2-Dichloroethane-d4 (S)	107	%	70.0-130			1	07/02/22 11:26	07/02/22 11:26	17060-07-0	
4-Bromofluorobenzene (S)	102	%	77.0-126			1	07/02/22 11:26	07/02/22 11:26	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.0040		1		06/26/22 09:50	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	ND	mg/L	0.0040	0.0012		1	06/29/22 08:55	06/29/22 16:58	57-12-5	
EPA 420.4 Rev. 1	Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast									
Phenolics, Total Recoverable	ND	ug/L	60.0	25.0		1	07/01/22 13:30	07/05/22 15:54	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 6-S **Lab ID: 20247389002** Collected: 06/21/22 09:45 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/27/22 07:33	06/27/22 15:14	309-00-2	
Surrogates										
Decachlorobiphenyl (S)	27.5	%	10.0-128			1	06/27/22 07:33	06/27/22 15:14	2051-24-3	
Tetrachloro-m-xylene (S)	77.6	%	10.0-127			1	06/27/22 07:33	06/27/22 15:14	877-09-8	
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/27/22 10:05	06/29/22 09:34	93-72-1	
Surrogates										
2,4-DCAA (S)	83.2	%	14.0-158			1	06/27/22 10:05	06/29/22 09:34	19719-28-9	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0020	0.0013		2	06/24/22 06:35	06/28/22 18:33	7440-36-0	
Arsenic	**0.00059J**	mg/L	0.0020	0.00040		2	06/24/22 06:35	06/28/22 18:33	7440-38-2	
Barium	**0.16**	mg/L	0.0020	0.00072		2	06/24/22 06:35	06/28/22 18:33	7440-39-3	
Beryllium	ND	mg/L	0.0020	0.00024		2	06/24/22 06:35	06/28/22 18:33	7440-41-7	D3
Cadmium	ND	mg/L	0.0020	0.00016		2	06/24/22 06:35	06/28/22 18:33	7440-43-9	
Chromium	ND	mg/L	0.0020	0.0012		2	06/24/22 06:35	06/28/22 18:33	7440-47-3	
Cobalt	**0.00038J**	mg/L	0.0020	0.00012		2	06/24/22 06:35	06/28/22 18:33	7440-48-4	
Copper	ND	mg/L	0.0060	0.0017		2	06/24/22 06:35	06/28/22 18:33	7440-50-8	
Lead	**0.00036J**	mg/L	0.0020	0.00014		2	06/24/22 06:35	06/28/22 18:33	7439-92-1	
Nickel	ND	mg/L	0.0020	0.0011		2	06/24/22 06:35	06/28/22 18:33	7440-02-0	
Selenium	ND	mg/L	0.0020	0.00074		2	06/24/22 06:35	06/28/22 18:33	7782-49-2	
Silver	ND	mg/L	0.0010	0.00016		2	06/24/22 06:35	06/28/22 18:33	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00016		2	06/24/22 06:35	06/28/22 18:33	7440-28-0	
Tin	ND	mg/L	0.012	0.00086		2	06/24/22 06:35	06/28/22 18:33	7440-31-5	
Vanadium	ND	mg/L	0.010	0.0046		2	06/24/22 06:35	06/28/22 18:33	7440-62-2	
Zinc	**0.016J**	mg/L	0.020	0.0088		2	06/24/22 06:35	06/28/22 18:33	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/25/22 13:45	06/28/22 14:41	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	**93.7**	ug/L	1.00	0.0886		1	06/28/22 03:27	06/28/22 20:33	83-32-9	G6
Acenaphthylene	**0.296J**	ug/L	1.00	0.0921		1	06/28/22 03:27	06/28/22 20:33	208-96-8	G6,J
Anthracene	**3.98**	ug/L	1.00	0.0804		1	06/28/22 03:27	06/28/22 20:33	120-12-7	G6
Benzo(a)anthracene	**0.324J**	ug/L	1.00	0.199		1	06/28/22 03:27	06/28/22 20:33	56-55-3	G6,J
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/28/22 03:27	06/28/22 20:33	205-99-2	G6
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/28/22 03:27	06/28/22 20:33	207-08-9	G6
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/28/22 03:27	06/28/22 20:33	191-24-2	G6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 6-S **Lab ID: 20247389002** Collected: 06/21/22 09:45 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/28/22 03:27	06/28/22 20:33	50-32-8	G6
Chrysene	**0.179J**	ug/L	1.00	0.130		1	06/28/22 03:27	06/28/22 20:33	218-01-9	G6,J
Dibenzofuran	**3.96J**	ug/L	10.0	0.0970		1	06/28/22 03:27	06/28/22 20:33	132-64-9	G6,J
Fluoranthene	**8.73**	ug/L	1.00	0.102		1	06/28/22 03:27	06/28/22 20:33	206-44-0	G6
Fluorene	**56.0**	ug/L	1.00	0.0844		1	06/28/22 03:27	06/28/22 20:33	86-73-7	G6
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/28/22 03:27	06/28/22 20:33	67-72-1	G6
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/28/22 03:27	06/28/22 20:33	193-39-5	G6
1-Methylnaphthalene	**18.9**	ug/L	1.00	0.0790		1	06/28/22 03:27	06/28/22 20:33	90-12-0	G6
2-Methylnaphthalene	**0.270J**	ug/L	1.00	0.117		1	06/28/22 03:27	06/28/22 20:33	91-57-6	G6,J
Naphthalene	**0.270J**	ug/L	1.00	0.159		1	06/28/22 03:27	06/28/22 20:33	91-20-3	G6,J
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/28/22 03:27	06/28/22 20:33	86-30-6	G6
Phenanthrene	**16.4**	ug/L	1.00	0.112		1	06/28/22 03:27	06/28/22 20:33	85-01-8	G6
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/28/22 03:27	06/28/22 20:33	117-81-7	G6
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/28/22 03:27	06/28/22 20:33	117-84-0	G6
Pyrene	**5.68**	ug/L	1.00	0.107		1	06/28/22 03:27	06/28/22 20:33	129-00-0	G6
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/28/22 03:27	06/28/22 20:33	105-67-9	G6
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/28/22 03:27	06/28/22 20:33		G6
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/28/22 03:27	06/28/22 20:33	87-86-5	G6
Phenol	ND	ug/L	10.0	4.33		1	06/28/22 03:27	06/28/22 20:33	108-95-2	G6
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/28/22 03:27	07/02/22 11:53	134-32-7	G6
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/28/22 03:27	07/02/22 11:53	91-59-8	G6
O-Toluidine	ND	ug/L	10.0	3.53		1	06/28/22 03:27	07/02/22 11:53	95-53-4	G6
Surrogates										
2-Fluorophenol (S)	29.7	%	10.0-120			1	06/28/22 03:27	06/28/22 20:33	367-12-4	
Phenol-d5 (S)	20.8	%	10.0-120			1	06/28/22 03:27	06/28/22 20:33	4165-62-2	
Nitrobenzene-d5 (S)	49.3	%	10.0-127			1	06/28/22 03:27	06/28/22 20:33	4165-60-0	
2-Fluorobiphenyl (S)	47.4	%	10.0-130			1	06/28/22 03:27	06/28/22 20:33	321-60-8	
2,4,6-Tribromophenol (S)	62.0	%	10.0-155			1	06/28/22 03:27	06/28/22 20:33	118-79-6	
Terphenyl-d14 (S)	64.6	%	10.0-128			1	06/28/22 03:27	06/28/22 20:33	1718-51-0	
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.146J**	ug/L	0.400	0.0447		1	06/27/22 05:43	06/27/22 17:34	123-91-1	B,J
Surrogates										
Nitrobenzene-d5 (S)	55.5	%	10.0-120			1	06/27/22 05:43	06/27/22 17:34	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/02/22 11:48	07/02/22 11:48	67-64-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 6-S **Lab ID: 20247389002** Collected: 06/21/22 09:45 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Benzene	ND	ug/L	1.00	0.0941		1	07/02/22 11:48	07/02/22 11:48	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/02/22 11:48	07/02/22 11:48	75-27-4	
Carbon disulfide	**0.347J**	ug/L	1.00	0.0962		1	07/02/22 11:48	07/02/22 11:48	75-15-0	J
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/02/22 11:48	07/02/22 11:48	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/02/22 11:48	07/02/22 11:48	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/02/22 11:48	07/02/22 11:48	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/02/22 11:48	07/02/22 11:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/02/22 11:48	07/02/22 11:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/02/22 11:48	07/02/22 11:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/02/22 11:48	07/02/22 11:48	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/02/22 11:48	07/02/22 11:48	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/02/22 11:48	07/02/22 11:48	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/02/22 11:48	07/02/22 11:48	79-01-6	L0
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/02/22 11:48	07/02/22 11:48	75-01-4	
o-Xylene	**0.407J**	ug/L	1.00	0.174		1	07/02/22 11:48	07/02/22 11:48	95-47-6	J
m&p-Xylene	**0.924J**	ug/L	2.00	0.430		1	07/02/22 11:48	07/02/22 11:48	179601-23-1	J
Xylene (Total)	**1.33J**	ug/L	3.00	0.174		1	07/02/22 11:48	07/02/22 11:48	1330-20-7	J
Surrogates										
Toluene-d8 (S)	100	%	80.0-120			1	07/02/22 11:48	07/02/22 11:48	2037-26-5	
1,2-Dichloroethane-d4 (S)	103	%	70.0-130			1	07/02/22 11:48	07/02/22 11:48	17060-07-0	
4-Bromofluorobenzene (S)	103	%	77.0-126			1	07/02/22 11:48	07/02/22 11:48	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.0040		1		06/26/22 09:50	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	**0.0017J**	mg/L	0.0040	0.0012		1	06/29/22 08:55	06/29/22 17:01	57-12-5	
EPA 420.4 Rev. 1	Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast									
Phenolics, Total Recoverable	**80.0**	ug/L	60.0	25.0		1	07/01/22 13:30	07/05/22 15:54	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 7-D **Lab ID: 20247389003** Collected: 06/21/22 08:20 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/27/22 07:33	06/27/22 15:23	309-00-2	
Surrogates										
Decachlorobiphenyl (S)	68.1	%	10.0-128			1	06/27/22 07:33	06/27/22 15:23	2051-24-3	
Tetrachloro-m-xylene (S)	81.9	%	10.0-127			1	06/27/22 07:33	06/27/22 15:23	877-09-8	
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/27/22 10:05	06/29/22 12:58	93-72-1	
Surrogates										
2,4-DCAA (S)	81.5	%	14.0-158			1	06/27/22 10:05	06/29/22 12:58	19719-28-9	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00063		1	06/24/22 06:35	06/27/22 22:00	7440-36-0	
Arsenic	**0.0019**	mg/L	0.0010	0.00020		1	06/24/22 06:35	06/27/22 22:00	7440-38-2	
Barium	**0.086**	mg/L	0.0010	0.00036		1	06/24/22 06:35	06/27/22 22:00	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00012		1	06/24/22 06:35	06/27/22 22:00	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000080		1	06/24/22 06:35	06/27/22 22:00	7440-43-9	
Chromium	**0.0010**	mg/L	0.0010	0.00062		1	06/24/22 06:35	06/27/22 22:00	7440-47-3	
Cobalt	**0.0015**	mg/L	0.0010	0.000060		1	06/24/22 06:35	06/27/22 22:00	7440-48-4	
Copper	ND	mg/L	0.0030	0.00083		1	06/24/22 06:35	06/27/22 22:00	7440-50-8	
Lead	ND	mg/L	0.0010	0.000070		1	06/24/22 06:35	06/27/22 22:00	7439-92-1	
Nickel	**0.0025**	mg/L	0.0010	0.00056		1	06/24/22 06:35	06/27/22 22:00	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00037		1	06/24/22 06:35	06/27/22 22:00	7782-49-2	
Silver	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 22:00	7440-22-4	
Thallium	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 22:00	7440-28-0	
Tin	ND	mg/L	0.0060	0.00043		1	06/24/22 06:35	06/27/22 22:00	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.0023		1	06/24/22 06:35	06/27/22 22:00	7440-62-2	
Zinc	**0.0055J**	mg/L	0.010	0.0044		1	06/24/22 06:35	06/27/22 22:00	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/25/22 13:45	06/28/22 14:43	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	**0.462J**	ug/L	1.00	0.0886		1	06/28/22 03:27	06/28/22 20:54	83-32-9	G6,J
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/28/22 03:27	06/28/22 20:54	208-96-8	G6
Anthracene	ND	ug/L	1.00	0.0804		1	06/28/22 03:27	06/28/22 20:54	120-12-7	G6
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/28/22 03:27	06/28/22 20:54	56-55-3	G6
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/28/22 03:27	06/28/22 20:54	205-99-2	G6
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/28/22 03:27	06/28/22 20:54	207-08-9	G6
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/28/22 03:27	06/28/22 20:54	191-24-2	G6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 7-D **Lab ID: 20247389003** Collected: 06/21/22 08:20 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/28/22 03:27	06/28/22 20:54	50-32-8	G6
Chrysene	ND	ug/L	1.00	0.130		1	06/28/22 03:27	06/28/22 20:54	218-01-9	G6
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/28/22 03:27	06/28/22 20:54	132-64-9	G6
Fluoranthene	ND	ug/L	1.00	0.102		1	06/28/22 03:27	06/28/22 20:54	206-44-0	G6
Fluorene	**0.314J**	ug/L	1.00	0.0844		1	06/28/22 03:27	06/28/22 20:54	86-73-7	G6,J
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/28/22 03:27	06/28/22 20:54	67-72-1	G6
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/28/22 03:27	06/28/22 20:54	193-39-5	G6
1-Methylnaphthalene	**0.0997J**	ug/L	1.00	0.0790		1	06/28/22 03:27	06/28/22 20:54	90-12-0	G6,J
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/28/22 03:27	06/28/22 20:54	91-57-6	G6
Naphthalene	ND	ug/L	1.00	0.159		1	06/28/22 03:27	06/28/22 20:54	91-20-3	G6
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/28/22 03:27	06/28/22 20:54	86-30-6	G6
Phenanthrene	ND	ug/L	1.00	0.112		1	06/28/22 03:27	06/28/22 20:54	85-01-8	G6
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/28/22 03:27	06/28/22 20:54	117-81-7	G6
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/28/22 03:27	06/28/22 20:54	117-84-0	G6
Pyrene	**0.111J**	ug/L	1.00	0.107		1	06/28/22 03:27	06/28/22 20:54	129-00-0	G6,J
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/28/22 03:27	06/28/22 20:54	105-67-9	G6
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/28/22 03:27	06/28/22 20:54		G6
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/28/22 03:27	06/28/22 20:54	87-86-5	G6
Phenol	ND	ug/L	10.0	4.33		1	06/28/22 03:27	06/28/22 20:54	108-95-2	G6
1-Naphthalenamine	**1.92J**	ug/L	10.0	0.289		1	06/28/22 03:27	07/02/22 12:14	134-32-7	G6,J
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/28/22 03:27	07/02/22 12:14	91-59-8	G6
O-Toluidine	ND	ug/L	10.0	3.53		1	06/28/22 03:27	07/02/22 12:14	95-53-4	G6
Surrogates										
2-Fluorophenol (S)	31.4	%	10.0-120			1	06/28/22 03:27	06/28/22 20:54	367-12-4	
Phenol-d5 (S)	21.8	%	10.0-120			1	06/28/22 03:27	06/28/22 20:54	4165-62-2	
Nitrobenzene-d5 (S)	51.5	%	10.0-127			1	06/28/22 03:27	06/28/22 20:54	4165-60-0	
2-Fluorobiphenyl (S)	46.5	%	10.0-130			1	06/28/22 03:27	06/28/22 20:54	321-60-8	
2,4,6-Tribromophenol (S)	58.0	%	10.0-155			1	06/28/22 03:27	06/28/22 20:54	118-79-6	
Terphenyl-d14 (S)	63.5	%	10.0-128			1	06/28/22 03:27	06/28/22 20:54	1718-51-0	
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.128J**	ug/L	0.400	0.0447		1	06/27/22 05:43	06/27/22 17:53	123-91-1	B,J
Surrogates										
Nitrobenzene-d5 (S)	53.7	%	10.0-120			1	06/27/22 05:43	06/27/22 17:53	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/02/22 12:10	07/02/22 12:10	67-64-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 7-D **Lab ID: 20247389003** Collected: 06/21/22 08:20 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Benzene	ND	ug/L	1.00	0.0941		1	07/02/22 12:10	07/02/22 12:10	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/02/22 12:10	07/02/22 12:10	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/02/22 12:10	07/02/22 12:10	75-15-0	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/02/22 12:10	07/02/22 12:10	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/02/22 12:10	07/02/22 12:10	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/02/22 12:10	07/02/22 12:10	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/02/22 12:10	07/02/22 12:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/02/22 12:10	07/02/22 12:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/02/22 12:10	07/02/22 12:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/02/22 12:10	07/02/22 12:10	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/02/22 12:10	07/02/22 12:10	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/02/22 12:10	07/02/22 12:10	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/02/22 12:10	07/02/22 12:10	79-01-6	L0
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/02/22 12:10	07/02/22 12:10	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/02/22 12:10	07/02/22 12:10	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/02/22 12:10	07/02/22 12:10	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/02/22 12:10	07/02/22 12:10	1330-20-7	
Surrogates										
Toluene-d8 (S)	99.7	%	80.0-120			1	07/02/22 12:10	07/02/22 12:10	2037-26-5	
1,2-Dichloroethane-d4 (S)	106	%	70.0-130			1	07/02/22 12:10	07/02/22 12:10	17060-07-0	
4-Bromofluorobenzene (S)	102	%	77.0-126			1	07/02/22 12:10	07/02/22 12:10	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.0040		1		06/26/22 11:15	18496-25-8	M1
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	ND	mg/L	0.0040	0.0012		1	06/29/22 08:55	06/29/22 17:03	57-12-5	
EPA 420.4 Rev. 1	Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast									
Phenolics, Total Recoverable	ND	ug/L	60.0	25.0		1	07/01/22 13:30	07/05/22 15:56	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 7-IR **Lab ID: 20247389004** Collected: 06/21/22 09:20 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/27/22 07:33	06/27/22 15:32	309-00-2	
Surrogates										
Decachlorobiphenyl (S)	41.1	%	10.0-128			1	06/27/22 07:33	06/27/22 15:32	2051-24-3	
Tetrachloro-m-xylene (S)	75.6	%	10.0-127			1	06/27/22 07:33	06/27/22 15:32	877-09-8	
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/27/22 10:05	06/29/22 13:12	93-72-1	
Surrogates										
2,4-DCAA (S)	71.2	%	14.0-158			1	06/27/22 10:05	06/29/22 13:12	19719-28-9	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00063		1	06/24/22 06:35	06/27/22 22:06	7440-36-0	
Arsenic	**0.077**	mg/L	0.0010	0.00020		1	06/24/22 06:35	06/27/22 22:06	7440-38-2	
Barium	**0.085**	mg/L	0.0010	0.00036		1	06/24/22 06:35	06/27/22 22:06	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00012		1	06/24/22 06:35	06/27/22 22:06	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000080		1	06/24/22 06:35	06/27/22 22:06	7440-43-9	
Chromium	**0.0015**	mg/L	0.0010	0.00062		1	06/24/22 06:35	06/27/22 22:06	7440-47-3	
Cobalt	**0.00028J**	mg/L	0.0010	0.000060		1	06/24/22 06:35	06/27/22 22:06	7440-48-4	
Copper	ND	mg/L	0.0030	0.00083		1	06/24/22 06:35	06/27/22 22:06	7440-50-8	
Lead	**0.00016J**	mg/L	0.0010	0.000070		1	06/24/22 06:35	06/27/22 22:06	7439-92-1	
Nickel	**0.0030**	mg/L	0.0010	0.00056		1	06/24/22 06:35	06/27/22 22:06	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00037		1	06/24/22 06:35	06/27/22 22:06	7782-49-2	
Silver	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 22:06	7440-22-4	
Thallium	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 22:06	7440-28-0	
Tin	ND	mg/L	0.0060	0.00043		1	06/24/22 06:35	06/27/22 22:06	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.0023		1	06/24/22 06:35	06/27/22 22:06	7440-62-2	
Zinc	ND	mg/L	0.010	0.0044		1	06/24/22 06:35	06/27/22 22:06	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/25/22 13:45	06/28/22 14:45	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	**61.3**	ug/L	1.00	0.0886		1	06/28/22 03:27	06/29/22 01:31	83-32-9	G6
Acenaphthylene	**0.268J**	ug/L	1.00	0.0921		1	06/28/22 03:27	06/29/22 01:31	208-96-8	G6,J
Anthracene	**0.572J**	ug/L	1.00	0.0804		1	06/28/22 03:27	06/29/22 01:31	120-12-7	G6,J
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/28/22 03:27	06/29/22 01:31	56-55-3	G6
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/28/22 03:27	06/29/22 01:31	205-99-2	G6
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/28/22 03:27	06/29/22 01:31	207-08-9	G6
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/28/22 03:27	06/29/22 01:31	191-24-2	G6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 7-IR **Lab ID: 20247389004** Collected: 06/21/22 09:20 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/28/22 03:27	06/29/22 01:31	50-32-8	G6
Chrysene	ND	ug/L	1.00	0.130		1	06/28/22 03:27	06/29/22 01:31	218-01-9	G6
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/28/22 03:27	06/29/22 01:31	132-64-9	G6
Fluoranthene	**0.413J**	ug/L	1.00	0.102		1	06/28/22 03:27	06/29/22 01:31	206-44-0	G6,J
Fluorene	**3.32**	ug/L	1.00	0.0844		1	06/28/22 03:27	06/29/22 01:31	86-73-7	G6
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/28/22 03:27	06/29/22 01:31	67-72-1	G6
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/28/22 03:27	06/29/22 01:31	193-39-5	G6
1-Methylnaphthalene	**20.1**	ug/L	1.00	0.0790		1	06/28/22 03:27	06/29/22 01:31	90-12-0	G6
2-Methylnaphthalene	**0.468J**	ug/L	1.00	0.117		1	06/28/22 03:27	06/29/22 01:31	91-57-6	G6,J
Naphthalene	**0.333J**	ug/L	1.00	0.159		1	06/28/22 03:27	06/29/22 01:31	91-20-3	G6,J
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/28/22 03:27	06/29/22 01:31	86-30-6	G6
Phenanthrene	**10.0**	ug/L	1.00	0.112		1	06/28/22 03:27	06/29/22 01:31	85-01-8	G6
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/28/22 03:27	06/29/22 01:31	117-81-7	G6
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/28/22 03:27	06/29/22 01:31	117-84-0	G6
Pyrene	**0.199J**	ug/L	1.00	0.107		1	06/28/22 03:27	06/29/22 01:31	129-00-0	G6,J
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/28/22 03:27	06/29/22 01:31	105-67-9	G6
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/28/22 03:27	06/29/22 01:31		G6
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/28/22 03:27	06/29/22 01:31	87-86-5	G6
Phenol	ND	ug/L	10.0	4.33		1	06/28/22 03:27	06/29/22 01:31	108-95-2	G6
1-Naphthalenamine	**1.17J**	ug/L	10.0	0.289		1	06/28/22 03:27	07/02/22 17:07	134-32-7	G6,J
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/28/22 03:27	07/02/22 17:07	91-59-8	G6
O-Toluidine	**3.65J**	ug/L	10.0	3.53		1	06/28/22 03:27	07/02/22 17:07	95-53-4	G6,J
Surrogates										
2-Fluorophenol (S)	28.2	%	10.0-120			1	06/28/22 03:27	06/29/22 01:31	367-12-4	
Phenol-d5 (S)	20.1	%	10.0-120			1	06/28/22 03:27	06/29/22 01:31	4165-62-2	
Nitrobenzene-d5 (S)	47.4	%	10.0-127			1	06/28/22 03:27	06/29/22 01:31	4165-60-0	
2-Fluorobiphenyl (S)	50.0	%	10.0-130			1	06/28/22 03:27	06/29/22 01:31	321-60-8	
2,4,6-Tribromophenol (S)	67.5	%	10.0-155			1	06/28/22 03:27	06/29/22 01:31	118-79-6	
Terphenyl-d14 (S)	69.6	%	10.0-128			1	06/28/22 03:27	06/29/22 01:31	1718-51-0	
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.186J**	ug/L	0.400	0.0447		1	06/27/22 05:43	06/27/22 22:24	123-91-1	B,J
Surrogates										
Nitrobenzene-d5 (S)	67.8	%	10.0-120			1	06/27/22 05:43	06/27/22 22:24	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/02/22 12:32	07/02/22 12:32	67-64-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 7-IR **Lab ID: 20247389004** Collected: 06/21/22 09:20 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Benzene	**0.145J**	ug/L	1.00	0.0941		1	07/02/22 12:32	07/02/22 12:32	71-43-2	J
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/02/22 12:32	07/02/22 12:32	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/02/22 12:32	07/02/22 12:32	75-15-0	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/02/22 12:32	07/02/22 12:32	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/02/22 12:32	07/02/22 12:32	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/02/22 12:32	07/02/22 12:32	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/02/22 12:32	07/02/22 12:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/02/22 12:32	07/02/22 12:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/02/22 12:32	07/02/22 12:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/02/22 12:32	07/02/22 12:32	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/02/22 12:32	07/02/22 12:32	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/02/22 12:32	07/02/22 12:32	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/02/22 12:32	07/02/22 12:32	79-01-6	L0
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/02/22 12:32	07/02/22 12:32	75-01-4	
o-Xylene	**0.262J**	ug/L	1.00	0.174		1	07/02/22 12:32	07/02/22 12:32	95-47-6	J
m&p-Xylene	**1.33J**	ug/L	2.00	0.430		1	07/02/22 12:32	07/02/22 12:32	179601-23-1	J
Xylene (Total)	**1.59J**	ug/L	3.00	0.174		1	07/02/22 12:32	07/02/22 12:32	1330-20-7	J
Surrogates										
Toluene-d8 (S)	100	%	80.0-120			1	07/02/22 12:32	07/02/22 12:32	2037-26-5	
1,2-Dichloroethane-d4 (S)	101	%	70.0-130			1	07/02/22 12:32	07/02/22 12:32	17060-07-0	
4-Bromofluorobenzene (S)	102	%	77.0-126			1	07/02/22 12:32	07/02/22 12:32	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.0040		1		06/26/22 11:17	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	**0.0013J**	mg/L	0.0040	0.0012		1	06/29/22 08:55	06/29/22 17:05	57-12-5	
EPA 420.4 Rev. 1	Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast									
Phenolics, Total Recoverable	**98.5**	ug/L	60.0	25.0		1	07/01/22 13:30	07/05/22 15:56	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 7-S **Lab ID: 20247389005** Collected: 06/21/22 08:10 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/27/22 07:33	06/27/22 15:42	309-00-2	
Surrogates										
Decachlorobiphenyl (S)	45.2	%	10.0-128			1	06/27/22 07:33	06/27/22 15:42	2051-24-3	
Tetrachloro-m-xylene (S)	78.5	%	10.0-127			1	06/27/22 07:33	06/27/22 15:42	877-09-8	
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/28/22 18:00	06/30/22 18:27	93-72-1	
Surrogates										
2,4-DCAA (S)	87.8	%	14.0-158			1	06/28/22 18:00	06/30/22 18:27	19719-28-9	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00063		1	06/24/22 06:35	06/27/22 22:12	7440-36-0	
Arsenic	**0.074**	mg/L	0.0010	0.00020		1	06/24/22 06:35	06/27/22 22:12	7440-38-2	
Barium	**0.25**	mg/L	0.0010	0.00036		1	06/24/22 06:35	06/27/22 22:12	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00012		1	06/24/22 06:35	06/27/22 22:12	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000080		1	06/24/22 06:35	06/27/22 22:12	7440-43-9	
Chromium	ND	mg/L	0.0010	0.00062		1	06/24/22 06:35	06/27/22 22:12	7440-47-3	
Cobalt	**0.00030J**	mg/L	0.0010	0.000060		1	06/24/22 06:35	06/27/22 22:12	7440-48-4	
Copper	ND	mg/L	0.0030	0.00083		1	06/24/22 06:35	06/27/22 22:12	7440-50-8	
Lead	ND	mg/L	0.0010	0.000070		1	06/24/22 06:35	06/27/22 22:12	7439-92-1	
Nickel	ND	mg/L	0.0010	0.00056		1	06/24/22 06:35	06/27/22 22:12	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00037		1	06/24/22 06:35	06/27/22 22:12	7782-49-2	
Silver	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 22:12	7440-22-4	
Thallium	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 22:12	7440-28-0	
Tin	ND	mg/L	0.0060	0.00043		1	06/24/22 06:35	06/27/22 22:12	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.0023		1	06/24/22 06:35	06/27/22 22:12	7440-62-2	
Zinc	ND	mg/L	0.010	0.0044		1	06/24/22 06:35	06/27/22 22:12	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/25/22 13:45	06/28/22 14:47	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	**37.4**	ug/L	1.00	0.0886		1	06/28/22 03:27	06/29/22 01:10	83-32-9	G6
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/28/22 03:27	06/29/22 01:10	208-96-8	G6
Anthracene	**1.74**	ug/L	1.00	0.0804		1	06/28/22 03:27	06/29/22 01:10	120-12-7	G6
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/28/22 03:27	06/29/22 01:10	56-55-3	G6
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/28/22 03:27	06/29/22 01:10	205-99-2	G6
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/28/22 03:27	06/29/22 01:10	207-08-9	G6
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/28/22 03:27	06/29/22 01:10	191-24-2	G6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 7-S **Lab ID: 20247389005** Collected: 06/21/22 08:10 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/28/22 03:27	06/29/22 01:10	50-32-8	G6
Chrysene	ND	ug/L	1.00	0.130		1	06/28/22 03:27	06/29/22 01:10	218-01-9	G6
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/28/22 03:27	06/29/22 01:10	132-64-9	G6
Fluoranthene	**1.71**	ug/L	1.00	0.102		1	06/28/22 03:27	06/29/22 01:10	206-44-0	G6
Fluorene	**17.2**	ug/L	1.00	0.0844		1	06/28/22 03:27	06/29/22 01:10	86-73-7	G6
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/28/22 03:27	06/29/22 01:10	67-72-1	G6
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/28/22 03:27	06/29/22 01:10	193-39-5	G6
1-Methylnaphthalene	**12.7**	ug/L	1.00	0.0790		1	06/28/22 03:27	06/29/22 01:10	90-12-0	G6
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/28/22 03:27	06/29/22 01:10	91-57-6	G6
Naphthalene	ND	ug/L	1.00	0.159		1	06/28/22 03:27	06/29/22 01:10	91-20-3	G6
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/28/22 03:27	06/29/22 01:10	86-30-6	G6
Phenanthrene	**13.2**	ug/L	1.00	0.112		1	06/28/22 03:27	06/29/22 01:10	85-01-8	G6
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/28/22 03:27	06/29/22 01:10	117-81-7	G6
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/28/22 03:27	06/29/22 01:10	117-84-0	G6
Pyrene	**1.07**	ug/L	1.00	0.107		1	06/28/22 03:27	06/29/22 01:10	129-00-0	G6
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/28/22 03:27	06/29/22 01:10	105-67-9	G6
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/28/22 03:27	06/29/22 01:10		G6
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/28/22 03:27	06/29/22 01:10	87-86-5	G6
Phenol	ND	ug/L	10.0	4.33		1	06/28/22 03:27	06/29/22 01:10	108-95-2	G6
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/28/22 03:27	07/02/22 16:45	134-32-7	G6
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/28/22 03:27	07/02/22 16:45	91-59-8	G6
O-Toluidine	ND	ug/L	10.0	3.53		1	06/28/22 03:27	07/02/22 16:45	95-53-4	G6
Surrogates										
2-Fluorophenol (S)	31.9	%	10.0-120			1	06/28/22 03:27	06/29/22 01:10	367-12-4	
Phenol-d5 (S)	23.0	%	10.0-120			1	06/28/22 03:27	06/29/22 01:10	4165-62-2	
Nitrobenzene-d5 (S)	53.5	%	10.0-127			1	06/28/22 03:27	06/29/22 01:10	4165-60-0	
2-Fluorobiphenyl (S)	56.5	%	10.0-130			1	06/28/22 03:27	06/29/22 01:10	321-60-8	
2,4,6-Tribromophenol (S)	69.0	%	10.0-155			1	06/28/22 03:27	06/29/22 01:10	118-79-6	
Terphenyl-d14 (S)	77.1	%	10.0-128			1	06/28/22 03:27	06/29/22 01:10	1718-51-0	
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.127J**	ug/L	0.400	0.0447		1	06/27/22 05:43	06/27/22 18:13	123-91-1	B,J
Surrogates										
Nitrobenzene-d5 (S)	49.2	%	10.0-120			1	06/27/22 05:43	06/27/22 18:13	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/02/22 12:54	07/02/22 12:54	67-64-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 7-S **Lab ID: 20247389005** Collected: 06/21/22 08:10 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Benzene	ND	ug/L	1.00	0.0941		1	07/02/22 12:54	07/02/22 12:54	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/02/22 12:54	07/02/22 12:54	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/02/22 12:54	07/02/22 12:54	75-15-0	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/02/22 12:54	07/02/22 12:54	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/02/22 12:54	07/02/22 12:54	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/02/22 12:54	07/02/22 12:54	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/02/22 12:54	07/02/22 12:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/02/22 12:54	07/02/22 12:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/02/22 12:54	07/02/22 12:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/02/22 12:54	07/02/22 12:54	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/02/22 12:54	07/02/22 12:54	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/02/22 12:54	07/02/22 12:54	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/02/22 12:54	07/02/22 12:54	79-01-6	L0
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/02/22 12:54	07/02/22 12:54	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/02/22 12:54	07/02/22 12:54	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/02/22 12:54	07/02/22 12:54	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/02/22 12:54	07/02/22 12:54	1330-20-7	
Surrogates										
Toluene-d8 (S)	99.3	%	80.0-120			1	07/02/22 12:54	07/02/22 12:54	2037-26-5	
1,2-Dichloroethane-d4 (S)	108	%	70.0-130			1	07/02/22 12:54	07/02/22 12:54	17060-07-0	
4-Bromofluorobenzene (S)	104	%	77.0-126			1	07/02/22 12:54	07/02/22 12:54	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.0040		1		06/26/22 11:17	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	**0.0014J**	mg/L	0.0040	0.0012		1	06/29/22 08:55	06/29/22 17:12	57-12-5	
EPA 420.4 Rev. 1	Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast									
Phenolics, Total Recoverable	**69.7**	ug/L	60.0	25.0		1	07/01/22 13:30	07/05/22 15:59	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 8-D **Lab ID: 20247389006** Collected: 06/21/22 15:10 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
EDB / DBCP 8011	Analytical Method: EPA 8011 Preparation Method: 8011/504.1 Pace National - Mt. Juliet									
1,2-Dibromoethane (EDB)	ND	ug/L	0.0200	0.00536		1	06/24/22 12:56	06/24/22 16:57	106-93-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	0.0200	0.00748		1	06/24/22 12:56	06/24/22 16:57	96-12-8	
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/27/22 07:33	06/27/22 15:51	309-00-2	
alpha-BHC	ND	ug/L	0.0500	0.0172		1	06/27/22 07:33	06/27/22 15:51	319-84-6	
beta-BHC	ND	ug/L	0.0500	0.0208		1	06/27/22 07:33	06/27/22 15:51	319-85-7	
delta-BHC	ND	ug/L	0.0500	0.0150		1	06/27/22 07:33	06/27/22 15:51	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.0500	0.0209		1	06/27/22 07:33	06/27/22 15:51	58-89-9	
Chlordane (Technical)	ND	ug/L	5.00	0.0198		1	06/27/22 07:33	06/27/22 15:51	57-74-9	
4,4'-DDD	ND	ug/L	0.0500	0.0177		1	06/27/22 07:33	06/27/22 15:51	72-54-8	
4,4'-DDE	ND	ug/L	0.0500	0.0154		1	06/27/22 07:33	06/27/22 15:51	72-55-9	
4,4'-DDT	ND	ug/L	0.0500	0.0198		1	06/27/22 07:33	06/27/22 15:51	50-29-3	
Dieldrin	ND	ug/L	0.0500	0.0162		1	06/27/22 07:33	06/27/22 15:51	60-57-1	
Endosulfan I	ND	ug/L	0.0500	0.0160		1	06/27/22 07:33	06/27/22 15:51	959-98-8	
Endosulfan II	ND	ug/L	0.0500	0.0164		1	06/27/22 07:33	06/27/22 15:51	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.0500	0.0217		1	06/27/22 07:33	06/27/22 15:51	1031-07-8	
Endrin	ND	ug/L	0.0500	0.0161		1	06/27/22 07:33	06/27/22 15:51	72-20-8	
Endrin aldehyde	ND	ug/L	0.0500	0.0237		1	06/27/22 07:33	06/27/22 15:51	7421-93-4	
Heptachlor	ND	ug/L	0.0500	0.0148		1	06/27/22 07:33	06/27/22 15:51	76-44-8	
Heptachlor epoxide	ND	ug/L	0.0500	0.0183		1	06/27/22 07:33	06/27/22 15:51	1024-57-3	
Methoxychlor	ND	ug/L	0.0500	0.0193		1	06/27/22 07:33	06/27/22 15:51	72-43-5	
Toxaphene	ND	ug/L	0.500	0.168		1	06/27/22 07:33	06/27/22 15:51	8001-35-2	
Surrogates										
Decachlorobiphenyl (S)	74.2	%	10.0-128			1	06/27/22 07:33	06/27/22 15:51	2051-24-3	
Tetrachloro-m-xylene (S)	87.2	%	10.0-127			1	06/27/22 07:33	06/27/22 15:51	877-09-8	
OP Pesticides 8141	Analytical Method: EPA 8141 Preparation Method: 3510C Pace National - Mt. Juliet									
Disulfoton	ND	ug/L	1.00	0.227		1	06/28/22 09:17	06/28/22 18:06	298-04-4	
Parathion (Ethyl parathion)	ND	ug/L	1.00	0.454		1	06/28/22 09:17	06/28/22 18:06	56-38-2	
Methyl parathion	ND	ug/L	1.00	0.383		1	06/28/22 09:17	06/28/22 18:06	298-00-0	
Phorate	ND	ug/L	1.00	0.276		1	06/28/22 09:17	06/28/22 18:06	298-02-2	
Sulfotep (Thiodiphosphoric Ac	ND	ug/L	1.00	0.181		1	06/28/22 09:17	06/28/22 18:06	3689-24-5	
Surrogates										
Triphenylphosphate (S)	78.6	%	42.0-129			1	06/28/22 09:17	06/28/22 18:06	115-86-6	
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4-D	ND	ug/L	2.00	0.547		1	06/28/22 18:00	06/30/22 18:42	94-75-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 8-D **Lab ID: 20247389006** Collected: 06/21/22 15:10 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4,5-T	ND	ug/L	2.00	0.258		1	06/28/22 18:00	06/30/22 18:42	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/28/22 18:00	06/30/22 18:42	93-72-1	
Surrogates										
2,4-DCAA (S)	66.8	%	14.0-158			1	06/28/22 18:00	06/30/22 18:42	19719-28-9	
EPA 8082A	Analytical Method: EPA 8082 Preparation Method: EPA 3510C Pace Analytical Gulf Coast									
PCB-1016 (Aroclor 1016)	ND	ug/L	0.500	0.200		1	06/29/22 08:30	06/29/22 18:45	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	1.00	0.400		1	06/29/22 08:30	06/29/22 18:45	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.500	0.200		1	06/29/22 08:30	06/29/22 18:45	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.500	0.200		1	06/29/22 08:30	06/29/22 18:45	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.500	0.200		1	06/29/22 08:30	06/29/22 18:45	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.500	0.200		1	06/29/22 08:30	06/29/22 18:45	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.500	0.200		1	06/29/22 08:30	06/29/22 18:45	11096-82-5	
Surrogates										
Decachlorobiphenyl (S)	64	%	30-139			1	06/29/22 08:30	06/29/22 18:45	2051-24-3	
Tetrachloro-m-xylene (S)	72	%	48-137			1	06/29/22 08:30	06/29/22 18:45	877-09-8	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0020	0.0013		2	06/24/22 06:35	06/28/22 18:39	7440-36-0	
Arsenic	**0.0094**	mg/L	0.0020	0.00040		2	06/24/22 06:35	06/28/22 18:39	7440-38-2	
Barium	**0.13**	mg/L	0.0020	0.00072		2	06/24/22 06:35	06/28/22 18:39	7440-39-3	
Beryllium	ND	mg/L	0.0020	0.00024		2	06/24/22 06:35	06/28/22 18:39	7440-41-7	D3
Cadmium	ND	mg/L	0.0020	0.00016		2	06/24/22 06:35	06/28/22 18:39	7440-43-9	
Chromium	ND	mg/L	0.0020	0.0012		2	06/24/22 06:35	06/28/22 18:39	7440-47-3	
Cobalt	**0.00066J**	mg/L	0.0020	0.00012		2	06/24/22 06:35	06/28/22 18:39	7440-48-4	
Copper	ND	mg/L	0.0060	0.0017		2	06/24/22 06:35	06/28/22 18:39	7440-50-8	
Lead	ND	mg/L	0.0020	0.00014		2	06/24/22 06:35	06/28/22 18:39	7439-92-1	
Nickel	ND	mg/L	0.0020	0.0011		2	06/24/22 06:35	06/28/22 18:39	7440-02-0	
Selenium	ND	mg/L	0.0020	0.00074		2	06/24/22 06:35	06/28/22 18:39	7782-49-2	
Silver	ND	mg/L	0.0010	0.00016		2	06/24/22 06:35	06/28/22 18:39	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00016		2	06/24/22 06:35	06/28/22 18:39	7440-28-0	
Tin	ND	mg/L	0.012	0.00086		2	06/24/22 06:35	06/28/22 18:39	7440-31-5	
Vanadium	ND	mg/L	0.010	0.0046		2	06/24/22 06:35	06/28/22 18:39	7440-62-2	
Zinc	ND	mg/L	0.020	0.0088		2	06/24/22 06:35	06/28/22 18:39	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/25/22 13:45	06/28/22 14:49	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	ND	ug/L	1.05	0.0930		1.05	06/28/22 03:27	06/28/22 21:16	83-32-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 8-D **Lab ID: 20247389006** Collected: 06/21/22 15:10 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthylene	ND	ug/L	1.05	0.0967		1.05	06/28/22 03:27	06/28/22 21:16	208-96-8	
Acetophenone	ND	ug/L	10.5	0.218		1.05	06/28/22 03:27	06/28/22 21:16	98-86-2	
Aniline	ND	ug/L	10.5	1.73		1.05	06/28/22 03:27	06/28/22 21:16	62-53-3	
Anthracene	ND	ug/L	1.05	0.0844		1.05	06/28/22 03:27	06/28/22 21:16	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.05	0.209		1.05	06/28/22 03:27	06/28/22 21:16	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.05	0.136		1.05	06/28/22 03:27	06/28/22 21:16	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.05	0.126		1.05	06/28/22 03:27	06/28/22 21:16	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.05	0.127		1.05	06/28/22 03:27	06/28/22 21:16	191-24-2	
Benzo(a)pyrene	ND	ug/L	1.05	0.0400		1.05	06/28/22 03:27	06/28/22 21:16	50-32-8	
Benzyl alcohol	ND	ug/L	10.5	0.591		1.05	06/28/22 03:27	06/28/22 21:16	100-51-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.5	0.122		1.05	06/28/22 03:27	06/28/22 21:16	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.5	0.144		1.05	06/28/22 03:27	06/28/22 21:16	111-44-4	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.5	0.221		1.05	06/28/22 03:27	06/28/22 21:16	108-60-1	
4-Bromophenylphenyl ether	ND	ug/L	10.5	0.0921		1.05	06/28/22 03:27	06/28/22 21:16	101-55-3	
4-Chloroaniline	ND	ug/L	10.5	0.246		1.05	06/28/22 03:27	06/28/22 21:16	106-47-8	
2-Chloronaphthalene	ND	ug/L	1.05	0.0680		1.05	06/28/22 03:27	06/28/22 21:16	91-58-7	
4-Chlorophenylphenyl ether	ND	ug/L	10.5	0.0972		1.05	06/28/22 03:27	06/28/22 21:16	7005-72-3	
Chrysene	ND	ug/L	1.05	0.136		1.05	06/28/22 03:27	06/28/22 21:16	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.05	0.0676		1.05	06/28/22 03:27	06/28/22 21:16	53-70-3	
Dibenzofuran	ND	ug/L	10.5	0.102		1.05	06/28/22 03:27	06/28/22 21:16	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.5	0.0749		1.05	06/28/22 03:27	06/28/22 21:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.5	0.139		1.05	06/28/22 03:27	06/28/22 21:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.5	0.0989		1.05	06/28/22 03:27	06/28/22 21:16	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10.5	0.223		1.05	06/28/22 03:27	06/28/22 21:16	91-94-1	
2,4-Dinitrotoluene	ND	ug/L	10.5	0.103		1.05	06/28/22 03:27	06/28/22 21:16	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.5	0.263		1.05	06/28/22 03:27	06/28/22 21:16	606-20-2	
Fluoranthene	ND	ug/L	1.05	0.107		1.05	06/28/22 03:27	06/28/22 21:16	206-44-0	
Fluorene	ND	ug/L	1.05	0.0886		1.05	06/28/22 03:27	06/28/22 21:16	86-73-7	
Hexachlorobenzene	ND	ug/L	1.05	0.0793		1.05	06/28/22 03:27	06/28/22 21:16	118-74-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.5	0.102		1.05	06/28/22 03:27	06/28/22 21:16	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	10.5	0.0628		1.05	06/28/22 03:27	06/28/22 21:16	77-47-4	
Hexachloroethane	ND	ug/L	10.5	0.133		1.05	06/28/22 03:27	06/28/22 21:16	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.05	0.293		1.05	06/28/22 03:27	06/28/22 21:16	193-39-5	
Isophorone	ND	ug/L	10.5	0.150		1.05	06/28/22 03:27	06/28/22 21:16	78-59-1	
1-Methylnaphthalene	ND	ug/L	1.05	0.0829		1.05	06/28/22 03:27	06/28/22 21:16	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.05	0.123		1.05	06/28/22 03:27	06/28/22 21:16	91-57-6	
2-Nitroaniline	ND	ug/L	10.5	0.107		1.05	06/28/22 03:27	06/28/22 21:16	88-74-4	
3-Nitroaniline	ND	ug/L	10.5	0.0912		1.05	06/28/22 03:27	06/28/22 21:16	99-09-2	
4-Nitroaniline	ND	ug/L	10.5	0.0956		1.05	06/28/22 03:27	06/28/22 21:16	100-01-6	
Naphthalene	ND	ug/L	1.05	0.167		1.05	06/28/22 03:27	06/28/22 21:16	91-20-3	
Nitrobenzene	ND	ug/L	10.5	0.312		1.05	06/28/22 03:27	06/28/22 21:16	98-95-3	
N-Nitrosodimethylamine	ND	ug/L	10.5	1.05		1.05	06/28/22 03:27	06/28/22 21:16	62-75-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 8-D **Lab ID: 20247389006** Collected: 06/21/22 15:10 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
N-Nitrosodiphenylamine	ND	ug/L	10.5	2.49		1.05	06/28/22 03:27	06/28/22 21:16	86-30-6	
N-Nitroso-di-n-propylamine	ND	ug/L	10.5	0.274		1.05	06/28/22 03:27	06/28/22 21:16	621-64-7	
Phenanthrene	ND	ug/L	1.05	0.118		1.05	06/28/22 03:27	06/28/22 21:16	85-01-8	
Pyridine	ND	ug/L	10.5	0.658		1.05	06/28/22 03:27	06/28/22 21:16	110-86-1	
Butylbenzylphthalate	ND	ug/L	3.15	0.803		1.05	06/28/22 03:27	06/28/22 21:16	85-68-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.15	0.940		1.05	06/28/22 03:27	06/28/22 21:16	117-81-7	
Di-n-butylphthalate	ND	ug/L	3.15	0.476		1.05	06/28/22 03:27	06/28/22 21:16	84-74-2	
Diethylphthalate	ND	ug/L	3.15	0.301		1.05	06/28/22 03:27	06/28/22 21:16	84-66-2	
Dimethylphthalate	ND	ug/L	3.15	0.273		1.05	06/28/22 03:27	06/28/22 21:16	131-11-3	
Di-n-octylphthalate	ND	ug/L	3.15	0.979		1.05	06/28/22 03:27	06/28/22 21:16	117-84-0	
Pyrene	ND	ug/L	1.05	0.112		1.05	06/28/22 03:27	06/28/22 21:16	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.5	0.0679		1.05	06/28/22 03:27	06/28/22 21:16	95-94-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.5	0.0733		1.05	06/28/22 03:27	06/28/22 21:16	120-82-1	
4-Chloro-3-methylphenol	ND	ug/L	10.5	0.138		1.05	06/28/22 03:27	06/28/22 21:16	59-50-7	
2-Chlorophenol	ND	ug/L	10.5	0.140		1.05	06/28/22 03:27	06/28/22 21:16	95-57-8	
2,4-Dichlorophenol	ND	ug/L	10.5	0.107		1.05	06/28/22 03:27	06/28/22 21:16	120-83-2	
2,4-Dimethylphenol	ND	ug/L	10.5	0.0668		1.05	06/28/22 03:27	06/28/22 21:16	105-67-9	
4,6-Dinitro-2-methylphenol	ND	ug/L	10.5	1.18		1.05	06/28/22 03:27	06/28/22 21:16	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10.5	6.23		1.05	06/28/22 03:27	06/28/22 21:16	51-28-5	
2-Methylphenol(o-Cresol)	ND	ug/L	10.5	0.0975		1.05	06/28/22 03:27	06/28/22 21:16	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.5	0.176		1.05	06/28/22 03:27	06/28/22 21:16		
2-Nitrophenol	ND	ug/L	10.5	0.123		1.05	06/28/22 03:27	06/28/22 21:16	88-75-5	
4-Nitrophenol	ND	ug/L	10.5	0.150		1.05	06/28/22 03:27	06/28/22 21:16	100-02-7	
Pentachlorophenol	ND	ug/L	10.5	0.329		1.05	06/28/22 03:27	06/28/22 21:16	87-86-5	
Phenol	ND	ug/L	10.5	4.55		1.05	06/28/22 03:27	06/28/22 21:16	108-95-2	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.5	0.243		1.05	06/28/22 03:27	06/28/22 21:16	58-90-2	
2,4,5-Trichlorophenol	ND	ug/L	10.5	0.114		1.05	06/28/22 03:27	06/28/22 21:16	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.5	0.105		1.05	06/28/22 03:27	06/28/22 21:16	88-06-2	
2-Acetylaminofluorene	ND	ug/L	10.5	0.266		1.05	06/28/22 03:27	07/02/22 12:35	53-96-3	
4-Aminobiphenyl	ND	ug/L	10.5	0.484		1.05	06/28/22 03:27	07/02/22 12:35	92-67-1	
Aramite	ND	ug/L	52.5	17.5		1.05	06/28/22 03:27	07/02/22 12:35	140-57-8	
Chlorobenzilate	ND	ug/L	52.5	4.03		1.05	06/28/22 03:27	07/02/22 12:35	510-15-6	
Diallate	ND	ug/L	10.5	0.550		1.05	06/28/22 03:27	07/02/22 12:35	2303-16-4	
2,6-Dichlorophenol	ND	ug/L	10.5	0.107		1.05	06/28/22 03:27	07/02/22 12:35	87-65-0	
Dimethoate	ND	ug/L	52.5	5.30		1.05	06/28/22 03:27	07/02/22 12:35	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	10.5	3.87		1.05	06/28/22 03:27	07/02/22 12:35	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.5	1.80		1.05	06/28/22 03:27	07/02/22 12:35	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.5	3.56		1.05	06/28/22 03:27	07/02/22 12:35	119-93-7	
a,a-Dimethylphenylethylamine	ND	ug/L	52.5	3.29		1.05	06/28/22 03:27	07/02/22 12:35	122-09-8	L0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 8-D **Lab ID: 20247389006** Collected: 06/21/22 15:10 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
1,3-Dinitrobenzene	ND	ug/L	10.5	0.377		1.05	06/28/22 03:27	07/02/22 12:35	99-65-0	
Diphenylamine	ND	ug/L	10.5	2.49		1.05	06/28/22 03:27	06/28/22 21:16	122-39-4	
Dinoseb	ND	ug/L	52.5	8.41		1.05	06/28/22 03:27	07/02/22 12:35	88-85-7	
Ethyl methanesulfonate	ND	ug/L	10.5	0.342		1.05	06/28/22 03:27	07/02/22 12:35	62-50-0	
Famphur	ND	ug/L	21.0	4.12		1.05	06/28/22 03:27	07/02/22 12:35	52-85-7	
Hexachloropropene	ND	ug/L	52.5	0.156		1.05	06/28/22 03:27	07/02/22 12:35	1888-71-7	
Hexachlorophene	ND	ug/L	52.5	1.51		1.05	06/28/22 03:27	07/02/22 12:35	70-30-4	
Isodrin	ND	ug/L	10.5	4.32		1.05	06/28/22 03:27	07/02/22 12:35	465-73-6	
Isosafrole	ND	ug/L	10.5	4.07		1.05	06/28/22 03:27	07/02/22 12:35	120-58-1	
Kepone	ND	ug/L	21.0	2.79		1.05	06/28/22 03:27	07/02/22 12:35	143-50-0	L0
Methapyrilene	ND	ug/L	52.5	10.5		1.05	06/28/22 03:27	07/02/22 12:35	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.5	0.172		1.05	06/28/22 03:27	07/02/22 12:35	56-49-5	
Methyl methanesulfonate	ND	ug/L	52.5	3.57		1.05	06/28/22 03:27	07/02/22 12:35	66-27-3	
1,4-Naphthoquinone	ND	ug/L	52.5	5.84		1.05	06/28/22 03:27	07/02/22 12:35	130-15-4	L0
1-Naphthalenamine	ND	ug/L	10.5	0.303		1.05	06/28/22 03:27	07/02/22 12:35	134-32-7	
2-Naphthalenamine	ND	ug/L	10.5	4.70		1.05	06/28/22 03:27	07/02/22 12:35	91-59-8	
5-Nitro-o-toluidine	ND	ug/L	10.5	2.09		1.05	06/28/22 03:27	07/02/22 12:35	99-55-8	
4-Nitroquinoline-n-oxide	ND	ug/L	10.5	2.13		1.05	06/28/22 03:27	07/02/22 12:35	56-57-5	
N-Nitrosodiethylamine	ND	ug/L	10.5	3.75		1.05	06/28/22 03:27	07/02/22 12:35	55-18-5	
N-Nitroso-di-n-butylamine	ND	ug/L	10.5	4.11		1.05	06/28/22 03:27	07/02/22 12:35	924-16-3	
N-Nitrosomethylethylamine	ND	ug/L	10.5	3.41		1.05	06/28/22 03:27	07/02/22 12:35	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	10.5	3.41		1.05	06/28/22 03:27	07/02/22 12:35	59-89-2	
N-Nitrosopiperidine	ND	ug/L	10.5	3.91		1.05	06/28/22 03:27	07/02/22 12:35	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.5	3.56		1.05	06/28/22 03:27	07/02/22 12:35	930-55-2	
Pentachlorobenzene	ND	ug/L	10.5	4.36		1.05	06/28/22 03:27	07/02/22 12:35	608-93-5	
Pentachloronitrobenzene	ND	ug/L	10.5	4.36		1.05	06/28/22 03:27	07/02/22 12:35	82-68-8	
Phenacetin	ND	ug/L	10.5	4.89		1.05	06/28/22 03:27	07/02/22 12:35	62-44-2	
p-Phenylenediamine	ND	ug/L	7250	406		1.05	06/28/22 03:27	07/02/22 12:35	106-50-3	L0
2-Picoline	ND	ug/L	52.5	7.17		1.05	06/28/22 03:27	07/02/22 12:35	109-06-8	
Pronamide	ND	ug/L	10.5	4.42		1.05	06/28/22 03:27	07/02/22 12:35	23950-58-5	
Safrole	ND	ug/L	10.5	3.86		1.05	06/28/22 03:27	07/02/22 12:35	94-59-7	
Sulfotep (Thiodiphosphoric Ac	ND	ug/L	52.5	4.19		1.05	06/28/22 03:27	07/02/22 12:35	3689-24-5	
Thionazin	ND	ug/L	10.5	4.27		1.05	06/28/22 03:27	07/02/22 12:35	297-97-2	
O-Toluidine	ND	ug/L	10.5	3.71		1.05	06/28/22 03:27	07/02/22 12:35	95-53-4	
1,3,5-Trinitrobenzene	ND	ug/L	10.5	1.39		1.05	06/28/22 03:27	07/02/22 12:35	99-35-4	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.5	3.08		1.05	06/28/22 03:27	07/02/22 12:35	126-68-1	
Surrogates										
2-Fluorophenol (S)	33.9	%	10.0-120			1.05	06/28/22 03:27	06/28/22 21:16	367-12-4	
Phenol-d5 (S)	22.9	%	10.0-120			1.05	06/28/22 03:27	06/28/22 21:16	4165-62-2	
Nitrobenzene-d5 (S)	51.9	%	10.0-127			1.05	06/28/22 03:27	06/28/22 21:16	4165-60-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 8-D **Lab ID: 20247389006** Collected: 06/21/22 15:10 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Surrogates										
2-Fluorobiphenyl (S)	50.4	%	10.0-130			1.05	06/28/22 03:27	06/28/22 21:16	321-60-8	
2,4,6-Tribromophenol (S)	62.9	%	10.0-155			1.05	06/28/22 03:27	06/28/22 21:16	118-79-6	
Terphenyl-d14 (S)	67.7	%	10.0-128			1.05	06/28/22 03:27	06/28/22 21:16	1718-51-0	
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.0757J**	ug/L	0.400	0.0447		1	06/27/22 05:43	06/27/22 18:32	123-91-1	B,J
Surrogates										
Nitrobenzene-d5 (S)	61.8	%	10.0-120			1	06/27/22 05:43	06/27/22 18:32	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/02/22 13:16	07/02/22 13:16	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	07/02/22 13:16	07/02/22 13:16	107-02-8	
Acrylonitrile	ND	ug/L	10.0	0.671		1	07/02/22 13:16	07/02/22 13:16	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	07/02/22 13:16	07/02/22 13:16	107-05-1	
Benzene	ND	ug/L	1.00	0.0941		1	07/02/22 13:16	07/02/22 13:16	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/02/22 13:16	07/02/22 13:16	75-27-4	
Bromoform	ND	ug/L	1.00	0.129		1	07/02/22 13:16	07/02/22 13:16	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	07/02/22 13:16	07/02/22 13:16	74-83-9	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/02/22 13:16	07/02/22 13:16	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	07/02/22 13:16	07/02/22 13:16	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/02/22 13:16	07/02/22 13:16	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140		1	07/02/22 13:16	07/02/22 13:16	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192		1	07/02/22 13:16	07/02/22 13:16	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	07/02/22 13:16	07/02/22 13:16	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	07/02/22 13:16	07/02/22 13:16	74-87-3	
Dibromomethane	ND	ug/L	1.00	0.122		1	07/02/22 13:16	07/02/22 13:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	07/02/22 13:16	07/02/22 13:16	95-50-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	07/02/22 13:16	07/02/22 13:16	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	07/02/22 13:16	07/02/22 13:16	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/02/22 13:16	07/02/22 13:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	07/02/22 13:16	07/02/22 13:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/02/22 13:16	07/02/22 13:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/02/22 13:16	07/02/22 13:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/02/22 13:16	07/02/22 13:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/02/22 13:16	07/02/22 13:16	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	07/02/22 13:16	07/02/22 13:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	07/02/22 13:16	07/02/22 13:16	10061-02-6	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/02/22 13:16	07/02/22 13:16	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.787		1	07/02/22 13:16	07/02/22 13:16	591-78-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 8-D **Lab ID: 20247389006** Collected: 06/21/22 15:10 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Iodomethane	ND	ug/L	10.0	6.00		1	07/02/22 13:16	07/02/22 13:16	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	07/02/22 13:16	07/02/22 13:16	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430		1	07/02/22 13:16	07/02/22 13:16	75-09-2	L0
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	07/02/22 13:16	07/02/22 13:16	108-10-1	
Styrene	ND	ug/L	1.00	0.118		1	07/02/22 13:16	07/02/22 13:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	07/02/22 13:16	07/02/22 13:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	07/02/22 13:16	07/02/22 13:16	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	07/02/22 13:16	07/02/22 13:16	127-18-4	
Toluene	ND	ug/L	1.00	0.278		1	07/02/22 13:16	07/02/22 13:16	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	07/02/22 13:16	07/02/22 13:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	07/02/22 13:16	07/02/22 13:16	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/02/22 13:16	07/02/22 13:16	79-01-6	L0
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	07/02/22 13:16	07/02/22 13:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	07/02/22 13:16	07/02/22 13:16	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	07/02/22 13:16	07/02/22 13:16	108-05-4	
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/02/22 13:16	07/02/22 13:16	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/02/22 13:16	07/02/22 13:16	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/02/22 13:16	07/02/22 13:16	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/02/22 13:16	07/02/22 13:16	1330-20-7	
Acetonitrile	ND	ug/L	50.0	24.0		1	07/02/22 13:16	07/02/22 13:16	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	07/02/22 13:16	07/02/22 13:16	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	07/02/22 13:16	07/02/22 13:16	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	07/02/22 13:16	07/02/22 13:16	78-83-1	
Methacrylonitrile	ND	ug/L	50.0	14.2		1	07/02/22 13:16	07/02/22 13:16	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	07/02/22 13:16	07/02/22 13:16	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	07/02/22 13:16	07/02/22 13:16	76-01-7	L0
Propionitrile	ND	ug/L	50.0	16.2		1	07/02/22 13:16	07/02/22 13:16	107-12-0	
Surrogates										
Toluene-d8 (S)	101	%	80.0-120			1	07/02/22 13:16	07/02/22 13:16	2037-26-5	
1,2-Dichloroethane-d4 (S)	103	%	70.0-130			1	07/02/22 13:16	07/02/22 13:16	17060-07-0	
4-Bromofluorobenzene (S)	101	%	77.0-126			1	07/02/22 13:16	07/02/22 13:16	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.0040		1		06/26/22 11:18	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	**0.0012J**	mg/L	0.0040	0.0012		1	06/29/22 08:55	06/29/22 17:14	57-12-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 8-D **Lab ID: 20247389006** Collected: 06/21/22 15:10 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 420.4 Rev. 1		Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast								
Phenolics, Total Recoverable	**28.6J**	ug/L	60.0	25.0		1	07/01/22 13:30	07/05/22 16:00	64743-03-9	

Sample: 8-DK **Lab ID: 20247389007** Collected: 06/22/22 08:40 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081		Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet								
Aldrin	ND	ug/L	0.0500	0.0198		1	06/28/22 14:49	06/28/22 23:52	309-00-2	
Surrogates										
Decachlorobiphenyl (S)	92.3	%	10.0-128			1	06/28/22 14:49	06/28/22 23:52	2051-24-3	
Tetrachloro-m-xylene (S)	113	%	10.0-127			1	06/28/22 14:49	06/28/22 23:52	877-09-8	
Chlorinated Herb. (GC) 8151		Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet								
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/28/22 18:00	06/30/22 18:57	93-72-1	
Surrogates										
2,4-DCAA (S)	61.6	%	14.0-158			1	06/28/22 18:00	06/30/22 18:57	19719-28-9	
6020 MET ICPMS		Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans								
Antimony	ND	mg/L	0.0010	0.00063		1	06/24/22 06:35	06/27/22 22:23	7440-36-0	
Arsenic	**0.0030**	mg/L	0.0010	0.00020		1	06/24/22 06:35	06/27/22 22:23	7440-38-2	
Barium	**0.17**	mg/L	0.0010	0.00036		1	06/24/22 06:35	06/27/22 22:23	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00012		1	06/24/22 06:35	06/27/22 22:23	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000080		1	06/24/22 06:35	06/27/22 22:23	7440-43-9	
Chromium	ND	mg/L	0.0010	0.00062		1	06/24/22 06:35	06/27/22 22:23	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000060		1	06/24/22 06:35	06/27/22 22:23	7440-48-4	
Copper	ND	mg/L	0.0030	0.00083		1	06/24/22 06:35	06/27/22 22:23	7440-50-8	
Lead	ND	mg/L	0.0010	0.000070		1	06/24/22 06:35	06/27/22 22:23	7439-92-1	
Nickel	ND	mg/L	0.0010	0.00056		1	06/24/22 06:35	06/27/22 22:23	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00037		1	06/24/22 06:35	06/27/22 22:23	7782-49-2	
Silver	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 22:23	7440-22-4	
Thallium	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 22:23	7440-28-0	
Tin	ND	mg/L	0.0060	0.00043		1	06/24/22 06:35	06/27/22 22:23	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.0023		1	06/24/22 06:35	06/27/22 22:23	7440-62-2	
Zinc	ND	mg/L	0.010	0.0044		1	06/24/22 06:35	06/27/22 22:23	7440-66-6	

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 8-DK **Lab ID: 20247389007** Collected: 06/22/22 08:40 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/25/22 13:45	06/28/22 14:55	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	ND	ug/L	1.00	0.0886		1	06/29/22 03:25	07/02/22 01:34	83-32-9	G6
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/29/22 03:25	07/02/22 01:34	208-96-8	G6
Anthracene	ND	ug/L	1.00	0.0804		1	06/29/22 03:25	07/02/22 01:34	120-12-7	G6
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/29/22 03:25	07/02/22 01:34	56-55-3	G6
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/29/22 03:25	07/02/22 01:34	205-99-2	G6
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/29/22 03:25	07/02/22 01:34	207-08-9	G6
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/29/22 03:25	07/02/22 01:34	191-24-2	G6
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/29/22 03:25	07/02/22 01:34	50-32-8	G6
Chrysene	ND	ug/L	1.00	0.130		1	06/29/22 03:25	07/02/22 01:34	218-01-9	G6
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/29/22 03:25	07/02/22 01:34	132-64-9	G6
Fluoranthene	ND	ug/L	1.00	0.102		1	06/29/22 03:25	07/02/22 01:34	206-44-0	G6
Fluorene	ND	ug/L	1.00	0.0844		1	06/29/22 03:25	07/02/22 01:34	86-73-7	G6
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/29/22 03:25	07/02/22 01:34	67-72-1	G6
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/29/22 03:25	07/02/22 01:34	193-39-5	G6
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/29/22 03:25	07/02/22 01:34	90-12-0	G6
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/29/22 03:25	07/02/22 01:34	91-57-6	G6
Naphthalene	ND	ug/L	1.00	0.159		1	06/29/22 03:25	07/02/22 01:34	91-20-3	G6
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/29/22 03:25	07/02/22 01:34	86-30-6	G6
Phenanthrene	ND	ug/L	1.00	0.112		1	06/29/22 03:25	07/02/22 01:34	85-01-8	G6
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/29/22 03:25	07/02/22 01:34	117-81-7	G6
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/29/22 03:25	07/02/22 01:34	117-84-0	G6
Pyrene	ND	ug/L	1.00	0.107		1	06/29/22 03:25	07/02/22 01:34	129-00-0	G6
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/29/22 03:25	07/02/22 01:34	105-67-9	G6
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/29/22 03:25	07/02/22 01:34		G6
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/29/22 03:25	07/02/22 01:34	87-86-5	G6
Phenol	ND	ug/L	10.0	4.33		1	06/29/22 03:25	07/02/22 01:34	108-95-2	G6
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/29/22 03:25	07/02/22 18:01	134-32-7	G6
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/29/22 03:25	07/02/22 18:01	91-59-8	G6
O-Toluidine	ND	ug/L	10.0	3.53		1	06/29/22 03:25	07/02/22 18:01	95-53-4	G6
Surrogates										
2-Fluorophenol (S)	36.9	%	10.0-120			1	06/29/22 03:25	07/02/22 01:34	367-12-4	
Phenol-d5 (S)	23.5	%	10.0-120			1	06/29/22 03:25	07/02/22 01:34	4165-62-2	
Nitrobenzene-d5 (S)	49.9	%	10.0-127			1	06/29/22 03:25	07/02/22 01:34	4165-60-0	
2-Fluorobiphenyl (S)	58.5	%	10.0-130			1	06/29/22 03:25	07/02/22 01:34	321-60-8	
2,4,6-Tribromophenol (S)	80.0	%	10.0-155			1	06/29/22 03:25	07/02/22 01:34	118-79-6	
Terphenyl-d14 (S)	66.4	%	10.0-128			1	06/29/22 03:25	07/02/22 01:34	1718-51-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 8-DK **Lab ID: 20247389007** Collected: 06/22/22 08:40 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	ND	ug/L	0.400	0.0447		1	06/28/22 16:28	06/30/22 16:43	123-91-1	
Surrogates										
Nitrobenzene-d5 (S)	34.7	%	10.0-120			1	06/28/22 16:28	06/30/22 16:43	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/05/22 18:05	07/05/22 18:05	67-64-1	
Benzene	ND	ug/L	1.00	0.0941		1	07/05/22 18:05	07/05/22 18:05	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/05/22 18:05	07/05/22 18:05	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/05/22 18:05	07/05/22 18:05	75-15-0	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/05/22 18:05	07/05/22 18:05	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/05/22 18:05	07/05/22 18:05	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/05/22 18:05	07/05/22 18:05	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/05/22 18:05	07/05/22 18:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/05/22 18:05	07/05/22 18:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/05/22 18:05	07/05/22 18:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/05/22 18:05	07/05/22 18:05	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/05/22 18:05	07/05/22 18:05	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/05/22 18:05	07/05/22 18:05	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/05/22 18:05	07/05/22 18:05	79-01-6	L0
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/05/22 18:05	07/05/22 18:05	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/05/22 18:05	07/05/22 18:05	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/05/22 18:05	07/05/22 18:05	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/05/22 18:05	07/05/22 18:05	1330-20-7	
Surrogates										
Toluene-d8 (S)	98.4	%	80.0-120			1	07/05/22 18:05	07/05/22 18:05	2037-26-5	
1,2-Dichloroethane-d4 (S)	103	%	70.0-130			1	07/05/22 18:05	07/05/22 18:05	17060-07-0	
4-Bromofluorobenzene (S)	99.2	%	77.0-126			1	07/05/22 18:05	07/05/22 18:05	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.0040		1		06/29/22 15:00	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	ND	mg/L	0.0040	0.0012		1	06/29/22 08:55	06/29/22 17:16	57-12-5	
EPA 420.4 Rev. 1	Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast									
Phenolics, Total Recoverable	ND	ug/L	60.0	25.0		1	07/01/22 13:30	07/05/22 16:01	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 8-I **Lab ID: 20247389008** Collected: 06/22/22 08:40 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
EDB / DBCP 8011	Analytical Method: EPA 8011 Preparation Method: 8011/504.1 Pace National - Mt. Juliet									
1,2-Dibromoethane (EDB)	ND	ug/L	0.0206	0.00552		1.03	06/24/22 12:56	06/24/22 17:09	106-93-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	0.0206	0.00770		1.03	06/24/22 12:56	06/24/22 17:09	96-12-8	
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/28/22 14:49	06/29/22 00:01	309-00-2	
alpha-BHC	ND	ug/L	0.0500	0.0172		1	06/28/22 14:49	06/29/22 00:01	319-84-6	
beta-BHC	ND	ug/L	0.0500	0.0208		1	06/28/22 14:49	06/29/22 00:01	319-85-7	
delta-BHC	ND	ug/L	0.0500	0.0150		1	06/28/22 14:49	06/29/22 00:01	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.0500	0.0209		1	06/28/22 14:49	06/29/22 00:01	58-89-9	
Chlordane (Technical)	ND	ug/L	5.00	0.0198		1	06/28/22 14:49	06/29/22 00:01	57-74-9	
4,4'-DDD	ND	ug/L	0.0500	0.0177		1	06/28/22 14:49	06/29/22 00:01	72-54-8	
4,4'-DDE	ND	ug/L	0.0500	0.0154		1	06/28/22 14:49	06/29/22 00:01	72-55-9	
4,4'-DDT	ND	ug/L	0.0500	0.0198		1	06/28/22 14:49	06/29/22 00:01	50-29-3	
Dieldrin	ND	ug/L	0.0500	0.0162		1	06/28/22 14:49	06/29/22 00:01	60-57-1	
Endosulfan I	ND	ug/L	0.0500	0.0160		1	06/28/22 14:49	06/29/22 00:01	959-98-8	
Endosulfan II	ND	ug/L	0.0500	0.0164		1	06/28/22 14:49	06/29/22 00:01	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.0500	0.0217		1	06/28/22 14:49	06/29/22 00:01	1031-07-8	
Endrin	ND	ug/L	0.0500	0.0161		1	06/28/22 14:49	06/29/22 00:01	72-20-8	
Endrin aldehyde	ND	ug/L	0.0500	0.0237		1	06/28/22 14:49	06/29/22 00:01	7421-93-4	
Heptachlor	ND	ug/L	0.0500	0.0148		1	06/28/22 14:49	06/29/22 00:01	76-44-8	
Heptachlor epoxide	ND	ug/L	0.0500	0.0183		1	06/28/22 14:49	06/29/22 00:01	1024-57-3	
Methoxychlor	ND	ug/L	0.0500	0.0193		1	06/28/22 14:49	06/29/22 00:01	72-43-5	
Toxaphene	ND	ug/L	0.500	0.168		1	06/28/22 14:49	06/29/22 00:01	8001-35-2	
Surrogates										
Decachlorobiphenyl (S)	88.4	%	10.0-128			1	06/28/22 14:49	06/29/22 00:01	2051-24-3	
Tetrachloro-m-xylene (S)	103	%	10.0-127			1	06/28/22 14:49	06/29/22 00:01	877-09-8	
OP Pesticides 8141	Analytical Method: EPA 8141 Preparation Method: 3510C Pace National - Mt. Juliet									
Disulfoton	ND	ug/L	1.00	0.227		1	06/28/22 09:17	06/28/22 18:39	298-04-4	
Parathion (Ethyl parathion)	ND	ug/L	1.00	0.454		1	06/28/22 09:17	06/28/22 18:39	56-38-2	
Methyl parathion	ND	ug/L	1.00	0.383		1	06/28/22 09:17	06/28/22 18:39	298-00-0	
Phorate	ND	ug/L	1.00	0.276		1	06/28/22 09:17	06/28/22 18:39	298-02-2	
Sulfotep (Thiodiphosphoric Ac	ND	ug/L	1.00	0.181		1	06/28/22 09:17	06/28/22 18:39	3689-24-5	
Surrogates										
Triphenylphosphate (S)	74.8	%	42.0-129			1	06/28/22 09:17	06/28/22 18:39	115-86-6	
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4-D	ND	ug/L	2.00	0.547		1	06/28/22 18:00	06/30/22 19:12	94-75-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 8-I **Lab ID: 20247389008** Collected: 06/22/22 08:40 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4,5-T	ND	ug/L	2.00	0.258		1	06/28/22 18:00	06/30/22 19:12	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/28/22 18:00	06/30/22 19:12	93-72-1	
Surrogates										
2,4-DCAA (S)	93.9	%	14.0-158			1	06/28/22 18:00	06/30/22 19:12	19719-28-9	
EPA 8082A	Analytical Method: EPA 8082 Preparation Method: EPA 3510C Pace Analytical Gulf Coast									
PCB-1016 (Aroclor 1016)	ND	ug/L	0.500	0.200		1	06/29/22 08:30	06/29/22 18:57	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	1.00	0.400		1	06/29/22 08:30	06/29/22 18:57	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.500	0.200		1	06/29/22 08:30	06/29/22 18:57	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.500	0.200		1	06/29/22 08:30	06/29/22 18:57	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.500	0.200		1	06/29/22 08:30	06/29/22 18:57	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.500	0.200		1	06/29/22 08:30	06/29/22 18:57	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.500	0.200		1	06/29/22 08:30	06/29/22 18:57	11096-82-5	
Surrogates										
Decachlorobiphenyl (S)	97	%	30-139			1	06/29/22 08:30	06/29/22 18:57	2051-24-3	
Tetrachloro-m-xylene (S)	74	%	48-137			1	06/29/22 08:30	06/29/22 18:57	877-09-8	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00063		1	06/24/22 06:35	06/27/22 22:41	7440-36-0	
Arsenic	**0.022**	mg/L	0.0010	0.00020		1	06/24/22 06:35	06/27/22 22:41	7440-38-2	
Barium	**0.051**	mg/L	0.0010	0.00036		1	06/24/22 06:35	06/27/22 22:41	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00012		1	06/24/22 06:35	06/27/22 22:41	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000080		1	06/24/22 06:35	06/27/22 22:41	7440-43-9	
Chromium	**0.00070J**	mg/L	0.0010	0.00062		1	06/24/22 06:35	06/27/22 22:41	7440-47-3	
Cobalt	**0.00017J**	mg/L	0.0010	0.000060		1	06/24/22 06:35	06/27/22 22:41	7440-48-4	
Copper	**0.0012J**	mg/L	0.0030	0.00083		1	06/24/22 06:35	06/27/22 22:41	7440-50-8	
Lead	ND	mg/L	0.0010	0.000070		1	06/24/22 06:35	06/27/22 22:41	7439-92-1	
Nickel	ND	mg/L	0.0010	0.00056		1	06/24/22 06:35	06/27/22 22:41	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00037		1	06/24/22 06:35	06/27/22 22:41	7782-49-2	
Silver	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 22:41	7440-22-4	
Thallium	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 22:41	7440-28-0	
Tin	ND	mg/L	0.0060	0.00043		1	06/24/22 06:35	06/27/22 22:41	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.0023		1	06/24/22 06:35	06/27/22 22:41	7440-62-2	
Zinc	ND	mg/L	0.010	0.0044		1	06/24/22 06:35	06/27/22 22:41	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/25/22 13:45	06/28/22 14:57	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	**80.9**	ug/L	5.00	0.443		5	06/29/22 03:25	06/29/22 19:51	83-32-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 8-I **Lab ID: 20247389008** Collected: 06/22/22 08:40 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthylene	ND	ug/L	5.00	0.461		5	06/29/22 03:25	06/29/22 19:51	208-96-8	
Acetophenone	ND	ug/L	50.0	1.04		5	06/29/22 03:25	06/29/22 19:51	98-86-2	
Aniline	ND	ug/L	50.0	8.25		5	06/29/22 03:25	06/29/22 19:51	62-53-3	
Anthracene	**1.82J**	ug/L	5.00	0.402		5	06/29/22 03:25	06/29/22 19:51	120-12-7	J
Benzo(a)anthracene	ND	ug/L	5.00	0.995		5	06/29/22 03:25	06/29/22 19:51	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	5.00	0.650		5	06/29/22 03:25	06/29/22 19:51	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	5.00	0.600		5	06/29/22 03:25	06/29/22 19:51	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	5.00	0.605		5	06/29/22 03:25	06/29/22 19:51	191-24-2	
Benzo(a)pyrene	ND	ug/L	5.00	0.191		5	06/29/22 03:25	06/29/22 19:51	50-32-8	
Benzyl alcohol	ND	ug/L	50.0	2.82		5	06/29/22 03:25	06/29/22 19:51	100-51-6	
bis(2-Chloroethoxy)methane	ND	ug/L	50.0	0.580		5	06/29/22 03:25	06/29/22 19:51	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	50.0	0.685		5	06/29/22 03:25	06/29/22 19:51	111-44-4	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	50.0	1.05		5	06/29/22 03:25	06/29/22 19:51	108-60-1	
4-Bromophenylphenyl ether	ND	ug/L	50.0	0.439		5	06/29/22 03:25	06/29/22 19:51	101-55-3	
4-Chloroaniline	ND	ug/L	50.0	1.17		5	06/29/22 03:25	06/29/22 19:51	106-47-8	
2-Chloronaphthalene	ND	ug/L	5.00	0.324		5	06/29/22 03:25	06/29/22 19:51	91-58-7	
4-Chlorophenylphenyl ether	ND	ug/L	50.0	0.463		5	06/29/22 03:25	06/29/22 19:51	7005-72-3	
Chrysene	ND	ug/L	5.00	0.650		5	06/29/22 03:25	06/29/22 19:51	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	5.00	0.322		5	06/29/22 03:25	06/29/22 19:51	53-70-3	
Dibenzofuran	ND	ug/L	50.0	0.485		5	06/29/22 03:25	06/29/22 19:51	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	50.0	0.357		5	06/29/22 03:25	06/29/22 19:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	50.0	0.660		5	06/29/22 03:25	06/29/22 19:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	50.0	0.471		5	06/29/22 03:25	06/29/22 19:51	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	50.0	1.06		5	06/29/22 03:25	06/29/22 19:51	91-94-1	
2,4-Dinitrotoluene	ND	ug/L	50.0	0.491		5	06/29/22 03:25	06/29/22 19:51	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	50.0	1.25		5	06/29/22 03:25	06/29/22 19:51	606-20-2	
Fluoranthene	**1.19J**	ug/L	5.00	0.510		5	06/29/22 03:25	06/29/22 19:51	206-44-0	J
Fluorene	**36.1**	ug/L	5.00	0.422		5	06/29/22 03:25	06/29/22 19:51	86-73-7	
Hexachlorobenzene	ND	ug/L	5.00	0.378		5	06/29/22 03:25	06/29/22 19:51	118-74-1	
Hexachloro-1,3-butadiene	ND	ug/L	50.0	0.484		5	06/29/22 03:25	06/29/22 19:51	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	50.0	0.299		5	06/29/22 03:25	06/29/22 19:51	77-47-4	
Hexachloroethane	ND	ug/L	50.0	0.635		5	06/29/22 03:25	06/29/22 19:51	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	5.00	1.40		5	06/29/22 03:25	06/29/22 19:51	193-39-5	
Isophorone	ND	ug/L	50.0	0.715		5	06/29/22 03:25	06/29/22 19:51	78-59-1	
1-Methylnaphthalene	**88.7**	ug/L	5.00	0.395		5	06/29/22 03:25	06/29/22 19:51	90-12-0	
2-Methylnaphthalene	**77.2**	ug/L	5.00	0.585		5	06/29/22 03:25	06/29/22 19:51	91-57-6	
2-Nitroaniline	ND	ug/L	50.0	0.510		5	06/29/22 03:25	06/29/22 19:51	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	0.435		5	06/29/22 03:25	06/29/22 19:51	99-09-2	
4-Nitroaniline	ND	ug/L	50.0	0.455		5	06/29/22 03:25	06/29/22 19:51	100-01-6	
Naphthalene	**1.74J**	ug/L	5.00	0.795		5	06/29/22 03:25	06/29/22 19:51	91-20-3	J
Nitrobenzene	ND	ug/L	50.0	1.48		5	06/29/22 03:25	06/29/22 19:51	98-95-3	
N-Nitrosodimethylamine	ND	ug/L	50.0	4.99		5	06/29/22 03:25	06/29/22 19:51	62-75-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 8-I **Lab ID: 20247389008** Collected: 06/22/22 08:40 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
N-Nitrosodiphenylamine	ND	ug/L	50.0	11.9		5	06/29/22 03:25	06/29/22 19:51	86-30-6	
N-Nitroso-di-n-propylamine	ND	ug/L	50.0	1.31		5	06/29/22 03:25	06/29/22 19:51	621-64-7	
Phenanthrene	**29.1**	ug/L	5.00	0.560		5	06/29/22 03:25	06/29/22 19:51	85-01-8	
Pyridine	ND	ug/L	50.0	3.13		5	06/29/22 03:25	06/29/22 19:51	110-86-1	
Butylbenzylphthalate	ND	ug/L	15.0	3.83		5	06/29/22 03:25	06/29/22 19:51	85-68-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	15.0	4.48		5	06/29/22 03:25	06/29/22 19:51	117-81-7	
Di-n-butylphthalate	ND	ug/L	15.0	2.27		5	06/29/22 03:25	06/29/22 19:51	84-74-2	
Diethylphthalate	ND	ug/L	15.0	1.43		5	06/29/22 03:25	06/29/22 19:51	84-66-2	
Dimethylphthalate	ND	ug/L	15.0	1.30		5	06/29/22 03:25	06/29/22 19:51	131-11-3	
Di-n-octylphthalate	ND	ug/L	15.0	4.66		5	06/29/22 03:25	06/29/22 19:51	117-84-0	
Pyrene	**0.541J**	ug/L	5.00	0.535		5	06/29/22 03:25	06/29/22 19:51	129-00-0	J
1,2,4,5-Tetrachlorobenzene	ND	ug/L	50.0	0.324		5	06/29/22 03:25	06/29/22 19:51	95-94-3	
1,2,4-Trichlorobenzene	ND	ug/L	50.0	0.349		5	06/29/22 03:25	06/29/22 19:51	120-82-1	
4-Chloro-3-methylphenol	ND	ug/L	50.0	0.655		5	06/29/22 03:25	06/29/22 19:51	59-50-7	
2-Chlorophenol	ND	ug/L	50.0	0.665		5	06/29/22 03:25	06/29/22 19:51	95-57-8	
2,4-Dichlorophenol	ND	ug/L	50.0	0.510		5	06/29/22 03:25	06/29/22 19:51	120-83-2	
2,4-Dimethylphenol	ND	ug/L	50.0	0.318		5	06/29/22 03:25	06/29/22 19:51	105-67-9	
4,6-Dinitro-2-methylphenol	ND	ug/L	50.0	5.60		5	06/29/22 03:25	06/29/22 19:51	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	29.7		5	06/29/22 03:25	06/29/22 19:51	51-28-5	
2-Methylphenol(o-Cresol)	ND	ug/L	50.0	0.465		5	06/29/22 03:25	06/29/22 19:51	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	50.0	0.840		5	06/29/22 03:25	06/29/22 19:51		
2-Nitrophenol	ND	ug/L	50.0	0.585		5	06/29/22 03:25	06/29/22 19:51	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	0.715		5	06/29/22 03:25	06/29/22 19:51	100-02-7	
Pentachlorophenol	ND	ug/L	50.0	1.57		5	06/29/22 03:25	06/29/22 19:51	87-86-5	
Phenol	ND	ug/L	50.0	21.7		5	06/29/22 03:25	06/29/22 19:51	108-95-2	
2,3,4,6-Tetrachlorophenol	ND	ug/L	50.0	1.15		5	06/29/22 03:25	06/29/22 19:51	58-90-2	
2,4,5-Trichlorophenol	ND	ug/L	50.0	0.545		5	06/29/22 03:25	06/29/22 19:51	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	50.0	0.500		5	06/29/22 03:25	06/29/22 19:51	88-06-2	
2-Acetylaminofluorene	ND	ug/L	50.0	1.27		5	06/29/22 03:25	07/02/22 17:28	53-96-3	
4-Aminobiphenyl	ND	ug/L	50.0	2.30		5	06/29/22 03:25	07/02/22 17:28	92-67-1	
Aramite	ND	ug/L	250	83.5		5	06/29/22 03:25	07/02/22 17:28	140-57-8	
Chlorobenzilate	ND	ug/L	250	19.2		5	06/29/22 03:25	07/02/22 17:28	510-15-6	
Diallate	ND	ug/L	50.0	2.62		5	06/29/22 03:25	07/02/22 17:28	2303-16-4	
2,6-Dichlorophenol	ND	ug/L	50.0	0.510		5	06/29/22 03:25	07/02/22 17:28	87-65-0	
Dimethoate	ND	ug/L	250	25.3		5	06/29/22 03:25	07/02/22 17:28	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	50.0	18.5		5	06/29/22 03:25	07/02/22 17:28	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	50.0	8.55		5	06/29/22 03:25	07/02/22 17:28	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	50.0	16.9		5	06/29/22 03:25	07/02/22 17:28	119-93-7	
a,a-Dimethylphenylethylamine	ND	ug/L	250	15.7		5	06/29/22 03:25	07/02/22 17:28	122-09-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 8-I **Lab ID: 20247389008** Collected: 06/22/22 08:40 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
1,3-Dinitrobenzene	ND	ug/L	50.0	1.80		5	06/29/22 03:25	07/02/22 17:28	99-65-0	
Diphenylamine	ND	ug/L	50.0	11.9		5	06/29/22 03:25	06/29/22 19:51	122-39-4	
Dinoseb	ND	ug/L	250	40.1		5	06/29/22 03:25	07/02/22 17:28	88-85-7	
Ethyl methanesulfonate	ND	ug/L	50.0	1.63		5	06/29/22 03:25	07/02/22 17:28	62-50-0	
Famphur	ND	ug/L	100	19.6		5	06/29/22 03:25	07/02/22 17:28	52-85-7	
Hexachloropropene	ND	ug/L	250	0.745		5	06/29/22 03:25	07/02/22 17:28	1888-71-7	
Hexachlorophene	ND	ug/L	250	7.20		5	06/29/22 03:25	07/02/22 17:28	70-30-4	
Isodrin	ND	ug/L	50.0	20.5		5	06/29/22 03:25	07/02/22 17:28	465-73-6	
Isosafrole	ND	ug/L	50.0	19.4		5	06/29/22 03:25	07/02/22 17:28	120-58-1	
Kepone	ND	ug/L	100	13.3		5	06/29/22 03:25	07/02/22 17:28	143-50-0	L0
Methapyrilene	ND	ug/L	250	50.0		5	06/29/22 03:25	07/02/22 17:28	91-80-5	
3-Methylcholanthrene	ND	ug/L	50.0	0.820		5	06/29/22 03:25	07/02/22 17:28	56-49-5	
Methyl methanesulfonate	ND	ug/L	250	17.0		5	06/29/22 03:25	07/02/22 17:28	66-27-3	
1,4-Naphthoquinone	ND	ug/L	250	27.8		5	06/29/22 03:25	07/02/22 17:28	130-15-4	L0
1-Naphthalenamine	**9.03J**	ug/L	50.0	1.44		5	06/29/22 03:25	07/02/22 17:28	134-32-7	J
2-Naphthalenamine	ND	ug/L	50.0	22.4		5	06/29/22 03:25	07/02/22 17:28	91-59-8	
5-Nitro-o-toluidine	ND	ug/L	50.0	9.95		5	06/29/22 03:25	07/02/22 17:28	99-55-8	
4-Nitroquinoline-n-oxide	ND	ug/L	50.0	10.2		5	06/29/22 03:25	07/02/22 17:28	56-57-5	
N-Nitrosodiethylamine	ND	ug/L	50.0	17.9		5	06/29/22 03:25	07/02/22 17:28	55-18-5	
N-Nitroso-di-n-butylamine	ND	ug/L	50.0	19.6		5	06/29/22 03:25	07/02/22 17:28	924-16-3	
N-Nitrosomethylethylamine	ND	ug/L	50.0	16.3		5	06/29/22 03:25	07/02/22 17:28	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	50.0	16.3		5	06/29/22 03:25	07/02/22 17:28	59-89-2	
N-Nitrosopiperidine	ND	ug/L	50.0	18.6		5	06/29/22 03:25	07/02/22 17:28	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	50.0	16.9		5	06/29/22 03:25	07/02/22 17:28	930-55-2	
Pentachlorobenzene	ND	ug/L	50.0	20.8		5	06/29/22 03:25	07/02/22 17:28	608-93-5	
Pentachloronitrobenzene	ND	ug/L	50.0	20.8		5	06/29/22 03:25	07/02/22 17:28	82-68-8	
Phenacetin	ND	ug/L	50.0	23.3		5	06/29/22 03:25	07/02/22 17:28	62-44-2	
p-Phenylenediamine	ND	ug/L	34500	1940		5	06/29/22 03:25	07/02/22 17:28	106-50-3	L0
2-Picoline	ND	ug/L	250	34.2		5	06/29/22 03:25	07/02/22 17:28	109-06-8	
Pronamide	ND	ug/L	50.0	21.1		5	06/29/22 03:25	07/02/22 17:28	23950-58-5	
Safrole	ND	ug/L	50.0	18.4		5	06/29/22 03:25	07/02/22 17:28	94-59-7	
Sulfotep (Thiodiphosphoric Ac	ND	ug/L	250	19.9		5	06/29/22 03:25	07/02/22 17:28	3689-24-5	
Thionazin	ND	ug/L	50.0	20.4		5	06/29/22 03:25	07/02/22 17:28	297-97-2	
O-Toluidine	ND	ug/L	50.0	17.7		5	06/29/22 03:25	07/02/22 17:28	95-53-4	
1,3,5-Trinitrobenzene	ND	ug/L	50.0	6.60		5	06/29/22 03:25	07/02/22 17:28	99-35-4	
O,O,O-Triethylphosphorothioate	ND	ug/L	50.0	14.6		5	06/29/22 03:25	07/02/22 17:28	126-68-1	
Surrogates										
2-Fluorophenol (S)	24.3	%	10.0-120			5	06/29/22 03:25	06/29/22 19:51	367-12-4	
Phenol-d5 (S)	17.8	%	10.0-120			5	06/29/22 03:25	06/29/22 19:51	4165-62-2	
Nitrobenzene-d5 (S)	46.2	%	10.0-127			5	06/29/22 03:25	06/29/22 19:51	4165-60-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 8-I **Lab ID: 20247389008** Collected: 06/22/22 08:40 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Surrogates										
2-Fluorobiphenyl (S)	40.8	%	10.0-130			5	06/29/22 03:25	06/29/22 19:51	321-60-8	
2,4,6-Tribromophenol (S)	57.0	%	10.0-155			5	06/29/22 03:25	06/29/22 19:51	118-79-6	
Terphenyl-d14 (S)	57.6	%	10.0-128			5	06/29/22 03:25	06/29/22 19:51	1718-51-0	
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.164J**	ug/L	0.400	0.0447		1	06/28/22 16:28	06/30/22 21:54	123-91-1	J
Surrogates										
Nitrobenzene-d5 (S)	41.4	%	10.0-120			1	06/28/22 16:28	06/30/22 21:54	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/05/22 18:27	07/05/22 18:27	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	07/05/22 18:27	07/05/22 18:27	107-02-8	
Acrylonitrile	ND	ug/L	10.0	0.671		1	07/05/22 18:27	07/05/22 18:27	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	07/05/22 18:27	07/05/22 18:27	107-05-1	
Benzene	**2.37**	ug/L	1.00	0.0941		1	07/05/22 18:27	07/05/22 18:27	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/05/22 18:27	07/05/22 18:27	75-27-4	
Bromoform	ND	ug/L	1.00	0.129		1	07/05/22 18:27	07/05/22 18:27	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	07/05/22 18:27	07/05/22 18:27	74-83-9	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/05/22 18:27	07/05/22 18:27	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	07/05/22 18:27	07/05/22 18:27	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/05/22 18:27	07/05/22 18:27	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140		1	07/05/22 18:27	07/05/22 18:27	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192		1	07/05/22 18:27	07/05/22 18:27	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	07/05/22 18:27	07/05/22 18:27	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	07/05/22 18:27	07/05/22 18:27	74-87-3	
Dibromomethane	ND	ug/L	1.00	0.122		1	07/05/22 18:27	07/05/22 18:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	07/05/22 18:27	07/05/22 18:27	95-50-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	07/05/22 18:27	07/05/22 18:27	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	07/05/22 18:27	07/05/22 18:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/05/22 18:27	07/05/22 18:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	07/05/22 18:27	07/05/22 18:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/05/22 18:27	07/05/22 18:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/05/22 18:27	07/05/22 18:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/05/22 18:27	07/05/22 18:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/05/22 18:27	07/05/22 18:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	07/05/22 18:27	07/05/22 18:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	07/05/22 18:27	07/05/22 18:27	10061-02-6	
Ethylbenzene	**0.640J**	ug/L	1.00	0.173		1	07/05/22 18:27	07/05/22 18:27	100-41-4	J
2-Hexanone	ND	ug/L	10.0	0.787		1	07/05/22 18:27	07/05/22 18:27	591-78-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 8-I **Lab ID: 20247389008** Collected: 06/22/22 08:40 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Iodomethane	ND	ug/L	10.0	6.00		1	07/05/22 18:27	07/05/22 18:27	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	07/05/22 18:27	07/05/22 18:27	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430		1	07/05/22 18:27	07/05/22 18:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	07/05/22 18:27	07/05/22 18:27	108-10-1	
Styrene	ND	ug/L	1.00	0.118		1	07/05/22 18:27	07/05/22 18:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	07/05/22 18:27	07/05/22 18:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	07/05/22 18:27	07/05/22 18:27	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	07/05/22 18:27	07/05/22 18:27	127-18-4	
Toluene	**0.497J**	ug/L	1.00	0.278		1	07/05/22 18:27	07/05/22 18:27	108-88-3	J
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	07/05/22 18:27	07/05/22 18:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	07/05/22 18:27	07/05/22 18:27	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/05/22 18:27	07/05/22 18:27	79-01-6	L0
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	07/05/22 18:27	07/05/22 18:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	07/05/22 18:27	07/05/22 18:27	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	07/05/22 18:27	07/05/22 18:27	108-05-4	
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/05/22 18:27	07/05/22 18:27	75-01-4	
o-Xylene	**0.732J**	ug/L	1.00	0.174		1	07/05/22 18:27	07/05/22 18:27	95-47-6	J
m&p-Xylene	**17.1**	ug/L	2.00	0.430		1	07/05/22 18:27	07/05/22 18:27	179601-23-1	
Xylene (Total)	**17.8**	ug/L	3.00	0.174		1	07/05/22 18:27	07/05/22 18:27	1330-20-7	
Acetonitrile	ND	ug/L	50.0	24.0		1	07/05/22 18:27	07/05/22 18:27	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	07/05/22 18:27	07/05/22 18:27	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	07/05/22 18:27	07/05/22 18:27	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	07/05/22 18:27	07/05/22 18:27	78-83-1	
Methacrylonitrile	ND	ug/L	50.0	14.2		1	07/05/22 18:27	07/05/22 18:27	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	07/05/22 18:27	07/05/22 18:27	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	07/05/22 18:27	07/05/22 18:27	76-01-7	
Propionitrile	ND	ug/L	50.0	16.2		1	07/05/22 18:27	07/05/22 18:27	107-12-0	
Surrogates										
Toluene-d8 (S)	96.9	%	80.0-120			1	07/05/22 18:27	07/05/22 18:27	2037-26-5	
1,2-Dichloroethane-d4 (S)	100	%	70.0-130			1	07/05/22 18:27	07/05/22 18:27	17060-07-0	
4-Bromofluorobenzene (S)	103	%	77.0-126			1	07/05/22 18:27	07/05/22 18:27	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.0040		1		06/29/22 15:00	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	**0.0016J**	mg/L	0.0040	0.0012		1	06/29/22 08:55	06/29/22 17:18	57-12-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 8-I **Lab ID: 20247389008** Collected: 06/22/22 08:40 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 420.4 Rev. 1		Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast								
Phenolics, Total Recoverable	**448**	ug/L	60.0	25.0		1	07/01/22 13:30	07/05/22 16:01	64743-03-9	

Sample: 9-I **Lab ID: 20247389009** Collected: 06/20/22 15:50 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081		Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet								
Aldrin	ND	ug/L	0.0500	0.0198		1	06/27/22 09:58	06/28/22 01:01	309-00-2	G6
Surrogates										
Decachlorobiphenyl (S)	70.5	%	10.0-128			1	06/27/22 09:58	06/28/22 01:01	2051-24-3	
Tetrachloro-m-xylene (S)	78.5	%	10.0-127			1	06/27/22 09:58	06/28/22 01:01	877-09-8	
Chlorinated Herb. (GC) 8151		Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet								
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/27/22 10:05	06/29/22 05:07	93-72-1	
Surrogates										
2,4-DCAA (S)	84.5	%	14.0-158			1	06/27/22 10:05	06/29/22 05:07	19719-28-9	
6020 MET ICPMS		Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans								
Antimony	ND	mg/L	0.0010	0.00063		1	06/24/22 06:35	06/27/22 22:47	7440-36-0	
Arsenic	**0.0031**	mg/L	0.0010	0.00020		1	06/24/22 06:35	06/27/22 22:47	7440-38-2	
Barium	**0.022**	mg/L	0.0010	0.00036		1	06/24/22 06:35	06/27/22 22:47	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00012		1	06/24/22 06:35	06/27/22 22:47	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000080		1	06/24/22 06:35	06/27/22 22:47	7440-43-9	
Chromium	**0.0010**	mg/L	0.0010	0.00062		1	06/24/22 06:35	06/27/22 22:47	7440-47-3	
Cobalt	**0.00044J**	mg/L	0.0010	0.000060		1	06/24/22 06:35	06/27/22 22:47	7440-48-4	
Copper	ND	mg/L	0.0030	0.00083		1	06/24/22 06:35	06/27/22 22:47	7440-50-8	
Lead	ND	mg/L	0.0010	0.000070		1	06/24/22 06:35	06/27/22 22:47	7439-92-1	
Nickel	**0.0011**	mg/L	0.0010	0.00056		1	06/24/22 06:35	06/27/22 22:47	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00037		1	06/24/22 06:35	06/27/22 22:47	7782-49-2	
Silver	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 22:47	7440-22-4	
Thallium	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 22:47	7440-28-0	
Tin	ND	mg/L	0.0060	0.00043		1	06/24/22 06:35	06/27/22 22:47	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.0023		1	06/24/22 06:35	06/27/22 22:47	7440-62-2	
Zinc	ND	mg/L	0.010	0.0044		1	06/24/22 06:35	06/27/22 22:47	7440-66-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 9-I **Lab ID: 20247389009** Collected: 06/20/22 15:50 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/24/22 06:30	06/24/22 13:20	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	**8.24**	ug/L	1.00	0.0886		1	06/25/22 05:08	06/26/22 14:04	83-32-9	
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/25/22 05:08	06/26/22 14:04	208-96-8	
Anthracene	**0.114J**	ug/L	1.00	0.0804		1	06/25/22 05:08	06/26/22 14:04	120-12-7	J
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/25/22 05:08	06/26/22 14:04	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/25/22 05:08	06/26/22 14:04	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/25/22 05:08	06/26/22 14:04	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/25/22 05:08	06/26/22 14:04	191-24-2	
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/25/22 05:08	06/26/22 14:04	50-32-8	
Chrysene	ND	ug/L	1.00	0.130		1	06/25/22 05:08	06/26/22 14:04	218-01-9	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/25/22 05:08	06/26/22 14:04	132-64-9	
Fluoranthene	**0.162J**	ug/L	1.00	0.102		1	06/25/22 05:08	06/26/22 14:04	206-44-0	J
Fluorene	ND	ug/L	1.00	0.0844		1	06/25/22 05:08	06/26/22 14:04	86-73-7	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/25/22 05:08	06/26/22 14:04	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/25/22 05:08	06/26/22 14:04	193-39-5	
1-Methylnaphthalene	**0.163J**	ug/L	1.00	0.0790		1	06/25/22 05:08	06/26/22 14:04	90-12-0	J
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/25/22 05:08	06/26/22 14:04	91-57-6	
Naphthalene	ND	ug/L	1.00	0.159		1	06/25/22 05:08	06/26/22 14:04	91-20-3	
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/25/22 05:08	06/26/22 14:04	86-30-6	
Phenanthrene	**1.97**	ug/L	1.00	0.112		1	06/25/22 05:08	06/26/22 14:04	85-01-8	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/25/22 05:08	06/26/22 14:04	117-81-7	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/25/22 05:08	06/26/22 14:04	117-84-0	
Pyrene	**0.127J**	ug/L	1.00	0.107		1	06/25/22 05:08	06/26/22 14:04	129-00-0	J
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/25/22 05:08	06/26/22 14:04	105-67-9	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/25/22 05:08	06/26/22 14:04		
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/25/22 05:08	06/26/22 14:04	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/25/22 05:08	06/26/22 14:04	108-95-2	
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/25/22 05:08	06/27/22 19:24	134-32-7	
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/25/22 05:08	06/27/22 19:24	91-59-8	
O-Toluidine	ND	ug/L	10.0	3.53		1	06/25/22 05:08	06/27/22 19:24	95-53-4	
Surrogates										
2-Fluorophenol (S)	28.7	%	10.0-120			1	06/25/22 05:08	06/26/22 14:04	367-12-4	
Phenol-d5 (S)	17.6	%	10.0-120			1	06/25/22 05:08	06/26/22 14:04	4165-62-2	
Nitrobenzene-d5 (S)	60.0	%	10.0-127			1	06/25/22 05:08	06/26/22 14:04	4165-60-0	
2-Fluorobiphenyl (S)	58.7	%	10.0-130			1	06/25/22 05:08	06/26/22 14:04	321-60-8	
2,4,6-Tribromophenol (S)	64.7	%	10.0-155			1	06/25/22 05:08	06/26/22 14:04	118-79-6	
Terphenyl-d14 (S)	70.8	%	10.0-128			1	06/25/22 05:08	06/26/22 14:04	1718-51-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 9-I **Lab ID: 20247389009** Collected: 06/20/22 15:50 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.208J**	ug/L	0.400	0.0447		1	06/24/22 10:07	06/25/22 13:53	123-91-1	B,J
Surrogates										
Nitrobenzene-d5 (S)	59.6	%	10.0-120			1	06/24/22 10:07	06/25/22 13:53	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/02/22 15:04	07/02/22 15:04	67-64-1	
Benzene	ND	ug/L	1.00	0.0941		1	07/02/22 15:04	07/02/22 15:04	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/02/22 15:04	07/02/22 15:04	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/02/22 15:04	07/02/22 15:04	75-15-0	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/02/22 15:04	07/02/22 15:04	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/02/22 15:04	07/02/22 15:04	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/02/22 15:04	07/02/22 15:04	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/02/22 15:04	07/02/22 15:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/02/22 15:04	07/02/22 15:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/02/22 15:04	07/02/22 15:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/02/22 15:04	07/02/22 15:04	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/02/22 15:04	07/02/22 15:04	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/02/22 15:04	07/02/22 15:04	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/02/22 15:04	07/02/22 15:04	79-01-6	
Vinyl chloride	**0.826J**	ug/L	1.00	0.234		1	07/02/22 15:04	07/02/22 15:04	75-01-4	J
o-Xylene	ND	ug/L	1.00	0.174		1	07/02/22 15:04	07/02/22 15:04	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/02/22 15:04	07/02/22 15:04	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/02/22 15:04	07/02/22 15:04	1330-20-7	
Surrogates										
Toluene-d8 (S)	108	%	80.0-120			1	07/02/22 15:04	07/02/22 15:04	2037-26-5	
1,2-Dichloroethane-d4 (S)	104	%	70.0-130			1	07/02/22 15:04	07/02/22 15:04	17060-07-0	
4-Bromofluorobenzene (S)	103	%	77.0-126			1	07/02/22 15:04	07/02/22 15:04	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	**0.017J**	mg/L	0.020	0.0040		1		06/26/22 09:20	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	**0.0021J**	mg/L	0.0040	0.0012		1	06/27/22 08:57	06/28/22 13:25	57-12-5	
EPA 420.4 Rev. 1	Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast									
Phenolics, Total Recoverable	**84.6**	ug/L	60.0	25.0		1	06/28/22 10:19	06/30/22 13:41	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 8-S **Lab ID: 20247389010** Collected: 06/21/22 15:00 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
EDB / DBCP 8011	Analytical Method: EPA 8011 Preparation Method: 8011/504.1 Pace National - Mt. Juliet									
1,2-Dibromoethane (EDB)	ND	ug/L	0.0216	0.00579		1.08	06/24/22 12:56	06/24/22 17:21	106-93-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	0.0216	0.00808		1.08	06/24/22 12:56	06/24/22 17:21	96-12-8	
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/27/22 07:33	06/27/22 16:00	309-00-2	
alpha-BHC	ND	ug/L	0.0500	0.0172		1	06/27/22 07:33	06/27/22 16:00	319-84-6	
beta-BHC	ND	ug/L	0.0500	0.0208		1	06/27/22 07:33	06/27/22 16:00	319-85-7	
delta-BHC	ND	ug/L	0.0500	0.0150		1	06/27/22 07:33	06/27/22 16:00	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.0500	0.0209		1	06/27/22 07:33	06/27/22 16:00	58-89-9	
Chlordane (Technical)	ND	ug/L	5.00	0.0198		1	06/27/22 07:33	06/27/22 16:00	57-74-9	
4,4'-DDD	ND	ug/L	0.0500	0.0177		1	06/27/22 07:33	06/27/22 16:00	72-54-8	
4,4'-DDE	ND	ug/L	0.0500	0.0154		1	06/27/22 07:33	06/27/22 16:00	72-55-9	
4,4'-DDT	ND	ug/L	0.0500	0.0198		1	06/27/22 07:33	06/27/22 16:00	50-29-3	
Dieldrin	ND	ug/L	0.0500	0.0162		1	06/27/22 07:33	06/27/22 16:00	60-57-1	
Endosulfan I	ND	ug/L	0.0500	0.0160		1	06/27/22 07:33	06/27/22 16:00	959-98-8	
Endosulfan II	ND	ug/L	0.0500	0.0164		1	06/27/22 07:33	06/27/22 16:00	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.0500	0.0217		1	06/27/22 07:33	06/27/22 16:00	1031-07-8	
Endrin	ND	ug/L	0.0500	0.0161		1	06/27/22 07:33	06/27/22 16:00	72-20-8	
Endrin aldehyde	ND	ug/L	0.0500	0.0237		1	06/27/22 07:33	06/27/22 16:00	7421-93-4	
Heptachlor	ND	ug/L	0.0500	0.0148		1	06/27/22 07:33	06/27/22 16:00	76-44-8	
Heptachlor epoxide	ND	ug/L	0.0500	0.0183		1	06/27/22 07:33	06/27/22 16:00	1024-57-3	
Methoxychlor	ND	ug/L	0.0500	0.0193		1	06/27/22 07:33	06/27/22 16:00	72-43-5	
Toxaphene	ND	ug/L	0.500	0.168		1	06/27/22 07:33	06/27/22 16:00	8001-35-2	
Surrogates										
Decachlorobiphenyl (S)	81.7	%	10.0-128			1	06/27/22 07:33	06/27/22 16:00	2051-24-3	
Tetrachloro-m-xylene (S)	87.3	%	10.0-127			1	06/27/22 07:33	06/27/22 16:00	877-09-8	
OP Pesticides 8141	Analytical Method: EPA 8141 Preparation Method: 3510C Pace National - Mt. Juliet									
Disulfoton	ND	ug/L	1.00	0.227		1	06/28/22 09:17	06/28/22 19:13	298-04-4	
Parathion (Ethyl parathion)	ND	ug/L	1.00	0.454		1	06/28/22 09:17	06/28/22 19:13	56-38-2	
Methyl parathion	ND	ug/L	1.00	0.383		1	06/28/22 09:17	06/28/22 19:13	298-00-0	
Phorate	ND	ug/L	1.00	0.276		1	06/28/22 09:17	06/28/22 19:13	298-02-2	
Sulfotep (Thiodiphosphoric Ac	ND	ug/L	1.00	0.181		1	06/28/22 09:17	06/28/22 19:13	3689-24-5	
Surrogates										
Triphenylphosphate (S)	71.0	%	42.0-129			1	06/28/22 09:17	06/28/22 19:13	115-86-6	
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4-D	ND	ug/L	2.00	0.547		1	06/28/22 18:00	06/30/22 19:27	94-75-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 8-S **Lab ID: 20247389010** Collected: 06/21/22 15:00 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4,5-T	ND	ug/L	2.00	0.258		1	06/28/22 18:00	06/30/22 19:27	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/28/22 18:00	06/30/22 19:27	93-72-1	
Surrogates										
2,4-DCAA (S)	193	%	14.0-158			1	06/28/22 18:00	06/30/22 19:27	19719-28-9	ST
EPA 8082A	Analytical Method: EPA 8082 Preparation Method: EPA 3510C Pace Analytical Gulf Coast									
PCB-1016 (Aroclor 1016)	ND	ug/L	0.500	0.200		1	06/29/22 08:30	06/29/22 19:07	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	1.00	0.400		1	06/29/22 08:30	06/29/22 19:07	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.500	0.200		1	06/29/22 08:30	06/29/22 19:07	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.500	0.200		1	06/29/22 08:30	06/29/22 19:07	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.500	0.200		1	06/29/22 08:30	06/29/22 19:07	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.500	0.200		1	06/29/22 08:30	06/29/22 19:07	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.500	0.200		1	06/29/22 08:30	06/29/22 19:07	11096-82-5	
Surrogates										
Decachlorobiphenyl (S)	73	%	30-139			1	06/29/22 08:30	06/29/22 19:07	2051-24-3	
Tetrachloro-m-xylene (S)	71	%	48-137			1	06/29/22 08:30	06/29/22 19:07	877-09-8	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00063		1	06/24/22 06:35	06/27/22 22:53	7440-36-0	
Arsenic	**0.00095J**	mg/L	0.0010	0.00020		1	06/24/22 06:35	06/27/22 22:53	7440-38-2	
Barium	**0.059**	mg/L	0.0010	0.00036		1	06/24/22 06:35	06/27/22 22:53	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00012		1	06/24/22 06:35	06/27/22 22:53	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000080		1	06/24/22 06:35	06/27/22 22:53	7440-43-9	
Chromium	ND	mg/L	0.0010	0.00062		1	06/24/22 06:35	06/27/22 22:53	7440-47-3	
Cobalt	**0.00027J**	mg/L	0.0010	0.000060		1	06/24/22 06:35	06/27/22 22:53	7440-48-4	
Copper	ND	mg/L	0.0030	0.00083		1	06/24/22 06:35	06/27/22 22:53	7440-50-8	
Lead	ND	mg/L	0.0010	0.000070		1	06/24/22 06:35	06/27/22 22:53	7439-92-1	
Nickel	ND	mg/L	0.0010	0.00056		1	06/24/22 06:35	06/27/22 22:53	7440-02-0	
Selenium	**0.0023**	mg/L	0.0010	0.00037		1	06/24/22 06:35	06/27/22 22:53	7782-49-2	
Silver	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 22:53	7440-22-4	
Thallium	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 22:53	7440-28-0	
Tin	ND	mg/L	0.0060	0.00043		1	06/24/22 06:35	06/27/22 22:53	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.0023		1	06/24/22 06:35	06/27/22 22:53	7440-62-2	
Zinc	ND	mg/L	0.010	0.0044		1	06/24/22 06:35	06/27/22 22:53	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/25/22 13:45	06/28/22 14:59	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	ND	ug/L	1.00	0.0886		1	06/28/22 03:27	06/28/22 21:37	83-32-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 8-S **Lab ID: 20247389010** Collected: 06/21/22 15:00 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/28/22 03:27	06/28/22 21:37	208-96-8	
Acetophenone	ND	ug/L	10.0	0.208		1	06/28/22 03:27	06/28/22 21:37	98-86-2	
Aniline	ND	ug/L	10.0	1.65		1	06/28/22 03:27	06/28/22 21:37	62-53-3	
Anthracene	**0.243J**	ug/L	1.00	0.0804		1	06/28/22 03:27	06/28/22 21:37	120-12-7	J
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/28/22 03:27	06/28/22 21:37	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/28/22 03:27	06/28/22 21:37	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/28/22 03:27	06/28/22 21:37	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/28/22 03:27	06/28/22 21:37	191-24-2	
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/28/22 03:27	06/28/22 21:37	50-32-8	
Benzyl alcohol	ND	ug/L	10.0	0.563		1	06/28/22 03:27	06/28/22 21:37	100-51-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.116		1	06/28/22 03:27	06/28/22 21:37	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	0.137		1	06/28/22 03:27	06/28/22 21:37	111-44-4	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	0.210		1	06/28/22 03:27	06/28/22 21:37	108-60-1	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.0877		1	06/28/22 03:27	06/28/22 21:37	101-55-3	
4-Chloroaniline	ND	ug/L	10.0	0.234		1	06/28/22 03:27	06/28/22 21:37	106-47-8	
2-Chloronaphthalene	ND	ug/L	1.00	0.0648		1	06/28/22 03:27	06/28/22 21:37	91-58-7	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.0926		1	06/28/22 03:27	06/28/22 21:37	7005-72-3	
Chrysene	ND	ug/L	1.00	0.130		1	06/28/22 03:27	06/28/22 21:37	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.00	0.0644		1	06/28/22 03:27	06/28/22 21:37	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/28/22 03:27	06/28/22 21:37	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.0713		1	06/28/22 03:27	06/28/22 21:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.132		1	06/28/22 03:27	06/28/22 21:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.0942		1	06/28/22 03:27	06/28/22 21:37	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10.0	0.212		1	06/28/22 03:27	06/28/22 21:37	91-94-1	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.0983		1	06/28/22 03:27	06/28/22 21:37	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.250		1	06/28/22 03:27	06/28/22 21:37	606-20-2	
Fluoranthene	ND	ug/L	1.00	0.102		1	06/28/22 03:27	06/28/22 21:37	206-44-0	
Fluorene	ND	ug/L	1.00	0.0844		1	06/28/22 03:27	06/28/22 21:37	86-73-7	
Hexachlorobenzene	ND	ug/L	1.00	0.0755		1	06/28/22 03:27	06/28/22 21:37	118-74-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.0968		1	06/28/22 03:27	06/28/22 21:37	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.0598		1	06/28/22 03:27	06/28/22 21:37	77-47-4	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/28/22 03:27	06/28/22 21:37	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/28/22 03:27	06/28/22 21:37	193-39-5	
Isophorone	ND	ug/L	10.0	0.143		1	06/28/22 03:27	06/28/22 21:37	78-59-1	
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/28/22 03:27	06/28/22 21:37	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/28/22 03:27	06/28/22 21:37	91-57-6	
2-Nitroaniline	ND	ug/L	10.0	0.102		1	06/28/22 03:27	06/28/22 21:37	88-74-4	
3-Nitroaniline	ND	ug/L	10.0	0.0869		1	06/28/22 03:27	06/28/22 21:37	99-09-2	
4-Nitroaniline	ND	ug/L	10.0	0.0910		1	06/28/22 03:27	06/28/22 21:37	100-01-6	
Naphthalene	ND	ug/L	1.00	0.159		1	06/28/22 03:27	06/28/22 21:37	91-20-3	
Nitrobenzene	ND	ug/L	10.0	0.297		1	06/28/22 03:27	06/28/22 21:37	98-95-3	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.998		1	06/28/22 03:27	06/28/22 21:37	62-75-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 8-S **Lab ID: 20247389010** Collected: 06/21/22 15:00 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/28/22 03:27	06/28/22 21:37	86-30-6	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.261		1	06/28/22 03:27	06/28/22 21:37	621-64-7	
Phenanthrene	ND	ug/L	1.00	0.112		1	06/28/22 03:27	06/28/22 21:37	85-01-8	
Pyridine	ND	ug/L	10.0	0.627		1	06/28/22 03:27	06/28/22 21:37	110-86-1	
Butylbenzylphthalate	ND	ug/L	3.00	0.765		1	06/28/22 03:27	06/28/22 21:37	85-68-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/28/22 03:27	06/28/22 21:37	117-81-7	
Di-n-butylphthalate	ND	ug/L	3.00	0.453		1	06/28/22 03:27	06/28/22 21:37	84-74-2	
Diethylphthalate	ND	ug/L	3.00	0.287		1	06/28/22 03:27	06/28/22 21:37	84-66-2	
Dimethylphthalate	ND	ug/L	3.00	0.260		1	06/28/22 03:27	06/28/22 21:37	131-11-3	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/28/22 03:27	06/28/22 21:37	117-84-0	
Pyrene	ND	ug/L	1.00	0.107		1	06/28/22 03:27	06/28/22 21:37	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	0.0647		1	06/28/22 03:27	06/28/22 21:37	95-94-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.0698		1	06/28/22 03:27	06/28/22 21:37	120-82-1	
4-Chloro-3-methylphenol	ND	ug/L	10.0	0.131		1	06/28/22 03:27	06/28/22 21:37	59-50-7	
2-Chlorophenol	ND	ug/L	10.0	0.133		1	06/28/22 03:27	06/28/22 21:37	95-57-8	
2,4-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/28/22 03:27	06/28/22 21:37	120-83-2	
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/28/22 03:27	06/28/22 21:37	105-67-9	
4,6-Dinitro-2-methylphenol	ND	ug/L	10.0	1.12		1	06/28/22 03:27	06/28/22 21:37	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10.0	5.93		1	06/28/22 03:27	06/28/22 21:37	51-28-5	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	0.0929		1	06/28/22 03:27	06/28/22 21:37	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/28/22 03:27	06/28/22 21:37		
2-Nitrophenol	ND	ug/L	10.0	0.117		1	06/28/22 03:27	06/28/22 21:37	88-75-5	
4-Nitrophenol	ND	ug/L	10.0	0.143		1	06/28/22 03:27	06/28/22 21:37	100-02-7	
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/28/22 03:27	06/28/22 21:37	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/28/22 03:27	06/28/22 21:37	108-95-2	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	0.231		1	06/28/22 03:27	06/28/22 21:37	58-90-2	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.109		1	06/28/22 03:27	06/28/22 21:37	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	0.100		1	06/28/22 03:27	06/28/22 21:37	88-06-2	
2-Acetylaminofluorene	ND	ug/L	10.0	0.253		1	06/28/22 03:27	07/02/22 12:56	53-96-3	
4-Aminobiphenyl	ND	ug/L	10.0	0.461		1	06/28/22 03:27	07/02/22 12:56	92-67-1	
Aramite	ND	ug/L	50.0	16.7		1	06/28/22 03:27	07/02/22 12:56	140-57-8	
Chlorobenzilate	ND	ug/L	50.0	3.84		1	06/28/22 03:27	07/02/22 12:56	510-15-6	
Diallate	ND	ug/L	10.0	0.524		1	06/28/22 03:27	07/02/22 12:56	2303-16-4	
2,6-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/28/22 03:27	07/02/22 12:56	87-65-0	
Dimethoate	ND	ug/L	50.0	5.05		1	06/28/22 03:27	07/02/22 12:56	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	10.0	3.69		1	06/28/22 03:27	07/02/22 12:56	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	1.71		1	06/28/22 03:27	07/02/22 12:56	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.0	3.39		1	06/28/22 03:27	07/02/22 12:56	119-93-7	
a,a-Dimethylphenylethylamine	ND	ug/L	50.0	3.13		1	06/28/22 03:27	07/02/22 12:56	122-09-8	L0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 8-S **Lab ID: 20247389010** Collected: 06/21/22 15:00 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
1,3-Dinitrobenzene	ND	ug/L	10.0	0.359		1	06/28/22 03:27	07/02/22 12:56	99-65-0	
Diphenylamine	ND	ug/L	10.0	2.37		1	06/28/22 03:27	06/28/22 21:37	122-39-4	
Dinoseb	ND	ug/L	50.0	8.01		1	06/28/22 03:27	07/02/22 12:56	88-85-7	
Ethyl methanesulfonate	ND	ug/L	10.0	0.326		1	06/28/22 03:27	07/02/22 12:56	62-50-0	
Famphur	ND	ug/L	20.0	3.92		1	06/28/22 03:27	07/02/22 12:56	52-85-7	
Hexachloropropene	ND	ug/L	50.0	0.149		1	06/28/22 03:27	07/02/22 12:56	1888-71-7	
Hexachlorophene	ND	ug/L	50.0	1.44		1	06/28/22 03:27	07/02/22 12:56	70-30-4	
Isodrin	ND	ug/L	10.0	4.11		1	06/28/22 03:27	07/02/22 12:56	465-73-6	
Isosafrole	ND	ug/L	10.0	3.88		1	06/28/22 03:27	07/02/22 12:56	120-58-1	
Kepone	ND	ug/L	20.0	2.66		1	06/28/22 03:27	07/02/22 12:56	143-50-0	L0
Methapyrilene	ND	ug/L	50.0	10.0		1	06/28/22 03:27	07/02/22 12:56	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.0	0.164		1	06/28/22 03:27	07/02/22 12:56	56-49-5	
Methyl methanesulfonate	ND	ug/L	50.0	3.40		1	06/28/22 03:27	07/02/22 12:56	66-27-3	
1,4-Naphthoquinone	ND	ug/L	50.0	5.56		1	06/28/22 03:27	07/02/22 12:56	130-15-4	L0
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/28/22 03:27	07/02/22 12:56	134-32-7	
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/28/22 03:27	07/02/22 12:56	91-59-8	
5-Nitro-o-toluidine	ND	ug/L	10.0	1.99		1	06/28/22 03:27	07/02/22 12:56	99-55-8	
4-Nitroquinoline-n-oxide	ND	ug/L	10.0	2.03		1	06/28/22 03:27	07/02/22 12:56	56-57-5	
N-Nitrosodiethylamine	ND	ug/L	10.0	3.57		1	06/28/22 03:27	07/02/22 12:56	55-18-5	
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	3.91		1	06/28/22 03:27	07/02/22 12:56	924-16-3	
N-Nitrosomethylethylamine	ND	ug/L	10.0	3.25		1	06/28/22 03:27	07/02/22 12:56	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	10.0	3.25		1	06/28/22 03:27	07/02/22 12:56	59-89-2	
N-Nitrosopiperidine	ND	ug/L	10.0	3.72		1	06/28/22 03:27	07/02/22 12:56	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.0	3.39		1	06/28/22 03:27	07/02/22 12:56	930-55-2	
Pentachlorobenzene	ND	ug/L	10.0	4.15		1	06/28/22 03:27	07/02/22 12:56	608-93-5	
Pentachloronitrobenzene	ND	ug/L	10.0	4.15		1	06/28/22 03:27	07/02/22 12:56	82-68-8	
Phenacetin	ND	ug/L	10.0	4.66		1	06/28/22 03:27	07/02/22 12:56	62-44-2	
p-Phenylenediamine	ND	ug/L	6900	387		1	06/28/22 03:27	07/02/22 12:56	106-50-3	L0
2-Picoline	ND	ug/L	50.0	6.83		1	06/28/22 03:27	07/02/22 12:56	109-06-8	
Pronamide	ND	ug/L	10.0	4.21		1	06/28/22 03:27	07/02/22 12:56	23950-58-5	
Safrole	ND	ug/L	10.0	3.68		1	06/28/22 03:27	07/02/22 12:56	94-59-7	
Sulfotep (Thiodiphosphoric Ac	ND	ug/L	50.0	3.99		1	06/28/22 03:27	07/02/22 12:56	3689-24-5	
Thionazin	ND	ug/L	10.0	4.07		1	06/28/22 03:27	07/02/22 12:56	297-97-2	
O-Toluidine	**4.12J**	ug/L	10.0	3.53		1	06/28/22 03:27	07/02/22 12:56	95-53-4	J
1,3,5-Trinitrobenzene	ND	ug/L	10.0	1.32		1	06/28/22 03:27	07/02/22 12:56	99-35-4	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	2.93		1	06/28/22 03:27	07/02/22 12:56	126-68-1	
Surrogates										
2-Fluorophenol (S)	27.1	%	10.0-120			1	06/28/22 03:27	06/28/22 21:37	367-12-4	
Phenol-d5 (S)	19.6	%	10.0-120			1	06/28/22 03:27	06/28/22 21:37	4165-62-2	
Nitrobenzene-d5 (S)	47.7	%	10.0-127			1	06/28/22 03:27	06/28/22 21:37	4165-60-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 8-S **Lab ID: 20247389010** Collected: 06/21/22 15:00 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Surrogates										
2-Fluorobiphenyl (S)	46.7	%	10.0-130			1	06/28/22 03:27	06/28/22 21:37	321-60-8	
2,4,6-Tribromophenol (S)	66.0	%	10.0-155			1	06/28/22 03:27	06/28/22 21:37	118-79-6	
Terphenyl-d14 (S)	72.6	%	10.0-128			1	06/28/22 03:27	06/28/22 21:37	1718-51-0	
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.101J**	ug/L	0.400	0.0447		1	06/27/22 05:43	06/27/22 18:51	123-91-1	B,J
Surrogates										
Nitrobenzene-d5 (S)	63.1	%	10.0-120			1	06/27/22 05:43	06/27/22 18:51	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/02/22 13:38	07/02/22 13:38	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	07/02/22 13:38	07/02/22 13:38	107-02-8	
Acrylonitrile	ND	ug/L	10.0	0.671		1	07/02/22 13:38	07/02/22 13:38	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	07/02/22 13:38	07/02/22 13:38	107-05-1	
Benzene	ND	ug/L	1.00	0.0941		1	07/02/22 13:38	07/02/22 13:38	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/02/22 13:38	07/02/22 13:38	75-27-4	
Bromoform	ND	ug/L	1.00	0.129		1	07/02/22 13:38	07/02/22 13:38	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	07/02/22 13:38	07/02/22 13:38	74-83-9	
Carbon disulfide	**1.85**	ug/L	1.00	0.0962		1	07/02/22 13:38	07/02/22 13:38	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	07/02/22 13:38	07/02/22 13:38	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/02/22 13:38	07/02/22 13:38	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140		1	07/02/22 13:38	07/02/22 13:38	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192		1	07/02/22 13:38	07/02/22 13:38	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	07/02/22 13:38	07/02/22 13:38	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	07/02/22 13:38	07/02/22 13:38	74-87-3	
Dibromomethane	ND	ug/L	1.00	0.122		1	07/02/22 13:38	07/02/22 13:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	07/02/22 13:38	07/02/22 13:38	95-50-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	07/02/22 13:38	07/02/22 13:38	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	07/02/22 13:38	07/02/22 13:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/02/22 13:38	07/02/22 13:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	07/02/22 13:38	07/02/22 13:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/02/22 13:38	07/02/22 13:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/02/22 13:38	07/02/22 13:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/02/22 13:38	07/02/22 13:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/02/22 13:38	07/02/22 13:38	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	07/02/22 13:38	07/02/22 13:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	07/02/22 13:38	07/02/22 13:38	10061-02-6	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/02/22 13:38	07/02/22 13:38	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.787		1	07/02/22 13:38	07/02/22 13:38	591-78-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 8-S **Lab ID: 20247389010** Collected: 06/21/22 15:00 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Iodomethane	ND	ug/L	10.0	6.00		1	07/02/22 13:38	07/02/22 13:38	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	07/02/22 13:38	07/02/22 13:38	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430		1	07/02/22 13:38	07/02/22 13:38	75-09-2	L0
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	07/02/22 13:38	07/02/22 13:38	108-10-1	
Styrene	ND	ug/L	1.00	0.118		1	07/02/22 13:38	07/02/22 13:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	07/02/22 13:38	07/02/22 13:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	07/02/22 13:38	07/02/22 13:38	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	07/02/22 13:38	07/02/22 13:38	127-18-4	
Toluene	ND	ug/L	1.00	0.278		1	07/02/22 13:38	07/02/22 13:38	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	07/02/22 13:38	07/02/22 13:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	07/02/22 13:38	07/02/22 13:38	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/02/22 13:38	07/02/22 13:38	79-01-6	L0
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	07/02/22 13:38	07/02/22 13:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	07/02/22 13:38	07/02/22 13:38	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	07/02/22 13:38	07/02/22 13:38	108-05-4	
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/02/22 13:38	07/02/22 13:38	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/02/22 13:38	07/02/22 13:38	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/02/22 13:38	07/02/22 13:38	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/02/22 13:38	07/02/22 13:38	1330-20-7	
Acetonitrile	ND	ug/L	50.0	24.0		1	07/02/22 13:38	07/02/22 13:38	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	07/02/22 13:38	07/02/22 13:38	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	07/02/22 13:38	07/02/22 13:38	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	07/02/22 13:38	07/02/22 13:38	78-83-1	
Methacrylonitrile	ND	ug/L	50.0	14.2		1	07/02/22 13:38	07/02/22 13:38	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	07/02/22 13:38	07/02/22 13:38	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	07/02/22 13:38	07/02/22 13:38	76-01-7	L0
Propionitrile	ND	ug/L	50.0	16.2		1	07/02/22 13:38	07/02/22 13:38	107-12-0	
Surrogates										
Toluene-d8 (S)	99.1	%	80.0-120			1	07/02/22 13:38	07/02/22 13:38	2037-26-5	
1,2-Dichloroethane-d4 (S)	105	%	70.0-130			1	07/02/22 13:38	07/02/22 13:38	17060-07-0	
4-Bromofluorobenzene (S)	102	%	77.0-126			1	07/02/22 13:38	07/02/22 13:38	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.0040		1		06/26/22 11:19	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	**0.0012J**	mg/L	0.0040	0.0012		1	06/29/22 08:55	06/29/22 17:21	57-12-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 8-S **Lab ID: 20247389010** Collected: 06/21/22 15:00 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 420.4 Rev. 1		Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast								
Phenolics, Total Recoverable	ND	ug/L	60.0	25.0		1	07/01/22 13:30	07/05/22 16:03	64743-03-9	

Sample: 15-D **Lab ID: 20247389011** Collected: 06/20/22 16:20 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081		Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet								
Aldrin	ND	ug/L	0.0500	0.0198		1	06/27/22 09:58	06/28/22 01:40	309-00-2	G6
Surrogates										
Decachlorobiphenyl (S)	81.4	%	10.0-128			1	06/27/22 09:58	06/28/22 01:40	2051-24-3	
Tetrachloro-m-xylene (S)	70.5	%	10.0-127			1	06/27/22 09:58	06/28/22 01:40	877-09-8	
Chlorinated Herb. (GC) 8151		Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet								
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/27/22 10:05	06/29/22 05:22	93-72-1	
Surrogates										
2,4-DCAA (S)	237	%	14.0-158			1	06/27/22 10:05	06/29/22 05:22	19719-28-9	ST
6020 MET ICPMS		Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans								
Antimony	**0.0014**	mg/L	0.0010	0.00063		1	06/24/22 06:35	06/27/22 22:58	7440-36-0	
Arsenic	**0.0059**	mg/L	0.0010	0.00020		1	06/24/22 06:35	06/27/22 22:58	7440-38-2	
Barium	**0.011**	mg/L	0.0010	0.00036		1	06/24/22 06:35	06/27/22 22:58	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00012		1	06/24/22 06:35	06/27/22 22:58	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000080		1	06/24/22 06:35	06/27/22 22:58	7440-43-9	
Chromium	**0.0012**	mg/L	0.0010	0.00062		1	06/24/22 06:35	06/27/22 22:58	7440-47-3	
Cobalt	**0.00012J**	mg/L	0.0010	0.000060		1	06/24/22 06:35	06/27/22 22:58	7440-48-4	
Copper	**0.0012J**	mg/L	0.0030	0.00083		1	06/24/22 06:35	06/27/22 22:58	7440-50-8	
Lead	ND	mg/L	0.0010	0.000070		1	06/24/22 06:35	06/27/22 22:58	7439-92-1	
Nickel	**0.0032**	mg/L	0.0010	0.00056		1	06/24/22 06:35	06/27/22 22:58	7440-02-0	
Selenium	**0.0010**	mg/L	0.0010	0.00037		1	06/24/22 06:35	06/27/22 22:58	7782-49-2	
Silver	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 22:58	7440-22-4	
Thallium	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 22:58	7440-28-0	
Tin	ND	mg/L	0.0060	0.00043		1	06/24/22 06:35	06/27/22 22:58	7440-31-5	
Vanadium	**0.018**	mg/L	0.0050	0.0023		1	06/24/22 06:35	06/27/22 22:58	7440-62-2	
Zinc	ND	mg/L	0.010	0.0044		1	06/24/22 06:35	06/27/22 22:58	7440-66-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 15-D **Lab ID: 20247389011** Collected: 06/20/22 16:20 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/24/22 06:30	06/24/22 13:22	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	**4.74**	ug/L	1.00	0.0886		1	06/25/22 05:08	06/26/22 14:26	83-32-9	
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/25/22 05:08	06/26/22 14:26	208-96-8	
Anthracene	ND	ug/L	1.00	0.0804		1	06/25/22 05:08	06/26/22 14:26	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/25/22 05:08	06/26/22 14:26	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/25/22 05:08	06/26/22 14:26	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/25/22 05:08	06/26/22 14:26	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/25/22 05:08	06/26/22 14:26	191-24-2	
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/25/22 05:08	06/26/22 14:26	50-32-8	
Chrysene	ND	ug/L	1.00	0.130		1	06/25/22 05:08	06/26/22 14:26	218-01-9	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/25/22 05:08	06/26/22 14:26	132-64-9	
Fluoranthene	ND	ug/L	1.00	0.102		1	06/25/22 05:08	06/26/22 14:26	206-44-0	
Fluorene	**0.347J**	ug/L	1.00	0.0844		1	06/25/22 05:08	06/26/22 14:26	86-73-7	J
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/25/22 05:08	06/26/22 14:26	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/25/22 05:08	06/26/22 14:26	193-39-5	
1-Methylnaphthalene	**2.51**	ug/L	1.00	0.0790		1	06/25/22 05:08	06/26/22 14:26	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/25/22 05:08	06/26/22 14:26	91-57-6	
Naphthalene	**0.161J**	ug/L	1.00	0.159		1	06/25/22 05:08	06/26/22 14:26	91-20-3	J
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/25/22 05:08	06/26/22 14:26	86-30-6	
Phenanthrene	**0.439J**	ug/L	1.00	0.112		1	06/25/22 05:08	06/26/22 14:26	85-01-8	J
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/25/22 05:08	06/26/22 14:26	117-81-7	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/25/22 05:08	06/26/22 14:26	117-84-0	
Pyrene	ND	ug/L	1.00	0.107		1	06/25/22 05:08	06/26/22 14:26	129-00-0	
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/25/22 05:08	06/26/22 14:26	105-67-9	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/25/22 05:08	06/26/22 14:26		
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/25/22 05:08	06/26/22 14:26	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/25/22 05:08	06/26/22 14:26	108-95-2	
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/25/22 05:08	06/27/22 19:45	134-32-7	
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/25/22 05:08	06/27/22 19:45	91-59-8	
O-Toluidine	ND	ug/L	10.0	3.53		1	06/25/22 05:08	06/27/22 19:45	95-53-4	
Surrogates										
2-Fluorophenol (S)	30.1	%	10.0-120			1	06/25/22 05:08	06/26/22 14:26	367-12-4	
Phenol-d5 (S)	20.2	%	10.0-120			1	06/25/22 05:08	06/26/22 14:26	4165-62-2	
Nitrobenzene-d5 (S)	66.8	%	10.0-127			1	06/25/22 05:08	06/26/22 14:26	4165-60-0	
2-Fluorobiphenyl (S)	61.0	%	10.0-130			1	06/25/22 05:08	06/26/22 14:26	321-60-8	
2,4,6-Tribromophenol (S)	53.0	%	10.0-155			1	06/25/22 05:08	06/26/22 14:26	118-79-6	
Terphenyl-d14 (S)	61.6	%	10.0-128			1	06/25/22 05:08	06/26/22 14:26	1718-51-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 15-D **Lab ID: 20247389011** Collected: 06/20/22 16:20 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	ND	ug/L	0.400	0.0447		1	06/24/22 10:07	06/25/22 14:12	123-91-1	
Surrogates										
Nitrobenzene-d5 (S)	46.9	%	10.0-120			1	06/24/22 10:07	06/25/22 14:12	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/02/22 15:26	07/02/22 15:26	67-64-1	
Benzene	ND	ug/L	1.00	0.0941		1	07/02/22 15:26	07/02/22 15:26	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/02/22 15:26	07/02/22 15:26	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/02/22 15:26	07/02/22 15:26	75-15-0	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/02/22 15:26	07/02/22 15:26	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/02/22 15:26	07/02/22 15:26	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/02/22 15:26	07/02/22 15:26	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/02/22 15:26	07/02/22 15:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/02/22 15:26	07/02/22 15:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/02/22 15:26	07/02/22 15:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/02/22 15:26	07/02/22 15:26	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/02/22 15:26	07/02/22 15:26	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/02/22 15:26	07/02/22 15:26	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/02/22 15:26	07/02/22 15:26	79-01-6	
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/02/22 15:26	07/02/22 15:26	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/02/22 15:26	07/02/22 15:26	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/02/22 15:26	07/02/22 15:26	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/02/22 15:26	07/02/22 15:26	1330-20-7	
Surrogates										
Toluene-d8 (S)	108	%	80.0-120			1	07/02/22 15:26	07/02/22 15:26	2037-26-5	
1,2-Dichloroethane-d4 (S)	105	%	70.0-130			1	07/02/22 15:26	07/02/22 15:26	17060-07-0	
4-Bromofluorobenzene (S)	100	%	77.0-126			1	07/02/22 15:26	07/02/22 15:26	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	**0.0045J**	mg/L	0.020	0.0040		1		06/26/22 09:21	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	ND	mg/L	0.0040	0.0012		1	06/27/22 08:57	06/28/22 13:27	57-12-5	
EPA 420.4 Rev. 1	Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast									
Phenolics, Total Recoverable	**32.2J**	ug/L	60.0	25.0		1	06/28/22 10:19	06/30/22 13:42	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 15-I **Lab ID: 20247389012** Collected: 06/21/22 16:30 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/27/22 07:33	06/27/22 16:10	309-00-2	
Surrogates										
Decachlorobiphenyl (S)	72.7	%	10.0-128			1	06/27/22 07:33	06/27/22 16:10	2051-24-3	
Tetrachloro-m-xylene (S)	86.6	%	10.0-127			1	06/27/22 07:33	06/27/22 16:10	877-09-8	
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/28/22 18:00	06/30/22 19:42	93-72-1	
Surrogates										
2,4-DCAA (S)	73.7	%	14.0-158			1	06/28/22 18:00	06/30/22 19:42	19719-28-9	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00063		1	06/24/22 06:35	06/27/22 23:04	7440-36-0	
Arsenic	**0.0042**	mg/L	0.0010	0.00020		1	06/24/22 06:35	06/27/22 23:04	7440-38-2	
Barium	**0.072**	mg/L	0.0010	0.00036		1	06/24/22 06:35	06/27/22 23:04	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00012		1	06/24/22 06:35	06/27/22 23:04	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000080		1	06/24/22 06:35	06/27/22 23:04	7440-43-9	
Chromium	ND	mg/L	0.0010	0.00062		1	06/24/22 06:35	06/27/22 23:04	7440-47-3	
Cobalt	**0.0011**	mg/L	0.0010	0.000060		1	06/24/22 06:35	06/27/22 23:04	7440-48-4	
Copper	ND	mg/L	0.0030	0.00083		1	06/24/22 06:35	06/27/22 23:04	7440-50-8	
Lead	ND	mg/L	0.0010	0.000070		1	06/24/22 06:35	06/27/22 23:04	7439-92-1	
Nickel	ND	mg/L	0.0010	0.00056		1	06/24/22 06:35	06/27/22 23:04	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00037		1	06/24/22 06:35	06/27/22 23:04	7782-49-2	
Silver	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 23:04	7440-22-4	
Thallium	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 23:04	7440-28-0	
Tin	ND	mg/L	0.0060	0.00043		1	06/24/22 06:35	06/27/22 23:04	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.0023		1	06/24/22 06:35	06/27/22 23:04	7440-62-2	
Zinc	ND	mg/L	0.010	0.0044		1	06/24/22 06:35	06/27/22 23:04	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/25/22 13:45	06/28/22 15:01	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	**0.334J**	ug/L	1.00	0.0886		1	06/28/22 03:27	06/29/22 00:27	83-32-9	G6,J
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/28/22 03:27	06/29/22 00:27	208-96-8	G6
Anthracene	ND	ug/L	1.00	0.0804		1	06/28/22 03:27	06/29/22 00:27	120-12-7	G6
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/28/22 03:27	06/29/22 00:27	56-55-3	G6
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/28/22 03:27	06/29/22 00:27	205-99-2	G6
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/28/22 03:27	06/29/22 00:27	207-08-9	G6
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/28/22 03:27	06/29/22 00:27	191-24-2	G6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 15-I **Lab ID: 20247389012** Collected: 06/21/22 16:30 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/28/22 03:27	06/29/22 00:27	50-32-8	G6
Chrysene	ND	ug/L	1.00	0.130		1	06/28/22 03:27	06/29/22 00:27	218-01-9	G6
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/28/22 03:27	06/29/22 00:27	132-64-9	G6
Fluoranthene	ND	ug/L	1.00	0.102		1	06/28/22 03:27	06/29/22 00:27	206-44-0	G6
Fluorene	**0.139J**	ug/L	1.00	0.0844		1	06/28/22 03:27	06/29/22 00:27	86-73-7	G6,J
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/28/22 03:27	06/29/22 00:27	67-72-1	G6
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/28/22 03:27	06/29/22 00:27	193-39-5	G6
1-Methylnaphthalene	**0.0963J**	ug/L	1.00	0.0790		1	06/28/22 03:27	06/29/22 00:27	90-12-0	G6,J
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/28/22 03:27	06/29/22 00:27	91-57-6	G6
Naphthalene	ND	ug/L	1.00	0.159		1	06/28/22 03:27	06/29/22 00:27	91-20-3	G6
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/28/22 03:27	06/29/22 00:27	86-30-6	G6
Phenanthrene	**0.145J**	ug/L	1.00	0.112		1	06/28/22 03:27	06/29/22 00:27	85-01-8	G6,J
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/28/22 03:27	06/29/22 00:27	117-81-7	G6
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/28/22 03:27	06/29/22 00:27	117-84-0	G6
Pyrene	ND	ug/L	1.00	0.107		1	06/28/22 03:27	06/29/22 00:27	129-00-0	G6
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/28/22 03:27	06/29/22 00:27	105-67-9	G6
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/28/22 03:27	06/29/22 00:27		G6
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/28/22 03:27	06/29/22 00:27	87-86-5	G6
Phenol	ND	ug/L	10.0	4.33		1	06/28/22 03:27	06/29/22 00:27	108-95-2	G6
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/28/22 03:27	07/02/22 16:03	134-32-7	G6
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/28/22 03:27	07/02/22 16:03	91-59-8	G6
O-Toluidine	ND	ug/L	10.0	3.53		1	06/28/22 03:27	07/02/22 16:03	95-53-4	G6
Surrogates										
2-Fluorophenol (S)	36.1	%	10.0-120			1	06/28/22 03:27	06/29/22 00:27	367-12-4	
Phenol-d5 (S)	25.1	%	10.0-120			1	06/28/22 03:27	06/29/22 00:27	4165-62-2	
Nitrobenzene-d5 (S)	55.1	%	10.0-127			1	06/28/22 03:27	06/29/22 00:27	4165-60-0	
2-Fluorobiphenyl (S)	52.2	%	10.0-130			1	06/28/22 03:27	06/29/22 00:27	321-60-8	
2,4,6-Tribromophenol (S)	66.5	%	10.0-155			1	06/28/22 03:27	06/29/22 00:27	118-79-6	
Terphenyl-d14 (S)	77.3	%	10.0-128			1	06/28/22 03:27	06/29/22 00:27	1718-51-0	
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.0791J**	ug/L	0.400	0.0447		1	06/27/22 05:43	06/27/22 19:11	123-91-1	B,J
Surrogates										
Nitrobenzene-d5 (S)	60.2	%	10.0-120			1	06/27/22 05:43	06/27/22 19:11	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/02/22 14:00	07/02/22 14:00	67-64-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 15-I **Lab ID: 20247389012** Collected: 06/21/22 16:30 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Benzene	ND	ug/L	1.00	0.0941		1	07/02/22 14:00	07/02/22 14:00	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/02/22 14:00	07/02/22 14:00	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/02/22 14:00	07/02/22 14:00	75-15-0	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/02/22 14:00	07/02/22 14:00	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/02/22 14:00	07/02/22 14:00	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/02/22 14:00	07/02/22 14:00	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/02/22 14:00	07/02/22 14:00	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/02/22 14:00	07/02/22 14:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/02/22 14:00	07/02/22 14:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/02/22 14:00	07/02/22 14:00	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/02/22 14:00	07/02/22 14:00	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/02/22 14:00	07/02/22 14:00	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/02/22 14:00	07/02/22 14:00	79-01-6	L0
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/02/22 14:00	07/02/22 14:00	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/02/22 14:00	07/02/22 14:00	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/02/22 14:00	07/02/22 14:00	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/02/22 14:00	07/02/22 14:00	1330-20-7	
Surrogates										
Toluene-d8 (S)	103	%	80.0-120			1	07/02/22 14:00	07/02/22 14:00	2037-26-5	
1,2-Dichloroethane-d4 (S)	106	%	70.0-130			1	07/02/22 14:00	07/02/22 14:00	17060-07-0	
4-Bromofluorobenzene (S)	105	%	77.0-126			1	07/02/22 14:00	07/02/22 14:00	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.0040		1		06/26/22 11:19	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	**0.0026J**	mg/L	0.0040	0.0012		1	06/29/22 08:55	06/29/22 17:23	57-12-5	
EPA 420.4 Rev. 1	Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast									
Phenolics, Total Recoverable	ND	ug/L	60.0	25.0		1	07/01/22 13:30	07/05/22 16:03	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 15-S **Lab ID: 20247389013** Collected: 06/20/22 17:05 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/27/22 09:58	06/28/22 01:53	309-00-2	G6
Surrogates										
Decachlorobiphenyl (S)	77.9	%	10.0-128			1	06/27/22 09:58	06/28/22 01:53	2051-24-3	
Tetrachloro-m-xylene (S)	63.2	%	10.0-127			1	06/27/22 09:58	06/28/22 01:53	877-09-8	
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/27/22 10:05	06/29/22 05:36	93-72-1	
Surrogates										
2,4-DCAA (S)	91.6	%	14.0-158			1	06/27/22 10:05	06/29/22 05:36	19719-28-9	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00063		1	06/24/22 06:35	06/27/22 23:10	7440-36-0	
Arsenic	**0.0021**	mg/L	0.0010	0.00020		1	06/24/22 06:35	06/27/22 23:10	7440-38-2	
Barium	**0.13**	mg/L	0.0010	0.00036		1	06/24/22 06:35	06/27/22 23:10	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00012		1	06/24/22 06:35	06/27/22 23:10	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000080		1	06/24/22 06:35	06/27/22 23:10	7440-43-9	
Chromium	**0.00088J**	mg/L	0.0010	0.00062		1	06/24/22 06:35	06/27/22 23:10	7440-47-3	
Cobalt	**0.00015J**	mg/L	0.0010	0.000060		1	06/24/22 06:35	06/27/22 23:10	7440-48-4	
Copper	**0.0036**	mg/L	0.0030	0.00083		1	06/24/22 06:35	06/27/22 23:10	7440-50-8	
Lead	ND	mg/L	0.0010	0.000070		1	06/24/22 06:35	06/27/22 23:10	7439-92-1	
Nickel	**0.00083J**	mg/L	0.0010	0.00056		1	06/24/22 06:35	06/27/22 23:10	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00037		1	06/24/22 06:35	06/27/22 23:10	7782-49-2	
Silver	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 23:10	7440-22-4	
Thallium	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 23:10	7440-28-0	
Tin	ND	mg/L	0.0060	0.00043		1	06/24/22 06:35	06/27/22 23:10	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.0023		1	06/24/22 06:35	06/27/22 23:10	7440-62-2	
Zinc	**0.017**	mg/L	0.010	0.0044		1	06/24/22 06:35	06/27/22 23:10	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/24/22 06:30	06/24/22 13:24	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	**0.403J**	ug/L	1.00	0.0886		1	06/25/22 05:08	06/26/22 14:47	83-32-9	J
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/25/22 05:08	06/26/22 14:47	208-96-8	
Anthracene	ND	ug/L	1.00	0.0804		1	06/25/22 05:08	06/26/22 14:47	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/25/22 05:08	06/26/22 14:47	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/25/22 05:08	06/26/22 14:47	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/25/22 05:08	06/26/22 14:47	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/25/22 05:08	06/26/22 14:47	191-24-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 15-S **Lab ID: 20247389013** Collected: 06/20/22 17:05 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/25/22 05:08	06/26/22 14:47	50-32-8	
Chrysene	ND	ug/L	1.00	0.130		1	06/25/22 05:08	06/26/22 14:47	218-01-9	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/25/22 05:08	06/26/22 14:47	132-64-9	
Fluoranthene	ND	ug/L	1.00	0.102		1	06/25/22 05:08	06/26/22 14:47	206-44-0	
Fluorene	ND	ug/L	1.00	0.0844		1	06/25/22 05:08	06/26/22 14:47	86-73-7	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/25/22 05:08	06/26/22 14:47	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/25/22 05:08	06/26/22 14:47	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/25/22 05:08	06/26/22 14:47	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/25/22 05:08	06/26/22 14:47	91-57-6	
Naphthalene	ND	ug/L	1.00	0.159		1	06/25/22 05:08	06/26/22 14:47	91-20-3	
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/25/22 05:08	06/26/22 14:47	86-30-6	
Phenanthrene	ND	ug/L	1.00	0.112		1	06/25/22 05:08	06/26/22 14:47	85-01-8	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/25/22 05:08	06/26/22 14:47	117-81-7	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/25/22 05:08	06/26/22 14:47	117-84-0	
Pyrene	ND	ug/L	1.00	0.107		1	06/25/22 05:08	06/26/22 14:47	129-00-0	
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/25/22 05:08	06/26/22 14:47	105-67-9	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/25/22 05:08	06/26/22 14:47		
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/25/22 05:08	06/26/22 14:47	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/25/22 05:08	06/26/22 14:47	108-95-2	
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/25/22 05:08	06/27/22 20:06	134-32-7	
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/25/22 05:08	06/27/22 20:06	91-59-8	
O-Toluidine	ND	ug/L	10.0	3.53		1	06/25/22 05:08	06/27/22 20:06	95-53-4	
Surrogates										
2-Fluorophenol (S)	30.1	%	10.0-120			1	06/25/22 05:08	06/26/22 14:47	367-12-4	
Phenol-d5 (S)	19.3	%	10.0-120			1	06/25/22 05:08	06/26/22 14:47	4165-62-2	
Nitrobenzene-d5 (S)	63.3	%	10.0-127			1	06/25/22 05:08	06/26/22 14:47	4165-60-0	
2-Fluorobiphenyl (S)	60.9	%	10.0-130			1	06/25/22 05:08	06/26/22 14:47	321-60-8	
2,4,6-Tribromophenol (S)	67.0	%	10.0-155			1	06/25/22 05:08	06/26/22 14:47	118-79-6	
Terphenyl-d14 (S)	71.0	%	10.0-128			1	06/25/22 05:08	06/26/22 14:47	1718-51-0	
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.103J**	ug/L	0.400	0.0447		1	06/24/22 10:07	06/25/22 14:32	123-91-1	B,J
Surrogates										
Nitrobenzene-d5 (S)	75.7	%	10.0-120			1	06/24/22 10:07	06/25/22 14:32	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/02/22 15:48	07/02/22 15:48	67-64-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 15-S **Lab ID: 20247389013** Collected: 06/20/22 17:05 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Benzene	ND	ug/L	1.00	0.0941		1	07/02/22 15:48	07/02/22 15:48	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/02/22 15:48	07/02/22 15:48	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/02/22 15:48	07/02/22 15:48	75-15-0	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/02/22 15:48	07/02/22 15:48	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/02/22 15:48	07/02/22 15:48	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/02/22 15:48	07/02/22 15:48	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/02/22 15:48	07/02/22 15:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/02/22 15:48	07/02/22 15:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/02/22 15:48	07/02/22 15:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/02/22 15:48	07/02/22 15:48	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/02/22 15:48	07/02/22 15:48	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/02/22 15:48	07/02/22 15:48	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/02/22 15:48	07/02/22 15:48	79-01-6	
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/02/22 15:48	07/02/22 15:48	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/02/22 15:48	07/02/22 15:48	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/02/22 15:48	07/02/22 15:48	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/02/22 15:48	07/02/22 15:48	1330-20-7	
Surrogates										
Toluene-d8 (S)	111	%	80.0-120			1	07/02/22 15:48	07/02/22 15:48	2037-26-5	
1,2-Dichloroethane-d4 (S)	106	%	70.0-130			1	07/02/22 15:48	07/02/22 15:48	17060-07-0	
4-Bromofluorobenzene (S)	102	%	77.0-126			1	07/02/22 15:48	07/02/22 15:48	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.0040		1		06/26/22 09:22	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	ND	mg/L	0.0040	0.0012		1	06/27/22 08:57	06/28/22 13:29	57-12-5	
EPA 420.4 Rev. 1	Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast									
Phenolics, Total Recoverable	**28.0J**	ug/L	60.0	25.0		1	06/28/22 10:19	06/30/22 13:42	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 16-D **Lab ID: 20247389014** Collected: 06/20/22 13:30 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/27/22 09:58	06/28/22 02:06	309-00-2	G6
Surrogates										
Decachlorobiphenyl (S)	84.8	%	10.0-128			1	06/27/22 09:58	06/28/22 02:06	2051-24-3	
Tetrachloro-m-xylene (S)	64.0	%	10.0-127			1	06/27/22 09:58	06/28/22 02:06	877-09-8	
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/27/22 10:05	06/29/22 05:51	93-72-1	
Surrogates										
2,4-DCAA (S)	94.1	%	14.0-158			1	06/27/22 10:05	06/29/22 05:51	19719-28-9	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00063		1	06/24/22 06:35	06/27/22 23:16	7440-36-0	
Arsenic	**0.00049J**	mg/L	0.0010	0.00020		1	06/24/22 06:35	06/27/22 23:16	7440-38-2	
Barium	**0.036**	mg/L	0.0010	0.00036		1	06/24/22 06:35	06/27/22 23:16	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00012		1	06/24/22 06:35	06/27/22 23:16	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000080		1	06/24/22 06:35	06/27/22 23:16	7440-43-9	
Chromium	**0.00078J**	mg/L	0.0010	0.00062		1	06/24/22 06:35	06/27/22 23:16	7440-47-3	
Cobalt	**0.000061J**	mg/L	0.0010	0.000060		1	06/24/22 06:35	06/27/22 23:16	7440-48-4	
Copper	ND	mg/L	0.0030	0.00083		1	06/24/22 06:35	06/27/22 23:16	7440-50-8	
Lead	ND	mg/L	0.0010	0.000070		1	06/24/22 06:35	06/27/22 23:16	7439-92-1	
Nickel	**0.0010**	mg/L	0.0010	0.00056		1	06/24/22 06:35	06/27/22 23:16	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00037		1	06/24/22 06:35	06/27/22 23:16	7782-49-2	
Silver	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 23:16	7440-22-4	
Thallium	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 23:16	7440-28-0	
Tin	ND	mg/L	0.0060	0.00043		1	06/24/22 06:35	06/27/22 23:16	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.0023		1	06/24/22 06:35	06/27/22 23:16	7440-62-2	
Zinc	**0.0061J**	mg/L	0.010	0.0044		1	06/24/22 06:35	06/27/22 23:16	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/24/22 06:30	06/24/22 13:26	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	ND	ug/L	1.00	0.0886		1	06/25/22 05:08	06/26/22 15:09	83-32-9	
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/25/22 05:08	06/26/22 15:09	208-96-8	
Anthracene	ND	ug/L	1.00	0.0804		1	06/25/22 05:08	06/26/22 15:09	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/25/22 05:08	06/26/22 15:09	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/25/22 05:08	06/26/22 15:09	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/25/22 05:08	06/26/22 15:09	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/25/22 05:08	06/26/22 15:09	191-24-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 16-D **Lab ID: 20247389014** Collected: 06/20/22 13:30 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/25/22 05:08	06/26/22 15:09	50-32-8	
Chrysene	ND	ug/L	1.00	0.130		1	06/25/22 05:08	06/26/22 15:09	218-01-9	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/25/22 05:08	06/26/22 15:09	132-64-9	
Fluoranthene	ND	ug/L	1.00	0.102		1	06/25/22 05:08	06/26/22 15:09	206-44-0	
Fluorene	ND	ug/L	1.00	0.0844		1	06/25/22 05:08	06/26/22 15:09	86-73-7	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/25/22 05:08	06/26/22 15:09	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/25/22 05:08	06/26/22 15:09	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/25/22 05:08	06/26/22 15:09	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/25/22 05:08	06/26/22 15:09	91-57-6	
Naphthalene	ND	ug/L	1.00	0.159		1	06/25/22 05:08	06/26/22 15:09	91-20-3	
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/25/22 05:08	06/26/22 15:09	86-30-6	
Phenanthrene	ND	ug/L	1.00	0.112		1	06/25/22 05:08	06/26/22 15:09	85-01-8	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/25/22 05:08	06/26/22 15:09	117-81-7	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/25/22 05:08	06/26/22 15:09	117-84-0	
Pyrene	ND	ug/L	1.00	0.107		1	06/25/22 05:08	06/26/22 15:09	129-00-0	
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/25/22 05:08	06/26/22 15:09	105-67-9	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/25/22 05:08	06/26/22 15:09		
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/25/22 05:08	06/26/22 15:09	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/25/22 05:08	06/26/22 15:09	108-95-2	
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/25/22 05:08	06/27/22 20:27	134-32-7	
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/25/22 05:08	06/27/22 20:27	91-59-8	
O-Toluidine	ND	ug/L	10.0	3.53		1	06/25/22 05:08	06/27/22 20:27	95-53-4	
Surrogates										
2-Fluorophenol (S)	26.8	%	10.0-120			1	06/25/22 05:08	06/26/22 15:09	367-12-4	
Phenol-d5 (S)	19.1	%	10.0-120			1	06/25/22 05:08	06/26/22 15:09	4165-62-2	
Nitrobenzene-d5 (S)	67.7	%	10.0-127			1	06/25/22 05:08	06/26/22 15:09	4165-60-0	
2-Fluorobiphenyl (S)	63.3	%	10.0-130			1	06/25/22 05:08	06/26/22 15:09	321-60-8	
2,4,6-Tribromophenol (S)	54.0	%	10.0-155			1	06/25/22 05:08	06/26/22 15:09	118-79-6	
Terphenyl-d14 (S)	68.1	%	10.0-128			1	06/25/22 05:08	06/26/22 15:09	1718-51-0	
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.122J**	ug/L	0.400	0.0447		1	06/24/22 10:07	06/25/22 14:52	123-91-1	B,J
Surrogates										
Nitrobenzene-d5 (S)	75.8	%	10.0-120			1	06/24/22 10:07	06/25/22 14:52	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/02/22 16:10	07/02/22 16:10	67-64-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 16-D **Lab ID: 20247389014** Collected: 06/20/22 13:30 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Benzene	ND	ug/L	1.00	0.0941		1	07/02/22 16:10	07/02/22 16:10	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/02/22 16:10	07/02/22 16:10	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/02/22 16:10	07/02/22 16:10	75-15-0	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/02/22 16:10	07/02/22 16:10	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/02/22 16:10	07/02/22 16:10	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/02/22 16:10	07/02/22 16:10	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/02/22 16:10	07/02/22 16:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/02/22 16:10	07/02/22 16:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/02/22 16:10	07/02/22 16:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/02/22 16:10	07/02/22 16:10	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/02/22 16:10	07/02/22 16:10	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/02/22 16:10	07/02/22 16:10	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/02/22 16:10	07/02/22 16:10	79-01-6	
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/02/22 16:10	07/02/22 16:10	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/02/22 16:10	07/02/22 16:10	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/02/22 16:10	07/02/22 16:10	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/02/22 16:10	07/02/22 16:10	1330-20-7	
Surrogates										
Toluene-d8 (S)	109	%	80.0-120			1	07/02/22 16:10	07/02/22 16:10	2037-26-5	
1,2-Dichloroethane-d4 (S)	106	%	70.0-130			1	07/02/22 16:10	07/02/22 16:10	17060-07-0	
4-Bromofluorobenzene (S)	99.3	%	77.0-126			1	07/02/22 16:10	07/02/22 16:10	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.0040		1		06/26/22 09:23	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	ND	mg/L	0.0040	0.0012		1	06/27/22 08:57	06/28/22 13:32	57-12-5	
EPA 420.4 Rev. 1	Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast									
Phenolics, Total Recoverable	ND	ug/L	60.0	25.0		1	06/28/22 10:19	06/30/22 13:46	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 16-I **Lab ID: 20247389015** Collected: 06/20/22 14:20 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/27/22 09:58	06/28/22 02:19	309-00-2	G6
Surrogates										
Decachlorobiphenyl (S)	94.4	%	10.0-128			1	06/27/22 09:58	06/28/22 02:19	2051-24-3	
Tetrachloro-m-xylene (S)	99.7	%	10.0-127			1	06/27/22 09:58	06/28/22 02:19	877-09-8	
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/27/22 10:05	06/29/22 06:06	93-72-1	
Surrogates										
2,4-DCAA (S)	94.1	%	14.0-158			1	06/27/22 10:05	06/29/22 06:06	19719-28-9	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00063		1	06/24/22 06:35	06/27/22 23:22	7440-36-0	
Arsenic	**0.0031**	mg/L	0.0010	0.00020		1	06/24/22 06:35	06/27/22 23:22	7440-38-2	
Barium	**0.043**	mg/L	0.0010	0.00036		1	06/24/22 06:35	06/27/22 23:22	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00012		1	06/24/22 06:35	06/27/22 23:22	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000080		1	06/24/22 06:35	06/27/22 23:22	7440-43-9	
Chromium	**0.00069J**	mg/L	0.0010	0.00062		1	06/24/22 06:35	06/27/22 23:22	7440-47-3	
Cobalt	**0.00015J**	mg/L	0.0010	0.000060		1	06/24/22 06:35	06/27/22 23:22	7440-48-4	
Copper	ND	mg/L	0.0030	0.00083		1	06/24/22 06:35	06/27/22 23:22	7440-50-8	
Lead	ND	mg/L	0.0010	0.000070		1	06/24/22 06:35	06/27/22 23:22	7439-92-1	
Nickel	**0.00064J**	mg/L	0.0010	0.00056		1	06/24/22 06:35	06/27/22 23:22	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00037		1	06/24/22 06:35	06/27/22 23:22	7782-49-2	
Silver	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 23:22	7440-22-4	
Thallium	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 23:22	7440-28-0	
Tin	ND	mg/L	0.0060	0.00043		1	06/24/22 06:35	06/27/22 23:22	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.0023		1	06/24/22 06:35	06/27/22 23:22	7440-62-2	
Zinc	ND	mg/L	0.010	0.0044		1	06/24/22 06:35	06/27/22 23:22	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/24/22 06:30	06/24/22 13:28	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	**60.0**	ug/L	1.00	0.0886		1	06/25/22 05:08	06/26/22 19:50	83-32-9	
Acenaphthylene	**0.212J**	ug/L	1.00	0.0921		1	06/25/22 05:08	06/26/22 19:50	208-96-8	J
Anthracene	ND	ug/L	1.00	0.0804		1	06/25/22 05:08	06/26/22 19:50	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/25/22 05:08	06/26/22 19:50	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/25/22 05:08	06/26/22 19:50	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/25/22 05:08	06/26/22 19:50	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/25/22 05:08	06/26/22 19:50	191-24-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 16-I **Lab ID: 20247389015** Collected: 06/20/22 14:20 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/25/22 05:08	06/26/22 19:50	50-32-8	
Chrysene	ND	ug/L	1.00	0.130		1	06/25/22 05:08	06/26/22 19:50	218-01-9	
Dibenzofuran	**8.92J**	ug/L	10.0	0.0970		1	06/25/22 05:08	06/26/22 19:50	132-64-9	J
Fluoranthene	**0.566J**	ug/L	1.00	0.102		1	06/25/22 05:08	06/26/22 19:50	206-44-0	J
Fluorene	**17.8**	ug/L	1.00	0.0844		1	06/25/22 05:08	06/26/22 19:50	86-73-7	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/25/22 05:08	06/26/22 19:50	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/25/22 05:08	06/26/22 19:50	193-39-5	
1-Methylnaphthalene	**75.7**	ug/L	1.00	0.0790		1	06/25/22 05:08	06/26/22 19:50	90-12-0	
2-Methylnaphthalene	**114**	ug/L	1.00	0.117		1	06/25/22 05:08	06/26/22 19:50	91-57-6	
Naphthalene	**3.02**	ug/L	1.00	0.159		1	06/25/22 05:08	06/26/22 19:50	91-20-3	
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/25/22 05:08	06/26/22 19:50	86-30-6	
Phenanthrene	**14.6**	ug/L	1.00	0.112		1	06/25/22 05:08	06/26/22 19:50	85-01-8	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/25/22 05:08	06/26/22 19:50	117-81-7	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/25/22 05:08	06/26/22 19:50	117-84-0	
Pyrene	**0.367J**	ug/L	1.00	0.107		1	06/25/22 05:08	06/26/22 19:50	129-00-0	J
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/25/22 05:08	06/26/22 19:50	105-67-9	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/25/22 05:08	06/26/22 19:50		
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/25/22 05:08	06/26/22 19:50	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/25/22 05:08	06/26/22 19:50	108-95-2	
1-Naphthalenamine	**1.33J**	ug/L	10.0	0.289		1	06/25/22 05:08	06/27/22 23:45	134-32-7	J
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/25/22 05:08	06/27/22 23:45	91-59-8	
O-Toluidine	ND	ug/L	10.0	3.53		1	06/25/22 05:08	06/27/22 23:45	95-53-4	
Surrogates										
2-Fluorophenol (S)	23.4	%	10.0-120			1	06/25/22 05:08	06/26/22 19:50	367-12-4	
Phenol-d5 (S)	16.4	%	10.0-120			1	06/25/22 05:08	06/26/22 19:50	4165-62-2	
Nitrobenzene-d5 (S)	58.8	%	10.0-127			1	06/25/22 05:08	06/26/22 19:50	4165-60-0	
2-Fluorobiphenyl (S)	47.0	%	10.0-130			1	06/25/22 05:08	06/26/22 19:50	321-60-8	
2,4,6-Tribromophenol (S)	38.0	%	10.0-155			1	06/25/22 05:08	06/26/22 19:50	118-79-6	
Terphenyl-d14 (S)	38.4	%	10.0-128			1	06/25/22 05:08	06/26/22 19:50	1718-51-0	
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**6.92**	ug/L	0.400	0.0447		1	06/24/22 10:07	06/25/22 15:11	123-91-1	
Surrogates										
Nitrobenzene-d5 (S)	58.6	%	10.0-120			1	06/24/22 10:07	06/25/22 15:11	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/02/22 16:32	07/02/22 16:32	67-64-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 16-I **Lab ID: 20247389015** Collected: 06/20/22 14:20 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Benzene	**42.4**	ug/L	1.00	0.0941		1	07/02/22 16:32	07/02/22 16:32	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/02/22 16:32	07/02/22 16:32	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/02/22 16:32	07/02/22 16:32	75-15-0	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/02/22 16:32	07/02/22 16:32	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/02/22 16:32	07/02/22 16:32	67-66-3	
1,1-Dichloroethane	**0.262J**	ug/L	1.00	0.100		1	07/02/22 16:32	07/02/22 16:32	75-34-3	J
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/02/22 16:32	07/02/22 16:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/02/22 16:32	07/02/22 16:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/02/22 16:32	07/02/22 16:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/02/22 16:32	07/02/22 16:32	78-87-5	
Ethylbenzene	**4.69**	ug/L	1.00	0.173		1	07/02/22 16:32	07/02/22 16:32	100-41-4	
Toluene	**0.511J**	ug/L	1.00	0.278		1	07/02/22 16:32	07/02/22 16:32	108-88-3	J
Trichloroethene	ND	ug/L	1.00	0.190		1	07/02/22 16:32	07/02/22 16:32	79-01-6	
Vinyl chloride	**0.546J**	ug/L	1.00	0.234		1	07/02/22 16:32	07/02/22 16:32	75-01-4	J
o-Xylene	**2.49**	ug/L	1.00	0.174		1	07/02/22 16:32	07/02/22 16:32	95-47-6	
m&p-Xylene	**16.6**	ug/L	2.00	0.430		1	07/02/22 16:32	07/02/22 16:32	179601-23-1	
Xylene (Total)	**19.1**	ug/L	3.00	0.174		1	07/02/22 16:32	07/02/22 16:32	1330-20-7	
Surrogates										
Toluene-d8 (S)	107	%	80.0-120			1	07/02/22 16:32	07/02/22 16:32	2037-26-5	
1,2-Dichloroethane-d4 (S)	103	%	70.0-130			1	07/02/22 16:32	07/02/22 16:32	17060-07-0	
4-Bromofluorobenzene (S)	104	%	77.0-126			1	07/02/22 16:32	07/02/22 16:32	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	**0.092**	mg/L	0.020	0.0040		1		06/26/22 09:23	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	ND	mg/L	0.0040	0.0012		1	06/27/22 08:57	06/28/22 13:34	57-12-5	
EPA 420.4 Rev. 1	Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast									
Phenolics, Total Recoverable	**107**	ug/L	60.0	25.0		1	06/28/22 10:19	06/30/22 13:46	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 17-D **Lab ID: 20247389016** Collected: 06/22/22 11:15 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/28/22 14:49	06/29/22 00:10	309-00-2	
Surrogates										
Decachlorobiphenyl (S)	80.3	%	10.0-128			1	06/28/22 14:49	06/29/22 00:10	2051-24-3	
Tetrachloro-m-xylene (S)	98.7	%	10.0-127			1	06/28/22 14:49	06/29/22 00:10	877-09-8	
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/28/22 18:00	06/30/22 19:56	93-72-1	
Surrogates										
2,4-DCAA (S)	60.4	%	14.0-158			1	06/28/22 18:00	06/30/22 19:56	19719-28-9	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00063		1	06/24/22 06:35	06/27/22 23:28	7440-36-0	
Arsenic	**0.00023J**	mg/L	0.0010	0.00020		1	06/24/22 06:35	06/27/22 23:28	7440-38-2	
Barium	**0.025**	mg/L	0.0010	0.00036		1	06/24/22 06:35	06/27/22 23:28	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00012		1	06/24/22 06:35	06/27/22 23:28	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000080		1	06/24/22 06:35	06/27/22 23:28	7440-43-9	
Chromium	ND	mg/L	0.0010	0.00062		1	06/24/22 06:35	06/27/22 23:28	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000060		1	06/24/22 06:35	06/27/22 23:28	7440-48-4	
Copper	ND	mg/L	0.0030	0.00083		1	06/24/22 06:35	06/27/22 23:28	7440-50-8	
Lead	ND	mg/L	0.0010	0.000070		1	06/24/22 06:35	06/27/22 23:28	7439-92-1	
Nickel	ND	mg/L	0.0010	0.00056		1	06/24/22 06:35	06/27/22 23:28	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00037		1	06/24/22 06:35	06/27/22 23:28	7782-49-2	
Silver	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 23:28	7440-22-4	
Thallium	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 23:28	7440-28-0	
Tin	ND	mg/L	0.0060	0.00043		1	06/24/22 06:35	06/27/22 23:28	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.0023		1	06/24/22 06:35	06/27/22 23:28	7440-62-2	
Zinc	ND	mg/L	0.010	0.0044		1	06/24/22 06:35	06/27/22 23:28	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/25/22 13:45	06/28/22 15:03	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	ND	ug/L	1.00	0.0886		1	06/29/22 03:25	06/29/22 14:03	83-32-9	G6
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/29/22 03:25	06/29/22 14:03	208-96-8	G6
Anthracene	ND	ug/L	1.00	0.0804		1	06/29/22 03:25	06/29/22 14:03	120-12-7	G6
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/29/22 03:25	06/29/22 14:03	56-55-3	G6
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/29/22 03:25	06/29/22 14:03	205-99-2	G6
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/29/22 03:25	06/29/22 14:03	207-08-9	G6
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/29/22 03:25	06/29/22 14:03	191-24-2	G6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 17-D **Lab ID: 20247389016** Collected: 06/22/22 11:15 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/29/22 03:25	06/29/22 14:03	50-32-8	G6
Chrysene	ND	ug/L	1.00	0.130		1	06/29/22 03:25	06/29/22 14:03	218-01-9	G6
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/29/22 03:25	06/29/22 14:03	132-64-9	G6
Fluoranthene	ND	ug/L	1.00	0.102		1	06/29/22 03:25	06/29/22 14:03	206-44-0	G6
Fluorene	ND	ug/L	1.00	0.0844		1	06/29/22 03:25	06/29/22 14:03	86-73-7	G6
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/29/22 03:25	06/29/22 14:03	67-72-1	G6
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/29/22 03:25	06/29/22 14:03	193-39-5	G6
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/29/22 03:25	06/29/22 14:03	90-12-0	G6
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/29/22 03:25	06/29/22 14:03	91-57-6	G6
Naphthalene	ND	ug/L	1.00	0.159		1	06/29/22 03:25	06/29/22 14:03	91-20-3	G6
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/29/22 03:25	06/29/22 14:03	86-30-6	G6
Phenanthrene	ND	ug/L	1.00	0.112		1	06/29/22 03:25	06/29/22 14:03	85-01-8	G6
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/29/22 03:25	06/29/22 14:03	117-81-7	G6
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/29/22 03:25	06/29/22 14:03	117-84-0	G6
Pyrene	ND	ug/L	1.00	0.107		1	06/29/22 03:25	06/29/22 14:03	129-00-0	G6
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/29/22 03:25	06/29/22 14:03	105-67-9	G6
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/29/22 03:25	06/29/22 14:03		G6
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/29/22 03:25	06/29/22 14:03	87-86-5	G6
Phenol	ND	ug/L	10.0	4.33		1	06/29/22 03:25	06/29/22 14:03	108-95-2	G6
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/29/22 03:25	07/01/22 10:53	134-32-7	G6
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/29/22 03:25	07/01/22 10:53	91-59-8	G6
O-Toluidine	ND	ug/L	10.0	3.53		1	06/29/22 03:25	07/01/22 10:53	95-53-4	G6
Surrogates										
2-Fluorophenol (S)	39.4	%	10.0-120			1	06/29/22 03:25	06/29/22 14:03	367-12-4	
Phenol-d5 (S)	24.9	%	10.0-120			1	06/29/22 03:25	06/29/22 14:03	4165-62-2	
Nitrobenzene-d5 (S)	59.8	%	10.0-127			1	06/29/22 03:25	06/29/22 14:03	4165-60-0	
2-Fluorobiphenyl (S)	55.5	%	10.0-130			1	06/29/22 03:25	06/29/22 14:03	321-60-8	
2,4,6-Tribromophenol (S)	53.5	%	10.0-155			1	06/29/22 03:25	06/29/22 14:03	118-79-6	
Terphenyl-d14 (S)	61.7	%	10.0-128			1	06/29/22 03:25	06/29/22 14:03	1718-51-0	
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.708**	ug/L	0.400	0.0447		1	06/28/22 16:28	06/30/22 17:02	123-91-1	
Surrogates										
Nitrobenzene-d5 (S)	33.1	%	10.0-120			1	06/28/22 16:28	06/30/22 17:02	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/05/22 18:49	07/05/22 18:49	67-64-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 17-D **Lab ID: 20247389016** Collected: 06/22/22 11:15 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Benzene	ND	ug/L	1.00	0.0941		1	07/05/22 18:49	07/05/22 18:49	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/05/22 18:49	07/05/22 18:49	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/05/22 18:49	07/05/22 18:49	75-15-0	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/05/22 18:49	07/05/22 18:49	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/05/22 18:49	07/05/22 18:49	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/05/22 18:49	07/05/22 18:49	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/05/22 18:49	07/05/22 18:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/05/22 18:49	07/05/22 18:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/05/22 18:49	07/05/22 18:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/05/22 18:49	07/05/22 18:49	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/05/22 18:49	07/05/22 18:49	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/05/22 18:49	07/05/22 18:49	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/05/22 18:49	07/05/22 18:49	79-01-6	L0
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/05/22 18:49	07/05/22 18:49	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/05/22 18:49	07/05/22 18:49	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/05/22 18:49	07/05/22 18:49	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/05/22 18:49	07/05/22 18:49	1330-20-7	
Surrogates										
Toluene-d8 (S)	99.9	%	80.0-120			1	07/05/22 18:49	07/05/22 18:49	2037-26-5	
1,2-Dichloroethane-d4 (S)	105	%	70.0-130			1	07/05/22 18:49	07/05/22 18:49	17060-07-0	
4-Bromofluorobenzene (S)	101	%	77.0-126			1	07/05/22 18:49	07/05/22 18:49	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.0040		1		06/29/22 15:21	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	**0.0012J**	mg/L	0.0040	0.0012		1	06/29/22 08:55	06/29/22 17:25	57-12-5	
EPA 420.4 Rev. 1	Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast									
Phenolics, Total Recoverable	ND	ug/L	60.0	25.0		1	07/01/22 13:30	07/05/22 16:05	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 19-SR **Lab ID: 20247389017** Collected: 06/20/22 09:40 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/27/22 09:58	06/28/22 02:32	309-00-2	G6
Surrogates										
Decachlorobiphenyl (S)	65.6	%	10.0-128			1	06/27/22 09:58	06/28/22 02:32	2051-24-3	
Tetrachloro-m-xylene (S)	74.3	%	10.0-127			1	06/27/22 09:58	06/28/22 02:32	877-09-8	
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/27/22 10:05	06/29/22 06:20	93-72-1	
Surrogates										
2,4-DCAA (S)	79.2	%	14.0-158			1	06/27/22 10:05	06/29/22 06:20	19719-28-9	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00063		1	06/24/22 06:35	06/27/22 23:33	7440-36-0	
Arsenic	**0.18**	mg/L	0.0010	0.00020		1	06/24/22 06:35	06/27/22 23:33	7440-38-2	
Barium	**0.17**	mg/L	0.0010	0.00036		1	06/24/22 06:35	06/27/22 23:33	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00012		1	06/24/22 06:35	06/27/22 23:33	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000080		1	06/24/22 06:35	06/27/22 23:33	7440-43-9	
Chromium	ND	mg/L	0.0010	0.00062		1	06/24/22 06:35	06/27/22 23:33	7440-47-3	
Cobalt	**0.00016J**	mg/L	0.0010	0.000060		1	06/24/22 06:35	06/27/22 23:33	7440-48-4	
Copper	ND	mg/L	0.0030	0.00083		1	06/24/22 06:35	06/27/22 23:33	7440-50-8	
Lead	ND	mg/L	0.0010	0.000070		1	06/24/22 06:35	06/27/22 23:33	7439-92-1	
Nickel	ND	mg/L	0.0010	0.00056		1	06/24/22 06:35	06/27/22 23:33	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00037		1	06/24/22 06:35	06/27/22 23:33	7782-49-2	
Silver	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 23:33	7440-22-4	
Thallium	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 23:33	7440-28-0	
Tin	ND	mg/L	0.0060	0.00043		1	06/24/22 06:35	06/27/22 23:33	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.0023		1	06/24/22 06:35	06/27/22 23:33	7440-62-2	
Zinc	ND	mg/L	0.010	0.0044		1	06/24/22 06:35	06/27/22 23:33	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/24/22 06:30	06/24/22 13:30	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	**0.575J**	ug/L	1.00	0.0886		1	06/25/22 05:08	06/26/22 15:31	83-32-9	J
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/25/22 05:08	06/26/22 15:31	208-96-8	
Anthracene	ND	ug/L	1.00	0.0804		1	06/25/22 05:08	06/26/22 15:31	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/25/22 05:08	06/26/22 15:31	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/25/22 05:08	06/26/22 15:31	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/25/22 05:08	06/26/22 15:31	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/25/22 05:08	06/26/22 15:31	191-24-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 19-SR **Lab ID: 20247389017** Collected: 06/20/22 09:40 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/25/22 05:08	06/26/22 15:31	50-32-8	
Chrysene	ND	ug/L	1.00	0.130		1	06/25/22 05:08	06/26/22 15:31	218-01-9	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/25/22 05:08	06/26/22 15:31	132-64-9	
Fluoranthene	ND	ug/L	1.00	0.102		1	06/25/22 05:08	06/26/22 15:31	206-44-0	
Fluorene	ND	ug/L	1.00	0.0844		1	06/25/22 05:08	06/26/22 15:31	86-73-7	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/25/22 05:08	06/26/22 15:31	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/25/22 05:08	06/26/22 15:31	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/25/22 05:08	06/26/22 15:31	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/25/22 05:08	06/26/22 15:31	91-57-6	
Naphthalene	ND	ug/L	1.00	0.159		1	06/25/22 05:08	06/26/22 15:31	91-20-3	
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/25/22 05:08	06/26/22 15:31	86-30-6	
Phenanthrene	ND	ug/L	1.00	0.112		1	06/25/22 05:08	06/26/22 15:31	85-01-8	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/25/22 05:08	06/26/22 15:31	117-81-7	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/25/22 05:08	06/26/22 15:31	117-84-0	
Pyrene	ND	ug/L	1.00	0.107		1	06/25/22 05:08	06/26/22 15:31	129-00-0	
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/25/22 05:08	06/26/22 15:31	105-67-9	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/25/22 05:08	06/26/22 15:31		
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/25/22 05:08	06/26/22 15:31	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/25/22 05:08	06/26/22 15:31	108-95-2	
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/25/22 05:08	06/29/22 20:07	134-32-7	
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/25/22 05:08	06/29/22 20:07	91-59-8	
O-Toluidine	ND	ug/L	10.0	3.53		1	06/25/22 05:08	06/29/22 20:07	95-53-4	
Surrogates										
2-Fluorophenol (S)	27.6	%	10.0-120			1	06/25/22 05:08	06/26/22 15:31	367-12-4	
Phenol-d5 (S)	18.8	%	10.0-120			1	06/25/22 05:08	06/26/22 15:31	4165-62-2	
Nitrobenzene-d5 (S)	63.1	%	10.0-127			1	06/25/22 05:08	06/26/22 15:31	4165-60-0	
2-Fluorobiphenyl (S)	60.3	%	10.0-130			1	06/25/22 05:08	06/26/22 15:31	321-60-8	
2,4,6-Tribromophenol (S)	61.5	%	10.0-155			1	06/25/22 05:08	06/26/22 15:31	118-79-6	
Terphenyl-d14 (S)	68.2	%	10.0-128			1	06/25/22 05:08	06/26/22 15:31	1718-51-0	
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.214J**	ug/L	0.400	0.0447		1	06/24/22 10:07	06/25/22 15:31	123-91-1	B,J
Surrogates										
Nitrobenzene-d5 (S)	57.8	%	10.0-120			1	06/24/22 10:07	06/25/22 15:31	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/02/22 16:54	07/02/22 16:54	67-64-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 19-SR **Lab ID: 20247389017** Collected: 06/20/22 09:40 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Benzene	ND	ug/L	1.00	0.0941		1	07/02/22 16:54	07/02/22 16:54	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/02/22 16:54	07/02/22 16:54	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/02/22 16:54	07/02/22 16:54	75-15-0	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/02/22 16:54	07/02/22 16:54	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/02/22 16:54	07/02/22 16:54	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/02/22 16:54	07/02/22 16:54	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/02/22 16:54	07/02/22 16:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/02/22 16:54	07/02/22 16:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/02/22 16:54	07/02/22 16:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/02/22 16:54	07/02/22 16:54	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/02/22 16:54	07/02/22 16:54	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/02/22 16:54	07/02/22 16:54	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/02/22 16:54	07/02/22 16:54	79-01-6	
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/02/22 16:54	07/02/22 16:54	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/02/22 16:54	07/02/22 16:54	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/02/22 16:54	07/02/22 16:54	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/02/22 16:54	07/02/22 16:54	1330-20-7	
Surrogates										
Toluene-d8 (S)	110	%	80.0-120			1	07/02/22 16:54	07/02/22 16:54	2037-26-5	
1,2-Dichloroethane-d4 (S)	104	%	70.0-130			1	07/02/22 16:54	07/02/22 16:54	17060-07-0	
4-Bromofluorobenzene (S)	99.4	%	77.0-126			1	07/02/22 16:54	07/02/22 16:54	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.0040		1		06/26/22 09:24	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	ND	mg/L	0.0040	0.0012		1	06/27/22 08:57	06/28/22 13:36	57-12-5	
EPA 420.4 Rev. 1	Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast									
Phenolics, Total Recoverable	ND	ug/L	60.0	25.0		1	06/28/22 10:19	06/30/22 13:48	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 21-I **Lab ID: 20247389018** Collected: 06/21/22 13:30 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/27/22 07:33	06/27/22 16:19	309-00-2	
Surrogates										
Decachlorobiphenyl (S)	35.7	%	10.0-128			1	06/27/22 07:33	06/27/22 16:19	2051-24-3	
Tetrachloro-m-xylene (S)	85.9	%	10.0-127			1	06/27/22 07:33	06/27/22 16:19	877-09-8	
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/28/22 18:00	06/30/22 20:11	93-72-1	
Surrogates										
2,4-DCAA (S)	66.6	%	14.0-158			1	06/28/22 18:00	06/30/22 20:11	19719-28-9	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0020	0.0013		2	06/24/22 06:35	06/28/22 18:45	7440-36-0	
Arsenic	**0.0052**	mg/L	0.0020	0.00040		2	06/24/22 06:35	06/28/22 18:45	7440-38-2	
Barium	**0.040**	mg/L	0.0020	0.00072		2	06/24/22 06:35	06/28/22 18:45	7440-39-3	
Beryllium	ND	mg/L	0.0020	0.00024		2	06/24/22 06:35	06/28/22 18:45	7440-41-7	D3
Cadmium	ND	mg/L	0.0020	0.00016		2	06/24/22 06:35	06/28/22 18:45	7440-43-9	
Chromium	ND	mg/L	0.0020	0.0012		2	06/24/22 06:35	06/28/22 18:45	7440-47-3	
Cobalt	**0.00097J**	mg/L	0.0020	0.00012		2	06/24/22 06:35	06/28/22 18:45	7440-48-4	
Copper	ND	mg/L	0.0060	0.0017		2	06/24/22 06:35	06/28/22 18:45	7440-50-8	
Lead	ND	mg/L	0.0020	0.00014		2	06/24/22 06:35	06/28/22 18:45	7439-92-1	
Nickel	**0.0040**	mg/L	0.0020	0.0011		2	06/24/22 06:35	06/28/22 18:45	7440-02-0	
Selenium	ND	mg/L	0.0020	0.00074		2	06/24/22 06:35	06/28/22 18:45	7782-49-2	
Silver	ND	mg/L	0.0010	0.00016		2	06/24/22 06:35	06/28/22 18:45	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00016		2	06/24/22 06:35	06/28/22 18:45	7440-28-0	
Tin	ND	mg/L	0.012	0.00086		2	06/24/22 06:35	06/28/22 18:45	7440-31-5	
Vanadium	ND	mg/L	0.010	0.0046		2	06/24/22 06:35	06/28/22 18:45	7440-62-2	
Zinc	ND	mg/L	0.020	0.0088		2	06/24/22 06:35	06/28/22 18:45	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/25/22 13:45	06/28/22 15:05	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	ND	ug/L	1.00	0.0886		1	06/28/22 03:27	06/28/22 21:58	83-32-9	G6
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/28/22 03:27	06/28/22 21:58	208-96-8	G6
Anthracene	ND	ug/L	1.00	0.0804		1	06/28/22 03:27	06/28/22 21:58	120-12-7	G6
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/28/22 03:27	06/28/22 21:58	56-55-3	G6
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/28/22 03:27	06/28/22 21:58	205-99-2	G6
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/28/22 03:27	06/28/22 21:58	207-08-9	G6
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/28/22 03:27	06/28/22 21:58	191-24-2	G6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 21-I **Lab ID: 20247389018** Collected: 06/21/22 13:30 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/28/22 03:27	06/28/22 21:58	50-32-8	G6
Chrysene	ND	ug/L	1.00	0.130		1	06/28/22 03:27	06/28/22 21:58	218-01-9	G6
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/28/22 03:27	06/28/22 21:58	132-64-9	G6
Fluoranthene	ND	ug/L	1.00	0.102		1	06/28/22 03:27	06/28/22 21:58	206-44-0	G6
Fluorene	ND	ug/L	1.00	0.0844		1	06/28/22 03:27	06/28/22 21:58	86-73-7	G6
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/28/22 03:27	06/28/22 21:58	67-72-1	G6
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/28/22 03:27	06/28/22 21:58	193-39-5	G6
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/28/22 03:27	06/28/22 21:58	90-12-0	G6
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/28/22 03:27	06/28/22 21:58	91-57-6	G6
Naphthalene	ND	ug/L	1.00	0.159		1	06/28/22 03:27	06/28/22 21:58	91-20-3	G6
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/28/22 03:27	06/28/22 21:58	86-30-6	G6
Phenanthrene	**0.157J**	ug/L	1.00	0.112		1	06/28/22 03:27	06/28/22 21:58	85-01-8	G6,J
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/28/22 03:27	06/28/22 21:58	117-81-7	G6
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/28/22 03:27	06/28/22 21:58	117-84-0	G6
Pyrene	**2.35**	ug/L	1.00	0.107		1	06/28/22 03:27	06/28/22 21:58	129-00-0	G6
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/28/22 03:27	06/28/22 21:58	105-67-9	G6
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/28/22 03:27	06/28/22 21:58		G6
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/28/22 03:27	06/28/22 21:58	87-86-5	G6
Phenol	ND	ug/L	10.0	4.33		1	06/28/22 03:27	06/28/22 21:58	108-95-2	G6
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/28/22 03:27	07/02/22 13:17	134-32-7	G6
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/28/22 03:27	07/02/22 13:17	91-59-8	G6
O-Toluidine	ND	ug/L	10.0	3.53		1	06/28/22 03:27	07/02/22 13:17	95-53-4	G6
Surrogates										
2-Fluorophenol (S)	36.6	%	10.0-120			1	06/28/22 03:27	06/28/22 21:58	367-12-4	
Phenol-d5 (S)	24.2	%	10.0-120			1	06/28/22 03:27	06/28/22 21:58	4165-62-2	
Nitrobenzene-d5 (S)	54.6	%	10.0-127			1	06/28/22 03:27	06/28/22 21:58	4165-60-0	
2-Fluorobiphenyl (S)	51.9	%	10.0-130			1	06/28/22 03:27	06/28/22 21:58	321-60-8	
2,4,6-Tribromophenol (S)	63.5	%	10.0-155			1	06/28/22 03:27	06/28/22 21:58	118-79-6	
Terphenyl-d14 (S)	74.8	%	10.0-128			1	06/28/22 03:27	06/28/22 21:58	1718-51-0	
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.364J**	ug/L	0.400	0.0447		1	06/27/22 05:43	06/27/22 19:30	123-91-1	B,J
Surrogates										
Nitrobenzene-d5 (S)	54.3	%	10.0-120			1	06/27/22 05:43	06/27/22 19:30	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/02/22 14:22	07/02/22 14:22	67-64-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 21-I **Lab ID: 20247389018** Collected: 06/21/22 13:30 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Benzene	ND	ug/L	1.00	0.0941		1	07/02/22 14:22	07/02/22 14:22	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/02/22 14:22	07/02/22 14:22	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/02/22 14:22	07/02/22 14:22	75-15-0	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/02/22 14:22	07/02/22 14:22	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/02/22 14:22	07/02/22 14:22	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/02/22 14:22	07/02/22 14:22	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/02/22 14:22	07/02/22 14:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/02/22 14:22	07/02/22 14:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/02/22 14:22	07/02/22 14:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/02/22 14:22	07/02/22 14:22	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/02/22 14:22	07/02/22 14:22	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/02/22 14:22	07/02/22 14:22	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/02/22 14:22	07/02/22 14:22	79-01-6	L0
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/02/22 14:22	07/02/22 14:22	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/02/22 14:22	07/02/22 14:22	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/02/22 14:22	07/02/22 14:22	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/02/22 14:22	07/02/22 14:22	1330-20-7	
Surrogates										
Toluene-d8 (S)	100	%	80.0-120			1	07/02/22 14:22	07/02/22 14:22	2037-26-5	
1,2-Dichloroethane-d4 (S)	104	%	70.0-130			1	07/02/22 14:22	07/02/22 14:22	17060-07-0	
4-Bromofluorobenzene (S)	103	%	77.0-126			1	07/02/22 14:22	07/02/22 14:22	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.0040		1		06/26/22 11:20	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	**0.0030J**	mg/L	0.0040	0.0012		1	06/29/22 08:55	06/29/22 17:27	57-12-5	
EPA 420.4 Rev. 1	Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast									
Phenolics, Total Recoverable	ND	ug/L	60.0	25.0		1	07/01/22 13:30	07/05/22 16:05	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 23-D **Lab ID: 20247389019** Collected: 06/21/22 11:15 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/27/22 07:33	06/27/22 16:28	309-00-2	
Surrogates										
Decachlorobiphenyl (S)	113	%	10.0-128			1	06/27/22 07:33	06/27/22 16:28	2051-24-3	
Tetrachloro-m-xylene (S)	87.2	%	10.0-127			1	06/27/22 07:33	06/27/22 16:28	877-09-8	
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/28/22 18:00	06/30/22 20:26	93-72-1	
Surrogates										
2,4-DCAA (S)	72.5	%	14.0-158			1	06/28/22 18:00	06/30/22 20:26	19719-28-9	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00063		1	06/24/22 06:35	06/27/22 23:57	7440-36-0	
Arsenic	ND	mg/L	0.0010	0.00020		1	06/24/22 06:35	06/27/22 23:57	7440-38-2	
Barium	**0.014**	mg/L	0.0010	0.00036		1	06/24/22 06:35	06/27/22 23:57	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00012		1	06/24/22 06:35	06/27/22 23:57	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000080		1	06/24/22 06:35	06/27/22 23:57	7440-43-9	
Chromium	ND	mg/L	0.0010	0.00062		1	06/24/22 06:35	06/27/22 23:57	7440-47-3	
Cobalt	**0.000092J**	mg/L	0.0010	0.000060		1	06/24/22 06:35	06/27/22 23:57	7440-48-4	
Copper	**0.0020J**	mg/L	0.0030	0.00083		1	06/24/22 06:35	06/27/22 23:57	7440-50-8	
Lead	ND	mg/L	0.0010	0.000070		1	06/24/22 06:35	06/27/22 23:57	7439-92-1	
Nickel	**0.0024**	mg/L	0.0010	0.00056		1	06/24/22 06:35	06/27/22 23:57	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00037		1	06/24/22 06:35	06/27/22 23:57	7782-49-2	
Silver	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 23:57	7440-22-4	
Thallium	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 23:57	7440-28-0	
Tin	**0.0011J**	mg/L	0.0060	0.00043		1	06/24/22 06:35	06/27/22 23:57	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.0023		1	06/24/22 06:35	06/27/22 23:57	7440-62-2	
Zinc	**0.0058J**	mg/L	0.010	0.0044		1	06/24/22 06:35	06/27/22 23:57	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/25/22 13:45	06/28/22 15:07	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	ND	ug/L	1.00	0.0886		1	06/28/22 03:27	06/28/22 22:20	83-32-9	G6
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/28/22 03:27	06/28/22 22:20	208-96-8	G6
Anthracene	ND	ug/L	1.00	0.0804		1	06/28/22 03:27	06/28/22 22:20	120-12-7	G6
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/28/22 03:27	06/28/22 22:20	56-55-3	G6
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/28/22 03:27	06/28/22 22:20	205-99-2	G6
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/28/22 03:27	06/28/22 22:20	207-08-9	G6
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/28/22 03:27	06/28/22 22:20	191-24-2	G6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 23-D **Lab ID: 20247389019** Collected: 06/21/22 11:15 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/28/22 03:27	06/28/22 22:20	50-32-8	G6
Chrysene	ND	ug/L	1.00	0.130		1	06/28/22 03:27	06/28/22 22:20	218-01-9	G6
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/28/22 03:27	06/28/22 22:20	132-64-9	G6
Fluoranthene	ND	ug/L	1.00	0.102		1	06/28/22 03:27	06/28/22 22:20	206-44-0	G6
Fluorene	ND	ug/L	1.00	0.0844		1	06/28/22 03:27	06/28/22 22:20	86-73-7	G6
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/28/22 03:27	06/28/22 22:20	67-72-1	G6
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/28/22 03:27	06/28/22 22:20	193-39-5	G6
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/28/22 03:27	06/28/22 22:20	90-12-0	G6
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/28/22 03:27	06/28/22 22:20	91-57-6	G6
Naphthalene	ND	ug/L	1.00	0.159		1	06/28/22 03:27	06/28/22 22:20	91-20-3	G6
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/28/22 03:27	06/28/22 22:20	86-30-6	G6
Phenanthrene	ND	ug/L	1.00	0.112		1	06/28/22 03:27	06/28/22 22:20	85-01-8	G6
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/28/22 03:27	06/28/22 22:20	117-81-7	G6
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/28/22 03:27	06/28/22 22:20	117-84-0	G6
Pyrene	ND	ug/L	1.00	0.107		1	06/28/22 03:27	06/28/22 22:20	129-00-0	G6
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/28/22 03:27	06/28/22 22:20	105-67-9	G6
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/28/22 03:27	06/28/22 22:20		G6
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/28/22 03:27	06/28/22 22:20	87-86-5	G6
Phenol	ND	ug/L	10.0	4.33		1	06/28/22 03:27	06/28/22 22:20	108-95-2	G6
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/28/22 03:27	07/02/22 13:49	134-32-7	G6
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/28/22 03:27	07/02/22 13:49	91-59-8	G6
O-Toluidine	ND	ug/L	10.0	3.53		1	06/28/22 03:27	07/02/22 13:49	95-53-4	G6
Surrogates										
2-Fluorophenol (S)	42.3	%	10.0-120			1	06/28/22 03:27	06/28/22 22:20	367-12-4	
Phenol-d5 (S)	28.5	%	10.0-120			1	06/28/22 03:27	06/28/22 22:20	4165-62-2	
Nitrobenzene-d5 (S)	65.4	%	10.0-127			1	06/28/22 03:27	06/28/22 22:20	4165-60-0	
2-Fluorobiphenyl (S)	61.1	%	10.0-130			1	06/28/22 03:27	06/28/22 22:20	321-60-8	
2,4,6-Tribromophenol (S)	70.0	%	10.0-155			1	06/28/22 03:27	06/28/22 22:20	118-79-6	
Terphenyl-d14 (S)	75.4	%	10.0-128			1	06/28/22 03:27	06/28/22 22:20	1718-51-0	
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.0981J**	ug/L	0.400	0.0447		1	06/27/22 05:43	06/27/22 19:50	123-91-1	B,J
Surrogates										
Nitrobenzene-d5 (S)	64.4	%	10.0-120			1	06/27/22 05:43	06/27/22 19:50	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/02/22 14:44	07/02/22 14:44	67-64-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 23-D **Lab ID: 20247389019** Collected: 06/21/22 11:15 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Benzene	ND	ug/L	1.00	0.0941		1	07/02/22 14:44	07/02/22 14:44	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/02/22 14:44	07/02/22 14:44	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/02/22 14:44	07/02/22 14:44	75-15-0	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/02/22 14:44	07/02/22 14:44	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/02/22 14:44	07/02/22 14:44	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/02/22 14:44	07/02/22 14:44	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/02/22 14:44	07/02/22 14:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/02/22 14:44	07/02/22 14:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/02/22 14:44	07/02/22 14:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/02/22 14:44	07/02/22 14:44	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/02/22 14:44	07/02/22 14:44	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/02/22 14:44	07/02/22 14:44	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/02/22 14:44	07/02/22 14:44	79-01-6	L0
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/02/22 14:44	07/02/22 14:44	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/02/22 14:44	07/02/22 14:44	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/02/22 14:44	07/02/22 14:44	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/02/22 14:44	07/02/22 14:44	1330-20-7	
Surrogates										
Toluene-d8 (S)	99.2	%	80.0-120			1	07/02/22 14:44	07/02/22 14:44	2037-26-5	
1,2-Dichloroethane-d4 (S)	105	%	70.0-130			1	07/02/22 14:44	07/02/22 14:44	17060-07-0	
4-Bromofluorobenzene (S)	100	%	77.0-126			1	07/02/22 14:44	07/02/22 14:44	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.0040		1		06/26/22 11:20	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	**0.0015J**	mg/L	0.0040	0.0012		1	06/29/22 08:55	06/29/22 17:29	57-12-5	
EPA 420.4 Rev. 1	Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast									
Phenolics, Total Recoverable	ND	ug/L	60.0	25.0		1	07/01/22 13:30	07/05/22 16:07	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 23-I **Lab ID: 20247389020** Collected: 06/21/22 12:05 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/27/22 07:33	06/27/22 16:38	309-00-2	
Surrogates										
Decachlorobiphenyl (S)	64.7	%	10.0-128			1	06/27/22 07:33	06/27/22 16:38	2051-24-3	
Tetrachloro-m-xylene (S)	69.5	%	10.0-127			1	06/27/22 07:33	06/27/22 16:38	877-09-8	
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/28/22 18:00	06/30/22 20:40	93-72-1	
Surrogates										
2,4-DCAA (S)	91.2	%	14.0-158			1	06/28/22 18:00	06/30/22 20:40	19719-28-9	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0020	0.0013		2	06/24/22 06:35	06/28/22 00:03	7440-36-0	
Arsenic	**0.0013J**	mg/L	0.0020	0.00040		2	06/24/22 06:35	06/28/22 00:03	7440-38-2	
Barium	**0.0031**	mg/L	0.0020	0.00072		2	06/24/22 06:35	06/28/22 00:03	7440-39-3	
Beryllium	ND	mg/L	0.0020	0.00024		2	06/24/22 06:35	06/28/22 00:03	7440-41-7	
Cadmium	ND	mg/L	0.0020	0.00016		2	06/24/22 06:35	06/28/22 00:03	7440-43-9	
Chromium	ND	mg/L	0.0020	0.0012		2	06/24/22 06:35	06/28/22 00:03	7440-47-3	
Cobalt	ND	mg/L	0.0020	0.00012		2	06/24/22 06:35	06/28/22 00:03	7440-48-4	
Copper	ND	mg/L	0.0060	0.0017		2	06/24/22 06:35	06/28/22 00:03	7440-50-8	
Lead	ND	mg/L	0.0020	0.00014		2	06/24/22 06:35	06/28/22 00:03	7439-92-1	
Nickel	**0.0016J**	mg/L	0.0020	0.0011		2	06/24/22 06:35	06/28/22 00:03	7440-02-0	
Selenium	ND	mg/L	0.0020	0.00074		2	06/24/22 06:35	06/28/22 00:03	7782-49-2	
Silver	ND	mg/L	0.0010	0.00016		2	06/24/22 06:35	06/28/22 00:03	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00016		2	06/24/22 06:35	06/28/22 00:03	7440-28-0	
Tin	ND	mg/L	0.012	0.00086		2	06/24/22 06:35	06/28/22 00:03	7440-31-5	
Vanadium	ND	mg/L	0.010	0.0046		2	06/24/22 06:35	06/28/22 00:03	7440-62-2	
Zinc	**0.030**	mg/L	0.020	0.0088		2	06/24/22 06:35	06/28/22 00:03	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/25/22 13:45	06/28/22 15:09	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	**137**	ug/L	10.0	0.886		10	06/28/22 03:27	06/30/22 20:46	83-32-9	G6
Acenaphthylene	**3.84J**	ug/L	10.0	0.921		10	06/28/22 03:27	06/30/22 20:46	208-96-8	G6,J
Anthracene	ND	ug/L	10.0	0.804		10	06/28/22 03:27	06/30/22 20:46	120-12-7	G6
Benzo(a)anthracene	ND	ug/L	10.0	1.99		10	06/28/22 03:27	06/30/22 20:46	56-55-3	G6
Benzo(b)fluoranthene	ND	ug/L	10.0	1.30		10	06/28/22 03:27	06/30/22 20:46	205-99-2	G6
Benzo(k)fluoranthene	ND	ug/L	10.0	1.20		10	06/28/22 03:27	06/30/22 20:46	207-08-9	G6
Benzo(g,h,i)perylene	ND	ug/L	10.0	1.21		10	06/28/22 03:27	06/30/22 20:46	191-24-2	G6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 23-I **Lab ID: 20247389020** Collected: 06/21/22 12:05 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Benzo(a)pyrene	ND	ug/L	10.0	0.381		10	06/28/22 03:27	06/30/22 20:46	50-32-8	G6
Chrysene	ND	ug/L	10.0	1.30		10	06/28/22 03:27	06/30/22 20:46	218-01-9	G6
Dibenzofuran	**35.1J**	ug/L	100	0.970		10	06/28/22 03:27	06/30/22 20:46	132-64-9	G6,J
Fluoranthene	ND	ug/L	10.0	1.02		10	06/28/22 03:27	06/30/22 20:46	206-44-0	G6
Fluorene	**33.5**	ug/L	10.0	0.844		10	06/28/22 03:27	06/30/22 20:46	86-73-7	G6
Hexachloroethane	ND	ug/L	100	1.27		10	06/28/22 03:27	06/30/22 20:46	67-72-1	G6
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	2.79		10	06/28/22 03:27	06/30/22 20:46	193-39-5	G6
1-Methylnaphthalene	**61.1**	ug/L	10.0	0.790		10	06/28/22 03:27	06/30/22 20:46	90-12-0	G6
2-Methylnaphthalene	**27.5**	ug/L	10.0	1.17		10	06/28/22 03:27	06/30/22 20:46	91-57-6	G6
Naphthalene	**1020**	ug/L	10.0	1.59		10	06/28/22 03:27	06/30/22 20:46	91-20-3	G6
N-Nitrosodiphenylamine	ND	ug/L	100	23.7		10	06/28/22 03:27	06/30/22 20:46	86-30-6	G6
Phenanthrene	**17.9**	ug/L	10.0	1.12		10	06/28/22 03:27	06/30/22 20:46	85-01-8	G6
bis(2-Ethylhexyl)phthalate	ND	ug/L	30.0	8.95		10	06/28/22 03:27	06/30/22 20:46	117-81-7	G6
Di-n-octylphthalate	ND	ug/L	30.0	9.32		10	06/28/22 03:27	06/30/22 20:46	117-84-0	G6
Pyrene	ND	ug/L	10.0	1.07		10	06/28/22 03:27	06/30/22 20:46	129-00-0	G6
2,4-Dimethylphenol	**44.7J**	ug/L	100	0.636		10	06/28/22 03:27	06/30/22 20:46	105-67-9	G6,J
3&4-Methylphenol(m&p Cresol)	ND	ug/L	100	1.68		10	06/28/22 03:27	06/30/22 20:46		G6
Pentachlorophenol	ND	ug/L	100	3.13		10	06/28/22 03:27	06/30/22 20:46	87-86-5	G6
Phenol	ND	ug/L	100	43.3		10	06/28/22 03:27	06/30/22 20:46	108-95-2	G6
1-Naphthalenamine	**5.67J**	ug/L	100	2.89		10	06/28/22 03:27	06/30/22 20:46	134-32-7	G6,J
2-Naphthalenamine	ND	ug/L	100	44.8		10	06/28/22 03:27	06/30/22 20:46	91-59-8	G6
O-Toluidine	ND	ug/L	100	35.3		10	06/28/22 03:27	06/30/22 20:46	95-53-4	G6
Surrogates										
2-Fluorophenol (S)	39.1	%	10.0-120			10	06/28/22 03:27	06/30/22 20:46	367-12-4	
Phenol-d5 (S)	28.5	%	10.0-120			10	06/28/22 03:27	06/30/22 20:46	4165-62-2	
Nitrobenzene-d5 (S)	60.9	%	10.0-127			10	06/28/22 03:27	06/30/22 20:46	4165-60-0	
2-Fluorobiphenyl (S)	69.8	%	10.0-130			10	06/28/22 03:27	06/30/22 20:46	321-60-8	
2,4,6-Tribromophenol (S)	86.5	%	10.0-155			10	06/28/22 03:27	06/30/22 20:46	118-79-6	
Terphenyl-d14 (S)	96.4	%	10.0-128			10	06/28/22 03:27	06/30/22 20:46	1718-51-0	
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**1.30**	ug/L	0.400	0.0447		1	06/27/22 05:43	06/27/22 22:43	123-91-1	
Surrogates										
Nitrobenzene-d5 (S)	52.0	%	10.0-120			1	06/27/22 05:43	06/27/22 22:43	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/05/22 15:30	07/05/22 15:30	67-64-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 23-I **Lab ID: 20247389020** Collected: 06/21/22 12:05 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Benzene	**121**	ug/L	1.00	0.0941		1	07/05/22 15:30	07/05/22 15:30	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/05/22 15:30	07/05/22 15:30	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/05/22 15:30	07/05/22 15:30	75-15-0	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/05/22 15:30	07/05/22 15:30	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/05/22 15:30	07/05/22 15:30	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/05/22 15:30	07/05/22 15:30	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/05/22 15:30	07/05/22 15:30	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/05/22 15:30	07/05/22 15:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/05/22 15:30	07/05/22 15:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/05/22 15:30	07/05/22 15:30	78-87-5	
Ethylbenzene	**44.9**	ug/L	1.00	0.173		1	07/05/22 15:30	07/05/22 15:30	100-41-4	
Toluene	**1.72**	ug/L	1.00	0.278		1	07/05/22 15:30	07/05/22 15:30	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/05/22 15:30	07/05/22 15:30	79-01-6	L0
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/05/22 15:30	07/05/22 15:30	75-01-4	
o-Xylene	**11.5**	ug/L	1.00	0.174		1	07/05/22 15:30	07/05/22 15:30	95-47-6	
m&p-Xylene	**12.5**	ug/L	2.00	0.430		1	07/05/22 15:30	07/05/22 15:30	179601-23-1	
Xylene (Total)	**24.0**	ug/L	3.00	0.174		1	07/05/22 15:30	07/05/22 15:30	1330-20-7	
Surrogates										
Toluene-d8 (S)	97.4	%	80.0-120			1	07/05/22 15:30	07/05/22 15:30	2037-26-5	
1,2-Dichloroethane-d4 (S)	102	%	70.0-130			1	07/05/22 15:30	07/05/22 15:30	17060-07-0	
4-Bromofluorobenzene (S)	105	%	77.0-126			1	07/05/22 15:30	07/05/22 15:30	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.0040		1		06/26/22 11:21	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	**0.0018J**	mg/L	0.0040	0.0012		1	06/29/22 08:55	06/29/22 17:32	57-12-5	
EPA 420.4 Rev. 1	Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast									
Phenolics, Total Recoverable	**1620**	ug/L	300	125		5	07/01/22 13:30	07/05/22 16:25	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 31-DR **Lab ID: 20247389021** Collected: 06/20/22 11:20 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/27/22 09:58	06/28/22 02:45	309-00-2	G6
Surrogates										
Decachlorobiphenyl (S)	65.7	%	10.0-128			1	06/27/22 09:58	06/28/22 02:45	2051-24-3	
Tetrachloro-m-xylene (S)	61.4	%	10.0-127			1	06/27/22 09:58	06/28/22 02:45	877-09-8	
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/27/22 10:05	06/29/22 06:35	93-72-1	
Surrogates										
2,4-DCAA (S)	92.0	%	14.0-158			1	06/27/22 10:05	06/29/22 06:35	19719-28-9	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00063		1	06/24/22 06:35	06/28/22 00:08	7440-36-0	
Arsenic	**0.00024J**	mg/L	0.0010	0.00020		1	06/24/22 06:35	06/28/22 00:08	7440-38-2	
Barium	**0.36**	mg/L	0.0050	0.0018		5	06/24/22 06:35	06/28/22 00:26	7440-39-3	M1
Beryllium	ND	mg/L	0.0010	0.00012		1	06/24/22 06:35	06/28/22 00:08	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000080		1	06/24/22 06:35	06/28/22 00:08	7440-43-9	
Chromium	ND	mg/L	0.0010	0.00062		1	06/24/22 06:35	06/28/22 00:08	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000060		1	06/24/22 06:35	06/28/22 00:08	7440-48-4	
Copper	ND	mg/L	0.0030	0.00083		1	06/24/22 06:35	06/28/22 00:08	7440-50-8	
Lead	ND	mg/L	0.0010	0.000070		1	06/24/22 06:35	06/28/22 00:08	7439-92-1	
Nickel	ND	mg/L	0.0010	0.00056		1	06/24/22 06:35	06/28/22 00:08	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00037		1	06/24/22 06:35	06/28/22 00:08	7782-49-2	
Silver	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/28/22 00:08	7440-22-4	
Thallium	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/28/22 00:08	7440-28-0	
Tin	ND	mg/L	0.0060	0.00043		1	06/24/22 06:35	06/28/22 00:08	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.0023		1	06/24/22 06:35	06/28/22 00:08	7440-62-2	
Zinc	ND	mg/L	0.010	0.0044		1	06/24/22 06:35	06/28/22 00:08	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/24/22 06:30	06/24/22 13:32	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	**4.64**	ug/L	1.00	0.0886		1	06/25/22 05:08	06/26/22 15:52	83-32-9	
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/25/22 05:08	06/26/22 15:52	208-96-8	
Anthracene	ND	ug/L	1.00	0.0804		1	06/25/22 05:08	06/26/22 15:52	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/25/22 05:08	06/26/22 15:52	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/25/22 05:08	06/26/22 15:52	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/25/22 05:08	06/26/22 15:52	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/25/22 05:08	06/26/22 15:52	191-24-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 31-DR **Lab ID: 20247389021** Collected: 06/20/22 11:20 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/25/22 05:08	06/26/22 15:52	50-32-8	
Chrysene	ND	ug/L	1.00	0.130		1	06/25/22 05:08	06/26/22 15:52	218-01-9	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/25/22 05:08	06/26/22 15:52	132-64-9	
Fluoranthene	ND	ug/L	1.00	0.102		1	06/25/22 05:08	06/26/22 15:52	206-44-0	
Fluorene	ND	ug/L	1.00	0.0844		1	06/25/22 05:08	06/26/22 15:52	86-73-7	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/25/22 05:08	06/26/22 15:52	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/25/22 05:08	06/26/22 15:52	193-39-5	
1-Methylnaphthalene	**1.51**	ug/L	1.00	0.0790		1	06/25/22 05:08	06/26/22 15:52	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/25/22 05:08	06/26/22 15:52	91-57-6	
Naphthalene	ND	ug/L	1.00	0.159		1	06/25/22 05:08	06/26/22 15:52	91-20-3	
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/25/22 05:08	06/26/22 15:52	86-30-6	
Phenanthrene	ND	ug/L	1.00	0.112		1	06/25/22 05:08	06/26/22 15:52	85-01-8	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/25/22 05:08	06/26/22 15:52	117-81-7	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/25/22 05:08	06/26/22 15:52	117-84-0	
Pyrene	ND	ug/L	1.00	0.107		1	06/25/22 05:08	06/26/22 15:52	129-00-0	
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/25/22 05:08	06/26/22 15:52	105-67-9	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/25/22 05:08	06/26/22 15:52		
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/25/22 05:08	06/26/22 15:52	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/25/22 05:08	06/26/22 15:52	108-95-2	
1-Naphthalenamine	**0.583J**	ug/L	10.0	0.289		1	06/25/22 05:08	06/27/22 20:59	134-32-7	J
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/25/22 05:08	06/27/22 20:59	91-59-8	
O-Toluidine	ND	ug/L	10.0	3.53		1	06/25/22 05:08	06/27/22 20:59	95-53-4	
Surrogates										
2-Fluorophenol (S)	33.5	%	10.0-120			1	06/25/22 05:08	06/26/22 15:52	367-12-4	
Phenol-d5 (S)	21.8	%	10.0-120			1	06/25/22 05:08	06/26/22 15:52	4165-62-2	
Nitrobenzene-d5 (S)	66.0	%	10.0-127			1	06/25/22 05:08	06/26/22 15:52	4165-60-0	
2-Fluorobiphenyl (S)	61.5	%	10.0-130			1	06/25/22 05:08	06/26/22 15:52	321-60-8	
2,4,6-Tribromophenol (S)	71.0	%	10.0-155			1	06/25/22 05:08	06/26/22 15:52	118-79-6	
Terphenyl-d14 (S)	70.2	%	10.0-128			1	06/25/22 05:08	06/26/22 15:52	1718-51-0	
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**1.43**	ug/L	0.400	0.0447		1	06/24/22 10:07	06/25/22 15:50	123-91-1	
Surrogates										
Nitrobenzene-d5 (S)	41.1	%	10.0-120			1	06/24/22 10:07	06/25/22 15:50	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/02/22 17:15	07/02/22 17:15	67-64-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 31-DR **Lab ID: 20247389021** Collected: 06/20/22 11:20 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Benzene	ND	ug/L	1.00	0.0941		1	07/02/22 17:15	07/02/22 17:15	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/02/22 17:15	07/02/22 17:15	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/02/22 17:15	07/02/22 17:15	75-15-0	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/02/22 17:15	07/02/22 17:15	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/02/22 17:15	07/02/22 17:15	67-66-3	
1,1-Dichloroethane	**0.462J**	ug/L	1.00	0.100		1	07/02/22 17:15	07/02/22 17:15	75-34-3	J
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/02/22 17:15	07/02/22 17:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/02/22 17:15	07/02/22 17:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/02/22 17:15	07/02/22 17:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/02/22 17:15	07/02/22 17:15	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/02/22 17:15	07/02/22 17:15	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/02/22 17:15	07/02/22 17:15	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/02/22 17:15	07/02/22 17:15	79-01-6	
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/02/22 17:15	07/02/22 17:15	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/02/22 17:15	07/02/22 17:15	95-47-6	
m&p-Xylene	**0.560J**	ug/L	2.00	0.430		1	07/02/22 17:15	07/02/22 17:15	179601-23-1	J
Xylene (Total)	**0.560J**	ug/L	3.00	0.174		1	07/02/22 17:15	07/02/22 17:15	1330-20-7	J
Surrogates										
Toluene-d8 (S)	109	%	80.0-120			1	07/02/22 17:15	07/02/22 17:15	2037-26-5	
1,2-Dichloroethane-d4 (S)	101	%	70.0-130			1	07/02/22 17:15	07/02/22 17:15	17060-07-0	
4-Bromofluorobenzene (S)	99.0	%	77.0-126			1	07/02/22 17:15	07/02/22 17:15	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.0040		1		06/26/22 09:25	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	ND	mg/L	0.0040	0.0012		1	06/27/22 08:57	06/28/22 13:43	57-12-5	
EPA 420.4 Rev. 1	Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast									
Phenolics, Total Recoverable	**32.2J**	ug/L	60.0	25.0		1	06/28/22 10:19	06/30/22 13:48	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 31-IR **Lab ID: 20247389022** Collected: 06/20/22 10:00 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/27/22 09:58	06/28/22 02:58	309-00-2	G6
Surrogates										
Decachlorobiphenyl (S)	98.0	%	10.0-128			1	06/27/22 09:58	06/28/22 02:58	2051-24-3	
Tetrachloro-m-xylene (S)	90.1	%	10.0-127			1	06/27/22 09:58	06/28/22 02:58	877-09-8	
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/27/22 10:05	06/29/22 06:50	93-72-1	
Surrogates										
2,4-DCAA (S)	89.1	%	14.0-158			1	06/27/22 10:05	06/29/22 06:50	19719-28-9	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00063		1	06/24/22 06:35	06/28/22 00:32	7440-36-0	
Arsenic	**0.00027J**	mg/L	0.0010	0.00020		1	06/24/22 06:35	06/28/22 00:32	7440-38-2	
Barium	**0.054**	mg/L	0.0010	0.00036		1	06/24/22 06:35	06/28/22 00:32	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00012		1	06/24/22 06:35	06/28/22 00:32	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000080		1	06/24/22 06:35	06/28/22 00:32	7440-43-9	
Chromium	**0.0010J**	mg/L	0.0010	0.00062		1	06/24/22 06:35	06/28/22 00:32	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000060		1	06/24/22 06:35	06/28/22 00:32	7440-48-4	
Copper	**0.0016J**	mg/L	0.0030	0.00083		1	06/24/22 06:35	06/28/22 00:32	7440-50-8	
Lead	ND	mg/L	0.0010	0.000070		1	06/24/22 06:35	06/28/22 00:32	7439-92-1	
Nickel	ND	mg/L	0.0010	0.00056		1	06/24/22 06:35	06/28/22 00:32	7440-02-0	
Selenium	**0.00087J**	mg/L	0.0010	0.00037		1	06/24/22 06:35	06/28/22 00:32	7782-49-2	
Silver	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/28/22 00:32	7440-22-4	
Thallium	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/28/22 00:32	7440-28-0	
Tin	ND	mg/L	0.0060	0.00043		1	06/24/22 06:35	06/28/22 00:32	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.0023		1	06/24/22 06:35	06/28/22 00:32	7440-62-2	
Zinc	**0.012**	mg/L	0.010	0.0044		1	06/24/22 06:35	06/28/22 00:32	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/24/22 06:30	06/24/22 13:38	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	ND	ug/L	1.00	0.0886		1	06/25/22 05:08	06/26/22 16:14	83-32-9	
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/25/22 05:08	06/26/22 16:14	208-96-8	
Anthracene	ND	ug/L	1.00	0.0804		1	06/25/22 05:08	06/26/22 16:14	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/25/22 05:08	06/26/22 16:14	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/25/22 05:08	06/26/22 16:14	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/25/22 05:08	06/26/22 16:14	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/25/22 05:08	06/26/22 16:14	191-24-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 31-IR **Lab ID: 20247389022** Collected: 06/20/22 10:00 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/25/22 05:08	06/26/22 16:14	50-32-8	
Chrysene	ND	ug/L	1.00	0.130		1	06/25/22 05:08	06/26/22 16:14	218-01-9	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/25/22 05:08	06/26/22 16:14	132-64-9	
Fluoranthene	**0.344J**	ug/L	1.00	0.102		1	06/25/22 05:08	06/26/22 16:14	206-44-0	J
Fluorene	ND	ug/L	1.00	0.0844		1	06/25/22 05:08	06/26/22 16:14	86-73-7	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/25/22 05:08	06/26/22 16:14	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/25/22 05:08	06/26/22 16:14	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/25/22 05:08	06/26/22 16:14	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/25/22 05:08	06/26/22 16:14	91-57-6	
Naphthalene	ND	ug/L	1.00	0.159		1	06/25/22 05:08	06/26/22 16:14	91-20-3	
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/25/22 05:08	06/26/22 16:14	86-30-6	
Phenanthrene	ND	ug/L	1.00	0.112		1	06/25/22 05:08	06/26/22 16:14	85-01-8	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/25/22 05:08	06/26/22 16:14	117-81-7	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/25/22 05:08	06/26/22 16:14	117-84-0	
Pyrene	**0.276J**	ug/L	1.00	0.107		1	06/25/22 05:08	06/26/22 16:14	129-00-0	J
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/25/22 05:08	06/26/22 16:14	105-67-9	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/25/22 05:08	06/26/22 16:14		
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/25/22 05:08	06/26/22 16:14	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/25/22 05:08	06/26/22 16:14	108-95-2	
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/25/22 05:08	06/27/22 21:19	134-32-7	
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/25/22 05:08	06/27/22 21:19	91-59-8	
O-Toluidine	ND	ug/L	10.0	3.53		1	06/25/22 05:08	06/27/22 21:19	95-53-4	
Surrogates										
2-Fluorophenol (S)	22.7	%	10.0-120			1	06/25/22 05:08	06/26/22 16:14	367-12-4	
Phenol-d5 (S)	16.1	%	10.0-120			1	06/25/22 05:08	06/26/22 16:14	4165-62-2	
Nitrobenzene-d5 (S)	61.5	%	10.0-127			1	06/25/22 05:08	06/26/22 16:14	4165-60-0	
2-Fluorobiphenyl (S)	60.5	%	10.0-130			1	06/25/22 05:08	06/26/22 16:14	321-60-8	
2,4,6-Tribromophenol (S)	50.5	%	10.0-155			1	06/25/22 05:08	06/26/22 16:14	118-79-6	
Terphenyl-d14 (S)	62.0	%	10.0-128			1	06/25/22 05:08	06/26/22 16:14	1718-51-0	
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.173J**	ug/L	0.400	0.0447		1	06/24/22 10:07	06/25/22 16:10	123-91-1	B,J
Surrogates										
Nitrobenzene-d5 (S)	68.8	%	10.0-120			1	06/24/22 10:07	06/25/22 16:10	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/02/22 17:37	07/02/22 17:37	67-64-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 31-IR **Lab ID: 20247389022** Collected: 06/20/22 10:00 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Benzene	ND	ug/L	1.00	0.0941		1	07/02/22 17:37	07/02/22 17:37	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/02/22 17:37	07/02/22 17:37	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/02/22 17:37	07/02/22 17:37	75-15-0	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/02/22 17:37	07/02/22 17:37	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/02/22 17:37	07/02/22 17:37	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/02/22 17:37	07/02/22 17:37	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/02/22 17:37	07/02/22 17:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/02/22 17:37	07/02/22 17:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/02/22 17:37	07/02/22 17:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/02/22 17:37	07/02/22 17:37	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/02/22 17:37	07/02/22 17:37	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/02/22 17:37	07/02/22 17:37	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/02/22 17:37	07/02/22 17:37	79-01-6	
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/02/22 17:37	07/02/22 17:37	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/02/22 17:37	07/02/22 17:37	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/02/22 17:37	07/02/22 17:37	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/02/22 17:37	07/02/22 17:37	1330-20-7	
Surrogates										
Toluene-d8 (S)	109	%	80.0-120			1	07/02/22 17:37	07/02/22 17:37	2037-26-5	
1,2-Dichloroethane-d4 (S)	105	%	70.0-130			1	07/02/22 17:37	07/02/22 17:37	17060-07-0	
4-Bromofluorobenzene (S)	102	%	77.0-126			1	07/02/22 17:37	07/02/22 17:37	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.0040		1		06/26/22 09:45	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	**0.0012J**	mg/L	0.0040	0.0012		1	06/27/22 08:57	06/28/22 13:45	57-12-5	
EPA 420.4 Rev. 1	Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast									
Phenolics, Total Recoverable	ND	ug/L	60.0	25.0		1	06/28/22 10:19	06/30/22 13:49	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 32-I **Lab ID: 20247389023** Collected: 06/20/22 11:45 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/27/22 09:58	06/28/22 03:11	309-00-2	G6
Surrogates										
Decachlorobiphenyl (S)	54.5	%	10.0-128			1	06/27/22 09:58	06/28/22 03:11	2051-24-3	
Tetrachloro-m-xylene (S)	71.3	%	10.0-127			1	06/27/22 09:58	06/28/22 03:11	877-09-8	
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/27/22 10:05	06/29/22 07:49	93-72-1	
Surrogates										
2,4-DCAA (S)	94.1	%	14.0-158			1	06/27/22 10:05	06/29/22 07:49	19719-28-9	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00063		1	06/24/22 06:35	06/28/22 00:38	7440-36-0	
Arsenic	**0.0076**	mg/L	0.0010	0.00020		1	06/24/22 06:35	06/28/22 00:38	7440-38-2	
Barium	**0.060**	mg/L	0.0010	0.00036		1	06/24/22 06:35	06/28/22 00:38	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00012		1	06/24/22 06:35	06/28/22 00:38	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000080		1	06/24/22 06:35	06/28/22 00:38	7440-43-9	
Chromium	ND	mg/L	0.0010	0.00062		1	06/24/22 06:35	06/28/22 00:38	7440-47-3	
Cobalt	**0.0080**	mg/L	0.0010	0.000060		1	06/24/22 06:35	06/28/22 00:38	7440-48-4	
Copper	**0.0024J**	mg/L	0.0030	0.00083		1	06/24/22 06:35	06/28/22 00:38	7440-50-8	
Lead	ND	mg/L	0.0010	0.000070		1	06/24/22 06:35	06/28/22 00:38	7439-92-1	
Nickel	**0.0013**	mg/L	0.0010	0.00056		1	06/24/22 06:35	06/28/22 00:38	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00037		1	06/24/22 06:35	06/28/22 00:38	7782-49-2	
Silver	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/28/22 00:38	7440-22-4	
Thallium	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/28/22 00:38	7440-28-0	
Tin	ND	mg/L	0.0060	0.00043		1	06/24/22 06:35	06/28/22 00:38	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.0023		1	06/24/22 06:35	06/28/22 00:38	7440-62-2	
Zinc	**0.0093J**	mg/L	0.010	0.0044		1	06/24/22 06:35	06/28/22 00:38	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/24/22 06:30	06/24/22 13:40	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	ND	ug/L	1.00	0.0886		1	06/25/22 05:08	06/26/22 16:36	83-32-9	
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/25/22 05:08	06/26/22 16:36	208-96-8	
Anthracene	ND	ug/L	1.00	0.0804		1	06/25/22 05:08	06/26/22 16:36	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/25/22 05:08	06/26/22 16:36	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/25/22 05:08	06/26/22 16:36	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/25/22 05:08	06/26/22 16:36	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/25/22 05:08	06/26/22 16:36	191-24-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 32-I **Lab ID: 20247389023** Collected: 06/20/22 11:45 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/25/22 05:08	06/26/22 16:36	50-32-8	
Chrysene	ND	ug/L	1.00	0.130		1	06/25/22 05:08	06/26/22 16:36	218-01-9	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/25/22 05:08	06/26/22 16:36	132-64-9	
Fluoranthene	ND	ug/L	1.00	0.102		1	06/25/22 05:08	06/26/22 16:36	206-44-0	
Fluorene	ND	ug/L	1.00	0.0844		1	06/25/22 05:08	06/26/22 16:36	86-73-7	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/25/22 05:08	06/26/22 16:36	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/25/22 05:08	06/26/22 16:36	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/25/22 05:08	06/26/22 16:36	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/25/22 05:08	06/26/22 16:36	91-57-6	
Naphthalene	ND	ug/L	1.00	0.159		1	06/25/22 05:08	06/26/22 16:36	91-20-3	
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/25/22 05:08	06/26/22 16:36	86-30-6	
Phenanthrene	ND	ug/L	1.00	0.112		1	06/25/22 05:08	06/26/22 16:36	85-01-8	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/25/22 05:08	06/26/22 16:36	117-81-7	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/25/22 05:08	06/26/22 16:36	117-84-0	
Pyrene	ND	ug/L	1.00	0.107		1	06/25/22 05:08	06/26/22 16:36	129-00-0	
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/25/22 05:08	06/26/22 16:36	105-67-9	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/25/22 05:08	06/26/22 16:36		
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/25/22 05:08	06/26/22 16:36	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/25/22 05:08	06/26/22 16:36	108-95-2	
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/25/22 05:08	06/27/22 21:40	134-32-7	
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/25/22 05:08	06/27/22 21:40	91-59-8	
O-Toluidine	ND	ug/L	10.0	3.53		1	06/25/22 05:08	06/27/22 21:40	95-53-4	
Surrogates										
2-Fluorophenol (S)	28.1	%	10.0-120			1	06/25/22 05:08	06/26/22 16:36	367-12-4	
Phenol-d5 (S)	17.3	%	10.0-120			1	06/25/22 05:08	06/26/22 16:36	4165-62-2	
Nitrobenzene-d5 (S)	61.0	%	10.0-127			1	06/25/22 05:08	06/26/22 16:36	4165-60-0	
2-Fluorobiphenyl (S)	56.0	%	10.0-130			1	06/25/22 05:08	06/26/22 16:36	321-60-8	
2,4,6-Tribromophenol (S)	59.5	%	10.0-155			1	06/25/22 05:08	06/26/22 16:36	118-79-6	
Terphenyl-d14 (S)	62.2	%	10.0-128			1	06/25/22 05:08	06/26/22 16:36	1718-51-0	
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**6.47**	ug/L	0.400	0.0447		1	06/24/22 10:07	06/25/22 16:29	123-91-1	
Surrogates										
Nitrobenzene-d5 (S)	73.7	%	10.0-120			1	06/24/22 10:07	06/25/22 16:29	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/02/22 17:59	07/02/22 17:59	67-64-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 32-I **Lab ID: 20247389023** Collected: 06/20/22 11:45 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Benzene	ND	ug/L	1.00	0.0941		1	07/02/22 17:59	07/02/22 17:59	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/02/22 17:59	07/02/22 17:59	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/02/22 17:59	07/02/22 17:59	75-15-0	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/02/22 17:59	07/02/22 17:59	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/02/22 17:59	07/02/22 17:59	67-66-3	
1,1-Dichloroethane	**1.71**	ug/L	1.00	0.100		1	07/02/22 17:59	07/02/22 17:59	75-34-3	
1,1-Dichloroethene	**0.315J**	ug/L	1.00	0.188		1	07/02/22 17:59	07/02/22 17:59	75-35-4	J
cis-1,2-Dichloroethene	**3.19**	ug/L	1.00	0.126		1	07/02/22 17:59	07/02/22 17:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/02/22 17:59	07/02/22 17:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/02/22 17:59	07/02/22 17:59	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/02/22 17:59	07/02/22 17:59	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/02/22 17:59	07/02/22 17:59	108-88-3	
Trichloroethene	**1.67**	ug/L	1.00	0.190		1	07/02/22 17:59	07/02/22 17:59	79-01-6	
Vinyl chloride	**0.420J**	ug/L	1.00	0.234		1	07/02/22 17:59	07/02/22 17:59	75-01-4	J
o-Xylene	ND	ug/L	1.00	0.174		1	07/02/22 17:59	07/02/22 17:59	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/02/22 17:59	07/02/22 17:59	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/02/22 17:59	07/02/22 17:59	1330-20-7	
Surrogates										
Toluene-d8 (S)	110	%	80.0-120			1	07/02/22 17:59	07/02/22 17:59	2037-26-5	
1,2-Dichloroethane-d4 (S)	104	%	70.0-130			1	07/02/22 17:59	07/02/22 17:59	17060-07-0	
4-Bromofluorobenzene (S)	101	%	77.0-126			1	07/02/22 17:59	07/02/22 17:59	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.0040		1		06/26/22 09:46	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	**0.0023J**	mg/L	0.0040	0.0012		1	06/27/22 08:57	06/28/22 13:47	57-12-5	
EPA 420.4 Rev. 1	Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast									
Phenolics, Total Recoverable	ND	ug/L	60.0	25.0		1	06/28/22 10:19	06/30/22 13:50	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 32-S **Lab ID: 20247389024** Collected: 06/20/22 12:52 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/27/22 09:58	06/28/22 03:23	309-00-2	G6
Surrogates										
Decachlorobiphenyl (S)	74.5	%	10.0-128			1	06/27/22 09:58	06/28/22 03:23	2051-24-3	
Tetrachloro-m-xylene (S)	77.6	%	10.0-127			1	06/27/22 09:58	06/28/22 03:23	877-09-8	
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/27/22 10:05	06/29/22 08:04	93-72-1	
Surrogates										
2,4-DCAA (S)	87.8	%	14.0-158			1	06/27/22 10:05	06/29/22 08:04	19719-28-9	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00063		1	06/24/22 06:35	06/28/22 00:44	7440-36-0	
Arsenic	ND	mg/L	0.0010	0.00020		1	06/24/22 06:35	06/28/22 00:44	7440-38-2	
Barium	**0.080**	mg/L	0.0010	0.00036		1	06/24/22 06:35	06/28/22 00:44	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00012		1	06/24/22 06:35	06/28/22 00:44	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000080		1	06/24/22 06:35	06/28/22 00:44	7440-43-9	
Chromium	**0.00068J**	mg/L	0.0010	0.00062		1	06/24/22 06:35	06/28/22 00:44	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000060		1	06/24/22 06:35	06/28/22 00:44	7440-48-4	
Copper	ND	mg/L	0.0030	0.00083		1	06/24/22 06:35	06/28/22 00:44	7440-50-8	
Lead	ND	mg/L	0.0010	0.000070		1	06/24/22 06:35	06/28/22 00:44	7439-92-1	
Nickel	ND	mg/L	0.0010	0.00056		1	06/24/22 06:35	06/28/22 00:44	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00037		1	06/24/22 06:35	06/28/22 00:44	7782-49-2	
Silver	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/28/22 00:44	7440-22-4	
Thallium	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/28/22 00:44	7440-28-0	
Tin	ND	mg/L	0.0060	0.00043		1	06/24/22 06:35	06/28/22 00:44	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.0023		1	06/24/22 06:35	06/28/22 00:44	7440-62-2	
Zinc	ND	mg/L	0.010	0.0044		1	06/24/22 06:35	06/28/22 00:44	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/24/22 06:30	06/24/22 13:42	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	ND	ug/L	1.00	0.0886		1	06/25/22 05:08	06/26/22 16:57	83-32-9	
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/25/22 05:08	06/26/22 16:57	208-96-8	
Anthracene	ND	ug/L	1.00	0.0804		1	06/25/22 05:08	06/26/22 16:57	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/25/22 05:08	06/26/22 16:57	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/25/22 05:08	06/26/22 16:57	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/25/22 05:08	06/26/22 16:57	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/25/22 05:08	06/26/22 16:57	191-24-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 32-S **Lab ID: 20247389024** Collected: 06/20/22 12:52 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/25/22 05:08	06/26/22 16:57	50-32-8	
Chrysene	ND	ug/L	1.00	0.130		1	06/25/22 05:08	06/26/22 16:57	218-01-9	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/25/22 05:08	06/26/22 16:57	132-64-9	
Fluoranthene	ND	ug/L	1.00	0.102		1	06/25/22 05:08	06/26/22 16:57	206-44-0	
Fluorene	ND	ug/L	1.00	0.0844		1	06/25/22 05:08	06/26/22 16:57	86-73-7	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/25/22 05:08	06/26/22 16:57	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/25/22 05:08	06/26/22 16:57	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/25/22 05:08	06/26/22 16:57	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/25/22 05:08	06/26/22 16:57	91-57-6	
Naphthalene	ND	ug/L	1.00	0.159		1	06/25/22 05:08	06/26/22 16:57	91-20-3	
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/25/22 05:08	06/26/22 16:57	86-30-6	
Phenanthrene	ND	ug/L	1.00	0.112		1	06/25/22 05:08	06/26/22 16:57	85-01-8	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/25/22 05:08	06/26/22 16:57	117-81-7	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/25/22 05:08	06/26/22 16:57	117-84-0	
Pyrene	ND	ug/L	1.00	0.107		1	06/25/22 05:08	06/26/22 16:57	129-00-0	
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/25/22 05:08	06/26/22 16:57	105-67-9	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/25/22 05:08	06/26/22 16:57		
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/25/22 05:08	06/26/22 16:57	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/25/22 05:08	06/26/22 16:57	108-95-2	
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/25/22 05:08	06/27/22 22:01	134-32-7	
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/25/22 05:08	06/27/22 22:01	91-59-8	
O-Toluidine	ND	ug/L	10.0	3.53		1	06/25/22 05:08	06/27/22 22:01	95-53-4	
Surrogates										
2-Fluorophenol (S)	23.3	%	10.0-120			1	06/25/22 05:08	06/26/22 16:57	367-12-4	
Phenol-d5 (S)	14.1	%	10.0-120			1	06/25/22 05:08	06/26/22 16:57	4165-62-2	
Nitrobenzene-d5 (S)	52.2	%	10.0-127			1	06/25/22 05:08	06/26/22 16:57	4165-60-0	
2-Fluorobiphenyl (S)	53.4	%	10.0-130			1	06/25/22 05:08	06/26/22 16:57	321-60-8	
2,4,6-Tribromophenol (S)	57.0	%	10.0-155			1	06/25/22 05:08	06/26/22 16:57	118-79-6	
Terphenyl-d14 (S)	67.3	%	10.0-128			1	06/25/22 05:08	06/26/22 16:57	1718-51-0	
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	ND	ug/L	0.400	0.0447		1	06/24/22 10:07	06/25/22 16:49	123-91-1	
Surrogates										
Nitrobenzene-d5 (S)	64.3	%	10.0-120			1	06/24/22 10:07	06/25/22 16:49	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/02/22 18:21	07/02/22 18:21	67-64-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: 32-S **Lab ID: 20247389024** Collected: 06/20/22 12:52 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Benzene	ND	ug/L	1.00	0.0941		1	07/02/22 18:21	07/02/22 18:21	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/02/22 18:21	07/02/22 18:21	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/02/22 18:21	07/02/22 18:21	75-15-0	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/02/22 18:21	07/02/22 18:21	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/02/22 18:21	07/02/22 18:21	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/02/22 18:21	07/02/22 18:21	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/02/22 18:21	07/02/22 18:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/02/22 18:21	07/02/22 18:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/02/22 18:21	07/02/22 18:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/02/22 18:21	07/02/22 18:21	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/02/22 18:21	07/02/22 18:21	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/02/22 18:21	07/02/22 18:21	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/02/22 18:21	07/02/22 18:21	79-01-6	
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/02/22 18:21	07/02/22 18:21	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/02/22 18:21	07/02/22 18:21	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/02/22 18:21	07/02/22 18:21	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/02/22 18:21	07/02/22 18:21	1330-20-7	
Surrogates										
Toluene-d8 (S)	109	%	80.0-120			1	07/02/22 18:21	07/02/22 18:21	2037-26-5	
1,2-Dichloroethane-d4 (S)	104	%	70.0-130			1	07/02/22 18:21	07/02/22 18:21	17060-07-0	
4-Bromofluorobenzene (S)	104	%	77.0-126			1	07/02/22 18:21	07/02/22 18:21	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	**0.042**	mg/L	0.020	0.0040		1		06/26/22 09:47	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	**0.0089**	mg/L	0.0040	0.0012		1	06/24/22 10:48	06/27/22 10:05	57-12-5	
EPA 420.4 Rev. 1	Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast									
Phenolics, Total Recoverable	ND	ug/L	60.0	25.0		1	06/28/22 10:19	06/30/22 13:51	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: Equipment Blank 1 **Lab ID: 20247389025** Collected: 06/20/22 07:25 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/27/22 09:58	06/28/22 03:36	309-00-2	G6
Surrogates										
Decachlorobiphenyl (S)	96.6	%	10.0-128			1	06/27/22 09:58	06/28/22 03:36	2051-24-3	
Tetrachloro-m-xylene (S)	79.5	%	10.0-127			1	06/27/22 09:58	06/28/22 03:36	877-09-8	
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/27/22 10:05	06/29/22 08:35	93-72-1	
Surrogates										
2,4-DCAA (S)	96.4	%	14.0-158			1	06/27/22 10:05	06/29/22 08:35	19719-28-9	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00063		1	06/24/22 06:35	06/27/22 20:32	7440-36-0	
Arsenic	ND	mg/L	0.0010	0.00020		1	06/24/22 06:35	06/27/22 20:32	7440-38-2	
Barium	ND	mg/L	0.0010	0.00036		1	06/24/22 06:35	06/27/22 20:32	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00012		1	06/24/22 06:35	06/27/22 20:32	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000080		1	06/24/22 06:35	06/27/22 20:32	7440-43-9	
Chromium	ND	mg/L	0.0010	0.00062		1	06/24/22 06:35	06/27/22 20:32	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000060		1	06/24/22 06:35	06/27/22 20:32	7440-48-4	
Copper	ND	mg/L	0.0030	0.00083		1	06/24/22 06:35	06/27/22 20:32	7440-50-8	
Lead	ND	mg/L	0.0010	0.000070		1	06/24/22 06:35	06/27/22 20:32	7439-92-1	
Nickel	ND	mg/L	0.0010	0.00056		1	06/24/22 06:35	06/27/22 20:32	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00037		1	06/24/22 06:35	06/27/22 20:32	7782-49-2	
Silver	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 20:32	7440-22-4	
Thallium	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 20:32	7440-28-0	
Tin	ND	mg/L	0.0060	0.00043		1	06/24/22 06:35	06/27/22 20:32	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.0023		1	06/24/22 06:35	06/27/22 20:32	7440-62-2	
Zinc	ND	mg/L	0.010	0.0044		1	06/24/22 06:35	06/27/22 20:32	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/24/22 06:30	06/24/22 13:44	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	ND	ug/L	1.00	0.0886		1	06/25/22 05:08	06/26/22 17:19	83-32-9	
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/25/22 05:08	06/26/22 17:19	208-96-8	
Anthracene	ND	ug/L	1.00	0.0804		1	06/25/22 05:08	06/26/22 17:19	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/25/22 05:08	06/26/22 17:19	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/25/22 05:08	06/26/22 17:19	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/25/22 05:08	06/26/22 17:19	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/25/22 05:08	06/26/22 17:19	191-24-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: Equipment Blank 1 **Lab ID: 20247389025** Collected: 06/20/22 07:25 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/25/22 05:08	06/26/22 17:19	50-32-8	
Chrysene	ND	ug/L	1.00	0.130		1	06/25/22 05:08	06/26/22 17:19	218-01-9	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/25/22 05:08	06/26/22 17:19	132-64-9	
Fluoranthene	ND	ug/L	1.00	0.102		1	06/25/22 05:08	06/26/22 17:19	206-44-0	
Fluorene	ND	ug/L	1.00	0.0844		1	06/25/22 05:08	06/26/22 17:19	86-73-7	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/25/22 05:08	06/26/22 17:19	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/25/22 05:08	06/26/22 17:19	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/25/22 05:08	06/26/22 17:19	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/25/22 05:08	06/26/22 17:19	91-57-6	
Naphthalene	ND	ug/L	1.00	0.159		1	06/25/22 05:08	06/26/22 17:19	91-20-3	
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/25/22 05:08	06/26/22 17:19	86-30-6	
Phenanthrene	ND	ug/L	1.00	0.112		1	06/25/22 05:08	06/26/22 17:19	85-01-8	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/25/22 05:08	06/26/22 17:19	117-81-7	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/25/22 05:08	06/26/22 17:19	117-84-0	
Pyrene	ND	ug/L	1.00	0.107		1	06/25/22 05:08	06/26/22 17:19	129-00-0	
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/25/22 05:08	06/26/22 17:19	105-67-9	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/25/22 05:08	06/26/22 17:19		
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/25/22 05:08	06/26/22 17:19	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/25/22 05:08	06/26/22 17:19	108-95-2	
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/25/22 05:08	06/27/22 22:22	134-32-7	
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/25/22 05:08	06/27/22 22:22	91-59-8	
O-Toluidine	ND	ug/L	10.0	3.53		1	06/25/22 05:08	06/27/22 22:22	95-53-4	
Surrogates										
2-Fluorophenol (S)	23.4	%	10.0-120			1	06/25/22 05:08	06/26/22 17:19	367-12-4	
Phenol-d5 (S)	14.6	%	10.0-120			1	06/25/22 05:08	06/26/22 17:19	4165-62-2	
Nitrobenzene-d5 (S)	62.1	%	10.0-127			1	06/25/22 05:08	06/26/22 17:19	4165-60-0	
2-Fluorobiphenyl (S)	62.3	%	10.0-130			1	06/25/22 05:08	06/26/22 17:19	321-60-8	
2,4,6-Tribromophenol (S)	51.5	%	10.0-155			1	06/25/22 05:08	06/26/22 17:19	118-79-6	
Terphenyl-d14 (S)	69.1	%	10.0-128			1	06/25/22 05:08	06/26/22 17:19	1718-51-0	
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.147J**	ug/L	0.400	0.0447		1	06/24/22 10:07	06/25/22 17:08	123-91-1	B,J
Surrogates										
Nitrobenzene-d5 (S)	53.3	%	10.0-120			1	06/24/22 10:07	06/25/22 17:08	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/02/22 18:43	07/02/22 18:43	67-64-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: Equipment Blank 1 **Lab ID: 20247389025** Collected: 06/20/22 07:25 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Benzene	ND	ug/L	1.00	0.0941		1	07/02/22 18:43	07/02/22 18:43	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/02/22 18:43	07/02/22 18:43	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/02/22 18:43	07/02/22 18:43	75-15-0	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/02/22 18:43	07/02/22 18:43	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/02/22 18:43	07/02/22 18:43	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/02/22 18:43	07/02/22 18:43	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/02/22 18:43	07/02/22 18:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/02/22 18:43	07/02/22 18:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/02/22 18:43	07/02/22 18:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/02/22 18:43	07/02/22 18:43	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/02/22 18:43	07/02/22 18:43	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/02/22 18:43	07/02/22 18:43	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/02/22 18:43	07/02/22 18:43	79-01-6	
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/02/22 18:43	07/02/22 18:43	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/02/22 18:43	07/02/22 18:43	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/02/22 18:43	07/02/22 18:43	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/02/22 18:43	07/02/22 18:43	1330-20-7	
Surrogates										
Toluene-d8 (S)	108	%	80.0-120			1	07/02/22 18:43	07/02/22 18:43	2037-26-5	
1,2-Dichloroethane-d4 (S)	106	%	70.0-130			1	07/02/22 18:43	07/02/22 18:43	17060-07-0	
4-Bromofluorobenzene (S)	99.7	%	77.0-126			1	07/02/22 18:43	07/02/22 18:43	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.0040		1		06/26/22 09:47	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	ND	mg/L	0.0040	0.0012		1	06/24/22 10:48	06/27/22 10:08	57-12-5	
EPA 420.4 Rev. 1	Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast									
Phenolics, Total Recoverable	ND	ug/L	60.0	25.0		1	06/28/22 10:19	06/30/22 13:51	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: Equipment Blank 2 **Lab ID: 20247389026** Collected: 06/20/22 07:45 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/27/22 09:58	06/28/22 03:49	309-00-2	G6
Surrogates										
Decachlorobiphenyl (S)	75.2	%	10.0-128			1	06/27/22 09:58	06/28/22 03:49	2051-24-3	
Tetrachloro-m-xylene (S)	69.8	%	10.0-127			1	06/27/22 09:58	06/28/22 03:49	877-09-8	
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/27/22 10:05	06/29/22 08:50	93-72-1	
Surrogates										
2,4-DCAA (S)	96.8	%	14.0-158			1	06/27/22 10:05	06/29/22 08:50	19719-28-9	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00063		1	06/24/22 06:35	06/27/22 20:38	7440-36-0	
Arsenic	ND	mg/L	0.0010	0.00020		1	06/24/22 06:35	06/27/22 20:38	7440-38-2	
Barium	**0.00038J**	mg/L	0.0010	0.00036		1	06/24/22 06:35	06/27/22 20:38	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00012		1	06/24/22 06:35	06/27/22 20:38	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000080		1	06/24/22 06:35	06/27/22 20:38	7440-43-9	
Chromium	**0.00084J**	mg/L	0.0010	0.00062		1	06/24/22 06:35	06/27/22 20:38	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000060		1	06/24/22 06:35	06/27/22 20:38	7440-48-4	
Copper	ND	mg/L	0.0030	0.00083		1	06/24/22 06:35	06/27/22 20:38	7440-50-8	
Lead	ND	mg/L	0.0010	0.000070		1	06/24/22 06:35	06/27/22 20:38	7439-92-1	
Nickel	**0.00068J**	mg/L	0.0010	0.00056		1	06/24/22 06:35	06/27/22 20:38	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00037		1	06/24/22 06:35	06/27/22 20:38	7782-49-2	
Silver	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 20:38	7440-22-4	
Thallium	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 20:38	7440-28-0	
Tin	ND	mg/L	0.0060	0.00043		1	06/24/22 06:35	06/27/22 20:38	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.0023		1	06/24/22 06:35	06/27/22 20:38	7440-62-2	
Zinc	**0.0086J**	mg/L	0.010	0.0044		1	06/24/22 06:35	06/27/22 20:38	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/24/22 06:30	06/24/22 13:46	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	ND	ug/L	1.00	0.0886		1	06/25/22 05:08	06/26/22 17:41	83-32-9	
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/25/22 05:08	06/26/22 17:41	208-96-8	
Anthracene	ND	ug/L	1.00	0.0804		1	06/25/22 05:08	06/26/22 17:41	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/25/22 05:08	06/26/22 17:41	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/25/22 05:08	06/26/22 17:41	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/25/22 05:08	06/26/22 17:41	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/25/22 05:08	06/26/22 17:41	191-24-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: Equipment Blank 2 **Lab ID: 20247389026** Collected: 06/20/22 07:45 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/25/22 05:08	06/26/22 17:41	50-32-8	
Chrysene	ND	ug/L	1.00	0.130		1	06/25/22 05:08	06/26/22 17:41	218-01-9	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/25/22 05:08	06/26/22 17:41	132-64-9	
Fluoranthene	ND	ug/L	1.00	0.102		1	06/25/22 05:08	06/26/22 17:41	206-44-0	
Fluorene	ND	ug/L	1.00	0.0844		1	06/25/22 05:08	06/26/22 17:41	86-73-7	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/25/22 05:08	06/26/22 17:41	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/25/22 05:08	06/26/22 17:41	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/25/22 05:08	06/26/22 17:41	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/25/22 05:08	06/26/22 17:41	91-57-6	
Naphthalene	ND	ug/L	1.00	0.159		1	06/25/22 05:08	06/26/22 17:41	91-20-3	
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/25/22 05:08	06/26/22 17:41	86-30-6	
Phenanthrene	ND	ug/L	1.00	0.112		1	06/25/22 05:08	06/26/22 17:41	85-01-8	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/25/22 05:08	06/26/22 17:41	117-81-7	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/25/22 05:08	06/26/22 17:41	117-84-0	
Pyrene	ND	ug/L	1.00	0.107		1	06/25/22 05:08	06/26/22 17:41	129-00-0	
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/25/22 05:08	06/26/22 17:41	105-67-9	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/25/22 05:08	06/26/22 17:41		
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/25/22 05:08	06/26/22 17:41	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/25/22 05:08	06/26/22 17:41	108-95-2	
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/25/22 05:08	06/27/22 22:42	134-32-7	
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/25/22 05:08	06/27/22 22:42	91-59-8	
O-Toluidine	ND	ug/L	10.0	3.53		1	06/25/22 05:08	06/27/22 22:42	95-53-4	
Surrogates										
2-Fluorophenol (S)	24.0	%	10.0-120			1	06/25/22 05:08	06/26/22 17:41	367-12-4	
Phenol-d5 (S)	16.7	%	10.0-120			1	06/25/22 05:08	06/26/22 17:41	4165-62-2	
Nitrobenzene-d5 (S)	64.4	%	10.0-127			1	06/25/22 05:08	06/26/22 17:41	4165-60-0	
2-Fluorobiphenyl (S)	62.7	%	10.0-130			1	06/25/22 05:08	06/26/22 17:41	321-60-8	
2,4,6-Tribromophenol (S)	61.5	%	10.0-155			1	06/25/22 05:08	06/26/22 17:41	118-79-6	
Terphenyl-d14 (S)	69.6	%	10.0-128			1	06/25/22 05:08	06/26/22 17:41	1718-51-0	
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.138J**	ug/L	0.400	0.0447		1	06/27/22 05:43	06/27/22 16:36	123-91-1	B,J
Surrogates										
Nitrobenzene-d5 (S)	59.6	%	10.0-120			1	06/27/22 05:43	06/27/22 16:36	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/02/22 19:05	07/02/22 19:05	67-64-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: Equipment Blank 2 **Lab ID: 20247389026** Collected: 06/20/22 07:45 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Benzene	ND	ug/L	1.00	0.0941		1	07/02/22 19:05	07/02/22 19:05	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/02/22 19:05	07/02/22 19:05	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/02/22 19:05	07/02/22 19:05	75-15-0	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/02/22 19:05	07/02/22 19:05	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/02/22 19:05	07/02/22 19:05	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/02/22 19:05	07/02/22 19:05	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/02/22 19:05	07/02/22 19:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/02/22 19:05	07/02/22 19:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/02/22 19:05	07/02/22 19:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/02/22 19:05	07/02/22 19:05	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/02/22 19:05	07/02/22 19:05	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/02/22 19:05	07/02/22 19:05	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/02/22 19:05	07/02/22 19:05	79-01-6	
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/02/22 19:05	07/02/22 19:05	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/02/22 19:05	07/02/22 19:05	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/02/22 19:05	07/02/22 19:05	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/02/22 19:05	07/02/22 19:05	1330-20-7	
Surrogates										
Toluene-d8 (S)	110	%	80.0-120			1	07/02/22 19:05	07/02/22 19:05	2037-26-5	
1,2-Dichloroethane-d4 (S)	104	%	70.0-130			1	07/02/22 19:05	07/02/22 19:05	17060-07-0	
4-Bromofluorobenzene (S)	101	%	77.0-126			1	07/02/22 19:05	07/02/22 19:05	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.0040		1		06/26/22 09:48	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	**0.0084**	mg/L	0.0040	0.0012		1	06/24/22 10:48	06/27/22 10:10	57-12-5	
EPA 420.4 Rev. 1	Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast									
Phenolics, Total Recoverable	ND	ug/L	60.0	25.0		1	06/28/22 10:19	06/30/22 13:53	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: Equipment Blank 3 **Lab ID: 20247389027** Collected: 06/20/22 08:05 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/27/22 09:58	06/28/22 04:02	309-00-2	G6
Surrogates										
Decachlorobiphenyl (S)	40.3	%	10.0-128			1	06/27/22 09:58	06/28/22 04:02	2051-24-3	
Tetrachloro-m-xylene (S)	54.6	%	10.0-127			1	06/27/22 09:58	06/28/22 04:02	877-09-8	
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/27/22 10:05	06/29/22 09:05	93-72-1	
Surrogates										
2,4-DCAA (S)	92.6	%	14.0-158			1	06/27/22 10:05	06/29/22 09:05	19719-28-9	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00063		1	06/24/22 06:35	06/27/22 20:44	7440-36-0	
Arsenic	ND	mg/L	0.0010	0.00020		1	06/24/22 06:35	06/27/22 20:44	7440-38-2	
Barium	**0.00039J**	mg/L	0.0010	0.00036		1	06/24/22 06:35	06/27/22 20:44	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00012		1	06/24/22 06:35	06/27/22 20:44	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000080		1	06/24/22 06:35	06/27/22 20:44	7440-43-9	
Chromium	ND	mg/L	0.0010	0.00062		1	06/24/22 06:35	06/27/22 20:44	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000060		1	06/24/22 06:35	06/27/22 20:44	7440-48-4	
Copper	ND	mg/L	0.0030	0.00083		1	06/24/22 06:35	06/27/22 20:44	7440-50-8	
Lead	ND	mg/L	0.0010	0.000070		1	06/24/22 06:35	06/27/22 20:44	7439-92-1	
Nickel	ND	mg/L	0.0010	0.00056		1	06/24/22 06:35	06/27/22 20:44	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00037		1	06/24/22 06:35	06/27/22 20:44	7782-49-2	
Silver	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 20:44	7440-22-4	
Thallium	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 20:44	7440-28-0	
Tin	ND	mg/L	0.0060	0.00043		1	06/24/22 06:35	06/27/22 20:44	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.0023		1	06/24/22 06:35	06/27/22 20:44	7440-62-2	
Zinc	**0.014**	mg/L	0.010	0.0044		1	06/24/22 06:35	06/27/22 20:44	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/24/22 06:30	06/24/22 13:48	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	ND	ug/L	1.00	0.0886		1	06/25/22 05:08	06/26/22 18:02	83-32-9	
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/25/22 05:08	06/26/22 18:02	208-96-8	
Anthracene	ND	ug/L	1.00	0.0804		1	06/25/22 05:08	06/26/22 18:02	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/25/22 05:08	06/26/22 18:02	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/25/22 05:08	06/26/22 18:02	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/25/22 05:08	06/26/22 18:02	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/25/22 05:08	06/26/22 18:02	191-24-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: Equipment Blank 3 **Lab ID: 20247389027** Collected: 06/20/22 08:05 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/25/22 05:08	06/26/22 18:02	50-32-8	
Chrysene	ND	ug/L	1.00	0.130		1	06/25/22 05:08	06/26/22 18:02	218-01-9	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/25/22 05:08	06/26/22 18:02	132-64-9	
Fluoranthene	ND	ug/L	1.00	0.102		1	06/25/22 05:08	06/26/22 18:02	206-44-0	
Fluorene	ND	ug/L	1.00	0.0844		1	06/25/22 05:08	06/26/22 18:02	86-73-7	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/25/22 05:08	06/26/22 18:02	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/25/22 05:08	06/26/22 18:02	193-39-5	
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/25/22 05:08	06/26/22 18:02	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/25/22 05:08	06/26/22 18:02	91-57-6	
Naphthalene	ND	ug/L	1.00	0.159		1	06/25/22 05:08	06/26/22 18:02	91-20-3	
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/25/22 05:08	06/26/22 18:02	86-30-6	
Phenanthrene	ND	ug/L	1.00	0.112		1	06/25/22 05:08	06/26/22 18:02	85-01-8	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/25/22 05:08	06/26/22 18:02	117-81-7	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/25/22 05:08	06/26/22 18:02	117-84-0	
Pyrene	ND	ug/L	1.00	0.107		1	06/25/22 05:08	06/26/22 18:02	129-00-0	
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/25/22 05:08	06/26/22 18:02	105-67-9	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/25/22 05:08	06/26/22 18:02		
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/25/22 05:08	06/26/22 18:02	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/25/22 05:08	06/26/22 18:02	108-95-2	
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/25/22 05:08	06/27/22 23:03	134-32-7	
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/25/22 05:08	06/27/22 23:03	91-59-8	
O-Toluidine	ND	ug/L	10.0	3.53		1	06/25/22 05:08	06/27/22 23:03	95-53-4	
Surrogates										
2-Fluorophenol (S)	24.0	%	10.0-120			1	06/25/22 05:08	06/26/22 18:02	367-12-4	
Phenol-d5 (S)	16.2	%	10.0-120			1	06/25/22 05:08	06/26/22 18:02	4165-62-2	
Nitrobenzene-d5 (S)	62.4	%	10.0-127			1	06/25/22 05:08	06/26/22 18:02	4165-60-0	
2-Fluorobiphenyl (S)	63.7	%	10.0-130			1	06/25/22 05:08	06/26/22 18:02	321-60-8	
2,4,6-Tribromophenol (S)	68.7	%	10.0-155			1	06/25/22 05:08	06/26/22 18:02	118-79-6	
Terphenyl-d14 (S)	68.9	%	10.0-128			1	06/25/22 05:08	06/26/22 18:02	1718-51-0	
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.157J**	ug/L	0.400	0.0447		1	06/27/22 05:43	06/27/22 16:55	123-91-1	B,J
Surrogates										
Nitrobenzene-d5 (S)	41.6	%	10.0-120			1	06/27/22 05:43	06/27/22 16:55	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	**14.1J**	ug/L	50.0	11.3		1	07/02/22 19:27	07/02/22 19:27	67-64-1	J

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: Equipment Blank 3 **Lab ID: 20247389027** Collected: 06/20/22 08:05 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Benzene	ND	ug/L	1.00	0.0941		1	07/02/22 19:27	07/02/22 19:27	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/02/22 19:27	07/02/22 19:27	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/02/22 19:27	07/02/22 19:27	75-15-0	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/02/22 19:27	07/02/22 19:27	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/02/22 19:27	07/02/22 19:27	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/02/22 19:27	07/02/22 19:27	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/02/22 19:27	07/02/22 19:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/02/22 19:27	07/02/22 19:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/02/22 19:27	07/02/22 19:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/02/22 19:27	07/02/22 19:27	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/02/22 19:27	07/02/22 19:27	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/02/22 19:27	07/02/22 19:27	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/02/22 19:27	07/02/22 19:27	79-01-6	
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/02/22 19:27	07/02/22 19:27	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/02/22 19:27	07/02/22 19:27	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/02/22 19:27	07/02/22 19:27	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/02/22 19:27	07/02/22 19:27	1330-20-7	
Surrogates										
Toluene-d8 (S)	110	%	80.0-120			1	07/02/22 19:27	07/02/22 19:27	2037-26-5	
1,2-Dichloroethane-d4 (S)	104	%	70.0-130			1	07/02/22 19:27	07/02/22 19:27	17060-07-0	
4-Bromofluorobenzene (S)	99.5	%	77.0-126			1	07/02/22 19:27	07/02/22 19:27	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.0040		1		06/26/22 09:48	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	**0.0030J**	mg/L	0.0040	0.0012		1	06/24/22 10:48	06/27/22 10:12	57-12-5	
EPA 420.4 Rev. 1	Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast									
Phenolics, Total Recoverable	ND	ug/L	60.0	25.0		1	06/28/22 10:19	06/30/22 13:53	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: Equipment Blank 4 **Lab ID: 20247389028** Collected: 06/21/22 17:05 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/28/22 03:54	06/29/22 00:36	309-00-2	
Surrogates										
Decachlorobiphenyl (S)	97.5	%	10.0-128			1	06/28/22 03:54	06/29/22 00:36	2051-24-3	
Tetrachloro-m-xylene (S)	91.1	%	10.0-127			1	06/28/22 03:54	06/29/22 00:36	877-09-8	
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/28/22 18:00	06/30/22 21:40	93-72-1	
Surrogates										
2,4-DCAA (S)	62.8	%	14.0-158			1	06/28/22 18:00	06/30/22 21:40	19719-28-9	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00063		1	06/24/22 06:35	06/27/22 20:50	7440-36-0	
Arsenic	ND	mg/L	0.0010	0.00020		1	06/24/22 06:35	06/27/22 20:50	7440-38-2	
Barium	ND	mg/L	0.0010	0.00036		1	06/24/22 06:35	06/27/22 20:50	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00012		1	06/24/22 06:35	06/27/22 20:50	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000080		1	06/24/22 06:35	06/27/22 20:50	7440-43-9	
Chromium	ND	mg/L	0.0010	0.00062		1	06/24/22 06:35	06/27/22 20:50	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000060		1	06/24/22 06:35	06/27/22 20:50	7440-48-4	
Copper	**0.0019J**	mg/L	0.0030	0.00083		1	06/24/22 06:35	06/27/22 20:50	7440-50-8	
Lead	ND	mg/L	0.0010	0.000070		1	06/24/22 06:35	06/27/22 20:50	7439-92-1	
Nickel	ND	mg/L	0.0010	0.00056		1	06/24/22 06:35	06/27/22 20:50	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00037		1	06/24/22 06:35	06/27/22 20:50	7782-49-2	
Silver	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 20:50	7440-22-4	
Thallium	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 20:50	7440-28-0	
Tin	ND	mg/L	0.0060	0.00043		1	06/24/22 06:35	06/27/22 20:50	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.0023		1	06/24/22 06:35	06/27/22 20:50	7440-62-2	
Zinc	**0.018**	mg/L	0.010	0.0044		1	06/24/22 06:35	06/27/22 20:50	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/25/22 13:45	06/28/22 15:11	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	**0.405J**	ug/L	1.00	0.0886		1	06/28/22 03:27	06/28/22 22:41	83-32-9	G6,J
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/28/22 03:27	06/28/22 22:41	208-96-8	G6
Anthracene	ND	ug/L	1.00	0.0804		1	06/28/22 03:27	06/28/22 22:41	120-12-7	G6
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/28/22 03:27	06/28/22 22:41	56-55-3	G6
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/28/22 03:27	06/28/22 22:41	205-99-2	G6
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/28/22 03:27	06/28/22 22:41	207-08-9	G6
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/28/22 03:27	06/28/22 22:41	191-24-2	G6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: Equipment Blank 4 **Lab ID: 20247389028** Collected: 06/21/22 17:05 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/28/22 03:27	06/28/22 22:41	50-32-8	G6
Chrysene	ND	ug/L	1.00	0.130		1	06/28/22 03:27	06/28/22 22:41	218-01-9	G6
Dibenzofuran	**0.109J**	ug/L	10.0	0.0970		1	06/28/22 03:27	06/28/22 22:41	132-64-9	G6,J
Fluoranthene	ND	ug/L	1.00	0.102		1	06/28/22 03:27	06/28/22 22:41	206-44-0	G6
Fluorene	**0.0952J**	ug/L	1.00	0.0844		1	06/28/22 03:27	06/28/22 22:41	86-73-7	G6,J
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/28/22 03:27	06/28/22 22:41	67-72-1	G6
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/28/22 03:27	06/28/22 22:41	193-39-5	G6
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/28/22 03:27	06/28/22 22:41	90-12-0	G6
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/28/22 03:27	06/28/22 22:41	91-57-6	G6
Naphthalene	**2.99**	ug/L	1.00	0.159		1	06/28/22 03:27	06/28/22 22:41	91-20-3	G6
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/28/22 03:27	06/28/22 22:41	86-30-6	G6
Phenanthrene	ND	ug/L	1.00	0.112		1	06/28/22 03:27	06/28/22 22:41	85-01-8	G6
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/28/22 03:27	06/28/22 22:41	117-81-7	G6
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/28/22 03:27	06/28/22 22:41	117-84-0	G6
Pyrene	ND	ug/L	1.00	0.107		1	06/28/22 03:27	06/28/22 22:41	129-00-0	G6
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/28/22 03:27	06/28/22 22:41	105-67-9	G6
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/28/22 03:27	06/28/22 22:41		G6
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/28/22 03:27	06/28/22 22:41	87-86-5	G6
Phenol	ND	ug/L	10.0	4.33		1	06/28/22 03:27	06/28/22 22:41	108-95-2	G6
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/28/22 03:27	07/02/22 14:10	134-32-7	G6
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/28/22 03:27	07/02/22 14:10	91-59-8	G6
O-Toluidine	ND	ug/L	10.0	3.53		1	06/28/22 03:27	07/02/22 14:10	95-53-4	G6
Surrogates										
2-Fluorophenol (S)	26.2	%	10.0-120			1	06/28/22 03:27	06/28/22 22:41	367-12-4	
Phenol-d5 (S)	19.7	%	10.0-120			1	06/28/22 03:27	06/28/22 22:41	4165-62-2	
Nitrobenzene-d5 (S)	46.8	%	10.0-127			1	06/28/22 03:27	06/28/22 22:41	4165-60-0	
2-Fluorobiphenyl (S)	48.4	%	10.0-130			1	06/28/22 03:27	06/28/22 22:41	321-60-8	
2,4,6-Tribromophenol (S)	61.0	%	10.0-155			1	06/28/22 03:27	06/28/22 22:41	118-79-6	
Terphenyl-d14 (S)	76.0	%	10.0-128			1	06/28/22 03:27	06/28/22 22:41	1718-51-0	
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.114J**	ug/L	0.400	0.0447		1	06/27/22 05:43	06/27/22 20:09	123-91-1	B,J
Surrogates										
Nitrobenzene-d5 (S)	42.5	%	10.0-120			1	06/27/22 05:43	06/27/22 20:09	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/05/22 14:24	07/05/22 14:24	67-64-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: Equipment Blank 4 **Lab ID: 20247389028** Collected: 06/21/22 17:05 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Benzene	ND	ug/L	1.00	0.0941		1	07/05/22 14:24	07/05/22 14:24	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/05/22 14:24	07/05/22 14:24	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/05/22 14:24	07/05/22 14:24	75-15-0	
Chlorobenzene	**0.187J**	ug/L	1.00	0.116		1	07/05/22 14:24	07/05/22 14:24	108-90-7	J
Chloroform	ND	ug/L	5.00	0.111		1	07/05/22 14:24	07/05/22 14:24	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/05/22 14:24	07/05/22 14:24	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/05/22 14:24	07/05/22 14:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/05/22 14:24	07/05/22 14:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/05/22 14:24	07/05/22 14:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/05/22 14:24	07/05/22 14:24	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/05/22 14:24	07/05/22 14:24	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/05/22 14:24	07/05/22 14:24	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/05/22 14:24	07/05/22 14:24	79-01-6	L0
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/05/22 14:24	07/05/22 14:24	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/05/22 14:24	07/05/22 14:24	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/05/22 14:24	07/05/22 14:24	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/05/22 14:24	07/05/22 14:24	1330-20-7	
Surrogates										
Toluene-d8 (S)	99.9	%	80.0-120			1	07/05/22 14:24	07/05/22 14:24	2037-26-5	
1,2-Dichloroethane-d4 (S)	106	%	70.0-130			1	07/05/22 14:24	07/05/22 14:24	17060-07-0	
4-Bromofluorobenzene (S)	100	%	77.0-126			1	07/05/22 14:24	07/05/22 14:24	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.0040		1		06/26/22 11:48	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	**0.0017J**	mg/L	0.0040	0.0012		1	06/29/22 08:55	06/29/22 17:38	57-12-5	
EPA 420.4 Rev. 1	Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast									
Phenolics, Total Recoverable	ND	ug/L	60.0	25.0		1	07/01/22 13:30	07/05/22 16:10	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: Equipment Blank 5 **Lab ID: 20247389029** Collected: 06/21/22 17:25 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0525	0.0208		1.05	06/28/22 03:54	06/29/22 00:45	309-00-2	
Surrogates										
Decachlorobiphenyl (S)	71.9	%	10.0-128			1.05	06/28/22 03:54	06/29/22 00:45	2051-24-3	
Tetrachloro-m-xylene (S)	112	%	10.0-127			1.05	06/28/22 03:54	06/29/22 00:45	877-09-8	
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/28/22 18:00	06/30/22 21:54	93-72-1	
Surrogates										
2,4-DCAA (S)	68.0	%	14.0-158			1	06/28/22 18:00	06/30/22 21:54	19719-28-9	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00063		1	06/24/22 06:35	06/27/22 20:56	7440-36-0	
Arsenic	ND	mg/L	0.0010	0.00020		1	06/24/22 06:35	06/27/22 20:56	7440-38-2	
Barium	ND	mg/L	0.0010	0.00036		1	06/24/22 06:35	06/27/22 20:56	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00012		1	06/24/22 06:35	06/27/22 20:56	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000080		1	06/24/22 06:35	06/27/22 20:56	7440-43-9	
Chromium	ND	mg/L	0.0010	0.00062		1	06/24/22 06:35	06/27/22 20:56	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000060		1	06/24/22 06:35	06/27/22 20:56	7440-48-4	
Copper	ND	mg/L	0.0030	0.00083		1	06/24/22 06:35	06/27/22 20:56	7440-50-8	
Lead	ND	mg/L	0.0010	0.000070		1	06/24/22 06:35	06/27/22 20:56	7439-92-1	
Nickel	ND	mg/L	0.0010	0.00056		1	06/24/22 06:35	06/27/22 20:56	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00037		1	06/24/22 06:35	06/27/22 20:56	7782-49-2	
Silver	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 20:56	7440-22-4	
Thallium	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 20:56	7440-28-0	
Tin	ND	mg/L	0.0060	0.00043		1	06/24/22 06:35	06/27/22 20:56	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.0023		1	06/24/22 06:35	06/27/22 20:56	7440-62-2	
Zinc	ND	mg/L	0.010	0.0044		1	06/24/22 06:35	06/27/22 20:56	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/25/22 13:45	06/28/22 15:13	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	ND	ug/L	1.00	0.0886		1	06/28/22 03:27	06/29/22 00:06	83-32-9	G6
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/28/22 03:27	06/29/22 00:06	208-96-8	G6
Anthracene	ND	ug/L	1.00	0.0804		1	06/28/22 03:27	06/29/22 00:06	120-12-7	G6
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/28/22 03:27	06/29/22 00:06	56-55-3	G6
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/28/22 03:27	06/29/22 00:06	205-99-2	G6
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/28/22 03:27	06/29/22 00:06	207-08-9	G6
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/28/22 03:27	06/29/22 00:06	191-24-2	G6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: Equipment Blank 5 **Lab ID: 20247389029** Collected: 06/21/22 17:25 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/28/22 03:27	06/29/22 00:06	50-32-8	G6
Chrysene	ND	ug/L	1.00	0.130		1	06/28/22 03:27	06/29/22 00:06	218-01-9	G6
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/28/22 03:27	06/29/22 00:06	132-64-9	G6
Fluoranthene	ND	ug/L	1.00	0.102		1	06/28/22 03:27	06/29/22 00:06	206-44-0	G6
Fluorene	ND	ug/L	1.00	0.0844		1	06/28/22 03:27	06/29/22 00:06	86-73-7	G6
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/28/22 03:27	06/29/22 00:06	67-72-1	G6
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/28/22 03:27	06/29/22 00:06	193-39-5	G6
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/28/22 03:27	06/29/22 00:06	90-12-0	G6
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/28/22 03:27	06/29/22 00:06	91-57-6	G6
Naphthalene	ND	ug/L	1.00	0.159		1	06/28/22 03:27	06/29/22 00:06	91-20-3	G6
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/28/22 03:27	06/29/22 00:06	86-30-6	G6
Phenanthrene	ND	ug/L	1.00	0.112		1	06/28/22 03:27	06/29/22 00:06	85-01-8	G6
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/28/22 03:27	06/29/22 00:06	117-81-7	G6
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/28/22 03:27	06/29/22 00:06	117-84-0	G6
Pyrene	ND	ug/L	1.00	0.107		1	06/28/22 03:27	06/29/22 00:06	129-00-0	G6
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/28/22 03:27	06/29/22 00:06	105-67-9	G6
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/28/22 03:27	06/29/22 00:06		G6
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/28/22 03:27	06/29/22 00:06	87-86-5	G6
Phenol	ND	ug/L	10.0	4.33		1	06/28/22 03:27	06/29/22 00:06	108-95-2	G6
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/28/22 03:27	07/02/22 15:42	134-32-7	G6
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/28/22 03:27	07/02/22 15:42	91-59-8	G6
O-Toluidine	ND	ug/L	10.0	3.53		1	06/28/22 03:27	07/02/22 15:42	95-53-4	G6
Surrogates										
2-Fluorophenol (S)	27.2	%	10.0-120			1	06/28/22 03:27	06/29/22 00:06	367-12-4	
Phenol-d5 (S)	19.1	%	10.0-120			1	06/28/22 03:27	06/29/22 00:06	4165-62-2	
Nitrobenzene-d5 (S)	35.2	%	10.0-127			1	06/28/22 03:27	06/29/22 00:06	4165-60-0	
2-Fluorobiphenyl (S)	37.9	%	10.0-130			1	06/28/22 03:27	06/29/22 00:06	321-60-8	
2,4,6-Tribromophenol (S)	56.5	%	10.0-155			1	06/28/22 03:27	06/29/22 00:06	118-79-6	
Terphenyl-d14 (S)	72.8	%	10.0-128			1	06/28/22 03:27	06/29/22 00:06	1718-51-0	
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.0945J**	ug/L	0.400	0.0447		1	06/27/22 05:43	06/27/22 20:28	123-91-1	B,J
Surrogates										
Nitrobenzene-d5 (S)	64.1	%	10.0-120			1	06/27/22 05:43	06/27/22 20:28	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	**13.3J**	ug/L	50.0	11.3		1	07/05/22 14:46	07/05/22 14:46	67-64-1	J

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: Equipment Blank 5 **Lab ID: 20247389029** Collected: 06/21/22 17:25 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Benzene	ND	ug/L	1.00	0.0941		1	07/05/22 14:46	07/05/22 14:46	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/05/22 14:46	07/05/22 14:46	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/05/22 14:46	07/05/22 14:46	75-15-0	
Chlorobenzene	**0.281J**	ug/L	1.00	0.116		1	07/05/22 14:46	07/05/22 14:46	108-90-7	J
Chloroform	ND	ug/L	5.00	0.111		1	07/05/22 14:46	07/05/22 14:46	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/05/22 14:46	07/05/22 14:46	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/05/22 14:46	07/05/22 14:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/05/22 14:46	07/05/22 14:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/05/22 14:46	07/05/22 14:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/05/22 14:46	07/05/22 14:46	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/05/22 14:46	07/05/22 14:46	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/05/22 14:46	07/05/22 14:46	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/05/22 14:46	07/05/22 14:46	79-01-6	L0
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/05/22 14:46	07/05/22 14:46	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/05/22 14:46	07/05/22 14:46	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/05/22 14:46	07/05/22 14:46	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/05/22 14:46	07/05/22 14:46	1330-20-7	
Surrogates										
Toluene-d8 (S)	98.2	%	80.0-120			1	07/05/22 14:46	07/05/22 14:46	2037-26-5	
1,2-Dichloroethane-d4 (S)	104	%	70.0-130			1	07/05/22 14:46	07/05/22 14:46	17060-07-0	
4-Bromofluorobenzene (S)	98.3	%	77.0-126			1	07/05/22 14:46	07/05/22 14:46	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.0040		1		06/26/22 11:49	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	ND	mg/L	0.0040	0.0012		1	06/29/22 08:55	06/29/22 17:40	57-12-5	
EPA 420.4 Rev. 1	Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast									
Phenolics, Total Recoverable	ND	ug/L	60.0	25.0		1	07/01/22 13:30	07/05/22 16:10	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: Equipment Blank 6 **Lab ID: 20247389030** Collected: 06/21/22 17:45 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/28/22 03:54	06/29/22 00:55	309-00-2	
Surrogates										
Decachlorobiphenyl (S)	90.5	%	10.0-128			1	06/28/22 03:54	06/29/22 00:55	2051-24-3	
Tetrachloro-m-xylene (S)	108	%	10.0-127			1	06/28/22 03:54	06/29/22 00:55	877-09-8	
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/28/22 18:00	06/30/22 22:09	93-72-1	
Surrogates										
2,4-DCAA (S)	69.5	%	14.0-158			1	06/28/22 18:00	06/30/22 22:09	19719-28-9	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00063		1	06/24/22 06:35	06/27/22 21:01	7440-36-0	
Arsenic	ND	mg/L	0.0010	0.00020		1	06/24/22 06:35	06/27/22 21:01	7440-38-2	
Barium	**0.00037J**	mg/L	0.0010	0.00036		1	06/24/22 06:35	06/27/22 21:01	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00012		1	06/24/22 06:35	06/27/22 21:01	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000080		1	06/24/22 06:35	06/27/22 21:01	7440-43-9	
Chromium	ND	mg/L	0.0010	0.00062		1	06/24/22 06:35	06/27/22 21:01	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000060		1	06/24/22 06:35	06/27/22 21:01	7440-48-4	
Copper	ND	mg/L	0.0030	0.00083		1	06/24/22 06:35	06/27/22 21:01	7440-50-8	
Lead	ND	mg/L	0.0010	0.000070		1	06/24/22 06:35	06/27/22 21:01	7439-92-1	
Nickel	ND	mg/L	0.0010	0.00056		1	06/24/22 06:35	06/27/22 21:01	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00037		1	06/24/22 06:35	06/27/22 21:01	7782-49-2	
Silver	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 21:01	7440-22-4	
Thallium	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 21:01	7440-28-0	
Tin	**0.00050J**	mg/L	0.0060	0.00043		1	06/24/22 06:35	06/27/22 21:01	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.0023		1	06/24/22 06:35	06/27/22 21:01	7440-62-2	
Zinc	**0.0090J**	mg/L	0.010	0.0044		1	06/24/22 06:35	06/27/22 21:01	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/25/22 13:45	06/28/22 15:20	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	ND	ug/L	1.00	0.0886		1	06/28/22 03:27	06/28/22 23:02	83-32-9	G6
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/28/22 03:27	06/28/22 23:02	208-96-8	G6
Anthracene	ND	ug/L	1.00	0.0804		1	06/28/22 03:27	06/28/22 23:02	120-12-7	G6
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/28/22 03:27	06/28/22 23:02	56-55-3	G6
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/28/22 03:27	06/28/22 23:02	205-99-2	G6
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/28/22 03:27	06/28/22 23:02	207-08-9	G6
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/28/22 03:27	06/28/22 23:02	191-24-2	G6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: Equipment Blank 6 **Lab ID: 20247389030** Collected: 06/21/22 17:45 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/28/22 03:27	06/28/22 23:02	50-32-8	G6
Chrysene	ND	ug/L	1.00	0.130		1	06/28/22 03:27	06/28/22 23:02	218-01-9	G6
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/28/22 03:27	06/28/22 23:02	132-64-9	G6
Fluoranthene	ND	ug/L	1.00	0.102		1	06/28/22 03:27	06/28/22 23:02	206-44-0	G6
Fluorene	ND	ug/L	1.00	0.0844		1	06/28/22 03:27	06/28/22 23:02	86-73-7	G6
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/28/22 03:27	06/28/22 23:02	67-72-1	G6
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/28/22 03:27	06/28/22 23:02	193-39-5	G6
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/28/22 03:27	06/28/22 23:02	90-12-0	G6
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/28/22 03:27	06/28/22 23:02	91-57-6	G6
Naphthalene	ND	ug/L	1.00	0.159		1	06/28/22 03:27	06/28/22 23:02	91-20-3	G6
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/28/22 03:27	06/28/22 23:02	86-30-6	G6
Phenanthrene	ND	ug/L	1.00	0.112		1	06/28/22 03:27	06/28/22 23:02	85-01-8	G6
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/28/22 03:27	06/28/22 23:02	117-81-7	G6
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/28/22 03:27	06/28/22 23:02	117-84-0	G6
Pyrene	ND	ug/L	1.00	0.107		1	06/28/22 03:27	06/28/22 23:02	129-00-0	G6
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/28/22 03:27	06/28/22 23:02	105-67-9	G6
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/28/22 03:27	06/28/22 23:02		G6
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/28/22 03:27	06/28/22 23:02	87-86-5	G6
Phenol	ND	ug/L	10.0	4.33		1	06/28/22 03:27	06/28/22 23:02	108-95-2	G6
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/28/22 03:27	07/02/22 14:39	134-32-7	G6
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/28/22 03:27	07/02/22 14:39	91-59-8	G6
O-Toluidine	ND	ug/L	10.0	3.53		1	06/28/22 03:27	07/02/22 14:39	95-53-4	G6
Surrogates										
2-Fluorophenol (S)	30.1	%	10.0-120			1	06/28/22 03:27	06/28/22 23:02	367-12-4	
Phenol-d5 (S)	19.3	%	10.0-120			1	06/28/22 03:27	06/28/22 23:02	4165-62-2	
Nitrobenzene-d5 (S)	51.0	%	10.0-127			1	06/28/22 03:27	06/28/22 23:02	4165-60-0	
2-Fluorobiphenyl (S)	49.4	%	10.0-130			1	06/28/22 03:27	06/28/22 23:02	321-60-8	
2,4,6-Tribromophenol (S)	55.5	%	10.0-155			1	06/28/22 03:27	06/28/22 23:02	118-79-6	
Terphenyl-d14 (S)	64.7	%	10.0-128			1	06/28/22 03:27	06/28/22 23:02	1718-51-0	
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.0933J**	ug/L	0.400	0.0447		1	06/27/22 05:43	06/27/22 22:04	123-91-1	B,J
Surrogates										
Nitrobenzene-d5 (S)	70.3	%	10.0-120			1	06/27/22 05:43	06/27/22 22:04	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/05/22 15:08	07/05/22 15:08	67-64-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: Equipment Blank 6 **Lab ID: 20247389030** Collected: 06/21/22 17:45 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Benzene	ND	ug/L	1.00	0.0941		1	07/05/22 15:08	07/05/22 15:08	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/05/22 15:08	07/05/22 15:08	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/05/22 15:08	07/05/22 15:08	75-15-0	
Chlorobenzene	**0.551J**	ug/L	1.00	0.116		1	07/05/22 15:08	07/05/22 15:08	108-90-7	J
Chloroform	ND	ug/L	5.00	0.111		1	07/05/22 15:08	07/05/22 15:08	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/05/22 15:08	07/05/22 15:08	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/05/22 15:08	07/05/22 15:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/05/22 15:08	07/05/22 15:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/05/22 15:08	07/05/22 15:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/05/22 15:08	07/05/22 15:08	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/05/22 15:08	07/05/22 15:08	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/05/22 15:08	07/05/22 15:08	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/05/22 15:08	07/05/22 15:08	79-01-6	L0
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/05/22 15:08	07/05/22 15:08	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/05/22 15:08	07/05/22 15:08	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/05/22 15:08	07/05/22 15:08	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/05/22 15:08	07/05/22 15:08	1330-20-7	
Surrogates										
Toluene-d8 (S)	98.1	%	80.0-120			1	07/05/22 15:08	07/05/22 15:08	2037-26-5	
1,2-Dichloroethane-d4 (S)	106	%	70.0-130			1	07/05/22 15:08	07/05/22 15:08	17060-07-0	
4-Bromofluorobenzene (S)	101	%	77.0-126			1	07/05/22 15:08	07/05/22 15:08	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.0040		1		06/26/22 11:49	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	**0.0012J**	mg/L	0.0040	0.0012		1	06/29/22 08:55	06/29/22 17:42	57-12-5	
EPA 420.4 Rev. 1	Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast									
Phenolics, Total Recoverable	ND	ug/L	60.0	25.0		1	07/06/22 07:48	07/06/22 14:18	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: Field Dup 1 **Lab ID: 20247389031** Collected: 06/21/22 08:20 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/28/22 03:54	06/29/22 01:04	309-00-2	
Surrogates										
Decachlorobiphenyl (S)	57.7	%	10.0-128			1	06/28/22 03:54	06/29/22 01:04	2051-24-3	
Tetrachloro-m-xylene (S)	83.3	%	10.0-127			1	06/28/22 03:54	06/29/22 01:04	877-09-8	
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/28/22 18:00	06/30/22 22:24	93-72-1	
Surrogates										
2,4-DCAA (S)	111	%	14.0-158			1	06/28/22 18:00	06/30/22 22:24	19719-28-9	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00063		1	06/24/22 06:35	06/27/22 21:07	7440-36-0	
Arsenic	**0.077**	mg/L	0.0010	0.00020		1	06/24/22 06:35	06/27/22 21:07	7440-38-2	
Barium	**0.26**	mg/L	0.0010	0.00036		1	06/24/22 06:35	06/27/22 21:07	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00012		1	06/24/22 06:35	06/27/22 21:07	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000080		1	06/24/22 06:35	06/27/22 21:07	7440-43-9	
Chromium	ND	mg/L	0.0010	0.00062		1	06/24/22 06:35	06/27/22 21:07	7440-47-3	
Cobalt	**0.00034J**	mg/L	0.0010	0.000060		1	06/24/22 06:35	06/27/22 21:07	7440-48-4	
Copper	ND	mg/L	0.0030	0.00083		1	06/24/22 06:35	06/27/22 21:07	7440-50-8	
Lead	ND	mg/L	0.0010	0.000070		1	06/24/22 06:35	06/27/22 21:07	7439-92-1	
Nickel	ND	mg/L	0.0010	0.00056		1	06/24/22 06:35	06/27/22 21:07	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00037		1	06/24/22 06:35	06/27/22 21:07	7782-49-2	
Silver	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 21:07	7440-22-4	
Thallium	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 21:07	7440-28-0	
Tin	ND	mg/L	0.0060	0.00043		1	06/24/22 06:35	06/27/22 21:07	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.0023		1	06/24/22 06:35	06/27/22 21:07	7440-62-2	
Zinc	**0.010**	mg/L	0.010	0.0044		1	06/24/22 06:35	06/27/22 21:07	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/25/22 13:45	06/28/22 15:22	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	**35.5**	ug/L	1.00	0.0886		1	06/28/22 03:27	06/28/22 23:45	83-32-9	G6
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/28/22 03:27	06/28/22 23:45	208-96-8	G6
Anthracene	**1.91**	ug/L	1.00	0.0804		1	06/28/22 03:27	06/28/22 23:45	120-12-7	G6
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/28/22 03:27	06/28/22 23:45	56-55-3	G6
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/28/22 03:27	06/28/22 23:45	205-99-2	G6
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/28/22 03:27	06/28/22 23:45	207-08-9	G6
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/28/22 03:27	06/28/22 23:45	191-24-2	G6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: Field Dup 1 **Lab ID: 20247389031** Collected: 06/21/22 08:20 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/28/22 03:27	06/28/22 23:45	50-32-8	G6
Chrysene	ND	ug/L	1.00	0.130		1	06/28/22 03:27	06/28/22 23:45	218-01-9	G6
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/28/22 03:27	06/28/22 23:45	132-64-9	G6
Fluoranthene	**2.00**	ug/L	1.00	0.102		1	06/28/22 03:27	06/28/22 23:45	206-44-0	G6
Fluorene	**16.7**	ug/L	1.00	0.0844		1	06/28/22 03:27	06/28/22 23:45	86-73-7	G6
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/28/22 03:27	06/28/22 23:45	67-72-1	G6
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/28/22 03:27	06/28/22 23:45	193-39-5	G6
1-Methylnaphthalene	**10.1**	ug/L	1.00	0.0790		1	06/28/22 03:27	06/28/22 23:45	90-12-0	G6
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/28/22 03:27	06/28/22 23:45	91-57-6	G6
Naphthalene	**0.242J**	ug/L	1.00	0.159		1	06/28/22 03:27	06/28/22 23:45	91-20-3	G6,J
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/28/22 03:27	06/28/22 23:45	86-30-6	G6
Phenanthrene	**13.9**	ug/L	1.00	0.112		1	06/28/22 03:27	06/28/22 23:45	85-01-8	G6
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/28/22 03:27	06/28/22 23:45	117-81-7	G6
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/28/22 03:27	06/28/22 23:45	117-84-0	G6
Pyrene	**1.16**	ug/L	1.00	0.107		1	06/28/22 03:27	06/28/22 23:45	129-00-0	G6
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/28/22 03:27	06/28/22 23:45	105-67-9	G6
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/28/22 03:27	06/28/22 23:45		G6
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/28/22 03:27	06/28/22 23:45	87-86-5	G6
Phenol	ND	ug/L	10.0	4.33		1	06/28/22 03:27	06/28/22 23:45	108-95-2	G6
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/28/22 03:27	07/02/22 15:21	134-32-7	G6
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/28/22 03:27	07/02/22 15:21	91-59-8	G6
O-Toluidine	ND	ug/L	10.0	3.53		1	06/28/22 03:27	07/02/22 15:21	95-53-4	G6
Surrogates										
2-Fluorophenol (S)	27.5	%	10.0-120			1	06/28/22 03:27	06/28/22 23:45	367-12-4	
Phenol-d5 (S)	19.4	%	10.0-120			1	06/28/22 03:27	06/28/22 23:45	4165-62-2	
Nitrobenzene-d5 (S)	41.6	%	10.0-127			1	06/28/22 03:27	06/28/22 23:45	4165-60-0	
2-Fluorobiphenyl (S)	48.1	%	10.0-130			1	06/28/22 03:27	06/28/22 23:45	321-60-8	
2,4,6-Tribromophenol (S)	66.5	%	10.0-155			1	06/28/22 03:27	06/28/22 23:45	118-79-6	
Terphenyl-d14 (S)	69.8	%	10.0-128			1	06/28/22 03:27	06/28/22 23:45	1718-51-0	
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.0784J**	ug/L	0.400	0.0447		1	06/27/22 05:43	06/27/22 20:47	123-91-1	B,J
Surrogates										
Nitrobenzene-d5 (S)	47.4	%	10.0-120			1	06/27/22 05:43	06/27/22 20:47	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/05/22 15:52	07/05/22 15:52	67-64-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: Field Dup 1 **Lab ID: 20247389031** Collected: 06/21/22 08:20 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Benzene	ND	ug/L	1.00	0.0941		1	07/05/22 15:52	07/05/22 15:52	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/05/22 15:52	07/05/22 15:52	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/05/22 15:52	07/05/22 15:52	75-15-0	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/05/22 15:52	07/05/22 15:52	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/05/22 15:52	07/05/22 15:52	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/05/22 15:52	07/05/22 15:52	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/05/22 15:52	07/05/22 15:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/05/22 15:52	07/05/22 15:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/05/22 15:52	07/05/22 15:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/05/22 15:52	07/05/22 15:52	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/05/22 15:52	07/05/22 15:52	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/05/22 15:52	07/05/22 15:52	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/05/22 15:52	07/05/22 15:52	79-01-6	L0
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/05/22 15:52	07/05/22 15:52	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/05/22 15:52	07/05/22 15:52	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/05/22 15:52	07/05/22 15:52	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/05/22 15:52	07/05/22 15:52	1330-20-7	
Surrogates										
Toluene-d8 (S)	99.6	%	80.0-120			1	07/05/22 15:52	07/05/22 15:52	2037-26-5	
1,2-Dichloroethane-d4 (S)	103	%	70.0-130			1	07/05/22 15:52	07/05/22 15:52	17060-07-0	
4-Bromofluorobenzene (S)	103	%	77.0-126			1	07/05/22 15:52	07/05/22 15:52	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.0040		1		06/26/22 11:50	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	**0.0015J**	mg/L	0.0040	0.0012		1	06/29/22 08:55	06/29/22 17:43	57-12-5	
EPA 420.4 Rev. 1	Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast									
Phenolics, Total Recoverable	**104**	ug/L	60.0	25.0		1	07/06/22 07:48	07/06/22 14:19	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: Field Dup 2 **Lab ID: 20247389032** Collected: 06/21/22 09:45 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/27/22 09:58	06/28/22 04:15	309-00-2	
Surrogates										
Decachlorobiphenyl (S)	73.1	%	10.0-128			1	06/27/22 09:58	06/28/22 04:15	2051-24-3	
Tetrachloro-m-xylene (S)	73.7	%	10.0-127			1	06/27/22 09:58	06/28/22 04:15	877-09-8	
Chlorinated Herb. (GC) 8151	Analytical Method: EPA 8151 Preparation Method: 8151A Pace National - Mt. Juliet									
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.335		1	06/28/22 18:00	06/30/22 22:39	93-72-1	
Surrogates										
2,4-DCAA (S)	102	%	14.0-158			1	06/28/22 18:00	06/30/22 22:39	19719-28-9	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00063		1	06/24/22 06:35	06/27/22 21:13	7440-36-0	
Arsenic	**0.075**	mg/L	0.0010	0.00020		1	06/24/22 06:35	06/27/22 21:13	7440-38-2	
Barium	**0.082**	mg/L	0.0010	0.00036		1	06/24/22 06:35	06/27/22 21:13	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00012		1	06/24/22 06:35	06/27/22 21:13	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000080		1	06/24/22 06:35	06/27/22 21:13	7440-43-9	
Chromium	**0.0013**	mg/L	0.0010	0.00062		1	06/24/22 06:35	06/27/22 21:13	7440-47-3	
Cobalt	**0.00028J**	mg/L	0.0010	0.000060		1	06/24/22 06:35	06/27/22 21:13	7440-48-4	
Copper	ND	mg/L	0.0030	0.00083		1	06/24/22 06:35	06/27/22 21:13	7440-50-8	
Lead	**0.00016J**	mg/L	0.0010	0.000070		1	06/24/22 06:35	06/27/22 21:13	7439-92-1	
Nickel	**0.0035**	mg/L	0.0010	0.00056		1	06/24/22 06:35	06/27/22 21:13	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00037		1	06/24/22 06:35	06/27/22 21:13	7782-49-2	
Silver	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 21:13	7440-22-4	
Thallium	ND	mg/L	0.00050	0.000080		1	06/24/22 06:35	06/27/22 21:13	7440-28-0	
Tin	ND	mg/L	0.0060	0.00043		1	06/24/22 06:35	06/27/22 21:13	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.0023		1	06/24/22 06:35	06/27/22 21:13	7440-62-2	
Zinc	ND	mg/L	0.010	0.0044		1	06/24/22 06:35	06/27/22 21:13	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/25/22 13:45	06/28/22 15:24	7439-97-6	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	**65.2**	ug/L	1.00	0.0886		1	06/28/22 03:27	06/29/22 00:48	83-32-9	G6
Acenaphthylene	**0.232J**	ug/L	1.00	0.0921		1	06/28/22 03:27	06/29/22 00:48	208-96-8	G6,J
Anthracene	**0.609J**	ug/L	1.00	0.0804		1	06/28/22 03:27	06/29/22 00:48	120-12-7	G6,J
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/28/22 03:27	06/29/22 00:48	56-55-3	G6
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/28/22 03:27	06/29/22 00:48	205-99-2	G6
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/28/22 03:27	06/29/22 00:48	207-08-9	G6
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/28/22 03:27	06/29/22 00:48	191-24-2	G6

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: Field Dup 2 **Lab ID: 20247389032** Collected: 06/21/22 09:45 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/28/22 03:27	06/29/22 00:48	50-32-8	G6
Chrysene	ND	ug/L	1.00	0.130		1	06/28/22 03:27	06/29/22 00:48	218-01-9	G6
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/28/22 03:27	06/29/22 00:48	132-64-9	G6
Fluoranthene	**0.441J**	ug/L	1.00	0.102		1	06/28/22 03:27	06/29/22 00:48	206-44-0	G6,J
Fluorene	**3.75**	ug/L	1.00	0.0844		1	06/28/22 03:27	06/29/22 00:48	86-73-7	G6
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/28/22 03:27	06/29/22 00:48	67-72-1	G6
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/28/22 03:27	06/29/22 00:48	193-39-5	G6
1-Methylnaphthalene	**22.9**	ug/L	1.00	0.0790		1	06/28/22 03:27	06/29/22 00:48	90-12-0	G6
2-Methylnaphthalene	**0.544J**	ug/L	1.00	0.117		1	06/28/22 03:27	06/29/22 00:48	91-57-6	G6,J
Naphthalene	**0.372J**	ug/L	1.00	0.159		1	06/28/22 03:27	06/29/22 00:48	91-20-3	G6,J
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/28/22 03:27	06/29/22 00:48	86-30-6	G6
Phenanthrene	**10.4**	ug/L	1.00	0.112		1	06/28/22 03:27	06/29/22 00:48	85-01-8	G6
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/28/22 03:27	06/29/22 00:48	117-81-7	G6
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/28/22 03:27	06/29/22 00:48	117-84-0	G6
Pyrene	**0.278J**	ug/L	1.00	0.107		1	06/28/22 03:27	06/29/22 00:48	129-00-0	G6,J
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/28/22 03:27	06/29/22 00:48	105-67-9	G6
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/28/22 03:27	06/29/22 00:48		G6
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/28/22 03:27	06/29/22 00:48	87-86-5	G6
Phenol	ND	ug/L	10.0	4.33		1	06/28/22 03:27	06/29/22 00:48	108-95-2	G6
1-Naphthalenamine	**1.30J**	ug/L	10.0	0.289		1	06/28/22 03:27	07/02/22 16:24	134-32-7	G6,J
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/28/22 03:27	07/02/22 16:24	91-59-8	G6
O-Toluidine	**3.78J**	ug/L	10.0	3.53		1	06/28/22 03:27	07/02/22 16:24	95-53-4	G6,J
Surrogates										
2-Fluorophenol (S)	27.3	%	10.0-120			1	06/28/22 03:27	06/29/22 00:48	367-12-4	
Phenol-d5 (S)	20.0	%	10.0-120			1	06/28/22 03:27	06/29/22 00:48	4165-62-2	
Nitrobenzene-d5 (S)	49.5	%	10.0-127			1	06/28/22 03:27	06/29/22 00:48	4165-60-0	
2-Fluorobiphenyl (S)	49.7	%	10.0-130			1	06/28/22 03:27	06/29/22 00:48	321-60-8	
2,4,6-Tribromophenol (S)	65.0	%	10.0-155			1	06/28/22 03:27	06/29/22 00:48	118-79-6	
Terphenyl-d14 (S)	71.1	%	10.0-128			1	06/28/22 03:27	06/29/22 00:48	1718-51-0	
SVOA (GC/MS) 8270C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.205J**	ug/L	0.400	0.0447		1	06/27/22 05:43	06/27/22 21:07	123-91-1	B,J
Surrogates										
Nitrobenzene-d5 (S)	45.0	%	10.0-120			1	06/27/22 05:43	06/27/22 21:07	4165-60-0	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/05/22 16:14	07/05/22 16:14	67-64-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: Field Dup 2 **Lab ID: 20247389032** Collected: 06/21/22 09:45 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Benzene	**0.139J**	ug/L	1.00	0.0941		1	07/05/22 16:14	07/05/22 16:14	71-43-2	J
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/05/22 16:14	07/05/22 16:14	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/05/22 16:14	07/05/22 16:14	75-15-0	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/05/22 16:14	07/05/22 16:14	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/05/22 16:14	07/05/22 16:14	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/05/22 16:14	07/05/22 16:14	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/05/22 16:14	07/05/22 16:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/05/22 16:14	07/05/22 16:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/05/22 16:14	07/05/22 16:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/05/22 16:14	07/05/22 16:14	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/05/22 16:14	07/05/22 16:14	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/05/22 16:14	07/05/22 16:14	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/05/22 16:14	07/05/22 16:14	79-01-6	L0
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/05/22 16:14	07/05/22 16:14	75-01-4	
o-Xylene	**0.207J**	ug/L	1.00	0.174		1	07/05/22 16:14	07/05/22 16:14	95-47-6	J
m&p-Xylene	**1.29J**	ug/L	2.00	0.430		1	07/05/22 16:14	07/05/22 16:14	179601-23-1	J
Xylene (Total)	**1.50J**	ug/L	3.00	0.174		1	07/05/22 16:14	07/05/22 16:14	1330-20-7	J
Surrogates										
Toluene-d8 (S)	97.8	%	80.0-120			1	07/05/22 16:14	07/05/22 16:14	2037-26-5	
1,2-Dichloroethane-d4 (S)	105	%	70.0-130			1	07/05/22 16:14	07/05/22 16:14	17060-07-0	
4-Bromofluorobenzene (S)	101	%	77.0-126			1	07/05/22 16:14	07/05/22 16:14	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.0040		1		06/26/22 11:50	18496-25-8	
EPA 335.4	Analytical Method: EPA 335.4 Preparation Method: METHOD Pace Analytical Gulf Coast									
Cyanide	**0.0016J**	mg/L	0.0040	0.0012		1	06/30/22 10:00	06/30/22 14:41	57-12-5	
EPA 420.4 Rev. 1	Analytical Method: EPA 420.4 Preparation Method: EPA 420.1 Pace Analytical Gulf Coast									
Phenolics, Total Recoverable	**138**	ug/L	60.0	25.0		1	07/06/22 07:48	07/06/22 14:19	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: Trip Blank 1 **Lab ID: 20247389033** Collected: 06/20/22 06:00 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/02/22 19:49	07/02/22 19:49	67-64-1	
Benzene	ND	ug/L	1.00	0.0941		1	07/02/22 19:49	07/02/22 19:49	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/02/22 19:49	07/02/22 19:49	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/02/22 19:49	07/02/22 19:49	75-15-0	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/02/22 19:49	07/02/22 19:49	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/02/22 19:49	07/02/22 19:49	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/02/22 19:49	07/02/22 19:49	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/02/22 19:49	07/02/22 19:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/02/22 19:49	07/02/22 19:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/02/22 19:49	07/02/22 19:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/02/22 19:49	07/02/22 19:49	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/02/22 19:49	07/02/22 19:49	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/02/22 19:49	07/02/22 19:49	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/02/22 19:49	07/02/22 19:49	79-01-6	
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/02/22 19:49	07/02/22 19:49	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/02/22 19:49	07/02/22 19:49	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/02/22 19:49	07/02/22 19:49	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/02/22 19:49	07/02/22 19:49	1330-20-7	
Surrogates										
Toluene-d8 (S)	107	%	80.0-120			1	07/02/22 19:49	07/02/22 19:49	2037-26-5	
1,2-Dichloroethane-d4 (S)	102	%	70.0-130			1	07/02/22 19:49	07/02/22 19:49	17060-07-0	
4-Bromofluorobenzene (S)	99.7	%	77.0-126			1	07/02/22 19:49	07/02/22 19:49	460-00-4	

Sample: Trip Blank 2 **Lab ID: 20247389034** Collected: 06/20/22 06:05 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/02/22 13:15	07/02/22 13:15	67-64-1	
Benzene	ND	ug/L	1.00	0.0941		1	07/02/22 13:15	07/02/22 13:15	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/02/22 13:15	07/02/22 13:15	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/02/22 13:15	07/02/22 13:15	75-15-0	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/02/22 13:15	07/02/22 13:15	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/02/22 13:15	07/02/22 13:15	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/02/22 13:15	07/02/22 13:15	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/02/22 13:15	07/02/22 13:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/02/22 13:15	07/02/22 13:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/02/22 13:15	07/02/22 13:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/02/22 13:15	07/02/22 13:15	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/02/22 13:15	07/02/22 13:15	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: Trip Blank 2 **Lab ID: 20247389034** Collected: 06/20/22 06:05 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Toluene	ND	ug/L	1.00	0.278		1	07/02/22 13:15	07/02/22 13:15	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/02/22 13:15	07/02/22 13:15	79-01-6	
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/02/22 13:15	07/02/22 13:15	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/02/22 13:15	07/02/22 13:15	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/02/22 13:15	07/02/22 13:15	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/02/22 13:15	07/02/22 13:15	1330-20-7	
Surrogates										
Toluene-d8 (S)	108	%	80.0-120			1	07/02/22 13:15	07/02/22 13:15	2037-26-5	
1,2-Dichloroethane-d4 (S)	103	%	70.0-130			1	07/02/22 13:15	07/02/22 13:15	17060-07-0	
4-Bromofluorobenzene (S)	100	%	77.0-126			1	07/02/22 13:15	07/02/22 13:15	460-00-4	

Sample: Trip Blank 3 **Lab ID: 20247389035** Collected: 06/21/22 06:00 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/02/22 13:37	07/02/22 13:37	67-64-1	
Benzene	ND	ug/L	1.00	0.0941		1	07/02/22 13:37	07/02/22 13:37	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/02/22 13:37	07/02/22 13:37	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/02/22 13:37	07/02/22 13:37	75-15-0	
Chlorobenzene	**0.920J**	ug/L	1.00	0.116		1	07/02/22 13:37	07/02/22 13:37	108-90-7	J
Chloroform	ND	ug/L	5.00	0.111		1	07/02/22 13:37	07/02/22 13:37	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/02/22 13:37	07/02/22 13:37	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/02/22 13:37	07/02/22 13:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/02/22 13:37	07/02/22 13:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/02/22 13:37	07/02/22 13:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/02/22 13:37	07/02/22 13:37	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/02/22 13:37	07/02/22 13:37	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/02/22 13:37	07/02/22 13:37	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/02/22 13:37	07/02/22 13:37	79-01-6	
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/02/22 13:37	07/02/22 13:37	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/02/22 13:37	07/02/22 13:37	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/02/22 13:37	07/02/22 13:37	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/02/22 13:37	07/02/22 13:37	1330-20-7	
Surrogates										
Toluene-d8 (S)	109	%	80.0-120			1	07/02/22 13:37	07/02/22 13:37	2037-26-5	
1,2-Dichloroethane-d4 (S)	103	%	70.0-130			1	07/02/22 13:37	07/02/22 13:37	17060-07-0	
4-Bromofluorobenzene (S)	95.3	%	77.0-126			1	07/02/22 13:37	07/02/22 13:37	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: Trip Blank 4 **Lab ID: 20247389036** Collected: 06/21/22 06:05 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/02/22 13:58	07/02/22 13:58	67-64-1	
Benzene	ND	ug/L	1.00	0.0941		1	07/02/22 13:58	07/02/22 13:58	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/02/22 13:58	07/02/22 13:58	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/02/22 13:58	07/02/22 13:58	75-15-0	
Chlorobenzene	**0.896J**	ug/L	1.00	0.116		1	07/02/22 13:58	07/02/22 13:58	108-90-7	J
Chloroform	ND	ug/L	5.00	0.111		1	07/02/22 13:58	07/02/22 13:58	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/02/22 13:58	07/02/22 13:58	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/02/22 13:58	07/02/22 13:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/02/22 13:58	07/02/22 13:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/02/22 13:58	07/02/22 13:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/02/22 13:58	07/02/22 13:58	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/02/22 13:58	07/02/22 13:58	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/02/22 13:58	07/02/22 13:58	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/02/22 13:58	07/02/22 13:58	79-01-6	
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/02/22 13:58	07/02/22 13:58	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/02/22 13:58	07/02/22 13:58	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/02/22 13:58	07/02/22 13:58	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/02/22 13:58	07/02/22 13:58	1330-20-7	
Surrogates										
Toluene-d8 (S)	107	%	80.0-120			1	07/02/22 13:58	07/02/22 13:58	2037-26-5	
1,2-Dichloroethane-d4 (S)	102	%	70.0-130			1	07/02/22 13:58	07/02/22 13:58	17060-07-0	
4-Bromofluorobenzene (S)	97.2	%	77.0-126			1	07/02/22 13:58	07/02/22 13:58	460-00-4	

Sample: Trip Blank 5 **Lab ID: 20247389037** Collected: 06/22/22 06:00 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/02/22 14:20	07/02/22 14:20	67-64-1	
Benzene	ND	ug/L	1.00	0.0941		1	07/02/22 14:20	07/02/22 14:20	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/02/22 14:20	07/02/22 14:20	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/02/22 14:20	07/02/22 14:20	75-15-0	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/02/22 14:20	07/02/22 14:20	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/02/22 14:20	07/02/22 14:20	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/02/22 14:20	07/02/22 14:20	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/02/22 14:20	07/02/22 14:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/02/22 14:20	07/02/22 14:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/02/22 14:20	07/02/22 14:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/02/22 14:20	07/02/22 14:20	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/02/22 14:20	07/02/22 14:20	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating
Pace Project No.: 20247389

Sample: Trip Blank 5 **Lab ID: 20247389037** Collected: 06/22/22 06:00 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Toluene	ND	ug/L	1.00	0.278		1	07/02/22 14:20	07/02/22 14:20	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/02/22 14:20	07/02/22 14:20	79-01-6	
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/02/22 14:20	07/02/22 14:20	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/02/22 14:20	07/02/22 14:20	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/02/22 14:20	07/02/22 14:20	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/02/22 14:20	07/02/22 14:20	1330-20-7	
Surrogates										
Toluene-d8 (S)	109	%	80.0-120			1	07/02/22 14:20	07/02/22 14:20	2037-26-5	
1,2-Dichloroethane-d4 (S)	103	%	70.0-130			1	07/02/22 14:20	07/02/22 14:20	17060-07-0	
4-Bromofluorobenzene (S)	100	%	77.0-126			1	07/02/22 14:20	07/02/22 14:20	460-00-4	

Sample: Trip Blank 6 **Lab ID: 20247389038** Collected: 06/22/22 06:05 Received: 06/22/22 14:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	07/02/22 14:42	07/02/22 14:42	67-64-1	
Benzene	ND	ug/L	1.00	0.0941		1	07/02/22 14:42	07/02/22 14:42	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	07/02/22 14:42	07/02/22 14:42	75-27-4	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	07/02/22 14:42	07/02/22 14:42	75-15-0	
Chlorobenzene	ND	ug/L	1.00	0.116		1	07/02/22 14:42	07/02/22 14:42	108-90-7	
Chloroform	ND	ug/L	5.00	0.111		1	07/02/22 14:42	07/02/22 14:42	67-66-3	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	07/02/22 14:42	07/02/22 14:42	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	07/02/22 14:42	07/02/22 14:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	07/02/22 14:42	07/02/22 14:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	07/02/22 14:42	07/02/22 14:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	07/02/22 14:42	07/02/22 14:42	78-87-5	
Ethylbenzene	ND	ug/L	1.00	0.173		1	07/02/22 14:42	07/02/22 14:42	100-41-4	
Toluene	ND	ug/L	1.00	0.278		1	07/02/22 14:42	07/02/22 14:42	108-88-3	
Trichloroethene	ND	ug/L	1.00	0.190		1	07/02/22 14:42	07/02/22 14:42	79-01-6	
Vinyl chloride	ND	ug/L	1.00	0.234		1	07/02/22 14:42	07/02/22 14:42	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	07/02/22 14:42	07/02/22 14:42	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	07/02/22 14:42	07/02/22 14:42	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	07/02/22 14:42	07/02/22 14:42	1330-20-7	
Surrogates										
Toluene-d8 (S)	107	%	80.0-120			1	07/02/22 14:42	07/02/22 14:42	2037-26-5	
1,2-Dichloroethane-d4 (S)	104	%	70.0-130			1	07/02/22 14:42	07/02/22 14:42	17060-07-0	
4-Bromofluorobenzene (S)	99.6	%	77.0-126			1	07/02/22 14:42	07/02/22 14:42	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 1884672
QC Batch Method: 8011/504.1
Analysis Method: EPA 8011
Analysis Description: EDB / DBCP 8011
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20247389006, 20247389008, 20247389010

METHOD BLANK: R3807847-1 Matrix: Water
Associated Lab Samples: 20247389006, 20247389008, 20247389010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.0200	0.00536	06/24/22 15:56	
1,2-Dibromo-3-chloropropane	ug/L	ND	0.0200	0.00748	06/24/22 15:56	

LABORATORY CONTROL SAMPLE & LCSD: R3807847-4 R3807847-5

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.250	0.347	0.341	139	136	60.0-140	1.74	20	
1,2-Dibromo-3-chloropropane	ug/L	0.250	0.255	0.253	102	101	60.0-140	0.787	20	

MATRIX SPIKE SAMPLE: R3807847-2

Parameter	Units	L1507944-06 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.103	0.113	110	64.0-159	
1,2-Dibromo-3-chloropropane	ug/L	ND	0.103	0.111	108	72.0-148	

SAMPLE DUPLICATE: R3807847-3

Parameter	Units	L1507944-05 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND	0.00	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND	0.00	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 1885030
QC Batch Method: 3510C
Analysis Method: EPA 8081
Analysis Description: Pesticides (GC) 8081
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20247389001, 20247389002, 20247389003, 20247389004, 20247389005, 20247389006, 20247389010, 20247389012, 20247389018, 20247389019, 20247389020

METHOD BLANK: R3808493-1 Matrix: Water
Associated Lab Samples: 20247389001, 20247389002, 20247389003, 20247389004, 20247389005, 20247389006, 20247389010, 20247389012, 20247389018, 20247389019, 20247389020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aldrin	ug/L	ND	0.0500	0.0198	06/27/22 14:00	
alpha-BHC	ug/L	ND	0.0500	0.0172	06/27/22 14:00	
beta-BHC	ug/L	ND	0.0500	0.0208	06/27/22 14:00	
delta-BHC	ug/L	ND	0.0500	0.0150	06/27/22 14:00	
gamma-BHC (Lindane)	ug/L	ND	0.0500	0.0209	06/27/22 14:00	
Chlordane (Technical)	ug/L	ND	5.00	0.0198	06/27/22 14:00	
4,4'-DDD	ug/L	ND	0.0500	0.0177	06/27/22 14:00	
4,4'-DDE	ug/L	ND	0.0500	0.0154	06/27/22 14:00	
4,4'-DDT	ug/L	ND	0.0500	0.0198	06/27/22 14:00	
Dieldrin	ug/L	ND	0.0500	0.0162	06/27/22 14:00	
Endosulfan I	ug/L	ND	0.0500	0.0160	06/27/22 14:00	
Endosulfan II	ug/L	ND	0.0500	0.0164	06/27/22 14:00	
Endosulfan sulfate	ug/L	ND	0.0500	0.0217	06/27/22 14:00	
Endrin	ug/L	ND	0.0500	0.0161	06/27/22 14:00	
Endrin aldehyde	ug/L	ND	0.0500	0.0237	06/27/22 14:00	
Heptachlor	ug/L	ND	0.0500	0.0148	06/27/22 14:00	
Heptachlor epoxide	ug/L	ND	0.0500	0.0183	06/27/22 14:00	
Methoxychlor	ug/L	ND	0.0500	0.0193	06/27/22 14:00	
Toxaphene	ug/L	ND	0.500	0.168	06/27/22 14:00	
Decachlorobiphenyl (S)	%	36.4	10.0-128		06/27/22 14:00	
Tetrachloro-m-xylene (S)	%	82.4	10.0-127		06/27/22 14:00	

LABORATORY CONTROL SAMPLE & LCSD: R3808493-4 R3808493-5

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aldrin	ug/L	1.00	0.882	0.859	88.2	85.9	22.0-124	2.64	34	
alpha-BHC	ug/L	1.00	1.07	1.04	107	104	54.0-130	2.84	23	
beta-BHC	ug/L	1.00	1.15	1.11	115	111	53.0-136	3.54	20	
delta-BHC	ug/L	1.00	1.07	1.03	107	103	54.0-133	3.81	20	
gamma-BHC (Lindane)	ug/L	1.00	1.10	1.07	110	107	55.0-129	2.76	20	
4,4'-DDD	ug/L	1.00	1.29	1.22	129	122	56.0-140	5.58	22	
4,4'-DDE	ug/L	1.00	1.01	0.982	101	98.2	52.0-128	2.81	22	
4,4'-DDT	ug/L	1.00	1.26	1.20	126	120	50.0-141	4.88	23	
Dieldrin	ug/L	1.00	1.14	1.10	114	110	59.0-133	3.57	20	
Endosulfan I	ug/L	1.00	1.07	1.04	107	104	57.0-131	2.84	20	
Endosulfan II	ug/L	1.00	1.09	1.07	109	107	58.0-133	1.85	20	
Endosulfan sulfate	ug/L	1.00	1.12	1.08	112	108	58.0-133	3.64	21	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

LABORATORY CONTROL SAMPLE & LCSD: R3808493-4 R3808493-5

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Endrin	ug/L	1.00	1.20	1.13	120	113	57.0-134	6.01	21	
Endrin aldehyde	ug/L	1.00	0.977	0.938	97.7	93.8	53.0-129	4.07	20	
Heptachlor	ug/L	1.00	1.29	1.25	129	125	27.0-132	3.15	31	
Heptachlor epoxide	ug/L	1.00	1.13	1.08	113	108	57.0-130	4.52	20	
Methoxychlor	ug/L	1.00	1.30	1.26	130	126	54.0-155	3.12	24	
Decachlorobiphenyl (S)	%				69.0	57.6	10.0-128			
Tetrachloro-m-xylene (S)	%				88.0	87.4	10.0-127			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 1885742
QC Batch Method: 3510C
Analysis Method: EPA 8081
Analysis Description: Pesticides (GC) 8081
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20247389009, 20247389011, 20247389013, 20247389014, 20247389015, 20247389017, 20247389021, 20247389022, 20247389023, 20247389024, 20247389025, 20247389026, 20247389027, 20247389032

METHOD BLANK: R3809653-1 Matrix: Water
Associated Lab Samples: 20247389009, 20247389011, 20247389013, 20247389014, 20247389015, 20247389017, 20247389021, 20247389022, 20247389023, 20247389024, 20247389025, 20247389026, 20247389027, 20247389032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aldrin	ug/L	ND	0.0500	0.0198	06/27/22 22:38	
Decachlorobiphenyl (S)	%	45.3	10.0-128		06/27/22 22:38	
Tetrachloro-m-xylene (S)	%	79.3	10.0-127		06/27/22 22:38	

LABORATORY CONTROL SAMPLE: R3809653-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aldrin	ug/L	1.00	0.697	69.7	22.0-124	
Decachlorobiphenyl (S)	%			70.8	10.0-128	
Tetrachloro-m-xylene (S)	%			70.8	10.0-127	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3809653-3 R3809653-4

Parameter	Units	20247389009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aldrin	ug/L	ND	1.00	1.00	0.734	0.743	73.4	74.3	10.0-141	1.22	40	
Decachlorobiphenyl (S)	%						57.4	51.2	10.0-128			
Tetrachloro-m-xylene (S)	%						73.1	77.9	10.0-127			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 1886195
QC Batch Method: 3510C
Analysis Method: EPA 8081
Analysis Description: Pesticides (GC) 8081
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20247389028, 20247389029, 20247389030, 20247389031

METHOD BLANK: R3809745-1 Matrix: Water
Associated Lab Samples: 20247389028, 20247389029, 20247389030, 20247389031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aldrin	ug/L	ND	0.0500	0.0198	06/28/22 21:24	
Decachlorobiphenyl (S)	%	97	10.0-128		06/28/22 21:24	
Tetrachloro-m-xylene (S)	%	93.1	10.0-127		06/28/22 21:24	

LABORATORY CONTROL SAMPLE: R3809745-3

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aldrin	ug/L	1.00	1.11	111	22.0-124	
Decachlorobiphenyl (S)	%			116	10.0-128	
Tetrachloro-m-xylene (S)	%			106	10.0-127	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3809745-4 R3809745-5

Parameter	Units	L1508728-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aldrin	ug/L	ND	1.00	1.00	0.854	0.968	85.4	96.8	10.0-141	12.5	40	
Decachlorobiphenyl (S)	%						94.7	105	10.0-128			
Tetrachloro-m-xylene (S)	%						80.9	96.2	10.0-127			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 1886468
QC Batch Method: 3510C
Analysis Method: EPA 8081
Analysis Description: Pesticides (GC) 8081
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20247389007, 20247389008, 20247389016

METHOD BLANK: R3809878-1 Matrix: Water
Associated Lab Samples: 20247389007, 20247389008, 20247389016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aldrin	ug/L	ND	0.0500	0.0198	06/28/22 23:25	
alpha-BHC	ug/L	ND	0.0500	0.0172	06/28/22 23:25	
beta-BHC	ug/L	ND	0.0500	0.0208	06/28/22 23:25	
delta-BHC	ug/L	ND	0.0500	0.0150	06/28/22 23:25	
gamma-BHC (Lindane)	ug/L	ND	0.0500	0.0209	06/28/22 23:25	
Chlordane (Technical)	ug/L	ND	5.00	0.0198	06/28/22 23:25	
4,4'-DDD	ug/L	ND	0.0500	0.0177	06/28/22 23:25	
4,4'-DDE	ug/L	ND	0.0500	0.0154	06/28/22 23:25	
4,4'-DDT	ug/L	ND	0.0500	0.0198	06/28/22 23:25	
Dieldrin	ug/L	ND	0.0500	0.0162	06/28/22 23:25	
Endosulfan I	ug/L	ND	0.0500	0.0160	06/28/22 23:25	
Endosulfan II	ug/L	ND	0.0500	0.0164	06/28/22 23:25	
Endosulfan sulfate	ug/L	ND	0.0500	0.0217	06/28/22 23:25	
Endrin	ug/L	ND	0.0500	0.0161	06/28/22 23:25	
Endrin aldehyde	ug/L	ND	0.0500	0.0237	06/28/22 23:25	
Heptachlor	ug/L	ND	0.0500	0.0148	06/28/22 23:25	
Heptachlor epoxide	ug/L	ND	0.0500	0.0183	06/28/22 23:25	
Methoxychlor	ug/L	ND	0.0500	0.0193	06/28/22 23:25	
Toxaphene	ug/L	ND	0.500	0.168	06/28/22 23:25	
Decachlorobiphenyl (S)	%	82.3	10.0-128		06/28/22 23:25	
Tetrachloro-m-xylene (S)	%	114	10.0-127		06/28/22 23:25	

LABORATORY CONTROL SAMPLE & LCSD: R3809878-2 R3809878-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aldrin	ug/L	1.00	0.887	0.987	88.7	98.7	22.0-124	10.7	34	
alpha-BHC	ug/L	1.00	1.10	1.14	110	114	54.0-130	3.57	23	
beta-BHC	ug/L	1.00	1.07	1.21	107	121	53.0-136	12.3	20	
delta-BHC	ug/L	1.00	1.08	1.12	108	112	54.0-133	3.64	20	
gamma-BHC (Lindane)	ug/L	1.00	1.13	1.23	113	123	55.0-129	8.47	20	
4,4'-DDD	ug/L	1.00	1.12	1.11	112	111	56.0-140	0.897	22	
4,4'-DDE	ug/L	1.00	1.02	1.16	102	116	52.0-128	12.8	22	
4,4'-DDT	ug/L	1.00	1.02	1.12	102	112	50.0-141	9.35	23	
Dieldrin	ug/L	1.00	1.06	1.14	106	114	59.0-133	7.27	20	
Endosulfan I	ug/L	1.00	1.08	1.21	108	121	57.0-131	11.4	20	
Endosulfan II	ug/L	1.00	1.02	1.09	102	109	58.0-133	6.64	20	
Endosulfan sulfate	ug/L	1.00	1.06	1.13	106	113	58.0-133	6.39	21	
Endrin	ug/L	1.00	1.08	1.15	108	115	57.0-134	6.28	21	
Endrin aldehyde	ug/L	1.00	1.06	1.15	106	115	53.0-129	8.14	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

LABORATORY CONTROL SAMPLE & LCSD: R3809878-2 R3809878-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Heptachlor	ug/L	1.00	0.998	1.09	99.8	109	27.0-132	8.81	31	
Heptachlor epoxide	ug/L	1.00	1.08	1.12	108	112	57.0-130	3.64	20	
Methoxychlor	ug/L	1.00	0.957	1.03	95.7	103	54.0-155	7.35	24	
Decachlorobiphenyl (S)	%				82.5	95.3	10.0-128			
Tetrachloro-m-xylene (S)	%				105	106	10.0-127			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 1886198
QC Batch Method: 3510C
Analysis Method: EPA 8141
Analysis Description: OP Pesticides 8141
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20247389006, 20247389008, 20247389010

METHOD BLANK: R3808947-1 Matrix: Water
Associated Lab Samples: 20247389006, 20247389008, 20247389010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Disulfoton	ug/L	ND	1.00	0.227	06/28/22 16:25	
Parathion (Ethyl parathion)	ug/L	ND	1.00	0.454	06/28/22 16:25	
Methyl parathion	ug/L	ND	1.00	0.383	06/28/22 16:25	
Phorate	ug/L	ND	1.00	0.276	06/28/22 16:25	
Sulfotep (Thiodiphosphoric Ac	ug/L	ND	1.00	0.181	06/28/22 16:25	
Triphenylphosphate (S)	%	79.2	42.0-129		06/28/22 16:25	

LABORATORY CONTROL SAMPLE & LCSD: R3808947-2 R3808947-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Disulfoton	ug/L	5.00	2.89	3.28	57.8	65.6	44.0-136	12.6	21	
Parathion (Ethyl parathion)	ug/L	5.00	3.80	3.92	76.0	78.4	42.0-134	3.11	20	
Methyl parathion	ug/L	5.00	3.90	4.00	78.0	80.0	43.0-135	2.53	20	
Phorate	ug/L	5.00	3.45	3.64	69.0	72.8	44.0-129	5.36	20	
Sulfotep (Thiodiphosphoric Ac	ug/L	5.00	3.71	3.92	74.2	78.4	40.0-140	5.50	22	
Triphenylphosphate (S)	%				71.8	72.6	42.0-129			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 1884833
QC Batch Method: 8151A
Analysis Method: EPA 8151
Analysis Description: Chlorinated Herb. (GC) 8151
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20247389001, 20247389002, 20247389003, 20247389004, 20247389009, 20247389011, 20247389013, 20247389014, 20247389015, 20247389017, 20247389021, 20247389022, 20247389023, 20247389024, 20247389025, 20247389026, 20247389027

METHOD BLANK: R3809027-1 Matrix: Water
Associated Lab Samples: 20247389001, 20247389002, 20247389003, 20247389004, 20247389009, 20247389011, 20247389013, 20247389014, 20247389015, 20247389017, 20247389021, 20247389022, 20247389023, 20247389024, 20247389025, 20247389026, 20247389027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2,4,5-TP (Silvex)	ug/L	ND	2.00	0.335	06/28/22 21:00	
2,4-DCAA (S)	%	101	14.0-158		06/28/22 21:00	

LABORATORY CONTROL SAMPLE & LCSD: R3809027-2 R3809027-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2,4,5-TP (Silvex)	ug/L	5.00	5.57	5.64	111	113	50.0-125	1.25	20	E
2,4-DCAA (S)	%				114	114	14.0-158			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 1886587
QC Batch Method: 8151A
Analysis Method: EPA 8151
Analysis Description: Chlorinated Herb. (GC) 8151
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20247389005, 20247389006, 20247389007, 20247389008, 20247389010, 20247389012, 20247389016, 20247389018, 20247389019, 20247389020, 20247389028, 20247389029, 20247389030, 20247389031, 20247389032

METHOD BLANK: R3809821-1 Matrix: Water
Associated Lab Samples: 20247389005, 20247389006, 20247389007, 20247389008, 20247389010, 20247389012, 20247389016, 20247389018, 20247389019, 20247389020, 20247389028, 20247389029, 20247389030, 20247389031, 20247389032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2,4-D	ug/L	ND	2.00	0.547	06/30/22 17:43	
2,4,5-T	ug/L	ND	2.00	0.258	06/30/22 17:43	
2,4,5-TP (Silvex)	ug/L	ND	2.00	0.335	06/30/22 17:43	
2,4-DCAA (S)	%	61.8	14.0-158		06/30/22 17:43	

LABORATORY CONTROL SAMPLE & LCSD: R3809821-2 R3809821-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2,4-D	ug/L	5.00	5.55	5.44	111	109	50.0-120	2.00	20	E
2,4,5-T	ug/L	5.00	4.10	4.03	82.0	80.6	54.0-120	1.72	20	P9
2,4,5-TP (Silvex)	ug/L	5.00	4.48	4.28	89.6	85.6	50.0-125	4.57	20	
2,4-DCAA (S)	%				183	76.2	14.0-158			ST

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 258967
QC Batch Method: EPA 3010
Analysis Method: EPA 6020A
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20247389001, 20247389002, 20247389003, 20247389004, 20247389005, 20247389006, 20247389007, 20247389008, 20247389009, 20247389010, 20247389011, 20247389012, 20247389013, 20247389014, 20247389015, 20247389016, 20247389017, 20247389018, 20247389019, 20247389020

METHOD BLANK: 1235155
Matrix: Water
Associated Lab Samples: 20247389001, 20247389002, 20247389003, 20247389004, 20247389005, 20247389006, 20247389007, 20247389008, 20247389009, 20247389010, 20247389011, 20247389012, 20247389013, 20247389014, 20247389015, 20247389016, 20247389017, 20247389018, 20247389019, 20247389020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.00063	06/27/22 16:14	
Arsenic	mg/L	ND	0.0010	0.00020	06/27/22 16:14	
Barium	mg/L	ND	0.0010	0.00036	06/27/22 16:14	
Beryllium	mg/L	ND	0.0010	0.00012	06/27/22 16:14	
Cadmium	mg/L	ND	0.0010	0.000080	06/27/22 16:14	
Chromium	mg/L	ND	0.0010	0.00062	06/27/22 16:14	
Cobalt	mg/L	ND	0.0010	0.000060	06/27/22 16:14	
Copper	mg/L	ND	0.0030	0.00083	06/27/22 16:14	
Lead	mg/L	ND	0.0010	0.000070	06/27/22 16:14	
Nickel	mg/L	ND	0.0010	0.00056	06/27/22 16:14	
Selenium	mg/L	ND	0.0010	0.00037	06/27/22 16:14	
Silver	mg/L	ND	0.00050	0.000080	06/27/22 16:14	
Thallium	mg/L	ND	0.00050	0.000080	06/27/22 16:14	
Tin	mg/L	ND	0.0060	0.00043	06/27/22 16:14	
Vanadium	mg/L	ND	0.0050	0.0023	06/27/22 16:14	
Zinc	mg/L	ND	0.010	0.0044	06/27/22 16:14	

LABORATORY CONTROL SAMPLE: 1235156

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.06	0.060	100	85-115	
Arsenic	mg/L	0.06	0.060	100	85-115	
Barium	mg/L	0.06	0.059	98	85-115	
Beryllium	mg/L	0.06	0.059	99	84-115	
Cadmium	mg/L	0.06	0.061	101	85-115	
Chromium	mg/L	0.06	0.061	101	85-115	
Cobalt	mg/L	0.06	0.060	101	85-115	
Copper	mg/L	0.06	0.060	101	85-116	
Lead	mg/L	0.06	0.061	101	85-115	
Nickel	mg/L	0.06	0.060	101	85-115	
Selenium	mg/L	0.06	0.057	94	85-115	
Silver	mg/L	0.03	0.031	102	85-115	
Thallium	mg/L	0.03	0.030	100	85-115	
Tin	mg/L	0.06	0.065	108	85-115	
Vanadium	mg/L	0.06	0.060	100	85-115	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

LABORATORY CONTROL SAMPLE: 1235156

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Zinc	mg/L	0.06	0.060	100	85-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1235157 1235158

Parameter	Units	20247389001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.06	0.06	0.059	0.059	98	98	80-120	0	20	
Arsenic	mg/L	0.00058J	0.06	0.06	0.057	0.057	94	94	80-120	0	20	
Barium	mg/L	0.36	0.06	0.06	0.41	0.39	74	38	80-120	5	20	M1
Beryllium	mg/L	ND	0.06	0.06	0.064	0.056	107	94	80-120	13	20	
Cadmium	mg/L	ND	0.06	0.06	0.058	0.058	97	96	80-120	1	20	
Chromium	mg/L	0.00095J	0.06	0.06	0.060	0.058	98	96	80-120	2	20	
Cobalt	mg/L	ND	0.06	0.06	0.057	0.056	95	94	80-120	1	20	
Copper	mg/L	ND	0.06	0.06	0.057	0.056	94	94	80-120	1	20	
Lead	mg/L	ND	0.06	0.06	0.060	0.059	100	99	80-120	1	20	
Nickel	mg/L	ND	0.06	0.06	0.057	0.057	94	95	80-120	0	20	
Selenium	mg/L	ND	0.06	0.06	0.053	0.052	88	86	80-120	2	20	
Silver	mg/L	ND	0.03	0.03	0.029	0.029	98	98	80-120	0	20	
Thallium	mg/L	ND	0.03	0.03	0.030	0.029	98	97	80-120	2	20	
Tin	mg/L	ND	0.06	0.06	0.064	0.064	106	106	80-120	0	20	
Vanadium	mg/L	ND	0.06	0.06	0.058	0.057	96	96	80-120	1	20	
Zinc	mg/L	0.040	0.06	0.06	0.095	0.092	91	86	80-120	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 258969
QC Batch Method: EPA 3010
Analysis Method: EPA 6020A
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20247389021, 20247389022, 20247389023, 20247389024, 20247389025, 20247389026, 20247389027, 20247389028, 20247389029, 20247389030, 20247389031, 20247389032

METHOD BLANK: 1235159 Matrix: Water
Associated Lab Samples: 20247389021, 20247389022, 20247389023, 20247389024, 20247389025, 20247389026, 20247389027, 20247389028, 20247389029, 20247389030, 20247389031, 20247389032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.00063	06/27/22 16:26	
Arsenic	mg/L	ND	0.0010	0.00020	06/27/22 16:26	
Barium	mg/L	ND	0.0010	0.00036	06/27/22 16:26	
Beryllium	mg/L	ND	0.0010	0.00012	06/27/22 16:26	
Cadmium	mg/L	ND	0.0010	0.000080	06/27/22 16:26	
Chromium	mg/L	ND	0.0010	0.00062	06/27/22 16:26	
Cobalt	mg/L	ND	0.0010	0.000060	06/27/22 16:26	
Copper	mg/L	ND	0.0030	0.00083	06/27/22 16:26	
Lead	mg/L	ND	0.0010	0.000070	06/27/22 16:26	
Nickel	mg/L	ND	0.0010	0.00056	06/27/22 16:26	
Selenium	mg/L	ND	0.0010	0.00037	06/27/22 16:26	
Silver	mg/L	ND	0.00050	0.000080	06/27/22 16:26	
Thallium	mg/L	ND	0.00050	0.000080	06/27/22 16:26	
Tin	mg/L	ND	0.0060	0.00043	06/27/22 16:26	
Vanadium	mg/L	ND	0.0050	0.0023	06/27/22 16:26	
Zinc	mg/L	ND	0.010	0.0044	06/27/22 16:26	

LABORATORY CONTROL SAMPLE: 1235160

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.06	0.060	101	85-115	
Arsenic	mg/L	0.06	0.060	99	85-115	
Barium	mg/L	0.06	0.058	97	85-115	
Beryllium	mg/L	0.06	0.055	92	84-115	
Cadmium	mg/L	0.06	0.060	100	85-115	
Chromium	mg/L	0.06	0.061	102	85-115	
Cobalt	mg/L	0.06	0.061	101	85-115	
Copper	mg/L	0.06	0.061	102	85-116	
Lead	mg/L	0.06	0.061	101	85-115	
Nickel	mg/L	0.06	0.061	101	85-115	
Selenium	mg/L	0.06	0.056	93	85-115	
Silver	mg/L	0.03	0.031	103	85-115	
Thallium	mg/L	0.03	0.030	99	85-115	
Tin	mg/L	0.06	0.065	108	85-115	
Vanadium	mg/L	0.06	0.060	101	85-115	
Zinc	mg/L	0.06	0.062	104	85-121	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1235161 1235162

Parameter	Units	20247389021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.06	0.06	0.061	0.061	101	101	80-120	0	20	
Arsenic	mg/L	0.00024J	0.06	0.06	0.058	0.058	95	97	80-120	2	20	
Barium	mg/L	0.36	0.06	0.06	0.40	0.39	75	56	80-120	3	20	M1
Beryllium	mg/L	ND	0.06	0.06	0.058	0.060	96	100	80-120	3	20	
Cadmium	mg/L	ND	0.06	0.06	0.058	0.059	97	98	80-120	1	20	
Chromium	mg/L	ND	0.06	0.06	0.060	0.060	99	100	80-120	1	20	
Cobalt	mg/L	ND	0.06	0.06	0.058	0.058	97	97	80-120	0	20	
Copper	mg/L	ND	0.06	0.06	0.058	0.058	95	96	80-120	1	20	
Lead	mg/L	ND	0.06	0.06	0.061	0.061	102	102	80-120	0	20	
Nickel	mg/L	ND	0.06	0.06	0.058	0.058	96	97	80-120	1	20	
Selenium	mg/L	ND	0.06	0.06	0.054	0.053	91	88	80-120	3	20	
Silver	mg/L	ND	0.03	0.03	0.029	0.029	97	97	80-120	0	20	
Thallium	mg/L	ND	0.03	0.03	0.030	0.030	100	100	80-120	0	20	
Tin	mg/L	ND	0.06	0.06	0.064	0.066	107	109	80-120	2	20	
Vanadium	mg/L	ND	0.06	0.06	0.060	0.059	99	99	80-120	1	20	
Zinc	mg/L	ND	0.06	0.06	0.061	0.062	96	96	80-120	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
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251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 743907
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470
Analysis Description: EPA 7470A
Laboratory: Pace Analytical Gulf Coast
Associated Lab Samples: 20247389009, 20247389011, 20247389013, 20247389014, 20247389015, 20247389017, 20247389021, 20247389022, 20247389023, 20247389024, 20247389025, 20247389026, 20247389027

METHOD BLANK: 2362820
Matrix: Water
Associated Lab Samples: 20247389009, 20247389011, 20247389013, 20247389014, 20247389015, 20247389017, 20247389021, 20247389022, 20247389023, 20247389024, 20247389025, 20247389026, 20247389027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00010	06/24/22 13:14	

LABORATORY CONTROL SAMPLE & LCSD: 2362822 2362821

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	mg/L	0.005	0.0048	0.0051	97	101	80-120	5	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 744046
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470
Analysis Description: EPA 7470A
Laboratory: Pace Analytical Gulf Coast
Associated Lab Samples: 20247389001, 20247389002, 20247389003, 20247389004, 20247389005, 20247389006, 20247389007, 20247389008, 20247389010, 20247389012, 20247389016, 20247389018, 20247389019, 20247389020, 20247389028, 20247389029, 20247389030, 20247389031, 20247389032

METHOD BLANK: 2363599
Matrix: Water
Associated Lab Samples: 20247389001, 20247389002, 20247389003, 20247389004, 20247389005, 20247389006, 20247389007, 20247389008, 20247389010, 20247389012, 20247389016, 20247389018, 20247389019, 20247389020, 20247389028, 20247389029, 20247389030, 20247389031, 20247389032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00010	06/28/22 14:33	

LABORATORY CONTROL SAMPLE & LCSD: 2363601 2363600

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	mg/L	0.005	0.0052	0.0049	105	98	80-120	6	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 1885027
QC Batch Method: 3510C
Analysis Method: EPA 8270C
Analysis Description: SVOA (GC/MS) 8270C
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20247389009, 20247389011, 20247389013, 20247389014, 20247389015, 20247389017, 20247389021, 20247389022, 20247389023, 20247389024, 20247389025, 20247389026, 20247389027

METHOD BLANK: R3807834-3
Matrix: Water
Associated Lab Samples: 20247389009, 20247389011, 20247389013, 20247389014, 20247389015, 20247389017, 20247389021, 20247389022, 20247389023, 20247389024, 20247389025, 20247389026, 20247389027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	1.00	0.0886	06/26/22 13:42	
Acenaphthylene	ug/L	ND	1.00	0.0921	06/26/22 13:42	
Anthracene	ug/L	ND	1.00	0.0804	06/26/22 13:42	
Benzo(a)anthracene	ug/L	ND	1.00	0.199	06/26/22 13:42	
Benzo(b)fluoranthene	ug/L	ND	1.00	0.130	06/26/22 13:42	
Benzo(k)fluoranthene	ug/L	ND	1.00	0.120	06/26/22 13:42	
Benzo(g,h,i)perylene	ug/L	ND	1.00	0.121	06/26/22 13:42	
Benzo(a)pyrene	ug/L	ND	1.00	0.0381	06/26/22 13:42	
Chrysene	ug/L	ND	1.00	0.130	06/26/22 13:42	
Dibenzofuran	ug/L	ND	10.0	0.0970	06/26/22 13:42	
Fluoranthene	ug/L	ND	1.00	0.102	06/26/22 13:42	
Fluorene	ug/L	ND	1.00	0.0844	06/26/22 13:42	
Hexachloroethane	ug/L	ND	10.0	0.127	06/26/22 13:42	
Indeno(1,2,3-cd)pyrene	ug/L	ND	1.00	0.279	06/26/22 13:42	
1-Methylnaphthalene	ug/L	ND	1.00	0.0790	06/26/22 13:42	
2-Methylnaphthalene	ug/L	ND	1.00	0.117	06/26/22 13:42	
Naphthalene	ug/L	ND	1.00	0.159	06/26/22 13:42	
N-Nitrosodiphenylamine	ug/L	ND	10.0	2.37	06/26/22 13:42	
Phenanthrene	ug/L	ND	1.00	0.112	06/26/22 13:42	
bis(2-Ethylhexyl)phthalate	ug/L	ND	3.00	0.895	06/26/22 13:42	
Di-n-octylphthalate	ug/L	ND	3.00	0.932	06/26/22 13:42	
Pyrene	ug/L	ND	1.00	0.107	06/26/22 13:42	
2,4-Dimethylphenol	ug/L	ND	10.0	0.0636	06/26/22 13:42	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	0.168	06/26/22 13:42	
Pentachlorophenol	ug/L	ND	10.0	0.313	06/26/22 13:42	
Phenol	ug/L	ND	10.0	4.33	06/26/22 13:42	
2-Fluorophenol (S)	%	33.4	10.0-120		06/26/22 13:42	
Phenol-d5 (S)	%	21.2	10.0-120		06/26/22 13:42	
Nitrobenzene-d5 (S)	%	75.9	10.0-127		06/26/22 13:42	
2-Fluorobiphenyl (S)	%	72.5	10.0-130		06/26/22 13:42	
2,4,6-Tribromophenol (S)	%	71	10.0-155		06/26/22 13:42	
Terphenyl-d14 (S)	%	79.2	10.0-128		06/26/22 13:42	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

METHOD BLANK: R3808153-2 Matrix: Water

Associated Lab Samples: 20247389009, 20247389011, 20247389013, 20247389014, 20247389015, 20247389017, 20247389021, 20247389022, 20247389023, 20247389024, 20247389025, 20247389026, 20247389027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Naphthalenamine	ug/L	ND	10.0	0.289	06/27/22 17:39	
2-Naphthalenamine	ug/L	ND	10.0	4.48	06/27/22 17:39	
O-Toluidine	ug/L	ND	10.0	3.53	06/27/22 17:39	

LABORATORY CONTROL SAMPLE & LCSD: R3807834-1 R3807834-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acenaphthene	ug/L	50.0	38.0	38.9	76.0	77.8	41.0-120	2.34	22	
Acenaphthylene	ug/L	50.0	41.0	41.6	82.0	83.2	43.0-120	1.45	22	
Anthracene	ug/L	50.0	40.8	41.5	81.6	83.0	45.0-120	1.70	20	
Benzo(a)anthracene	ug/L	50.0	45.9	45.4	91.8	90.8	47.0-120	1.10	20	
Benzo(b)fluoranthene	ug/L	50.0	42.7	43.1	85.4	86.2	46.0-120	0.932	20	
Benzo(k)fluoranthene	ug/L	50.0	42.9	42.9	85.8	85.8	46.0-120	0.00	21	
Benzo(g,h,i)perylene	ug/L	50.0	38.5	39.6	77.0	79.2	48.0-121	2.82	20	
Benzo(a)pyrene	ug/L	50.0	45.8	45.8	91.6	91.6	47.0-120	0.00	20	
Chrysene	ug/L	50.0	38.7	39.0	77.4	78.0	48.0-120	0.772	20	
Dibenzofuran	ug/L	50.0	42.3	43.1	84.6	86.2	44.0-120	1.87	22	
Fluoranthene	ug/L	50.0	42.6	42.3	85.2	84.6	51.0-120	0.707	20	
Fluorene	ug/L	50.0	43.1	44.2	86.2	88.4	47.0-120	2.52	20	
Hexachloroethane	ug/L	50.0	36.9	34.5	73.8	69.0	15.0-120	6.72	37	
Indeno(1,2,3-cd)pyrene	ug/L	50.0	39.5	39.9	79.0	79.8	49.0-122	1.01	20	
1-Methylnaphthalene	ug/L	50.0	35.0	35.1	70.0	70.2	33.0-120	0.285	24	
2-Methylnaphthalene	ug/L	50.0	34.3	33.6	68.6	67.2	33.0-120	2.06	25	
Naphthalene	ug/L	50.0	36.2	35.2	72.4	70.4	27.0-120	2.80	27	
N-Nitrosodiphenylamine	ug/L	50.0	38.6	38.0	77.2	76.0	47.0-120	1.57	20	
Phenanthrene	ug/L	50.0	39.4	39.8	78.8	79.6	46.0-120	1.01	20	
bis(2-Ethylhexyl)phthalate	ug/L	50.0	37.3	37.7	74.6	75.4	43.0-122	1.07	20	
Di-n-octylphthalate	ug/L	50.0	37.2	38.2	74.4	76.4	42.0-125	2.65	20	
Pyrene	ug/L	50.0	40.3	40.7	80.6	81.4	47.0-120	0.988	20	
2,4-Dimethylphenol	ug/L	50.0	31.2	28.2	62.4	56.4	33.0-120	10.1	26	
3&4-Methylphenol(m&p Cresol)	ug/L	50.0	31.1	31.3	62.2	62.6	31.0-120	0.641	30	
Pentachlorophenol	ug/L	50.0	37.9	38.8	75.8	77.6	23.0-120	2.35	25	
Phenol	ug/L	50.0	13.1	11.7	26.2	23.4	10.0-120	11.3	36	
2-Fluorophenol (S)	%				35.4	34.9	10.0-120			
Phenol-d5 (S)	%				23.1	22.1	10.0-120			
Nitrobenzene-d5 (S)	%				67.6	67.1	10.0-127			
2-Fluorobiphenyl (S)	%				69.1	71.5	10.0-130			
2,4,6-Tribromophenol (S)	%				78.0	77.5	10.0-155			
Terphenyl-d14 (S)	%				69.3	70.3	10.0-128			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

LABORATORY CONTROL SAMPLE: R3808153-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Naphthalenamine	ug/L	50.0	30.6	61.2	19.0-120	
2-Naphthalenamine	ug/L	50.0	29.3	58.6	10.0-120	
O-Toluidine	ug/L	50.0	25.1	50.2	10.0-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 1885750
QC Batch Method: 3510C
Analysis Method: EPA 8270C
Analysis Description: SVOA (GC/MS) 8270C
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20247389001, 20247389002, 20247389003, 20247389004, 20247389005, 20247389006, 20247389010, 20247389012, 20247389018, 20247389019, 20247389020, 20247389028, 20247389029, 20247389030, 20247389031, 20247389032

METHOD BLANK: R3808733-2
Matrix: Water
Associated Lab Samples: 20247389001, 20247389002, 20247389003, 20247389004, 20247389005, 20247389006, 20247389010, 20247389012, 20247389018, 20247389019, 20247389020, 20247389028, 20247389029, 20247389030, 20247389031, 20247389032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	1.00	0.0886	06/28/22 15:11	
Acenaphthylene	ug/L	ND	1.00	0.0921	06/28/22 15:11	
Acetophenone	ug/L	ND	10.0	0.208	06/28/22 15:11	
Aniline	ug/L	ND	10.0	1.65	06/28/22 15:11	
Anthracene	ug/L	ND	1.00	0.0804	06/28/22 15:11	
Benzo(a)anthracene	ug/L	ND	1.00	0.199	06/28/22 15:11	
Benzo(b)fluoranthene	ug/L	ND	1.00	0.130	06/28/22 15:11	
Benzo(k)fluoranthene	ug/L	ND	1.00	0.120	06/28/22 15:11	
Benzo(g,h,i)perylene	ug/L	ND	1.00	0.121	06/28/22 15:11	
Benzo(a)pyrene	ug/L	ND	1.00	0.0381	06/28/22 15:11	
Benzyl alcohol	ug/L	ND	10.0	0.563	06/28/22 15:11	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	0.116	06/28/22 15:11	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	0.137	06/28/22 15:11	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	10.0	0.210	06/28/22 15:11	
4-Bromophenylphenyl ether	ug/L	ND	10.0	0.0877	06/28/22 15:11	
4-Chloroaniline	ug/L	ND	10.0	0.234	06/28/22 15:11	
2-Chloronaphthalene	ug/L	ND	1.00	0.0648	06/28/22 15:11	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	0.0926	06/28/22 15:11	
Chrysene	ug/L	ND	1.00	0.130	06/28/22 15:11	
Dibenz(a,h)anthracene	ug/L	ND	1.00	0.0644	06/28/22 15:11	
Dibenzofuran	ug/L	ND	10.0	0.0970	06/28/22 15:11	
1,2-Dichlorobenzene	ug/L	ND	10.0	0.0713	06/28/22 15:11	
1,3-Dichlorobenzene	ug/L	ND	10.0	0.132	06/28/22 15:11	
1,4-Dichlorobenzene	ug/L	ND	10.0	0.0942	06/28/22 15:11	
3,3'-Dichlorobenzidine	ug/L	ND	10.0	0.212	06/28/22 15:11	
2,4-Dinitrotoluene	ug/L	ND	10.0	0.0983	06/28/22 15:11	
2,6-Dinitrotoluene	ug/L	ND	10.0	0.250	06/28/22 15:11	
Fluoranthene	ug/L	ND	1.00	0.102	06/28/22 15:11	
Fluorene	ug/L	ND	1.00	0.0844	06/28/22 15:11	
Hexachlorobenzene	ug/L	ND	1.00	0.0755	06/28/22 15:11	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	0.0968	06/28/22 15:11	
Hexachlorocyclopentadiene	ug/L	ND	10.0	0.0598	06/28/22 15:11	
Hexachloroethane	ug/L	ND	10.0	0.127	06/28/22 15:11	
Indeno(1,2,3-cd)pyrene	ug/L	ND	1.00	0.279	06/28/22 15:11	
Isophorone	ug/L	ND	10.0	0.143	06/28/22 15:11	
1-Methylnaphthalene	ug/L	ND	1.00	0.0790	06/28/22 15:11	
2-Methylnaphthalene	ug/L	ND	1.00	0.117	06/28/22 15:11	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

METHOD BLANK: R3808733-2 Matrix: Water

Associated Lab Samples: 20247389001, 20247389002, 20247389003, 20247389004, 20247389005, 20247389006, 20247389010, 20247389012, 20247389018, 20247389019, 20247389020, 20247389028, 20247389029, 20247389030, 20247389031, 20247389032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Nitroaniline	ug/L	ND	10.0	0.102	06/28/22 15:11	
3-Nitroaniline	ug/L	ND	10.0	0.0869	06/28/22 15:11	
4-Nitroaniline	ug/L	ND	10.0	0.0910	06/28/22 15:11	
Naphthalene	ug/L	ND	1.00	0.159	06/28/22 15:11	
Nitrobenzene	ug/L	ND	10.0	0.297	06/28/22 15:11	
N-Nitrosodimethylamine	ug/L	ND	10.0	0.998	06/28/22 15:11	
N-Nitrosodiphenylamine	ug/L	ND	10.0	2.37	06/28/22 15:11	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	0.261	06/28/22 15:11	
Phenanthrene	ug/L	ND	1.00	0.112	06/28/22 15:11	
Pyridine	ug/L	ND	10.0	0.627	06/28/22 15:11	
Butylbenzylphthalate	ug/L	ND	3.00	0.765	06/28/22 15:11	
bis(2-Ethylhexyl)phthalate	ug/L	ND	3.00	0.895	06/28/22 15:11	
Di-n-butylphthalate	ug/L	ND	3.00	0.453	06/28/22 15:11	
Diethylphthalate	ug/L	ND	3.00	0.287	06/28/22 15:11	
Dimethylphthalate	ug/L	ND	3.00	0.260	06/28/22 15:11	
Di-n-octylphthalate	ug/L	ND	3.00	0.932	06/28/22 15:11	
Pyrene	ug/L	ND	1.00	0.107	06/28/22 15:11	
1,2,4,5-Tetrachlorobenzene	ug/L	ND	10.0	0.0647	06/28/22 15:11	
1,2,4-Trichlorobenzene	ug/L	ND	10.0	0.0698	06/28/22 15:11	
4-Chloro-3-methylphenol	ug/L	ND	10.0	0.131	06/28/22 15:11	
2-Chlorophenol	ug/L	ND	10.0	0.133	06/28/22 15:11	
2,4-Dichlorophenol	ug/L	ND	10.0	0.102	06/28/22 15:11	
2,4-Dimethylphenol	ug/L	ND	10.0	0.0636	06/28/22 15:11	
4,6-Dinitro-2-methylphenol	ug/L	ND	10.0	1.12	06/28/22 15:11	
2,4-Dinitrophenol	ug/L	ND	10.0	5.93	06/28/22 15:11	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	0.0929	06/28/22 15:11	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	0.168	06/28/22 15:11	
2-Nitrophenol	ug/L	ND	10.0	0.117	06/28/22 15:11	
4-Nitrophenol	ug/L	ND	10.0	0.143	06/28/22 15:11	
Pentachlorophenol	ug/L	ND	10.0	0.313	06/28/22 15:11	
Phenol	ug/L	ND	10.0	4.33	06/28/22 15:11	
2,3,4,6-Tetrachlorophenol	ug/L	ND	10.0	0.231	06/28/22 15:11	
2,4,5-Trichlorophenol	ug/L	ND	10.0	0.109	06/28/22 15:11	
2,4,6-Trichlorophenol	ug/L	ND	10.0	0.100	06/28/22 15:11	
Diphenylamine	ug/L	ND	10.0	2.37	06/28/22 15:11	
2-Fluorophenol (S)	%	33.1	10.0-120		06/28/22 15:11	
Phenol-d5 (S)	%	20.7	10.0-120		06/28/22 15:11	
Nitrobenzene-d5 (S)	%	58	10.0-127		06/28/22 15:11	
2-Fluorobiphenyl (S)	%	56.8	10.0-130		06/28/22 15:11	
2,4,6-Tribromophenol (S)	%	59	10.0-155		06/28/22 15:11	
Terphenyl-d14 (S)	%	71	10.0-128		06/28/22 15:11	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

METHOD BLANK: R3811536-2 Matrix: Water

Associated Lab Samples: 20247389001, 20247389002, 20247389003, 20247389004, 20247389005, 20247389006, 20247389010, 20247389012, 20247389018, 20247389019, 20247389020, 20247389028, 20247389029, 20247389030, 20247389031, 20247389032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Acetylaminofluorene	ug/L	ND	10.0	0.253	07/02/22 11:11	
4-Aminobiphenyl	ug/L	ND	10.0	0.461	07/02/22 11:11	
Aramite	ug/L	ND	50.0	16.7	07/02/22 11:11	
Chlorobenzilate	ug/L	ND	50.0	3.84	07/02/22 11:11	
Diallate	ug/L	ND	10.0	0.524	07/02/22 11:11	
2,6-Dichlorophenol	ug/L	ND	10.0	0.102	07/02/22 11:11	
Dimethoate	ug/L	ND	50.0	5.05	07/02/22 11:11	
P-Dimethylaminoazobenzene	ug/L	ND	10.0	3.69	07/02/22 11:11	
7,12-Dimethylbenz(a)anthracene	ug/L	ND	10.0	1.71	07/02/22 11:11	
3,3'-Dimethylbenzidine	ug/L	ND	10.0	3.39	07/02/22 11:11	
a,a-Dimethylphenylethylamine	ug/L	ND	50.0	3.13	07/02/22 11:11	
1,3-Dinitrobenzene	ug/L	ND	10.0	0.359	07/02/22 11:11	
Diphenylamine	ug/L	ND	10.0	2.37	07/02/22 11:11	
Dinoseb	ug/L	ND	50.0	8.01	07/02/22 11:11	
Ethyl methanesulfonate	ug/L	ND	10.0	0.326	07/02/22 11:11	
Famphur	ug/L	ND	20.0	3.92	07/02/22 11:11	
Hexachloropropene	ug/L	ND	50.0	0.149	07/02/22 11:11	
Hexachlorophene	ug/L	ND	50.0	1.44	07/02/22 11:11	
Isodrin	ug/L	ND	10.0	4.11	07/02/22 11:11	
Isosafrole	ug/L	ND	10.0	3.88	07/02/22 11:11	
Kepone	ug/L	ND	20.0	2.66	07/02/22 11:11	
Methapyrilene	ug/L	ND	50.0	10.0	07/02/22 11:11	
3-Methylcholanthrene	ug/L	ND	10.0	0.164	07/02/22 11:11	
Methyl methanesulfonate	ug/L	ND	50.0	3.40	07/02/22 11:11	
1,4-Naphthoquinone	ug/L	ND	50.0	5.56	07/02/22 11:11	
1-Naphthalenamine	ug/L	ND	10.0	0.289	07/02/22 11:11	
2-Naphthalenamine	ug/L	ND	10.0	4.48	07/02/22 11:11	
5-Nitro-o-toluidine	ug/L	ND	10.0	1.99	07/02/22 11:11	
4-Nitroquinoline-n-oxide	ug/L	ND	10.0	2.03	07/02/22 11:11	
N-Nitrosodiethylamine	ug/L	ND	10.0	3.57	07/02/22 11:11	
N-Nitroso-di-n-butylamine	ug/L	ND	10.0	3.91	07/02/22 11:11	
N-Nitrosomethylethylamine	ug/L	ND	10.0	3.25	07/02/22 11:11	
N-Nitrosomorpholine	ug/L	ND	10.0	3.25	07/02/22 11:11	
N-Nitrosopiperidine	ug/L	ND	10.0	3.72	07/02/22 11:11	
N-Nitrosopyrrolidine	ug/L	ND	10.0	3.39	07/02/22 11:11	
Pentachlorobenzene	ug/L	ND	10.0	4.15	07/02/22 11:11	
Pentachloronitrobenzene	ug/L	ND	10.0	4.15	07/02/22 11:11	
Phenacetin	ug/L	ND	10.0	4.66	07/02/22 11:11	
p-Phenylenediamine	ug/L	ND	6900	387	07/02/22 11:11	
2-Picoline	ug/L	ND	50.0	6.83	07/02/22 11:11	
Pronamide	ug/L	ND	10.0	4.21	07/02/22 11:11	
Safrole	ug/L	ND	10.0	3.68	07/02/22 11:11	
Sulfotep (Thiodiphosphoric Ac	ug/L	ND	50.0	3.99	07/02/22 11:11	
Thionazin	ug/L	ND	10.0	4.07	07/02/22 11:11	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

METHOD BLANK: R3811536-2 Matrix: Water

Associated Lab Samples: 20247389001, 20247389002, 20247389003, 20247389004, 20247389005, 20247389006, 20247389010, 20247389012, 20247389018, 20247389019, 20247389020, 20247389028, 20247389029, 20247389030, 20247389031, 20247389032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
O-Toluidine	ug/L	ND	10.0	3.53	07/02/22 11:11	
1,3,5-Trinitrobenzene	ug/L	ND	10.0	1.32	07/02/22 11:11	
O,O,O-Triethylphosphorothioate	ug/L	ND	10.0	2.93	07/02/22 11:11	

LABORATORY CONTROL SAMPLE: R3808733-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	50.0	31.3	62.6	41.0-120	
Acenaphthylene	ug/L	50.0	33.3	66.6	43.0-120	
Acetophenone	ug/L	50.0	33.6	67.2	29.0-120	
Aniline	ug/L	50.0	21.2	42.4	13.0-120	
Anthracene	ug/L	50.0	34.5	69.0	45.0-120	
Benzo(a)anthracene	ug/L	50.0	38.2	76.4	47.0-120	
Benzo(b)fluoranthene	ug/L	50.0	36.0	72.0	46.0-120	
Benzo(k)fluoranthene	ug/L	50.0	36.4	72.8	46.0-120	
Benzo(g,h,i)perylene	ug/L	50.0	30.7	61.4	48.0-121	
Benzo(a)pyrene	ug/L	50.0	36.3	72.6	47.0-120	
Benzyl alcohol	ug/L	50.0	26.2	52.4	25.0-120	
bis(2-Chloroethoxy)methane	ug/L	50.0	29.1	58.2	33.0-120	
bis(2-Chloroethyl) ether	ug/L	50.0	31.5	63.0	23.0-120	
2,2'-Oxybis(1-chloropropane)	ug/L	50.0	29.8	59.6	28.0-120	
4-Bromophenylphenyl ether	ug/L	50.0	33.0	66.0	45.0-120	
4-Chloroaniline	ug/L	50.0	26.4	52.8	25.0-120	
2-Chloronaphthalene	ug/L	50.0	32.1	64.2	37.0-120	
4-Chlorophenylphenyl ether	ug/L	50.0	36.2	72.4	44.0-120	
Chrysene	ug/L	50.0	34.3	68.6	48.0-120	
Dibenz(a,h)anthracene	ug/L	50.0	32.1	64.2	47.0-120	
Dibenzofuran	ug/L	50.0	35.1	70.2	44.0-120	
1,2-Dichlorobenzene	ug/L	50.0	29.4	58.8	20.0-120	
1,3-Dichlorobenzene	ug/L	50.0	28.5	57.0	17.0-120	
1,4-Dichlorobenzene	ug/L	50.0	28.3	56.6	18.0-120	
3,3'-Dichlorobenzidine	ug/L	100	76.6	76.6	44.0-120	
2,4-Dinitrotoluene	ug/L	50.0	41.7	83.4	49.0-124	
2,6-Dinitrotoluene	ug/L	50.0	35.3	70.6	46.0-120	
Fluoranthene	ug/L	50.0	37.5	75.0	51.0-120	
Fluorene	ug/L	50.0	36.4	72.8	47.0-120	
Hexachlorobenzene	ug/L	50.0	33.0	66.0	44.0-120	
Hexachloro-1,3-butadiene	ug/L	50.0	27.1	54.2	19.0-120	
Hexachlorocyclopentadiene	ug/L	50.0	11.8	23.6	15.0-120	
Hexachloroethane	ug/L	50.0	29.6	59.2	15.0-120	
Indeno(1,2,3-cd)pyrene	ug/L	50.0	29.5	59.0	49.0-122	
Isophorone	ug/L	50.0	28.5	57.0	36.0-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

LABORATORY CONTROL SAMPLE: R3808733-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	50.0	29.2	58.4	33.0-120	
2-Methylnaphthalene	ug/L	50.0	27.8	55.6	33.0-120	
2-Nitroaniline	ug/L	50.0	34.3	68.6	43.0-120	
3-Nitroaniline	ug/L	50.0	34.1	68.2	38.0-120	
4-Nitroaniline	ug/L	50.0	32.9	65.8	18.0-160	
Naphthalene	ug/L	50.0	29.6	59.2	27.0-120	
Nitrobenzene	ug/L	50.0	29.5	59.0	27.0-120	
N-Nitrosodimethylamine	ug/L	50.0	20.2	40.4	10.0-120	
N-Nitrosodiphenylamine	ug/L	50.0	32.4	64.8	47.0-120	
N-Nitroso-di-n-propylamine	ug/L	50.0	34.9	69.8	31.0-120	
Phenanthrene	ug/L	50.0	33.4	66.8	46.0-120	
Pyridine	ug/L	50.0	11.2	22.4	10.0-120	
Butylbenzylphthalate	ug/L	50.0	31.9	63.8	43.0-121	
bis(2-Ethylhexyl)phthalate	ug/L	50.0	29.9	59.8	43.0-122	
Di-n-butylphthalate	ug/L	50.0	35.3	70.6	49.0-121	
Diethylphthalate	ug/L	50.0	35.4	70.8	48.0-122	
Dimethylphthalate	ug/L	50.0	34.0	68.0	48.0-120	
Di-n-octylphthalate	ug/L	50.0	28.7	57.4	42.0-125	
Pyrene	ug/L	50.0	35.5	71.0	47.0-120	
1,2,4,5-Tetrachlorobenzene	ug/L	50.0	34.7	69.4	31.0-121	
1,2,4-Trichlorobenzene	ug/L	50.0	27.5	55.0	24.0-120	
4-Chloro-3-methylphenol	ug/L	50.0	30.0	60.0	40.0-120	
2-Chlorophenol	ug/L	50.0	27.9	55.8	25.0-120	
2,4-Dichlorophenol	ug/L	50.0	29.1	58.2	36.0-120	
2,4-Dimethylphenol	ug/L	50.0	26.3	52.6	33.0-120	
4,6-Dinitro-2-methylphenol	ug/L	50.0	46.2	92.4	38.0-138	
2,4-Dinitrophenol	ug/L	50.0	46.4	92.8	10.0-120	
2-Methylphenol(o-Cresol)	ug/L	50.0	26.0	52.0	28.0-120	
3&4-Methylphenol(m&p Cresol)	ug/L	50.0	31.6	63.2	31.0-120	
2-Nitrophenol	ug/L	50.0	30.4	60.8	31.0-120	
4-Nitrophenol	ug/L	50.0	16.3	32.6	10.0-120	
Pentachlorophenol	ug/L	50.0	37.9	75.8	23.0-120	
Phenol	ug/L	50.0	13.1	26.2	10.0-120	
2,3,4,6-Tetrachlorophenol	ug/L	50.0	38.2	76.4	42.0-132	
2,4,5-Trichlorophenol	ug/L	50.0	37.4	74.8	44.0-120	
2,4,6-Trichlorophenol	ug/L	50.0	36.5	73.0	42.0-120	
Diphenylamine	ug/L	50.0	32.4	64.8	35.0-120	
2-Fluorophenol (S)	%			37.4	10.0-120	
Phenol-d5 (S)	%			25.3	10.0-120	
Nitrobenzene-d5 (S)	%			57.5	10.0-127	
2-Fluorobiphenyl (S)	%			61.2	10.0-130	
2,4,6-Tribromophenol (S)	%			70.5	10.0-155	
Terphenyl-d14 (S)	%			63.6	10.0-128	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

LABORATORY CONTROL SAMPLE: R3811536-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Acetylaminofluorene	ug/L	50.0	33.7	67.4	32.0-120	
4-Aminobiphenyl	ug/L	50.0	23.8	47.6	20.0-120	
Aramite	ug/L	50.0	29.3	58.6	50.0-150	
Chlorobenzilate	ug/L	50.0	41.8	83.6	29.0-128	
Diallate	ug/L	50.0	23.3	46.6	30.0-120	
2,6-Dichlorophenol	ug/L	50.0	28.9	57.8	19.0-136	
Dimethoate	ug/L	50.0	26.1	52.2	11.0-134	
P-Dimethylaminoazobenzene	ug/L	50.0	24.2	48.4	27.0-120	
7,12-Dimethylbenz(a)anthracene	ug/L	50.0	26.5	53.0	14.0-124	
3,3'-Dimethylbenzidine	ug/L	50.0	7.42	14.8	13.0-120	
a,a-Dimethylphenylethylamine	ug/L	50.0	ND	0.00	10.0-129	L0
1,3-Dinitrobenzene	ug/L	50.0	35.0	70.0	34.0-120	
Diphenylamine	ug/L	50.0	29.4	58.8	35.0-120	
Dinoseb	ug/L	50.0	38.5	77.0	39.0-120	
Ethyl methanesulfonate	ug/L	50.0	18.8	37.6	10.0-120	
Famphur	ug/L	50.0	31.2	62.4	32.0-120	
Hexachloropropene	ug/L	50.0	24.9	49.8	10.0-120	
Hexachlorophene	ug/L	100	14.6	14.6	10.0-120	
Isodrin	ug/L	50.0	21.8	43.6	22.0-157	
Isosafrole	ug/L	50.0	27.3	54.6	25.0-133	
Kepone	ug/L	50.0	2.44	4.88	10.0-120	L0
Methapyrilene	ug/L	50.0	9.19	18.4	10.0-120	
3-Methylcholanthrene	ug/L	50.0	28.7	57.4	30.0-160	
Methyl methanesulfonate	ug/L	50.0	15.5	31.0	10.0-120	
1,4-Naphthoquinone	ug/L	50.0	6.22	12.4	50.0-150	L0
1-Naphthalenamine	ug/L	50.0	20.2	40.4	19.0-120	
2-Naphthalenamine	ug/L	50.0	11.4	22.8	10.0-120	
5-Nitro-o-toluidine	ug/L	50.0	32.5	65.0	34.0-120	
4-Nitroquinoline-n-oxide	ug/L	50.0	17.2	34.4	10.0-159	
N-Nitrosodiethylamine	ug/L	50.0	19.7	39.4	10.0-120	
N-Nitroso-di-n-butylamine	ug/L	50.0	25.6	51.2	13.0-143	
N-Nitrosomethylethylamine	ug/L	50.0	17.2	34.4	10.0-120	
N-Nitrosomorpholine	ug/L	50.0	16.5	33.0	10.0-120	
N-Nitrosopiperidine	ug/L	50.0	19.2	38.4	10.0-160	
N-Nitrosopyrrolidine	ug/L	50.0	21.1	42.2	10.0-124	
Pentachlorobenzene	ug/L	50.0	29.7	59.4	25.0-120	
Pentachloronitrobenzene	ug/L	50.0	36.1	72.2	34.0-132	
Phenacetin	ug/L	50.0	30.8	61.6	34.0-127	
p-Phenylenediamine	ug/L	50.0	ND	0.00	50.0-150	L0
2-Picoline	ug/L	50.0	14.6	29.2	10.0-120	
Pronamide	ug/L	50.0	34.6	69.2	38.0-130	
Safrole	ug/L	50.0	27.0	54.0	21.0-120	
Sulfotep (Thiodiphosphoric Ac	ug/L	50.0	27.8	55.6	52.0-120	
Thionazin	ug/L	50.0	29.2	58.4	38.0-121	
O-Toluidine	ug/L	50.0	20.2	40.4	10.0-120	
1,3,5-Trinitrobenzene	ug/L	50.0	23.6	47.2	37.0-147	
O,O,O-Triethylphosphorothioate	ug/L	50.0	30.6	61.2	11.0-135	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3808681-1 R3808681-2

Parameter	Units	L1507970-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/L	ND	50.0	50.0	29.8	18.7	59.6	37.4	28.0-120	45.8	25	R1
Acenaphthylene	ug/L	ND	50.0	50.0	28.2	16.6	56.4	33.2	31.0-121	51.8	25	R1
Acetophenone	ug/L	ND	50.0	50.0	25.8	14.0	51.6	28.0	20.0-120	59.3	35	R1
Aniline	ug/L	ND	50.0	50.0	22.1	18.2	44.2	36.4	10.0-120	19.4	39	
Anthracene	ug/L	ND	50.0	50.0	26.9	21.5	53.8	43.0	36.0-120	22.3	23	
Benzo(a)anthracene	ug/L	ND	50.0	50.0	32.9	27.1	65.8	54.2	39.0-120	19.3	23	
Benzo(b)fluoranthene	ug/L	ND	50.0	50.0	33.0	27.1	66.0	54.2	37.0-120	19.6	23	
Benzo(k)fluoranthene	ug/L	ND	50.0	50.0	34.1	27.3	68.2	54.6	37.0-120	22.1	26	
Benzo(g,h,i)perylene	ug/L	ND	50.0	50.0	30.9	24.6	61.8	49.2	37.0-123	22.7	25	
Benzo(a)pyrene	ug/L	ND	50.0	50.0	31.4	25.5	62.8	51.0	37.0-120	20.7	24	
Benzyl alcohol	ug/L	ND	50.0	50.0	21.4	15.7	42.8	31.4	14.0-120	30.7	38	
bis(2-Chloroethoxy)methane	ug/L	ND	50.0	50.0	25.0	13.9	50.0	27.8	17.0-120	57.1	31	R1
bis(2-Chloroethyl) ether	ug/L	ND	50.0	50.0	28.8	16.5	57.6	33.0	14.0-120	54.3	33	R1
2,2'-Oxybis(1-chloropropane)	ug/L	ND	50.0	50.0	22.2	12.6	44.4	25.2	18.0-120	55.2	34	R1
4-Bromophenylphenyl ether	ug/L	ND	50.0	50.0	31.7	22.8	63.4	45.6	37.0-120	32.7	24	R1
4-Chloroaniline	ug/L	ND	50.0	50.0	10.4	9.13	20.8	18.3	10.0-120	13.0	31	
2-Chloronaphthalene	ug/L	ND	50.0	50.0	26.7	15.0	53.4	30.0	29.0-120	56.1	28	R1
4-Chlorophenylphenyl ether	ug/L	ND	50.0	50.0	31.2	21.5	62.4	43.0	36.0-120	36.8	23	R1
Chrysene	ug/L	ND	50.0	50.0	32.5	27.5	65.0	55.0	38.0-120	16.7	23	
Dibenz(a,h)anthracene	ug/L	ND	50.0	50.0	30.7	24.5	61.4	49.0	36.0-121	22.5	24	
Dibenzofuran	ug/L	ND	50.0	50.0	31.2	20.9	62.4	41.8	32.0-120	39.5	26	R1
1,2-Dichlorobenzene	ug/L	ND	50.0	50.0	21.9	12.2	43.8	24.4	18.0-120	56.9	40	R1
1,3-Dichlorobenzene	ug/L	ND	50.0	50.0	21.4	11.9	42.8	23.8	15.0-120	57.1	40	R1
1,4-Dichlorobenzene	ug/L	ND	50.0	50.0	21.3	11.9	42.6	23.8	17.0-120	56.6	40	R1
3,3'-Dichlorobenzidine	ug/L	ND	100	100	ND	ND	0.00	0.00	10.0-134	0.00	30	ML
2,4-Dinitrotoluene	ug/L	ND	50.0	50.0	37.9	29.0	75.8	58.0	39.0-125	26.6	25	R1
2,6-Dinitrotoluene	ug/L	ND	50.0	50.0	31.8	24.5	63.6	49.0	36.0-120	25.9	27	
Fluoranthene	ug/L	ND	50.0	50.0	36.5	28.4	73.0	56.8	41.0-121	25.0	22	R1
Fluorene	ug/L	ND	50.0	50.0	32.8	23.6	65.6	47.2	37.0-120	32.6	24	R1
Hexachlorobenzene	ug/L	ND	50.0	50.0	33.6	23.2	67.2	46.4	35.0-122	36.6	24	R1
Hexachloro-1,3-butadiene	ug/L	ND	50.0	50.0	19.6	10.1	39.2	20.2	12.0-120	64.0	34	R1
Hexachlorocyclopentadiene	ug/L	ND	50.0	50.0	13.2	6.55	26.4	13.1	10.0-120	67.3	33	R1
Hexachloroethane	ug/L	ND	50.0	50.0	21.9	12.5	43.8	25.0	10.0-120	54.7	40	R1
Indeno(1,2,3-cd)pyrene	ug/L	ND	50.0	50.0	29.9	23.9	59.8	47.8	38.0-125	22.3	24	
Isophorone	ug/L	ND	50.0	50.0	23.3	13.8	46.6	27.6	21.0-120	51.2	27	R1
1-Methylnaphthalene	ug/L	ND	50.0	50.0	24.3	13.3	48.6	26.6	11.0-120	58.5	27	R1
2-Methylnaphthalene	ug/L	ND	50.0	50.0	23.9	12.9	47.8	25.8	17.0-120	59.8	28	R1
2-Nitroaniline	ug/L	ND	50.0	50.0	9.59	7.91	19.2	15.8	33.0-120	19.2	27	ML
3-Nitroaniline	ug/L	ND	50.0	50.0	2.42	1.64	4.84	3.28	20.0-120	38.4	27	ML,R1
4-Nitroaniline	ug/L	ND	50.0	50.0	1.74	1.37	3.48	2.74	10.0-160	23.8	26	ML
Naphthalene	ug/L	ND	50.0	50.0	22.7	12.6	45.4	25.2	10.0-120	57.2	31	R1
Nitrobenzene	ug/L	ND	50.0	50.0	27.3	15.7	54.6	31.4	12.0-120	54.0	30	R1
N-Nitrosodimethylamine	ug/L	ND	50.0	50.0	21.3	14.9	42.6	29.8	10.0-120	35.4	40	
N-Nitrosodiphenylamine	ug/L	ND	50.0	50.0	29.3	24.2	58.6	48.4	37.0-120	19.1	24	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		R3808681-1			R3808681-2							
Parameter	Units	L1507970-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
N-Nitroso-di-n-propylamine	ug/L	ND	50.0	50.0	26.2	15.0	52.4	30.0	16.0-120	54.4	30	R1
Phenanthrene	ug/L	ND	50.0	50.0	31.9	25.9	63.8	51.8	33.0-120	20.8	22	
Pyridine	ug/L	ND	50.0	50.0	18.7	17.6	37.4	35.2	10.0-120	6.06	37	
Butylbenzylphthalate	ug/L	ND	50.0	50.0	30.3	27.4	60.6	54.8	34.0-126	10.1	24	
bis(2-Ethylhexyl)phthalate	ug/L	ND	50.0	50.0	27.8	26.0	55.6	52.0	33.0-126	6.69	25	
Di-n-butylphthalate	ug/L	ND	50.0	50.0	33.9	29.3	67.8	58.6	35.0-128	14.6	23	
Diethylphthalate	ug/L	ND	50.0	50.0	34.8	27.0	69.6	54.0	39.0-125	25.2	24	R1
Dimethylphthalate	ug/L	ND	50.0	50.0	31.5	23.6	63.0	47.2	37.0-120	28.7	24	R1
Di-n-octylphthalate	ug/L	ND	50.0	50.0	28.2	26.5	56.4	53.0	25.0-135	6.22	26	
Pyrene	ug/L	ND	50.0	50.0	30.8	26.1	61.6	52.2	39.0-120	16.5	22	
1,2,4,5-Tetrachlorobenzene	ug/L	ND	50.0	50.0	26.3	12.9	52.6	25.8	19.0-122	68.4	32	R1
1,2,4-Trichlorobenzene	ug/L	ND	50.0	50.0	19.7	10.4	39.4	20.8	15.0-120	61.8	31	R1
4-Chloro-3-methylphenol	ug/L	ND	50.0	50.0	26.3	19.2	52.6	38.4	26.0-120	31.2	27	R1
2-Chlorophenol	ug/L	ND	50.0	50.0	22.8	14.1	45.6	28.2	18.0-120	47.2	34	R1
2,4-Dichlorophenol	ug/L	ND	50.0	50.0	22.8	13.0	45.6	26.0	19.0-120	54.7	27	R1
2,4-Dimethylphenol	ug/L	ND	50.0	50.0	15.2	10.4	30.4	20.8	15.0-120	37.5	28	R1
4,6-Dinitro-2-methylphenol	ug/L	ND	50.0	50.0	41.0	20.9	82.0	41.8	10.0-144	64.9	39	R1
2,4-Dinitrophenol	ug/L	ND	50.0	50.0	42.8	21.6	85.6	43.2	10.0-120	65.8	40	R1
2-Methylphenol(o-Cresol)	ug/L	ND	50.0	50.0	20.5	13.3	41.0	26.6	10.0-120	42.6	30	R1
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50.0	50.0	22.9	16.2	45.8	32.4	10.0-120	34.3	36	
2-Nitrophenol	ug/L	ND	50.0	50.0	24.7	14.1	49.4	28.2	20.0-120	54.6	30	R1
4-Nitrophenol	ug/L	ND	50.0	50.0	75.4	50.5	151	101	10.0-120	39.6	40	MH
Pentachlorophenol	ug/L	ND	50.0	50.0	36.1	16.2	72.2	32.4	10.0-128	76.1	37	R1
Phenol	ug/L	ND	50.0	50.0	11.9	8.49	23.8	17.0	10.0-120	33.4	40	
2,3,4,6-Tetrachlorophenol	ug/L	ND	50.0	50.0	38.7	19.7	77.4	39.4	17.0-142	65.1	34	R1
2,4,5-Trichlorophenol	ug/L	ND	50.0	50.0	32.5	18.1	65.0	36.2	33.0-120	56.9	31	R1
2,4,6-Trichlorophenol	ug/L	ND	50.0	50.0	29.6	15.9	59.2	31.8	26.0-120	60.2	31	R1
Diphenylamine	ug/L	ND	50.0	50.0	29.3	24.2	58.6	48.4	35.0-120	19.1	30	
2-Fluorophenol (S)	%						29.6	21.2	10.0-120			
Phenol-d5 (S)	%						21.0	15.1	10.0-120			
Nitrobenzene-d5 (S)	%						47.5	26.2	10.0-127			
2-Fluorobiphenyl (S)	%						53.0	30.7	10.0-130			
2,4,6-Tribromophenol (S)	%						78.5	33.2	10.0-155			
Terphenyl-d14 (S)	%						62.5	50.0	10.0-128			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 1886474
QC Batch Method: 3510C
Analysis Method: EPA 8270C
Analysis Description: SVOA (GC/MS) 8270C
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20247389007, 20247389008, 20247389016

METHOD BLANK: R3809739-2 Matrix: Water
Associated Lab Samples: 20247389007, 20247389008, 20247389016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	1.00	0.0886	06/29/22 13:41	
Acenaphthylene	ug/L	ND	1.00	0.0921	06/29/22 13:41	
Acetophenone	ug/L	ND	10.0	0.208	06/29/22 13:41	
Aniline	ug/L	ND	10.0	1.65	06/29/22 13:41	
Anthracene	ug/L	ND	1.00	0.0804	06/29/22 13:41	
Benzo(a)anthracene	ug/L	ND	1.00	0.199	06/29/22 13:41	
Benzo(b)fluoranthene	ug/L	ND	1.00	0.130	06/29/22 13:41	
Benzo(k)fluoranthene	ug/L	ND	1.00	0.120	06/29/22 13:41	
Benzo(g,h,i)perylene	ug/L	ND	1.00	0.121	06/29/22 13:41	
Benzo(a)pyrene	ug/L	ND	1.00	0.0381	06/29/22 13:41	
Benzyl alcohol	ug/L	ND	10.0	0.563	06/29/22 13:41	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	0.116	06/29/22 13:41	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	0.137	06/29/22 13:41	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	10.0	0.210	06/29/22 13:41	
4-Bromophenylphenyl ether	ug/L	ND	10.0	0.0877	06/29/22 13:41	
4-Chloroaniline	ug/L	ND	10.0	0.234	06/29/22 13:41	
2-Chloronaphthalene	ug/L	ND	1.00	0.0648	06/29/22 13:41	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	0.0926	06/29/22 13:41	
Chrysene	ug/L	ND	1.00	0.130	06/29/22 13:41	
Dibenz(a,h)anthracene	ug/L	ND	1.00	0.0644	06/29/22 13:41	
Dibenzofuran	ug/L	ND	10.0	0.0970	06/29/22 13:41	
1,2-Dichlorobenzene	ug/L	ND	10.0	0.0713	06/29/22 13:41	
1,3-Dichlorobenzene	ug/L	ND	10.0	0.132	06/29/22 13:41	
1,4-Dichlorobenzene	ug/L	ND	10.0	0.0942	06/29/22 13:41	
3,3'-Dichlorobenzidine	ug/L	ND	10.0	0.212	06/29/22 13:41	
2,4-Dinitrotoluene	ug/L	ND	10.0	0.0983	06/29/22 13:41	
2,6-Dinitrotoluene	ug/L	ND	10.0	0.250	06/29/22 13:41	
Fluoranthene	ug/L	ND	1.00	0.102	06/29/22 13:41	
Fluorene	ug/L	ND	1.00	0.0844	06/29/22 13:41	
Hexachlorobenzene	ug/L	ND	1.00	0.0755	06/29/22 13:41	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	0.0968	06/29/22 13:41	
Hexachlorocyclopentadiene	ug/L	ND	10.0	0.0598	06/29/22 13:41	
Hexachloroethane	ug/L	ND	10.0	0.127	06/29/22 13:41	
Indeno(1,2,3-cd)pyrene	ug/L	ND	1.00	0.279	06/29/22 13:41	
Isophorone	ug/L	ND	10.0	0.143	06/29/22 13:41	
1-Methylnaphthalene	ug/L	ND	1.00	0.0790	06/29/22 13:41	
2-Methylnaphthalene	ug/L	ND	1.00	0.117	06/29/22 13:41	
2-Nitroaniline	ug/L	ND	10.0	0.102	06/29/22 13:41	
3-Nitroaniline	ug/L	ND	10.0	0.0869	06/29/22 13:41	
4-Nitroaniline	ug/L	ND	10.0	0.0910	06/29/22 13:41	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

METHOD BLANK: R3809739-2 Matrix: Water
Associated Lab Samples: 20247389007, 20247389008, 20247389016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Naphthalene	ug/L	ND	1.00	0.159	06/29/22 13:41	
Nitrobenzene	ug/L	ND	10.0	0.297	06/29/22 13:41	
N-Nitrosodimethylamine	ug/L	ND	10.0	0.998	06/29/22 13:41	
N-Nitrosodiphenylamine	ug/L	ND	10.0	2.37	06/29/22 13:41	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	0.261	06/29/22 13:41	
Phenanthrene	ug/L	ND	1.00	0.112	06/29/22 13:41	
Pyridine	ug/L	ND	10.0	0.627	06/29/22 13:41	
Butylbenzylphthalate	ug/L	ND	3.00	0.765	06/29/22 13:41	
bis(2-Ethylhexyl)phthalate	ug/L	ND	3.00	0.895	06/29/22 13:41	
Di-n-butylphthalate	ug/L	ND	3.00	0.453	06/29/22 13:41	
Diethylphthalate	ug/L	ND	3.00	0.287	06/29/22 13:41	
Dimethylphthalate	ug/L	ND	3.00	0.260	06/29/22 13:41	
Di-n-octylphthalate	ug/L	ND	3.00	0.932	06/29/22 13:41	
Pyrene	ug/L	ND	1.00	0.107	06/29/22 13:41	
1,2,4,5-Tetrachlorobenzene	ug/L	ND	10.0	0.0647	06/29/22 13:41	
1,2,4-Trichlorobenzene	ug/L	ND	10.0	0.0698	06/29/22 13:41	
4-Chloro-3-methylphenol	ug/L	ND	10.0	0.131	06/29/22 13:41	
2-Chlorophenol	ug/L	ND	10.0	0.133	06/29/22 13:41	
2,4-Dichlorophenol	ug/L	ND	10.0	0.102	06/29/22 13:41	
2,4-Dimethylphenol	ug/L	ND	10.0	0.0636	06/29/22 13:41	
4,6-Dinitro-2-methylphenol	ug/L	ND	10.0	1.12	06/29/22 13:41	
2,4-Dinitrophenol	ug/L	ND	10.0	5.93	06/29/22 13:41	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	0.0929	06/29/22 13:41	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	0.168	06/29/22 13:41	
2-Nitrophenol	ug/L	ND	10.0	0.117	06/29/22 13:41	
4-Nitrophenol	ug/L	ND	10.0	0.143	06/29/22 13:41	
Pentachlorophenol	ug/L	ND	10.0	0.313	06/29/22 13:41	
Phenol	ug/L	ND	10.0	4.33	06/29/22 13:41	
2,3,4,6-Tetrachlorophenol	ug/L	ND	10.0	0.231	06/29/22 13:41	
2,4,5-Trichlorophenol	ug/L	ND	10.0	0.109	06/29/22 13:41	
2,4,6-Trichlorophenol	ug/L	ND	10.0	0.100	06/29/22 13:41	
Diphenylamine	ug/L	ND	10.0	2.37	06/29/22 13:41	
2-Fluorophenol (S)	%	36.1	10.0-120		06/29/22 13:41	
Phenol-d5 (S)	%	23.4	10.0-120		06/29/22 13:41	
Nitrobenzene-d5 (S)	%	58.3	10.0-127		06/29/22 13:41	
2-Fluorobiphenyl (S)	%	52.9	10.0-130		06/29/22 13:41	
2,4,6-Tribromophenol (S)	%	51	10.0-155		06/29/22 13:41	
Terphenyl-d14 (S)	%	57.2	10.0-128		06/29/22 13:41	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

METHOD BLANK: R3811507-2 Matrix: Water
Associated Lab Samples: 20247389007, 20247389008, 20247389016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Acetylaminofluorene	ug/L	ND	10.0	0.253	07/01/22 09:50	
4-Aminobiphenyl	ug/L	ND	10.0	0.461	07/01/22 09:50	
Aramite	ug/L	ND	50.0	16.7	07/01/22 09:50	
Chlorobenzilate	ug/L	ND	50.0	3.84	07/01/22 09:50	
Diallate	ug/L	ND	10.0	0.524	07/01/22 09:50	
2,6-Dichlorophenol	ug/L	ND	10.0	0.102	07/01/22 09:50	
Dimethoate	ug/L	ND	50.0	5.05	07/01/22 09:50	
P-Dimethylaminoazobenzene	ug/L	ND	10.0	3.69	07/01/22 09:50	
7,12-Dimethylbenz(a)anthracene	ug/L	ND	10.0	1.71	07/01/22 09:50	
3,3'-Dimethylbenzidine	ug/L	ND	10.0	3.39	07/01/22 09:50	
a,a-Dimethylphenylethylamine	ug/L	ND	50.0	3.13	07/01/22 09:50	
1,3-Dinitrobenzene	ug/L	ND	10.0	0.359	07/01/22 09:50	
Diphenylamine	ug/L	ND	10.0	2.37	07/01/22 09:50	
Dinoseb	ug/L	ND	50.0	8.01	07/01/22 09:50	
Ethyl methanesulfonate	ug/L	ND	10.0	0.326	07/01/22 09:50	
Famphur	ug/L	ND	20.0	3.92	07/01/22 09:50	
Hexachloropropene	ug/L	ND	50.0	0.149	07/01/22 09:50	
Hexachlorophene	ug/L	ND	50.0	1.44	07/01/22 09:50	
Isodrin	ug/L	ND	10.0	4.11	07/01/22 09:50	
Isosafrole	ug/L	ND	10.0	3.88	07/01/22 09:50	
Kepone	ug/L	ND	20.0	2.66	07/01/22 09:50	
Methapyrilene	ug/L	ND	50.0	10.0	07/01/22 09:50	
3-Methylcholanthrene	ug/L	ND	10.0	0.164	07/01/22 09:50	
Methyl methanesulfonate	ug/L	ND	50.0	3.40	07/01/22 09:50	
1,4-Naphthoquinone	ug/L	ND	50.0	5.56	07/01/22 09:50	
1-Naphthalenamine	ug/L	ND	10.0	0.289	07/01/22 09:50	
2-Naphthalenamine	ug/L	ND	10.0	4.48	07/01/22 09:50	
5-Nitro-o-toluidine	ug/L	ND	10.0	1.99	07/01/22 09:50	
4-Nitroquinoline-n-oxide	ug/L	ND	10.0	2.03	07/01/22 09:50	
N-Nitrosodiethylamine	ug/L	ND	10.0	3.57	07/01/22 09:50	
N-Nitroso-di-n-butylamine	ug/L	ND	10.0	3.91	07/01/22 09:50	
N-Nitrosomethylethylamine	ug/L	ND	10.0	3.25	07/01/22 09:50	
N-Nitrosomorpholine	ug/L	ND	10.0	3.25	07/01/22 09:50	
N-Nitrosopiperidine	ug/L	ND	10.0	3.72	07/01/22 09:50	
N-Nitrosopyrrolidine	ug/L	ND	10.0	3.39	07/01/22 09:50	
Pentachlorobenzene	ug/L	ND	10.0	4.15	07/01/22 09:50	
Pentachloronitrobenzene	ug/L	ND	10.0	4.15	07/01/22 09:50	
Phenacetin	ug/L	ND	10.0	4.66	07/01/22 09:50	
p-Phenylenediamine	ug/L	ND	6900	387	07/01/22 09:50	
2-Picoline	ug/L	ND	50.0	6.83	07/01/22 09:50	
Pronamide	ug/L	ND	10.0	4.21	07/01/22 09:50	
Safrole	ug/L	ND	10.0	3.68	07/01/22 09:50	
Sulfotep (Thiodiphosphoric Ac	ug/L	ND	50.0	3.99	07/01/22 09:50	
Thionazin	ug/L	ND	10.0	4.07	07/01/22 09:50	
O-Toluidine	ug/L	ND	10.0	3.53	07/01/22 09:50	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

METHOD BLANK: R3811507-2 Matrix: Water
Associated Lab Samples: 20247389007, 20247389008, 20247389016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,3,5-Trinitrobenzene	ug/L	ND	10.0	1.32	07/01/22 09:50	
O,O,O-Triethylphosphorothioate	ug/L	ND	10.0	2.93	07/01/22 09:50	

LABORATORY CONTROL SAMPLE: R3809739-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	50.0	30.8	61.6	41.0-120	
Acenaphthylene	ug/L	50.0	33.1	66.2	43.0-120	
Acetophenone	ug/L	50.0	34.4	68.8	29.0-120	
Aniline	ug/L	50.0	22.0	44.0	13.0-120	
Anthracene	ug/L	50.0	32.8	65.6	45.0-120	
Benzo(a)anthracene	ug/L	50.0	37.3	74.6	47.0-120	
Benzo(b)fluoranthene	ug/L	50.0	36.0	72.0	46.0-120	
Benzo(k)fluoranthene	ug/L	50.0	36.5	73.0	46.0-120	
Benzo(g,h,i)perylene	ug/L	50.0	33.2	66.4	48.0-121	
Benzo(a)pyrene	ug/L	50.0	37.1	74.2	47.0-120	
Benzyl alcohol	ug/L	50.0	28.4	56.8	25.0-120	
bis(2-Chloroethoxy)methane	ug/L	50.0	30.1	60.2	33.0-120	
bis(2-Chloroethyl) ether	ug/L	50.0	32.3	64.6	23.0-120	
2,2'-Oxybis(1-chloropropane)	ug/L	50.0	30.1	60.2	28.0-120	
4-Bromophenylphenyl ether	ug/L	50.0	33.1	66.2	45.0-120	
4-Chloroaniline	ug/L	50.0	26.2	52.4	25.0-120	
2-Chloronaphthalene	ug/L	50.0	32.1	64.2	37.0-120	
4-Chlorophenylphenyl ether	ug/L	50.0	35.4	70.8	44.0-120	
Chrysene	ug/L	50.0	33.3	66.6	48.0-120	
Dibenz(a,h)anthracene	ug/L	50.0	32.4	64.8	47.0-120	
Dibenzofuran	ug/L	50.0	34.0	68.0	44.0-120	
1,2-Dichlorobenzene	ug/L	50.0	31.1	62.2	20.0-120	
1,3-Dichlorobenzene	ug/L	50.0	30.7	61.4	17.0-120	
1,4-Dichlorobenzene	ug/L	50.0	31.4	62.8	18.0-120	
3,3'-Dichlorobenzidine	ug/L	100	76.8	76.8	44.0-120	
2,4-Dinitrotoluene	ug/L	50.0	38.7	77.4	49.0-124	
2,6-Dinitrotoluene	ug/L	50.0	33.4	66.8	46.0-120	
Fluoranthene	ug/L	50.0	34.4	68.8	51.0-120	
Fluorene	ug/L	50.0	34.5	69.0	47.0-120	
Hexachlorobenzene	ug/L	50.0	33.1	66.2	44.0-120	
Hexachloro-1,3-butadiene	ug/L	50.0	28.8	57.6	19.0-120	
Hexachlorocyclopentadiene	ug/L	50.0	13.4	26.8	15.0-120	
Hexachloroethane	ug/L	50.0	31.6	63.2	15.0-120	
Indeno(1,2,3-cd)pyrene	ug/L	50.0	32.2	64.4	49.0-122	
Isophorone	ug/L	50.0	28.9	57.8	36.0-120	
1-Methylnaphthalene	ug/L	50.0	29.2	58.4	33.0-120	
2-Methylnaphthalene	ug/L	50.0	28.5	57.0	33.0-120	
2-Nitroaniline	ug/L	50.0	33.2	66.4	43.0-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

LABORATORY CONTROL SAMPLE: R3809739-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3-Nitroaniline	ug/L	50.0	32.4	64.8	38.0-120	
4-Nitroaniline	ug/L	50.0	32.5	65.0	18.0-160	
Naphthalene	ug/L	50.0	30.3	60.6	27.0-120	
Nitrobenzene	ug/L	50.0	31.4	62.8	27.0-120	
N-Nitrosodimethylamine	ug/L	50.0	20.8	41.6	10.0-120	
N-Nitrosodiphenylamine	ug/L	50.0	31.7	63.4	47.0-120	
N-Nitroso-di-n-propylamine	ug/L	50.0	35.6	71.2	31.0-120	
Phenanthrene	ug/L	50.0	31.9	63.8	46.0-120	
Pyridine	ug/L	50.0	9.31	18.6	10.0-120	
Butylbenzylphthalate	ug/L	50.0	31.9	63.8	43.0-121	
bis(2-Ethylhexyl)phthalate	ug/L	50.0	29.6	59.2	43.0-122	
Di-n-butylphthalate	ug/L	50.0	32.6	65.2	49.0-121	
Diethylphthalate	ug/L	50.0	32.4	64.8	48.0-122	
Dimethylphthalate	ug/L	50.0	31.9	63.8	48.0-120	
Di-n-octylphthalate	ug/L	50.0	28.4	56.8	42.0-125	
Pyrene	ug/L	50.0	34.5	69.0	47.0-120	
1,2,4,5-Tetrachlorobenzene	ug/L	50.0	36.1	72.2	31.0-121	
1,2,4-Trichlorobenzene	ug/L	50.0	29.6	59.2	24.0-120	
4-Chloro-3-methylphenol	ug/L	50.0	29.1	58.2	40.0-120	
2-Chlorophenol	ug/L	50.0	31.7	63.4	25.0-120	
2,4-Dichlorophenol	ug/L	50.0	30.0	60.0	36.0-120	
2,4-Dimethylphenol	ug/L	50.0	28.9	57.8	33.0-120	
4,6-Dinitro-2-methylphenol	ug/L	50.0	44.0	88.0	38.0-138	
2,4-Dinitrophenol	ug/L	50.0	42.3	84.6	10.0-120	
2-Methylphenol(o-Cresol)	ug/L	50.0	28.1	56.2	28.0-120	
3&4-Methylphenol(m&p Cresol)	ug/L	50.0	32.8	65.6	31.0-120	
2-Nitrophenol	ug/L	50.0	31.7	63.4	31.0-120	
4-Nitrophenol	ug/L	50.0	16.8	33.6	10.0-120	
Pentachlorophenol	ug/L	50.0	35.0	70.0	23.0-120	
Phenol	ug/L	50.0	14.1	28.2	10.0-120	
2,3,4,6-Tetrachlorophenol	ug/L	50.0	36.9	73.8	42.0-132	
2,4,5-Trichlorophenol	ug/L	50.0	36.5	73.0	44.0-120	
2,4,6-Trichlorophenol	ug/L	50.0	36.3	72.6	42.0-120	
Diphenylamine	ug/L	50.0	31.7	63.4	35.0-120	
2-Fluorophenol (S)	%			39.8	10.0-120	
Phenol-d5 (S)	%			26.1	10.0-120	
Nitrobenzene-d5 (S)	%			58.2	10.0-127	
2-Fluorobiphenyl (S)	%			59.7	10.0-130	
2,4,6-Tribromophenol (S)	%			63.5	10.0-155	
Terphenyl-d14 (S)	%			61.0	10.0-128	

LABORATORY CONTROL SAMPLE: R3811507-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Acetylaminofluorene	ug/L	50.0	31.3	62.6	32.0-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

LABORATORY CONTROL SAMPLE: R3811507-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Aminobiphenyl	ug/L	50.0	25.8	51.6	20.0-120	
Aramite	ug/L	50.0	28.3	56.6	50.0-150	
Chlorobenzilate	ug/L	50.0	36.1	72.2	29.0-128	
Diallate	ug/L	50.0	21.1	42.2	30.0-120	
2,6-Dichlorophenol	ug/L	50.0	26.3	52.6	19.0-136	
Dimethoate	ug/L	50.0	25.3	50.6	11.0-134	
P-Dimethylaminoazobenzene	ug/L	50.0	22.3	44.6	27.0-120	
7,12-Dimethylbenz(a)anthracene	ug/L	50.0	25.0	50.0	14.0-124	
3,3'-Dimethylbenzidine	ug/L	50.0	17.0	34.0	13.0-120	
a,a-Dimethylphenylethylamine	ug/L	50.0	9.70	19.4	10.0-129	
1,3-Dinitrobenzene	ug/L	50.0	29.9	59.8	34.0-120	
Diphenylamine	ug/L	50.0	27.7	55.4	35.0-120	
Dinoseb	ug/L	50.0	34.6	69.2	39.0-120	
Ethyl methanesulfonate	ug/L	50.0	18.3	36.6	10.0-120	
Famphur	ug/L	50.0	28.1	56.2	32.0-120	
Hexachloropropene	ug/L	50.0	24.7	49.4	10.0-120	
Hexachlorophene	ug/L	100	19.3	19.3	10.0-120	
Isodrin	ug/L	50.0	21.5	43.0	22.0-157	
Isosafrole	ug/L	50.0	21.7	43.4	25.0-133	
Kepone	ug/L	50.0	4.14	8.28	10.0-120	L0
Methapyrilene	ug/L	50.0	14.6	29.2	10.0-120	
3-Methylcholanthrene	ug/L	50.0	27.4	54.8	30.0-160	
Methyl methanesulfonate	ug/L	50.0	16.0	32.0	10.0-120	
1,4-Naphthoquinone	ug/L	50.0	0.872	1.74	50.0-150	L0
1-Naphthalenamine	ug/L	50.0	23.2	46.4	19.0-120	
2-Naphthalenamine	ug/L	50.0	18.8	37.6	10.0-120	
5-Nitro-o-toluidine	ug/L	50.0	29.4	58.8	34.0-120	
4-Nitroquinoline-n-oxide	ug/L	50.0	11.0	22.0	10.0-159	
N-Nitrosodiethylamine	ug/L	50.0	20.2	40.4	10.0-120	
N-Nitroso-di-n-butylamine	ug/L	50.0	22.0	44.0	13.0-143	
N-Nitrosomethylethylamine	ug/L	50.0	18.7	37.4	10.0-120	
N-Nitrosomorpholine	ug/L	50.0	16.0	32.0	10.0-120	
N-Nitrosopiperidine	ug/L	50.0	17.6	35.2	10.0-160	
N-Nitrosopyrrolidine	ug/L	50.0	21.0	42.0	10.0-124	
Pentachlorobenzene	ug/L	50.0	26.5	53.0	25.0-120	
Pentachloronitrobenzene	ug/L	50.0	33.5	67.0	34.0-132	
Phenacetin	ug/L	50.0	28.6	57.2	34.0-127	
p-Phenylenediamine	ug/L	50.0	0.247	0.494	50.0-150	L0
2-Picoline	ug/L	50.0	12.1	24.2	10.0-120	
Pronamide	ug/L	50.0	32.6	65.2	38.0-130	
Safrole	ug/L	50.0	24.5	49.0	21.0-120	
Sulfotep (Thiodiphosphoric Ac	ug/L	50.0	26.1	52.2	52.0-120	
Thionazin	ug/L	50.0	26.0	52.0	38.0-121	
O-Toluidine	ug/L	50.0	19.7	39.4	10.0-120	
1,3,5-Trinitrobenzene	ug/L	50.0	22.2	44.4	37.0-147	
O,O,O-Triethylphosphorothioate	ug/L	50.0	28.4	56.8	11.0-135	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		R3810264-1			R3810264-2							
Parameter	Units	20247389007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/L	ND	50.0	50.0	26.7	32.8	53.4	65.6	28.0-120	20.5	25	
Acenaphthylene	ug/L	ND	50.0	50.0	27.2	33.6	54.4	67.2	31.0-121	21.1	25	
Acetophenone	ug/L	ND	50.0	50.0	26.3	34.0	52.6	68.0	20.0-120	25.5	35	
Aniline	ug/L	ND	50.0	50.0	15.9	17.6	31.8	35.2	10.0-120	10.1	39	
Anthracene	ug/L	ND	50.0	50.0	27.4	32.3	54.8	64.6	36.0-120	16.4	23	
Benzo(a)anthracene	ug/L	ND	50.0	50.0	29.5	34.9	59.0	69.8	39.0-120	16.8	23	
Benzo(b)fluoranthene	ug/L	ND	50.0	50.0	28.8	33.3	57.6	66.6	37.0-120	14.5	23	
Benzo(k)fluoranthene	ug/L	ND	50.0	50.0	29.3	34.1	58.6	68.2	37.0-120	15.1	26	
Benzo(g,h,i)perylene	ug/L	ND	50.0	50.0	27.5	30.7	55.0	61.4	37.0-123	11.0	25	
Benzo(a)pyrene	ug/L	ND	50.0	50.0	30.4	34.6	60.8	69.2	37.0-120	12.9	24	
Benzyl alcohol	ug/L	ND	50.0	50.0	21.2	27.2	42.4	54.4	14.0-120	24.8	38	
bis(2-Chloroethoxy)methane	ug/L	ND	50.0	50.0	24.7	32.2	49.4	64.4	17.0-120	26.4	31	
bis(2-Chloroethyl) ether	ug/L	ND	50.0	50.0	28.2	36.1	56.4	72.2	14.0-120	24.6	33	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	50.0	50.0	24.0	31.3	48.0	62.6	18.0-120	26.4	34	
4-Bromophenylphenyl ether	ug/L	ND	50.0	50.0	27.9	33.4	55.8	66.8	37.0-120	17.9	24	
4-Chloroaniline	ug/L	ND	50.0	50.0	18.3	22.5	36.6	45.0	10.0-120	20.6	31	
2-Chloronaphthalene	ug/L	ND	50.0	50.0	25.0	31.4	50.0	62.8	29.0-120	22.7	28	
4-Chlorophenylphenyl ether	ug/L	ND	50.0	50.0	27.3	32.8	54.6	65.6	36.0-120	18.3	23	
Chrysene	ug/L	ND	50.0	50.0	28.5	32.8	57.0	65.6	38.0-120	14.0	23	
Dibenz(a,h)anthracene	ug/L	ND	50.0	50.0	27.1	30.4	54.2	60.8	36.0-121	11.5	24	
Dibenzofuran	ug/L	ND	50.0	50.0	27.4	33.8	54.8	67.6	32.0-120	20.9	26	
1,2-Dichlorobenzene	ug/L	ND	50.0	50.0	25.0	31.1	50.0	62.2	18.0-120	21.7	40	
1,3-Dichlorobenzene	ug/L	ND	50.0	50.0	24.4	30.2	48.8	60.4	15.0-120	21.2	40	
1,4-Dichlorobenzene	ug/L	ND	50.0	50.0	25.6	30.6	51.2	61.2	17.0-120	17.8	40	
3,3'-Dichlorobenzidine	ug/L	ND	100	100	51.5	58.9	51.5	58.9	10.0-134	13.4	30	
2,4-Dinitrotoluene	ug/L	ND	50.0	50.0	33.4	38.6	66.8	77.2	39.0-125	14.4	25	
2,6-Dinitrotoluene	ug/L	ND	50.0	50.0	28.7	34.1	57.4	68.2	36.0-120	17.2	27	
Fluoranthene	ug/L	ND	50.0	50.0	29.7	34.2	59.4	68.4	41.0-121	14.1	22	
Fluorene	ug/L	ND	50.0	50.0	27.7	34.2	55.4	68.4	37.0-120	21.0	24	
Hexachlorobenzene	ug/L	ND	50.0	50.0	27.3	32.4	54.6	64.8	35.0-122	17.1	24	
Hexachloro-1,3-butadiene	ug/L	ND	50.0	50.0	23.3	29.7	46.6	59.4	12.0-120	24.2	34	
Hexachlorocyclopentadiene	ug/L	ND	50.0	50.0	11.7	16.8	23.4	33.6	10.0-120	35.8	33	R1
Hexachloroethane	ug/L	ND	50.0	50.0	26.0	32.1	52.0	64.2	10.0-120	21.0	40	
Indeno(1,2,3-cd)pyrene	ug/L	ND	50.0	50.0	27.2	30.5	54.4	61.0	38.0-125	11.4	24	
Isophorone	ug/L	ND	50.0	50.0	23.7	30.1	47.4	60.2	21.0-120	23.8	27	
1-Methylnaphthalene	ug/L	ND	50.0	50.0	25.3	32.7	50.6	65.4	11.0-120	25.5	27	
2-Methylnaphthalene	ug/L	ND	50.0	50.0	24.6	31.6	49.2	63.2	17.0-120	24.9	28	
2-Nitroaniline	ug/L	ND	50.0	50.0	30.1	36.3	60.2	72.6	33.0-120	18.7	27	
3-Nitroaniline	ug/L	ND	50.0	50.0	27.5	31.6	55.0	63.2	20.0-120	13.9	27	
4-Nitroaniline	ug/L	ND	50.0	50.0	27.7	30.8	55.4	61.6	10.0-160	10.6	26	
Naphthalene	ug/L	ND	50.0	50.0	24.2	30.8	48.4	61.6	10.0-120	24.0	31	
Nitrobenzene	ug/L	ND	50.0	50.0	23.0	30.2	46.0	60.4	12.0-120	27.1	30	
N-Nitrosodimethylamine	ug/L	ND	50.0	50.0	21.0	28.1	42.0	56.2	10.0-120	28.9	40	
N-Nitrosodiphenylamine	ug/L	ND	50.0	50.0	26.1	31.3	52.2	62.6	37.0-120	18.1	24	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3810264-1 R3810264-2

Parameter	Units	20247389007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
N-Nitroso-di-n-propylamine	ug/L	ND	50.0	50.0	26.2	33.4	52.4	66.8	16.0-120	24.2	30	
Phenanthrene	ug/L	ND	50.0	50.0	28.0	33.0	56.0	66.0	33.0-120	16.4	22	
Pyridine	ug/L	ND	50.0	50.0	12.5	7.46	25.0	14.9	10.0-120	50.5	37	R1
Butylbenzylphthalate	ug/L	ND	50.0	50.0	32.2	37.5	64.4	75.0	34.0-126	15.2	24	
bis(2-Ethylhexyl)phthalate	ug/L	ND	50.0	50.0	30.1	35.4	60.2	70.8	33.0-126	16.2	25	
Di-n-butylphthalate	ug/L	ND	50.0	50.0	32.5	38.0	65.0	76.0	35.0-128	15.6	23	
Diethylphthalate	ug/L	ND	50.0	50.0	31.9	37.1	63.8	74.2	39.0-125	15.1	24	
Dimethylphthalate	ug/L	ND	50.0	50.0	28.5	34.1	57.0	68.2	37.0-120	17.9	24	
Di-n-octylphthalate	ug/L	ND	50.0	50.0	29.5	34.3	59.0	68.6	25.0-135	15.0	26	
Pyrene	ug/L	ND	50.0	50.0	29.8	34.6	59.6	69.2	39.0-120	14.9	22	
1,2,4,5-Tetrachlorobenzene	ug/L	ND	50.0	50.0	27.3	34.9	54.6	69.8	19.0-122	24.4	32	
1,2,4-Trichlorobenzene	ug/L	ND	50.0	50.0	22.7	28.6	45.4	57.2	15.0-120	23.0	31	
4-Chloro-3-methylphenol	ug/L	ND	50.0	50.0	24.6	30.5	49.2	61.0	26.0-120	21.4	27	
2-Chlorophenol	ug/L	ND	50.0	50.0	23.7	30.3	47.4	60.6	18.0-120	24.4	34	
2,4-Dichlorophenol	ug/L	ND	50.0	50.0	24.2	31.3	48.4	62.6	19.0-120	25.6	27	
2,4-Dimethylphenol	ug/L	ND	50.0	50.0	22.8	26.6	45.6	53.2	15.0-120	15.4	28	
4,6-Dinitro-2-methylphenol	ug/L	ND	50.0	50.0	33.9	41.4	67.8	82.8	10.0-144	19.9	39	
2,4-Dinitrophenol	ug/L	ND	50.0	50.0	31.6	37.1	63.2	74.2	10.0-120	16.0	40	
2-Methylphenol(o-Cresol)	ug/L	ND	50.0	50.0	20.7	25.9	41.4	51.8	10.0-120	22.3	30	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50.0	50.0	23.1	29.1	46.2	58.2	10.0-120	23.0	36	
2-Nitrophenol	ug/L	ND	50.0	50.0	25.4	32.7	50.8	65.4	20.0-120	25.1	30	
4-Nitrophenol	ug/L	ND	50.0	50.0	16.1	19.5	32.2	39.0	10.0-120	19.1	40	
Pentachlorophenol	ug/L	ND	50.0	50.0	28.6	34.4	57.2	68.8	10.0-128	18.4	37	
Phenol	ug/L	ND	50.0	50.0	10.9	14.0	21.8	28.0	10.0-120	24.9	40	
2,3,4,6-Tetrachlorophenol	ug/L	ND	50.0	50.0	33.8	39.2	67.6	78.4	17.0-142	14.8	34	
2,4,5-Trichlorophenol	ug/L	ND	50.0	50.0	27.3	33.9	54.6	67.8	33.0-120	21.6	31	
2,4,6-Trichlorophenol	ug/L	ND	50.0	50.0	25.8	32.7	51.6	65.4	26.0-120	23.6	31	
Diphenylamine	ug/L	ND	50.0	50.0	26.1	31.3	52.2	62.6	35.0-120	18.1	30	
2-Fluorophenol (S)	%						31.6	40.5	10.0-120			
Phenol-d5 (S)	%						20.8	26.8	10.0-120			
Nitrobenzene-d5 (S)	%						46.5	60.1	10.0-127			
2-Fluorobiphenyl (S)	%						51.0	63.4	10.0-130			
2,4,6-Tribromophenol (S)	%						61.5	68.0	10.0-155			
Terphenyl-d14 (S)	%						60.4	67.4	10.0-128			

MATRIX SPIKE SAMPLE: R3811537-1

Parameter	Units	20247389007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
2-Acetylaminofluorene	ug/L	ND	50.0	33.7	67.4	32.0-120	
4-Aminobiphenyl	ug/L	ND	50.0	24.3	48.6	20.0-120	
Aramite	ug/L	ND	50.0	30.4	60.8	50.0-150	
Chlorobenzilate	ug/L	ND	50.0	40.7	81.4	29.0-128	
Diallate	ug/L	ND	50.0	22.9	45.8	30.0-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

MATRIX SPIKE SAMPLE: R3811537-1

Parameter	Units	20247389007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
2,6-Dichlorophenol	ug/L	ND	50.0	31.3	62.6	19.0-136	
Dimethoate	ug/L	ND	50.0	26.5	53.0	11.0-134	
P-Dimethylaminoazobenzene	ug/L	ND	50.0	23.7	47.4	27.0-120	
7,12-Dimethylbenz(a)anthracene	ug/L	ND	50.0	19.1	38.2	30.0-120	
3,3'-Dimethylbenzidine	ug/L	ND	50.0	7.19	14.4	13.0-120	
a,a-Dimethylphenylethylamine	ug/L	ND	50.0	ND	0.00	10.0-129	ML
1,3-Dinitrobenzene	ug/L	ND	50.0	35.1	70.2	34.0-120	
Diphenylamine	ug/L	ND	50.0	31.9	63.8	35.0-120	
Dinoseb	ug/L	ND	50.0	36.5	73.0	39.0-120	
Ethyl methanesulfonate	ug/L	ND	50.0	21.1	42.2	10.0-120	
Famphur	ug/L	ND	50.0	30.2	60.4	32.0-120	
Hexachloropropene	ug/L	ND	50.0	29.5	59.0	10.0-120	
Hexachlorophene	ug/L	ND	100	16.1	16.1	10.0-120	
Isodrin	ug/L	ND	50.0	22.9	45.8	22.0-157	
Isosafrole	ug/L	ND	50.0	30.1	60.2	25.0-133	
Kepone	ug/L	ND	50.0	ND	0.00	10.0-120	ML
Methapyrilene	ug/L	ND	50.0	11.3	22.6	10.0-120	
3-Methylcholanthrene	ug/L	ND	50.0	28.6	57.2	30.0-160	
Methyl methanesulfonate	ug/L	ND	50.0	18.7	37.4	10.0-120	
1,4-Naphthoquinone	ug/L	ND	50.0	ND	0.00	50.0-150	ML
1-Naphthalenamine	ug/L	ND	50.0	22.0	44.0	19.0-120	
2-Naphthalenamine	ug/L	ND	50.0	12.2	24.4	10.0-120	
5-Nitro-o-toluidine	ug/L	ND	50.0	32.0	64.0	34.0-120	
4-Nitroquinoline-n-oxide	ug/L	ND	50.0	15.4	30.8	10.0-159	
N-Nitrosodiethylamine	ug/L	ND	50.0	24.0	48.0	10.0-120	
N-Nitroso-di-n-butylamine	ug/L	ND	50.0	27.3	54.6	13.0-143	
N-Nitrosomethylethylamine	ug/L	ND	50.0	21.7	43.4	10.0-120	
N-Nitrosomorpholine	ug/L	ND	50.0	18.5	37.0	10.0-120	
N-Nitrosopiperidine	ug/L	ND	50.0	21.2	42.4	10.0-160	
N-Nitrosopyrrolidine	ug/L	ND	50.0	23.3	46.6	10.0-124	
Pentachlorobenzene	ug/L	ND	50.0	32.5	65.0	25.0-120	
Pentachloronitrobenzene	ug/L	ND	50.0	35.3	70.6	34.0-132	
Phenacetin	ug/L	ND	50.0	31.2	62.4	34.0-127	
p-Phenylenediamine	ug/L	ND	50.0	ND	0.00	60.0-140	ML
2-Picoline	ug/L	ND	50.0	17.7	35.4	10.0-120	
Pronamide	ug/L	ND	50.0	34.1	68.2	38.0-130	
Safrole	ug/L	ND	50.0	29.7	59.4	21.0-120	
Sulfotep (Thiodiphosphoric Ac	ug/L	ND	50.0	29.0	58.0	52.0-120	
Thionazin	ug/L	ND	50.0	30.2	60.4	38.0-121	
O-Toluidine	ug/L	ND	50.0	22.0	44.0	10.0-120	
1,3,5-Trinitrobenzene	ug/L	ND	50.0	23.6	47.2	37.0-147	
O,O,O-Triethylphosphorothioate	ug/L	ND	50.0	34.2	68.4	11.0-135	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 1884345
QC Batch Method: 3510C
Analysis Method: EPA 8270C Modified
Analysis Description: SVOA (GC/MS) 8270C-mod
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20247389009, 20247389011, 20247389013, 20247389014, 20247389015, 20247389017, 20247389021, 20247389022, 20247389023, 20247389024, 20247389025

METHOD BLANK: R3808501-2 Matrix: Water
Associated Lab Samples: 20247389009, 20247389011, 20247389013, 20247389014, 20247389015, 20247389017, 20247389021, 20247389022, 20247389023, 20247389024, 20247389025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.0857J	0.400	0.0447	06/25/22 10:19	B,J
Nitrobenzene-d5 (S)	%	73.9	10.0-120		06/25/22 10:19	

LABORATORY CONTROL SAMPLE: R3808501-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	50.0	60.1	120	73.0-146	
Nitrobenzene-d5 (S)	%			62.7	10.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3808501-3 R3808501-4

Parameter	Units	L1506772-09 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,4-Dioxane (p-Dioxane)	ug/L	19.0	45.5	45.5	64.3	81.1	99.6	136	38.0-160	23.1	21	R1
Nitrobenzene-d5 (S)	%						18.2	45.2	10.0-120			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 1885740
QC Batch Method: 3510C
Analysis Method: EPA 8270C Modified
Analysis Description: SVOA (GC/MS) 8270C-mod
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20247389001, 20247389002, 20247389003, 20247389004, 20247389005, 20247389006, 20247389010, 20247389012, 20247389018, 20247389019, 20247389020, 20247389026, 20247389027, 20247389028, 20247389029, 20247389030, 20247389031, 20247389032

METHOD BLANK: R3813164-3 Matrix: Water
Associated Lab Samples: 20247389001, 20247389002, 20247389003, 20247389004, 20247389005, 20247389006, 20247389010, 20247389012, 20247389018, 20247389019, 20247389020, 20247389026, 20247389027, 20247389028, 20247389029, 20247389030, 20247389031, 20247389032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.126J	0.400	0.0447	06/27/22 16:17	B,J
Nitrobenzene-d5 (S)	%	38.7	10.0-120		06/27/22 16:17	

LABORATORY CONTROL SAMPLE & LCSD: R3813164-1 R3813164-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	50.0	54.0	54.3	108	109	73.0-146	0.554	20	
Nitrobenzene-d5 (S)	%				47.7	70.7	10.0-120			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 1886179
QC Batch Method: 3510C
Analysis Method: EPA 8270C Modified
Analysis Description: SVOA (GC/MS) 8270C-mod
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20247389007, 20247389008, 20247389016

METHOD BLANK: R3809943-3 Matrix: Water
Associated Lab Samples: 20247389007, 20247389008, 20247389016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	ND	0.400	0.0447	06/30/22 16:23	
Nitrobenzene-d5 (S)	%	42.7	10.0-120		06/30/22 16:23	

LABORATORY CONTROL SAMPLE & LCSD: R3809943-1 R3809943-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	50.0	63.0	61.9	126	124	73.0-146	1.76	20	
Nitrobenzene-d5 (S)	%				60.1	41.6	10.0-120			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 1889130
QC Batch Method: 624.1/8260B
Analysis Method: EPA 8260B
Analysis Description: VOA (GC/MS) 8260B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20247389009, 20247389011, 20247389013, 20247389014, 20247389015, 20247389017, 20247389021, 20247389022, 20247389023, 20247389024, 20247389025, 20247389026, 20247389027, 20247389033, 20247389034, 20247389035, 20247389036, 20247389037, 20247389038

METHOD BLANK: R3810395-3 Matrix: Water
Associated Lab Samples: 20247389009, 20247389011, 20247389013, 20247389014, 20247389015, 20247389017, 20247389021, 20247389022, 20247389023, 20247389024, 20247389025, 20247389026, 20247389027, 20247389033, 20247389034, 20247389035, 20247389036, 20247389037, 20247389038

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetone	ug/L	ND	50.0	11.3	07/02/22 12:53	
Benzene	ug/L	ND	1.00	0.0941	07/02/22 12:53	
Bromodichloromethane	ug/L	ND	1.00	0.136	07/02/22 12:53	
Carbon disulfide	ug/L	ND	1.00	0.0962	07/02/22 12:53	
Chlorobenzene	ug/L	ND	1.00	0.116	07/02/22 12:53	
Chloroform	ug/L	ND	5.00	0.111	07/02/22 12:53	
1,1-Dichloroethane	ug/L	ND	1.00	0.100	07/02/22 12:53	
1,1-Dichloroethene	ug/L	ND	1.00	0.188	07/02/22 12:53	
cis-1,2-Dichloroethene	ug/L	ND	1.00	0.126	07/02/22 12:53	
trans-1,2-Dichloroethene	ug/L	ND	1.00	0.149	07/02/22 12:53	
1,2-Dichloropropane	ug/L	ND	1.00	0.149	07/02/22 12:53	
Ethylbenzene	ug/L	ND	1.00	0.173	07/02/22 12:53	
Toluene	ug/L	ND	1.00	0.278	07/02/22 12:53	
Trichloroethene	ug/L	ND	1.00	0.190	07/02/22 12:53	
Vinyl chloride	ug/L	ND	1.00	0.234	07/02/22 12:53	
o-Xylene	ug/L	ND	1.00	0.174	07/02/22 12:53	
m&p-Xylene	ug/L	ND	2.00	0.430	07/02/22 12:53	
Xylene (Total)	ug/L	ND	3.00	0.174	07/02/22 12:53	
Toluene-d8 (S)	%	109	80.0-120		07/02/22 12:53	
1,2-Dichloroethane-d4 (S)	%	105	70.0-130		07/02/22 12:53	
4-Bromofluorobenzene (S)	%	98.8	77.0-126		07/02/22 12:53	

LABORATORY CONTROL SAMPLE & LCSD: R3810395-1 R3810395-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acetone	ug/L	25.0	22.4	27.4	89.6	110	19.0-160	20.1	27	
Benzene	ug/L	5.00	4.99	5.43	99.8	109	70.0-123	8.45	20	
Bromodichloromethane	ug/L	5.00	4.98	5.32	99.6	106	75.0-120	6.60	20	
Carbon disulfide	ug/L	5.00	5.55	6.13	111	123	61.0-128	9.93	20	
Chlorobenzene	ug/L	5.00	4.75	4.95	95.0	99.0	80.0-121	4.12	20	
Chloroform	ug/L	5.00	5.02	5.40	100	108	73.0-120	7.29	20	
1,1-Dichloroethane	ug/L	5.00	5.02	5.49	100	110	70.0-126	8.94	20	
1,1-Dichloroethene	ug/L	5.00	5.33	5.59	107	112	71.0-124	4.76	20	
cis-1,2-Dichloroethene	ug/L	5.00	4.86	5.28	97.2	106	73.0-120	8.28	20	
trans-1,2-Dichloroethene	ug/L	5.00	4.89	5.16	97.8	103	73.0-120	5.37	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

LABORATORY CONTROL SAMPLE & LCSD: R3810395-1 R3810395-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dichloropropane	ug/L	5.00	5.22	5.69	104	114	77.0-125	8.62	20	
Ethylbenzene	ug/L	5.00	4.77	5.00	95.4	100	79.0-123	4.71	20	
Toluene	ug/L	5.00	5.03	5.32	101	106	79.0-120	5.60	20	
Trichloroethene	ug/L	5.00	5.00	5.56	100	111	78.0-124	10.6	20	
Vinyl chloride	ug/L	5.00	5.16	5.65	103	113	67.0-131	9.07	20	
o-Xylene	ug/L	5.00	4.86	5.14	97.2	103	80.0-122	5.60	20	
m&p-Xylene	ug/L	10.0	9.72	10.2	97.2	102	80.0-122	4.82	20	
Xylene (Total)	ug/L	15.0	14.6	15.3	97.3	102	79.0-123	4.68	20	
Toluene-d8 (S)	%				107	104	80.0-120			
1,2-Dichloroethane-d4 (S)	%				103	106	70.0-130			
4-Bromofluorobenzene (S)	%				104	101	77.0-126			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 1889133
QC Batch Method: 624.1/8260B
Analysis Method: EPA 8260B
Analysis Description: VOA (GC/MS) 8260B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20247389001, 20247389002, 20247389003, 20247389004, 20247389005, 20247389006, 20247389010, 20247389012, 20247389018, 20247389019

METHOD BLANK: R3810953-3
Matrix: Water
Associated Lab Samples: 20247389001, 20247389002, 20247389003, 20247389004, 20247389005, 20247389006, 20247389010, 20247389012, 20247389018, 20247389019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetone	ug/L	ND	50.0	11.3	07/02/22 09:14	
Acrolein	ug/L	ND	50.0	2.54	07/02/22 09:14	
Acrylonitrile	ug/L	ND	10.0	0.671	07/02/22 09:14	
Allyl chloride	ug/L	ND	5.00	0.500	07/02/22 09:14	
Benzene	ug/L	ND	1.00	0.0941	07/02/22 09:14	
Bromodichloromethane	ug/L	ND	1.00	0.136	07/02/22 09:14	
Bromoform	ug/L	ND	1.00	0.129	07/02/22 09:14	
Bromomethane	ug/L	ND	5.00	0.605	07/02/22 09:14	
Carbon disulfide	ug/L	ND	1.00	0.0962	07/02/22 09:14	
Carbon tetrachloride	ug/L	ND	1.00	0.128	07/02/22 09:14	
Chlorobenzene	ug/L	ND	1.00	0.116	07/02/22 09:14	
Dibromochloromethane	ug/L	ND	1.00	0.140	07/02/22 09:14	
Chloroethane	ug/L	ND	5.00	0.192	07/02/22 09:14	
Chloroform	ug/L	ND	5.00	0.111	07/02/22 09:14	
Chloromethane	ug/L	ND	2.50	0.960	07/02/22 09:14	
Dibromomethane	ug/L	ND	1.00	0.122	07/02/22 09:14	
1,2-Dichlorobenzene	ug/L	ND	1.00	0.107	07/02/22 09:14	
trans-1,4-Dichloro-2-butene	ug/L	ND	2.50	0.467	07/02/22 09:14	
Dichlorodifluoromethane	ug/L	ND	5.00	0.374	07/02/22 09:14	
1,1-Dichloroethane	ug/L	ND	1.00	0.100	07/02/22 09:14	
1,2-Dichloroethane	ug/L	ND	1.00	0.0819	07/02/22 09:14	
1,1-Dichloroethene	ug/L	ND	1.00	0.188	07/02/22 09:14	
cis-1,2-Dichloroethene	ug/L	ND	1.00	0.126	07/02/22 09:14	
trans-1,2-Dichloroethene	ug/L	ND	1.00	0.149	07/02/22 09:14	
1,2-Dichloropropane	ug/L	ND	1.00	0.149	07/02/22 09:14	
cis-1,3-Dichloropropene	ug/L	ND	1.00	0.111	07/02/22 09:14	
trans-1,3-Dichloropropene	ug/L	ND	1.00	0.118	07/02/22 09:14	
Ethylbenzene	ug/L	ND	1.00	0.173	07/02/22 09:14	
2-Hexanone	ug/L	ND	10.0	0.787	07/02/22 09:14	
Iodomethane	ug/L	ND	10.0	6.00	07/02/22 09:14	
2-Butanone (MEK)	ug/L	ND	10.0	1.19	07/02/22 09:14	
Methylene Chloride	ug/L	0.923J	5.00	0.430	07/02/22 09:14	J
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.478	07/02/22 09:14	
Styrene	ug/L	ND	1.00	0.118	07/02/22 09:14	
1,1,1,2-Tetrachloroethane	ug/L	ND	1.00	0.147	07/02/22 09:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.00	0.133	07/02/22 09:14	
Tetrachloroethene	ug/L	ND	1.00	0.300	07/02/22 09:14	
Toluene	ug/L	ND	1.00	0.278	07/02/22 09:14	
1,1,1-Trichloroethane	ug/L	ND	1.00	0.149	07/02/22 09:14	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

METHOD BLANK: R3810953-3 Matrix: Water

Associated Lab Samples: 20247389001, 20247389002, 20247389003, 20247389004, 20247389005, 20247389006, 20247389010, 20247389012, 20247389018, 20247389019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,2-Trichloroethane	ug/L	ND	1.00	0.158	07/02/22 09:14	
Trichloroethene	ug/L	ND	1.00	0.190	07/02/22 09:14	
Trichlorofluoromethane	ug/L	ND	5.00	0.160	07/02/22 09:14	
1,2,3-Trichloropropane	ug/L	ND	2.50	0.237	07/02/22 09:14	
Vinyl acetate	ug/L	ND	10.0	0.692	07/02/22 09:14	
Vinyl chloride	ug/L	ND	1.00	0.234	07/02/22 09:14	
o-Xylene	ug/L	ND	1.00	0.174	07/02/22 09:14	
m&p-Xylene	ug/L	ND	2.00	0.430	07/02/22 09:14	
Xylene (Total)	ug/L	ND	3.00	0.174	07/02/22 09:14	
Acetonitrile	ug/L	ND	50.0	24.0	07/02/22 09:14	
Chloroprene	ug/L	ND	50.0	1.45	07/02/22 09:14	
Ethyl methacrylate	ug/L	ND	5.00	1.48	07/02/22 09:14	
Isobutanol	ug/L	ND	100	42.1	07/02/22 09:14	
Methacrylonitrile	ug/L	ND	50.0	14.2	07/02/22 09:14	
Methyl methacrylate	ug/L	ND	5.00	1.52	07/02/22 09:14	
Pentachloroethane	ug/L	ND	5.00	2.30	07/02/22 09:14	
Propionitrile	ug/L	ND	50.0	16.2	07/02/22 09:14	
Toluene-d8 (S)	%	103	80.0-120		07/02/22 09:14	
1,2-Dichloroethane-d4 (S)	%	107	70.0-130		07/02/22 09:14	
4-Bromofluorobenzene (S)	%	104	77.0-126		07/02/22 09:14	

LABORATORY CONTROL SAMPLE: R3810953-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	25.0	31.3	125	19.0-160	
Acrolein	ug/L	25.0	22.0	88.0	10.0-160	
Acrylonitrile	ug/L	25.0	28.2	113	55.0-149	
Allyl chloride	ug/L	25.0	26.9	108	72.0-128	
Benzene	ug/L	5.00	5.75	115	70.0-123	
Bromodichloromethane	ug/L	5.00	5.28	106	75.0-120	
Bromoform	ug/L	5.00	4.23	84.6	68.0-132	
Bromomethane	ug/L	5.00	3.98	79.6	10.0-160	
Carbon disulfide	ug/L	5.00	4.49	89.8	61.0-128	
Carbon tetrachloride	ug/L	5.00	5.15	103	68.0-126	
Chlorobenzene	ug/L	5.00	5.26	105	80.0-121	
Dibromochloromethane	ug/L	5.00	4.54	90.8	77.0-125	
Chloroethane	ug/L	5.00	5.29	106	47.0-150	
Chloroform	ug/L	5.00	5.78	116	73.0-120	
Chloromethane	ug/L	5.00	3.73	74.6	41.0-142	
Dibromomethane	ug/L	5.00	5.48	110	80.0-120	
1,2-Dichlorobenzene	ug/L	5.00	4.87	97.4	79.0-121	
trans-1,4-Dichloro-2-butene	ug/L	5.00	3.38	67.6	33.0-144	
Dichlorodifluoromethane	ug/L	5.00	3.82	76.4	51.0-149	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

LABORATORY CONTROL SAMPLE: R3810953-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/L	5.00	5.76	115	70.0-126	
1,2-Dichloroethane	ug/L	5.00	5.53	111	70.0-128	
1,1-Dichloroethene	ug/L	5.00	5.26	105	71.0-124	
cis-1,2-Dichloroethene	ug/L	5.00	5.82	116	73.0-120	
trans-1,2-Dichloroethene	ug/L	5.00	5.69	114	73.0-120	
1,2-Dichloropropane	ug/L	5.00	5.66	113	77.0-125	
cis-1,3-Dichloropropene	ug/L	5.00	5.10	102	80.0-123	
trans-1,3-Dichloropropene	ug/L	5.00	4.32	86.4	78.0-124	
Ethylbenzene	ug/L	5.00	5.23	105	79.0-123	
2-Hexanone	ug/L	25.0	22.9	91.6	67.0-149	
Iodomethane	ug/L	25.0	15.3	61.2	33.0-147	
2-Butanone (MEK)	ug/L	25.0	27.1	108	44.0-160	
Methylene Chloride	ug/L	5.00	6.34	127	67.0-120	L0
4-Methyl-2-pentanone (MIBK)	ug/L	25.0	25.7	103	68.0-142	
Styrene	ug/L	5.00	4.68	93.6	73.0-130	
1,1,1,2-Tetrachloroethane	ug/L	5.00	4.90	98.0	75.0-125	
1,1,2,2-Tetrachloroethane	ug/L	5.00	4.25	85.0	65.0-130	
Tetrachloroethene	ug/L	5.00	5.36	107	72.0-132	
Toluene	ug/L	5.00	5.07	101	79.0-120	
1,1,1-Trichloroethane	ug/L	5.00	5.58	112	73.0-124	
1,1,2-Trichloroethane	ug/L	5.00	4.83	96.6	80.0-120	
Trichloroethene	ug/L	5.00	6.72	134	78.0-124	L0
Trichlorofluoromethane	ug/L	5.00	5.05	101	59.0-147	
1,2,3-Trichloropropane	ug/L	5.00	5.14	103	73.0-130	
Vinyl acetate	ug/L	25.0	7.47	29.9	11.0-160	
Vinyl chloride	ug/L	5.00	4.69	93.8	67.0-131	
o-Xylene	ug/L	5.00	5.05	101	80.0-122	
m&p-Xylene	ug/L	10.0	10.1	101	80.0-122	
Xylene (Total)	ug/L	15.0	15.2	101	79.0-123	
Toluene-d8 (S)	%			97.8	80.0-120	
1,2-Dichloroethane-d4 (S)	%			107	70.0-130	
4-Bromofluorobenzene (S)	%			100	77.0-126	

LABORATORY CONTROL SAMPLE: R3810953-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetonitrile	ug/L	500	591	118	40.0-160	
Chloroprene	ug/L	50.0	54.5	109	60.0-143	
Ethyl methacrylate	ug/L	50.0	48.9	97.8	72.0-129	
Isobutanol	ug/L	1000	1070	107	40.0-160	
Methacrylonitrile	ug/L	500	572	114	61.0-145	
Methyl methacrylate	ug/L	50.0	52.6	105	63.0-149	
Pentachloroethane	ug/L	50.0	ND	0.00	10.0-160	L0
Propionitrile	ug/L	500	590	118	49.0-160	
Toluene-d8 (S)	%			99.8	80.0-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

LABORATORY CONTROL SAMPLE: R3810953-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			100	70.0-130	
4-Bromofluorobenzene (S)	%			103	77.0-126	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 1889133
QC Batch Method: 8260B
Analysis Method: EPA 8260B
Analysis Description: VOA (GC/MS) 8260B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20247389001, 20247389002, 20247389003, 20247389004, 20247389005, 20247389006, 20247389010, 20247389012, 20247389018, 20247389019

METHOD BLANK: R3810953-3
Matrix: Water
Associated Lab Samples: 20247389001, 20247389002, 20247389003, 20247389004, 20247389005, 20247389006, 20247389010, 20247389012, 20247389018, 20247389019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetone	ug/L	ND	50.0	11.3	07/02/22 09:14	
Acrolein	ug/L	ND	50.0	2.54	07/02/22 09:14	
Acrylonitrile	ug/L	ND	10.0	0.671	07/02/22 09:14	
Allyl chloride	ug/L	ND	5.00	0.500	07/02/22 09:14	
Benzene	ug/L	ND	1.00	0.0941	07/02/22 09:14	
Bromodichloromethane	ug/L	ND	1.00	0.136	07/02/22 09:14	
Bromoform	ug/L	ND	1.00	0.129	07/02/22 09:14	
Bromomethane	ug/L	ND	5.00	0.605	07/02/22 09:14	
Carbon disulfide	ug/L	ND	1.00	0.0962	07/02/22 09:14	
Carbon tetrachloride	ug/L	ND	1.00	0.128	07/02/22 09:14	
Chlorobenzene	ug/L	ND	1.00	0.116	07/02/22 09:14	
Dibromochloromethane	ug/L	ND	1.00	0.140	07/02/22 09:14	
Chloroethane	ug/L	ND	5.00	0.192	07/02/22 09:14	
Chloroform	ug/L	ND	5.00	0.111	07/02/22 09:14	
Chloromethane	ug/L	ND	2.50	0.960	07/02/22 09:14	
Dibromomethane	ug/L	ND	1.00	0.122	07/02/22 09:14	
1,2-Dichlorobenzene	ug/L	ND	1.00	0.107	07/02/22 09:14	
trans-1,4-Dichloro-2-butene	ug/L	ND	2.50	0.467	07/02/22 09:14	
Dichlorodifluoromethane	ug/L	ND	5.00	0.374	07/02/22 09:14	
1,1-Dichloroethane	ug/L	ND	1.00	0.100	07/02/22 09:14	
1,2-Dichloroethane	ug/L	ND	1.00	0.0819	07/02/22 09:14	
1,1-Dichloroethene	ug/L	ND	1.00	0.188	07/02/22 09:14	
cis-1,2-Dichloroethene	ug/L	ND	1.00	0.126	07/02/22 09:14	
trans-1,2-Dichloroethene	ug/L	ND	1.00	0.149	07/02/22 09:14	
1,2-Dichloropropane	ug/L	ND	1.00	0.149	07/02/22 09:14	
cis-1,3-Dichloropropene	ug/L	ND	1.00	0.111	07/02/22 09:14	
trans-1,3-Dichloropropene	ug/L	ND	1.00	0.118	07/02/22 09:14	
Ethylbenzene	ug/L	ND	1.00	0.173	07/02/22 09:14	
2-Hexanone	ug/L	ND	10.0	0.787	07/02/22 09:14	
Iodomethane	ug/L	ND	10.0	6.00	07/02/22 09:14	
2-Butanone (MEK)	ug/L	ND	10.0	1.19	07/02/22 09:14	
Methylene Chloride	ug/L	0.923J	5.00	0.430	07/02/22 09:14	J
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.478	07/02/22 09:14	
Styrene	ug/L	ND	1.00	0.118	07/02/22 09:14	
1,1,1,2-Tetrachloroethane	ug/L	ND	1.00	0.147	07/02/22 09:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.00	0.133	07/02/22 09:14	
Tetrachloroethene	ug/L	ND	1.00	0.300	07/02/22 09:14	
Toluene	ug/L	ND	1.00	0.278	07/02/22 09:14	
1,1,1-Trichloroethane	ug/L	ND	1.00	0.149	07/02/22 09:14	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

METHOD BLANK: R3810953-3 Matrix: Water

Associated Lab Samples: 20247389001, 20247389002, 20247389003, 20247389004, 20247389005, 20247389006, 20247389010, 20247389012, 20247389018, 20247389019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,2-Trichloroethane	ug/L	ND	1.00	0.158	07/02/22 09:14	
Trichloroethene	ug/L	ND	1.00	0.190	07/02/22 09:14	
Trichlorofluoromethane	ug/L	ND	5.00	0.160	07/02/22 09:14	
1,2,3-Trichloropropane	ug/L	ND	2.50	0.237	07/02/22 09:14	
Vinyl acetate	ug/L	ND	10.0	0.692	07/02/22 09:14	
Vinyl chloride	ug/L	ND	1.00	0.234	07/02/22 09:14	
o-Xylene	ug/L	ND	1.00	0.174	07/02/22 09:14	
m&p-Xylene	ug/L	ND	2.00	0.430	07/02/22 09:14	
Xylene (Total)	ug/L	ND	3.00	0.174	07/02/22 09:14	
Acetonitrile	ug/L	ND	50.0	24.0	07/02/22 09:14	
Chloroprene	ug/L	ND	50.0	1.45	07/02/22 09:14	
Ethyl methacrylate	ug/L	ND	5.00	1.48	07/02/22 09:14	
Isobutanol	ug/L	ND	100	42.1	07/02/22 09:14	
Methacrylonitrile	ug/L	ND	50.0	14.2	07/02/22 09:14	
Methyl methacrylate	ug/L	ND	5.00	1.52	07/02/22 09:14	
Pentachloroethane	ug/L	ND	5.00	2.30	07/02/22 09:14	
Propionitrile	ug/L	ND	50.0	16.2	07/02/22 09:14	
Toluene-d8 (S)	%	103	80.0-120		07/02/22 09:14	
1,2-Dichloroethane-d4 (S)	%	107	70.0-130		07/02/22 09:14	
4-Bromofluorobenzene (S)	%	104	77.0-126		07/02/22 09:14	

LABORATORY CONTROL SAMPLE: R3810953-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	25.0	31.3	125	19.0-160	
Acrolein	ug/L	25.0	22.0	88.0	10.0-160	
Acrylonitrile	ug/L	25.0	28.2	113	55.0-149	
Allyl chloride	ug/L	25.0	26.9	108	72.0-128	
Benzene	ug/L	5.00	5.75	115	70.0-123	
Bromodichloromethane	ug/L	5.00	5.28	106	75.0-120	
Bromoform	ug/L	5.00	4.23	84.6	68.0-132	
Bromomethane	ug/L	5.00	3.98	79.6	10.0-160	
Carbon disulfide	ug/L	5.00	4.49	89.8	61.0-128	
Carbon tetrachloride	ug/L	5.00	5.15	103	68.0-126	
Chlorobenzene	ug/L	5.00	5.26	105	80.0-121	
Dibromochloromethane	ug/L	5.00	4.54	90.8	77.0-125	
Chloroethane	ug/L	5.00	5.29	106	47.0-150	
Chloroform	ug/L	5.00	5.78	116	73.0-120	
Chloromethane	ug/L	5.00	3.73	74.6	41.0-142	
Dibromomethane	ug/L	5.00	5.48	110	80.0-120	
1,2-Dichlorobenzene	ug/L	5.00	4.87	97.4	79.0-121	
trans-1,4-Dichloro-2-butene	ug/L	5.00	3.38	67.6	33.0-144	
Dichlorodifluoromethane	ug/L	5.00	3.82	76.4	51.0-149	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

LABORATORY CONTROL SAMPLE: R3810953-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/L	5.00	5.76	115	70.0-126	
1,2-Dichloroethane	ug/L	5.00	5.53	111	70.0-128	
1,1-Dichloroethene	ug/L	5.00	5.26	105	71.0-124	
cis-1,2-Dichloroethene	ug/L	5.00	5.82	116	73.0-120	
trans-1,2-Dichloroethene	ug/L	5.00	5.69	114	73.0-120	
1,2-Dichloropropane	ug/L	5.00	5.66	113	77.0-125	
cis-1,3-Dichloropropene	ug/L	5.00	5.10	102	80.0-123	
trans-1,3-Dichloropropene	ug/L	5.00	4.32	86.4	78.0-124	
Ethylbenzene	ug/L	5.00	5.23	105	79.0-123	
2-Hexanone	ug/L	25.0	22.9	91.6	67.0-149	
Iodomethane	ug/L	25.0	15.3	61.2	33.0-147	
2-Butanone (MEK)	ug/L	25.0	27.1	108	44.0-160	
Methylene Chloride	ug/L	5.00	6.34	127	67.0-120	L0
4-Methyl-2-pentanone (MIBK)	ug/L	25.0	25.7	103	68.0-142	
Styrene	ug/L	5.00	4.68	93.6	73.0-130	
1,1,1,2-Tetrachloroethane	ug/L	5.00	4.90	98.0	75.0-125	
1,1,2,2-Tetrachloroethane	ug/L	5.00	4.25	85.0	65.0-130	
Tetrachloroethene	ug/L	5.00	5.36	107	72.0-132	
Toluene	ug/L	5.00	5.07	101	79.0-120	
1,1,1-Trichloroethane	ug/L	5.00	5.58	112	73.0-124	
1,1,2-Trichloroethane	ug/L	5.00	4.83	96.6	80.0-120	
Trichloroethene	ug/L	5.00	6.72	134	78.0-124	L0
Trichlorofluoromethane	ug/L	5.00	5.05	101	59.0-147	
1,2,3-Trichloropropane	ug/L	5.00	5.14	103	73.0-130	
Vinyl acetate	ug/L	25.0	7.47	29.9	11.0-160	
Vinyl chloride	ug/L	5.00	4.69	93.8	67.0-131	
o-Xylene	ug/L	5.00	5.05	101	80.0-122	
m&p-Xylene	ug/L	10.0	10.1	101	80.0-122	
Xylene (Total)	ug/L	15.0	15.2	101	79.0-123	
Toluene-d8 (S)	%			97.8	80.0-120	
1,2-Dichloroethane-d4 (S)	%			107	70.0-130	
4-Bromofluorobenzene (S)	%			100	77.0-126	

LABORATORY CONTROL SAMPLE: R3810953-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetonitrile	ug/L	500	591	118	40.0-160	
Chloroprene	ug/L	50.0	54.5	109	60.0-143	
Ethyl methacrylate	ug/L	50.0	48.9	97.8	72.0-129	
Isobutanol	ug/L	1000	1070	107	40.0-160	
Methacrylonitrile	ug/L	500	572	114	61.0-145	
Methyl methacrylate	ug/L	50.0	52.6	105	63.0-149	
Pentachloroethane	ug/L	50.0	ND	0.00	10.0-160	L0
Propionitrile	ug/L	500	590	118	49.0-160	
Toluene-d8 (S)	%			99.8	80.0-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

LABORATORY CONTROL SAMPLE: R3810953-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			100	70.0-130	
4-Bromofluorobenzene (S)	%			103	77.0-126	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 1890091
QC Batch Method: 8260B
Analysis Method: EPA 8260B
Analysis Description: VOA (GC/MS) 8260B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20247389007, 20247389008, 20247389016, 20247389020, 20247389028, 20247389029, 20247389030, 20247389031, 20247389032

METHOD BLANK: R3810945-3
Matrix: Water
Associated Lab Samples: 20247389007, 20247389008, 20247389016, 20247389020, 20247389028, 20247389029, 20247389030, 20247389031, 20247389032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetone	ug/L	ND	50.0	11.3	07/05/22 12:12	
Acrolein	ug/L	ND	50.0	2.54	07/05/22 12:12	
Acrylonitrile	ug/L	ND	10.0	0.671	07/05/22 12:12	
Allyl chloride	ug/L	ND	5.00	0.500	07/05/22 12:12	
Benzene	ug/L	ND	1.00	0.0941	07/05/22 12:12	
Bromodichloromethane	ug/L	ND	1.00	0.136	07/05/22 12:12	
Bromoform	ug/L	ND	1.00	0.129	07/05/22 12:12	
Bromomethane	ug/L	ND	5.00	0.605	07/05/22 12:12	
Carbon disulfide	ug/L	ND	1.00	0.0962	07/05/22 12:12	
Carbon tetrachloride	ug/L	ND	1.00	0.128	07/05/22 12:12	
Chlorobenzene	ug/L	ND	1.00	0.116	07/05/22 12:12	
Dibromochloromethane	ug/L	ND	1.00	0.140	07/05/22 12:12	
Chloroethane	ug/L	ND	5.00	0.192	07/05/22 12:12	
Chloroform	ug/L	ND	5.00	0.111	07/05/22 12:12	
Chloromethane	ug/L	ND	2.50	0.960	07/05/22 12:12	
Dibromomethane	ug/L	ND	1.00	0.122	07/05/22 12:12	
1,2-Dichlorobenzene	ug/L	ND	1.00	0.107	07/05/22 12:12	
trans-1,4-Dichloro-2-butene	ug/L	ND	2.50	0.467	07/05/22 12:12	
Dichlorodifluoromethane	ug/L	ND	5.00	0.374	07/05/22 12:12	
1,1-Dichloroethane	ug/L	ND	1.00	0.100	07/05/22 12:12	
1,2-Dichloroethane	ug/L	ND	1.00	0.0819	07/05/22 12:12	
1,1-Dichloroethene	ug/L	ND	1.00	0.188	07/05/22 12:12	
cis-1,2-Dichloroethene	ug/L	ND	1.00	0.126	07/05/22 12:12	
trans-1,2-Dichloroethene	ug/L	ND	1.00	0.149	07/05/22 12:12	
1,2-Dichloropropane	ug/L	ND	1.00	0.149	07/05/22 12:12	
cis-1,3-Dichloropropene	ug/L	ND	1.00	0.111	07/05/22 12:12	
trans-1,3-Dichloropropene	ug/L	ND	1.00	0.118	07/05/22 12:12	
Ethylbenzene	ug/L	ND	1.00	0.173	07/05/22 12:12	
2-Hexanone	ug/L	ND	10.0	0.787	07/05/22 12:12	
Iodomethane	ug/L	ND	10.0	6.00	07/05/22 12:12	
2-Butanone (MEK)	ug/L	ND	10.0	1.19	07/05/22 12:12	
Methylene Chloride	ug/L	ND	5.00	0.430	07/05/22 12:12	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.478	07/05/22 12:12	
Styrene	ug/L	ND	1.00	0.118	07/05/22 12:12	
1,1,1,2-Tetrachloroethane	ug/L	ND	1.00	0.147	07/05/22 12:12	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.00	0.133	07/05/22 12:12	
Tetrachloroethene	ug/L	ND	1.00	0.300	07/05/22 12:12	
Toluene	ug/L	ND	1.00	0.278	07/05/22 12:12	
1,1,1-Trichloroethane	ug/L	ND	1.00	0.149	07/05/22 12:12	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

METHOD BLANK: R3810945-3 Matrix: Water

Associated Lab Samples: 20247389007, 20247389008, 20247389016, 20247389020, 20247389028, 20247389029, 20247389030, 20247389031, 20247389032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,2-Trichloroethane	ug/L	ND	1.00	0.158	07/05/22 12:12	
Trichloroethene	ug/L	ND	1.00	0.190	07/05/22 12:12	
Trichlorofluoromethane	ug/L	ND	5.00	0.160	07/05/22 12:12	
1,2,3-Trichloropropane	ug/L	ND	2.50	0.237	07/05/22 12:12	
Vinyl acetate	ug/L	ND	10.0	0.692	07/05/22 12:12	
Vinyl chloride	ug/L	ND	1.00	0.234	07/05/22 12:12	
o-Xylene	ug/L	ND	1.00	0.174	07/05/22 12:12	
m&p-Xylene	ug/L	ND	2.00	0.430	07/05/22 12:12	
Xylene (Total)	ug/L	ND	3.00	0.174	07/05/22 12:12	
Acetonitrile	ug/L	ND	50.0	24.0	07/05/22 12:12	
Chloroprene	ug/L	ND	50.0	1.45	07/05/22 12:12	
Ethyl methacrylate	ug/L	ND	5.00	1.48	07/05/22 12:12	
Isobutanol	ug/L	ND	100	42.1	07/05/22 12:12	
Methacrylonitrile	ug/L	ND	50.0	14.2	07/05/22 12:12	
Methyl methacrylate	ug/L	ND	5.00	1.52	07/05/22 12:12	
Pentachloroethane	ug/L	ND	5.00	2.30	07/05/22 12:12	
Propionitrile	ug/L	ND	50.0	16.2	07/05/22 12:12	
Toluene-d8 (S)	%	99.1	80.0-120		07/05/22 12:12	
1,2-Dichloroethane-d4 (S)	%	107	70.0-130		07/05/22 12:12	
4-Bromofluorobenzene (S)	%	99.7	77.0-126		07/05/22 12:12	

LABORATORY CONTROL SAMPLE: R3810945-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetonitrile	ug/L	500	682	136	40.0-160	
Chloroprene	ug/L	50.0	53.3	107	60.0-143	
Ethyl methacrylate	ug/L	50.0	50.2	100	72.0-129	
Isobutanol	ug/L	1000	1260	126	40.0-160	
Methacrylonitrile	ug/L	500	601	120	61.0-145	
Methyl methacrylate	ug/L	50.0	55.4	111	63.0-149	
Pentachloroethane	ug/L	50.0	18.4	36.8	10.0-160	
Propionitrile	ug/L	500	656	131	49.0-160	
Toluene-d8 (S)	%			97.6	80.0-120	
1,2-Dichloroethane-d4 (S)	%			96.6	70.0-130	
4-Bromofluorobenzene (S)	%			101	77.0-126	

LABORATORY CONTROL SAMPLE: R3810945-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	25.0	28.9	116	19.0-160	
Acrolein	ug/L	25.0	14.7	58.8	10.0-160	
Acrylonitrile	ug/L	25.0	28.7	115	55.0-149	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

LABORATORY CONTROL SAMPLE: R3810945-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Allyl chloride	ug/L	25.0	28.4	114	72.0-128	
Benzene	ug/L	5.00	5.88	118	70.0-123	
Bromodichloromethane	ug/L	5.00	5.11	102	75.0-120	
Bromoform	ug/L	5.00	4.04	80.8	68.0-132	
Bromomethane	ug/L	5.00	4.53	90.6	10.0-160	
Carbon disulfide	ug/L	5.00	5.10	102	61.0-128	
Carbon tetrachloride	ug/L	5.00	5.52	110	68.0-126	
Chlorobenzene	ug/L	5.00	5.16	103	80.0-121	
Dibromochloromethane	ug/L	5.00	4.29	85.8	77.0-125	
Chloroethane	ug/L	5.00	5.53	111	47.0-150	
Chloroform	ug/L	5.00	5.96	119	73.0-120	
Chloromethane	ug/L	5.00	3.49	69.8	41.0-142	
Dibromomethane	ug/L	5.00	5.37	107	80.0-120	
1,2-Dichlorobenzene	ug/L	5.00	4.70	94.0	79.0-121	
trans-1,4-Dichloro-2-butene	ug/L	5.00	3.15	63.0	33.0-144	
Dichlorodifluoromethane	ug/L	5.00	5.45	109	51.0-149	
1,1-Dichloroethane	ug/L	5.00	5.98	120	70.0-126	
1,2-Dichloroethane	ug/L	5.00	5.55	111	70.0-128	
1,1-Dichloroethene	ug/L	5.00	5.37	107	71.0-124	
cis-1,2-Dichloroethene	ug/L	5.00	5.62	112	73.0-120	
trans-1,2-Dichloroethene	ug/L	5.00	5.59	112	73.0-120	
1,2-Dichloropropane	ug/L	5.00	5.89	118	77.0-125	
cis-1,3-Dichloropropene	ug/L	5.00	5.10	102	80.0-123	
trans-1,3-Dichloropropene	ug/L	5.00	4.26	85.2	78.0-124	
Ethylbenzene	ug/L	5.00	5.42	108	79.0-123	
2-Hexanone	ug/L	25.0	23.5	94.0	67.0-149	
Iodomethane	ug/L	25.0	9.43	37.7	33.0-147	
2-Butanone (MEK)	ug/L	25.0	27.1	108	44.0-160	
Methylene Chloride	ug/L	5.00	5.87	117	67.0-120	
4-Methyl-2-pentanone (MIBK)	ug/L	25.0	25.0	100	68.0-142	
Styrene	ug/L	5.00	4.59	91.8	73.0-130	
1,1,1,2-Tetrachloroethane	ug/L	5.00	4.77	95.4	75.0-125	
1,1,2,2-Tetrachloroethane	ug/L	5.00	3.62	72.4	65.0-130	
Tetrachloroethene	ug/L	5.00	5.31	106	72.0-132	
Toluene	ug/L	5.00	5.10	102	79.0-120	
1,1,1-Trichloroethane	ug/L	5.00	5.89	118	73.0-124	
1,1,2-Trichloroethane	ug/L	5.00	4.95	99.0	80.0-120	
Trichloroethene	ug/L	5.00	6.78	136	78.0-124	L0
Trichlorofluoromethane	ug/L	5.00	5.91	118	59.0-147	
1,2,3-Trichloropropane	ug/L	5.00	4.67	93.4	73.0-130	
Vinyl acetate	ug/L	25.0	3.95	15.8	11.0-160	
Vinyl chloride	ug/L	5.00	5.59	112	67.0-131	
o-Xylene	ug/L	5.00	5.14	103	80.0-122	
m&p-Xylene	ug/L	10.0	10.8	108	80.0-122	
Xylene (Total)	ug/L	15.0	15.9	106	79.0-123	
Toluene-d8 (S)	%			97.9	80.0-120	
1,2-Dichloroethane-d4 (S)	%			105	70.0-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

LABORATORY CONTROL SAMPLE: R3810945-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			103	77.0-126	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 744242
QC Batch Method: EPA 3510C
Analysis Method: EPA 8082
Analysis Description: EPA 8082A Water
Laboratory: Pace Analytical Gulf Coast
Associated Lab Samples: 20247389006, 20247389008, 20247389010

METHOD BLANK: 2364341 Matrix: Water
Associated Lab Samples: 20247389006, 20247389008, 20247389010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1221 (Aroclor 1221)	ug/L	ND	1.00	0.400	06/29/22 18:07	
PCB-1232 (Aroclor 1232)	ug/L	ND	0.500	0.200	06/29/22 18:07	
PCB-1242 (Aroclor 1242)	ug/L	ND	0.500	0.200	06/29/22 18:07	
PCB-1248 (Aroclor 1248)	ug/L	ND	0.500	0.200	06/29/22 18:07	
PCB-1254 (Aroclor 1254)	ug/L	ND	0.500	0.200	06/29/22 18:07	
PCB-1016 (Aroclor 1016)	ug/L	ND	0.500	0.200	06/29/22 18:07	
PCB-1260 (Aroclor 1260)	ug/L	ND	0.500	0.200	06/29/22 18:07	
Decachlorobiphenyl (S)	%	108	30-139		06/29/22 18:07	
Tetrachloro-m-xylene (S)	%	102	48-137		06/29/22 18:07	

LABORATORY CONTROL SAMPLE & LCSD: 2364342 2364344

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	4	5.05	5.04	126	126	46-129	0	30	
PCB-1260 (Aroclor 1260)	ug/L	4	5.73	5.77	143	144	45-134	1	30	L3
Decachlorobiphenyl (S)	%				109	96	30-139			
Tetrachloro-m-xylene (S)	%				102	103	48-137			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 259115
QC Batch Method: SM 4500-S-2 D
Analysis Method: SM 4500-S-2 D
Analysis Description: 4500S2D Sulfide, Total
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20247389001, 20247389002, 20247389009, 20247389011, 20247389013, 20247389014, 20247389015, 20247389017, 20247389021, 20247389022, 20247389023, 20247389024, 20247389025, 20247389026, 20247389027

METHOD BLANK: 1235900 Matrix: Water
Associated Lab Samples: 20247389001, 20247389002, 20247389009, 20247389011, 20247389013, 20247389014, 20247389015, 20247389017, 20247389021, 20247389022, 20247389023, 20247389024, 20247389025, 20247389026, 20247389027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.020	0.0040	06/26/22 09:18	

LABORATORY CONTROL SAMPLE: 1235901

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.2	0.18	91	90-110	

MATRIX SPIKE SAMPLE: 1235903

Parameter	Units	20247389009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.017J	0.2	0.19	87	75-125	

SAMPLE DUPLICATE: 1235902

Parameter	Units	20247389009 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.017J	0.017J		20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 259116
QC Batch Method: SM 4500-S-2 D
Analysis Method: SM 4500-S-2 D
Analysis Description: 4500S2D Sulfide, Total
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20247389003, 20247389004, 20247389005, 20247389006, 20247389010, 20247389012, 20247389018, 20247389019, 20247389020, 20247389028, 20247389029, 20247389030, 20247389031, 20247389032

METHOD BLANK: 1235904 Matrix: Water
Associated Lab Samples: 20247389003, 20247389004, 20247389005, 20247389006, 20247389010, 20247389012, 20247389018, 20247389019, 20247389020, 20247389028, 20247389029, 20247389030, 20247389031, 20247389032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.020	0.0040	06/26/22 11:12	

LABORATORY CONTROL SAMPLE: 1235905

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.2	0.18	92	90-110	

MATRIX SPIKE SAMPLE: 1235907

Parameter	Units	20247389003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	0.2	0.037	18	75-125	M1

SAMPLE DUPLICATE: 1235906

Parameter	Units	20247389003 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 259429
QC Batch Method: SM 4500-S-2 D
Analysis Method: SM 4500-S-2 D
Analysis Description: 4500S2D Sulfide, Total
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20247389007, 20247389008, 20247389016

METHOD BLANK: 1237268 Matrix: Water
Associated Lab Samples: 20247389007, 20247389008, 20247389016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.020	0.0040	06/29/22 14:54	

LABORATORY CONTROL SAMPLE: 1237269

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.2	0.18	91	90-110	

MATRIX SPIKE SAMPLE: 1237271

Parameter	Units	20247984001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.0051J	0.2	0.12	58	75-125	M1

SAMPLE DUPLICATE: 1237270

Parameter	Units	20247984001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.0051J	0.0056J		20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 743955
QC Batch Method: METHOD
Analysis Method: EPA 335.4
Analysis Description: EPA 335.4 Cyanide Water
Laboratory: Pace Analytical Gulf Coast
Associated Lab Samples: 20247389024, 20247389025, 20247389026, 20247389027

METHOD BLANK: 2363113 Matrix: Water
Associated Lab Samples: 20247389024, 20247389025, 20247389026, 20247389027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Cyanide	mg/L	0.0013J	0.0040	0.0012	06/27/22 09:56	

LABORATORY CONTROL SAMPLE & LCSD: 2363115 2363116

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Cyanide	mg/L	0.1	0.095	0.095	95	95	80-120			

LABORATORY CONTROL SAMPLE: 2363114

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	0.02	0.020	100	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 743958
QC Batch Method: METHOD
Analysis Method: EPA 335.4
Analysis Description: EPA 335.4 Cyanide Water
Laboratory: Pace Analytical Gulf Coast
Associated Lab Samples: 20247389009, 20247389011, 20247389013, 20247389014, 20247389015, 20247389017, 20247389021, 20247389022, 20247389023

METHOD BLANK: 2363120 Matrix: Water
Associated Lab Samples: 20247389009, 20247389011, 20247389013, 20247389014, 20247389015, 20247389017, 20247389021, 20247389022, 20247389023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0040	0.0012	06/28/22 13:16	

LABORATORY CONTROL SAMPLE & LCSD: 2363122 2363123

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Cyanide	mg/L	0.1	0.090	0.088	90	88	80-120			

LABORATORY CONTROL SAMPLE: 2363121

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	0.02	0.020	99	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 744280
QC Batch Method: METHOD
Analysis Method: EPA 335.4
Analysis Description: EPA 335.4 Cyanide Water
Laboratory: Pace Analytical Gulf Coast
Associated Lab Samples: 20247389001, 20247389002, 20247389003, 20247389004, 20247389005, 20247389006, 20247389007, 20247389008, 20247389010, 20247389012, 20247389016, 20247389018, 20247389019, 20247389020, 20247389028, 20247389029, 20247389030, 20247389031

METHOD BLANK: 2364635 Matrix: Water
Associated Lab Samples: 20247389001, 20247389002, 20247389003, 20247389004, 20247389005, 20247389006, 20247389007, 20247389008, 20247389010, 20247389012, 20247389016, 20247389018, 20247389019, 20247389020, 20247389028, 20247389029, 20247389030, 20247389031

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0040	0.0012	06/29/22 16:45	

LABORATORY CONTROL SAMPLE & LCSD: 2364637 2364638

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Cyanide	mg/L	0.1	0.095	0.091	95	91	80-120			

LABORATORY CONTROL SAMPLE: 2364636

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	0.02	0.019	97	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 744416
QC Batch Method: METHOD
Analysis Method: EPA 335.4
Analysis Description: EPA 335.4 Cyanide Water
Laboratory: Pace Analytical Gulf Coast
Associated Lab Samples: 20247389032

METHOD BLANK: 2365342 Matrix: Water
Associated Lab Samples: 20247389032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.0040	0.0012	06/30/22 14:32	

LABORATORY CONTROL SAMPLE & LCSD: 2365344 2365345

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Cyanide	mg/L	0.1	0.084	0.082	84	82	80-120			

LABORATORY CONTROL SAMPLE: 2365343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	0.02	0.017	86	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 744104
QC Batch Method: EPA 420.1
Analysis Method: EPA 420.4
Analysis Description: EPA 420.4 Phenolics Water
Laboratory: Pace Analytical Gulf Coast
Associated Lab Samples: 20247389009, 20247389011, 20247389013, 20247389014, 20247389015, 20247389017, 20247389021, 20247389022, 20247389023, 20247389024, 20247389025, 20247389026, 20247389027

METHOD BLANK: 2363797 Matrix: Water
Associated Lab Samples: 20247389009, 20247389011, 20247389013, 20247389014, 20247389015, 20247389017, 20247389021, 20247389022, 20247389023, 20247389024, 20247389025, 20247389026, 20247389027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phenolics, Total Recoverable	ug/L	ND	60.0	25.0	06/30/22 13:35	

LABORATORY CONTROL SAMPLE & LCSD: 2363798 2363799

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	100	105	100	105	100	80-120	5	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 744375
QC Batch Method: EPA 420.1
Analysis Method: EPA 420.4
Analysis Description: EPA 420.4 Phenolics Water
Laboratory: Pace Analytical Gulf Coast
Associated Lab Samples: 20247389001, 20247389002, 20247389003, 20247389004, 20247389005, 20247389006, 20247389007, 20247389008, 20247389010, 20247389012, 20247389016, 20247389018, 20247389019, 20247389020, 20247389028, 20247389029

METHOD BLANK: 2365147 Matrix: Water
Associated Lab Samples: 20247389001, 20247389002, 20247389003, 20247389004, 20247389005, 20247389006, 20247389007, 20247389008, 20247389010, 20247389012, 20247389016, 20247389018, 20247389019, 20247389020, 20247389028, 20247389029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phenolics, Total Recoverable	ug/L	ND	60.0	25.0	07/05/22 15:49	

LABORATORY CONTROL SAMPLE & LCSD: 2365148 2365149

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	100	99.5	99.5	100	100	80-120	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating
Pace Project No.: 20247389

QC Batch: 744376
QC Batch Method: EPA 420.1
Analysis Method: EPA 420.4
Analysis Description: EPA 420.4 Phenolics Water
Laboratory: Pace Analytical Gulf Coast
Associated Lab Samples: 20247389030, 20247389031, 20247389032

METHOD BLANK: 2365150 Matrix: Water
Associated Lab Samples: 20247389030, 20247389031, 20247389032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phenolics, Total Recoverable	ug/L	ND	60.0	25.0	07/06/22 14:15	

LABORATORY CONTROL SAMPLE & LCSD: 2365151 2365152

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Phenolics, Total Recoverable	ug/L	100	101	96.9	101	97	80-120	4	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALIFIERS

Project: Alabama Wood Treating
Pace Project No.: 20247389

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

WORKORDER QUALIFIERS

WO: 20247389

[1] p-Phenylenediamine, a,a,-dimethyl phenethylamine, Kepone and 1,4-Naphthoquinone are reporting with critically low recovery in the laboratory control sample(s). These compounds are method defined poor performers. Results are estimated.

SAMPLE QUALIFIERS

Sample: 20247389006

[1] Semi Volatile Organic Compounds (GC/MS) by Method 8270C - Dilution due to sample volume.

Sample: 20247389008

[1] Semi Volatile Organic Compounds (GC/MS) by Method 8270C - Dilution due to matrix.

Sample: 20247389020

[1] Semi Volatile Organic Compounds (GC/MS) by Method 8270C - Dilution due to matrix.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
G6	An aliquot for analysis was taken from the original container received due to volume requirements of the laboratory's procedure. Rinsing of the original sample container for inclusion in the sample extraction was not performed.
J	Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

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ANALYTE QUALIFIERS

L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
P9	RPD between the primary and confirmatory analysis exceeded 40%.
R1	RPD value was outside control limits.
ST	Surrogate recovery was above laboratory control limits. Results may be biased high.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Alabama Wood Treating
Pace Project No.: 20247389

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20247389006	8-D	8011/504.1	1884672	EPA 8011	1884672
20247389008	8-I	8011/504.1	1884672	EPA 8011	1884672
20247389010	8-S	8011/504.1	1884672	EPA 8011	1884672
20247389001	6-I	3510C	1885030	EPA 8081	1885030
20247389002	6-S	3510C	1885030	EPA 8081	1885030
20247389003	7-D	3510C	1885030	EPA 8081	1885030
20247389004	7-IR	3510C	1885030	EPA 8081	1885030
20247389005	7-S	3510C	1885030	EPA 8081	1885030
20247389006	8-D	3510C	1885030	EPA 8081	1885030
20247389007	8-DK	3510C	1886468	EPA 8081	1886468
20247389008	8-I	3510C	1886468	EPA 8081	1886468
20247389009	9-I	3510C	1885742	EPA 8081	1885742
20247389010	8-S	3510C	1885030	EPA 8081	1885030
20247389011	15-D	3510C	1885742	EPA 8081	1885742
20247389012	15-I	3510C	1885030	EPA 8081	1885030
20247389013	15-S	3510C	1885742	EPA 8081	1885742
20247389014	16-D	3510C	1885742	EPA 8081	1885742
20247389015	16-I	3510C	1885742	EPA 8081	1885742
20247389016	17-D	3510C	1886468	EPA 8081	1886468
20247389017	19-SR	3510C	1885742	EPA 8081	1885742
20247389018	21-I	3510C	1885030	EPA 8081	1885030
20247389019	23-D	3510C	1885030	EPA 8081	1885030
20247389020	23-I	3510C	1885030	EPA 8081	1885030
20247389021	31-DR	3510C	1885742	EPA 8081	1885742
20247389022	31-IR	3510C	1885742	EPA 8081	1885742
20247389023	32-I	3510C	1885742	EPA 8081	1885742
20247389024	32-S	3510C	1885742	EPA 8081	1885742
20247389025	Equipment Blank 1	3510C	1885742	EPA 8081	1885742
20247389026	Equipment Blank 2	3510C	1885742	EPA 8081	1885742
20247389027	Equipment Blank 3	3510C	1885742	EPA 8081	1885742
20247389028	Equipment Blank 4	3510C	1886195	EPA 8081	1886195
20247389029	Equipment Blank 5	3510C	1886195	EPA 8081	1886195
20247389030	Equipment Blank 6	3510C	1886195	EPA 8081	1886195
20247389031	Field Dup 1	3510C	1886195	EPA 8081	1886195
20247389032	Field Dup 2	3510C	1885742	EPA 8081	1885742
20247389006	8-D	3510C	1886198	EPA 8141	1886198
20247389008	8-I	3510C	1886198	EPA 8141	1886198
20247389010	8-S	3510C	1886198	EPA 8141	1886198
20247389001	6-I	8151A	1884833	EPA 8151	1884833
20247389002	6-S	8151A	1884833	EPA 8151	1884833
20247389003	7-D	8151A	1884833	EPA 8151	1884833

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Alabama Wood Treating
Pace Project No.: 20247389

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20247389004	**7-IR**	8151A	1884833	EPA 8151	1884833
20247389005	**7-S**	8151A	1886587	EPA 8151	1886587
20247389006	**8-D**	8151A	1886587	EPA 8151	1886587
20247389007	**8-DK**	8151A	1886587	EPA 8151	1886587
20247389008	**8-I**	8151A	1886587	EPA 8151	1886587
20247389009	**9-I**	8151A	1884833	EPA 8151	1884833
20247389010	**8-S**	8151A	1886587	EPA 8151	1886587
20247389011	**15-D**	8151A	1884833	EPA 8151	1884833
20247389012	**15-I**	8151A	1886587	EPA 8151	1886587
20247389013	**15-S**	8151A	1884833	EPA 8151	1884833
20247389014	**16-D**	8151A	1884833	EPA 8151	1884833
20247389015	**16-I**	8151A	1884833	EPA 8151	1884833
20247389016	**17-D**	8151A	1886587	EPA 8151	1886587
20247389017	**19-SR**	8151A	1884833	EPA 8151	1884833
20247389018	**21-I**	8151A	1886587	EPA 8151	1886587
20247389019	**23-D**	8151A	1886587	EPA 8151	1886587
20247389020	**23-I**	8151A	1886587	EPA 8151	1886587
20247389021	**31-DR**	8151A	1884833	EPA 8151	1884833
20247389022	**31-IR**	8151A	1884833	EPA 8151	1884833
20247389023	**32-I**	8151A	1884833	EPA 8151	1884833
20247389024	**32-S**	8151A	1884833	EPA 8151	1884833
20247389025	**Equipment Blank 1**	8151A	1884833	EPA 8151	1884833
20247389026	**Equipment Blank 2**	8151A	1884833	EPA 8151	1884833
20247389027	**Equipment Blank 3**	8151A	1884833	EPA 8151	1884833
20247389028	**Equipment Blank 4**	8151A	1886587	EPA 8151	1886587
20247389029	**Equipment Blank 5**	8151A	1886587	EPA 8151	1886587
20247389030	**Equipment Blank 6**	8151A	1886587	EPA 8151	1886587
20247389031	**Field Dup 1**	8151A	1886587	EPA 8151	1886587
20247389032	**Field Dup 2**	8151A	1886587	EPA 8151	1886587
20247389006	**8-D**	EPA 3510C	744242	EPA 8082	744512
20247389008	**8-I**	EPA 3510C	744242	EPA 8082	744512
20247389010	**8-S**	EPA 3510C	744242	EPA 8082	744512
20247389001	**6-I**	EPA 3010	258967	EPA 6020A	259009
20247389002	**6-S**	EPA 3010	258967	EPA 6020A	259009
20247389003	**7-D**	EPA 3010	258967	EPA 6020A	259009
20247389004	**7-IR**	EPA 3010	258967	EPA 6020A	259009
20247389005	**7-S**	EPA 3010	258967	EPA 6020A	259009
20247389006	**8-D**	EPA 3010	258967	EPA 6020A	259009
20247389007	**8-DK**	EPA 3010	258967	EPA 6020A	259009
20247389008	**8-I**	EPA 3010	258967	EPA 6020A	259009
20247389009	**9-I**	EPA 3010	258967	EPA 6020A	259009
20247389010	**8-S**	EPA 3010	258967	EPA 6020A	259009

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Alabama Wood Treating
Pace Project No.: 20247389

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20247389011	15-D	EPA 3010	258967	EPA 6020A	259009
20247389012	15-I	EPA 3010	258967	EPA 6020A	259009
20247389013	15-S	EPA 3010	258967	EPA 6020A	259009
20247389014	16-D	EPA 3010	258967	EPA 6020A	259009
20247389015	16-I	EPA 3010	258967	EPA 6020A	259009
20247389016	17-D	EPA 3010	258967	EPA 6020A	259009
20247389017	19-SR	EPA 3010	258967	EPA 6020A	259009
20247389018	21-I	EPA 3010	258967	EPA 6020A	259009
20247389019	23-D	EPA 3010	258967	EPA 6020A	259009
20247389020	23-I	EPA 3010	258967	EPA 6020A	259009
20247389021	31-DR	EPA 3010	258969	EPA 6020A	259010
20247389022	31-IR	EPA 3010	258969	EPA 6020A	259010
20247389023	32-I	EPA 3010	258969	EPA 6020A	259010
20247389024	32-S	EPA 3010	258969	EPA 6020A	259010
20247389025	Equipment Blank 1	EPA 3010	258969	EPA 6020A	259010
20247389026	Equipment Blank 2	EPA 3010	258969	EPA 6020A	259010
20247389027	Equipment Blank 3	EPA 3010	258969	EPA 6020A	259010
20247389028	Equipment Blank 4	EPA 3010	258969	EPA 6020A	259010
20247389029	Equipment Blank 5	EPA 3010	258969	EPA 6020A	259010
20247389030	Equipment Blank 6	EPA 3010	258969	EPA 6020A	259010
20247389031	Field Dup 1	EPA 3010	258969	EPA 6020A	259010
20247389032	Field Dup 2	EPA 3010	258969	EPA 6020A	259010
20247389001	6-I	EPA 7470A	744046	EPA 7470	744220
20247389002	6-S	EPA 7470A	744046	EPA 7470	744220
20247389003	7-D	EPA 7470A	744046	EPA 7470	744220
20247389004	7-IR	EPA 7470A	744046	EPA 7470	744220
20247389005	7-S	EPA 7470A	744046	EPA 7470	744220
20247389006	8-D	EPA 7470A	744046	EPA 7470	744220
20247389007	8-DK	EPA 7470A	744046	EPA 7470	744220
20247389008	8-I	EPA 7470A	744046	EPA 7470	744220
20247389009	9-I	EPA 7470A	743907	EPA 7470	743869
20247389010	8-S	EPA 7470A	744046	EPA 7470	744220
20247389011	15-D	EPA 7470A	743907	EPA 7470	743869
20247389012	15-I	EPA 7470A	744046	EPA 7470	744220
20247389013	15-S	EPA 7470A	743907	EPA 7470	743869
20247389014	16-D	EPA 7470A	743907	EPA 7470	743869
20247389015	16-I	EPA 7470A	743907	EPA 7470	743869
20247389016	17-D	EPA 7470A	744046	EPA 7470	744220
20247389017	19-SR	EPA 7470A	743907	EPA 7470	743869
20247389018	21-I	EPA 7470A	744046	EPA 7470	744220
20247389019	23-D	EPA 7470A	744046	EPA 7470	744220
20247389020	23-I	EPA 7470A	744046	EPA 7470	744220
20247389021	31-DR	EPA 7470A	743907	EPA 7470	743869

REPORT OF LABORATORY ANALYSIS

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251-344-9106

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Alabama Wood Treating
Pace Project No.: 20247389

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20247389022	**31-IR**	EPA 7470A	743907	EPA 7470	743869
20247389023	**32-I**	EPA 7470A	743907	EPA 7470	743869
20247389024	**32-S**	EPA 7470A	743907	EPA 7470	743869
20247389025	**Equipment Blank 1**	EPA 7470A	743907	EPA 7470	743869
20247389026	**Equipment Blank 2**	EPA 7470A	743907	EPA 7470	743869
20247389027	**Equipment Blank 3**	EPA 7470A	743907	EPA 7470	743869
20247389028	**Equipment Blank 4**	EPA 7470A	744046	EPA 7470	744220
20247389029	**Equipment Blank 5**	EPA 7470A	744046	EPA 7470	744220
20247389030	**Equipment Blank 6**	EPA 7470A	744046	EPA 7470	744220
20247389031	**Field Dup 1**	EPA 7470A	744046	EPA 7470	744220
20247389032	**Field Dup 2**	EPA 7470A	744046	EPA 7470	744220
20247389001	**6-I**	3510C	1885750	EPA 8270C	1885750
20247389002	**6-S**	3510C	1885750	EPA 8270C	1885750
20247389003	**7-D**	3510C	1885750	EPA 8270C	1885750
20247389004	**7-IR**	3510C	1885750	EPA 8270C	1885750
20247389005	**7-S**	3510C	1885750	EPA 8270C	1885750
20247389006	**8-D**	3510C	1885750	EPA 8270C	1885750
20247389007	**8-DK**	3510C	1886474	EPA 8270C	1886474
20247389008	**8-I**	3510C	1886474	EPA 8270C	1886474
20247389009	**9-I**	3510C	1885027	EPA 8270C	1885027
20247389010	**8-S**	3510C	1885750	EPA 8270C	1885750
20247389011	**15-D**	3510C	1885027	EPA 8270C	1885027
20247389012	**15-I**	3510C	1885750	EPA 8270C	1885750
20247389013	**15-S**	3510C	1885027	EPA 8270C	1885027
20247389014	**16-D**	3510C	1885027	EPA 8270C	1885027
20247389015	**16-I**	3510C	1885027	EPA 8270C	1885027
20247389016	**17-D**	3510C	1886474	EPA 8270C	1886474
20247389017	**19-SR**	3510C	1885027	EPA 8270C	1885027
20247389018	**21-I**	3510C	1885750	EPA 8270C	1885750
20247389019	**23-D**	3510C	1885750	EPA 8270C	1885750
20247389020	**23-I**	3510C	1885750	EPA 8270C	1885750
20247389021	**31-DR**	3510C	1885027	EPA 8270C	1885027
20247389022	**31-IR**	3510C	1885027	EPA 8270C	1885027
20247389023	**32-I**	3510C	1885027	EPA 8270C	1885027
20247389024	**32-S**	3510C	1885027	EPA 8270C	1885027
20247389025	**Equipment Blank 1**	3510C	1885027	EPA 8270C	1885027
20247389026	**Equipment Blank 2**	3510C	1885027	EPA 8270C	1885027
20247389027	**Equipment Blank 3**	3510C	1885027	EPA 8270C	1885027
20247389028	**Equipment Blank 4**	3510C	1885750	EPA 8270C	1885750
20247389029	**Equipment Blank 5**	3510C	1885750	EPA 8270C	1885750
20247389030	**Equipment Blank 6**	3510C	1885750	EPA 8270C	1885750
20247389031	**Field Dup 1**	3510C	1885750	EPA 8270C	1885750

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Alabama Wood Treating
Pace Project No.: 20247389

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20247389032	Field Dup 2	3510C	1885750	EPA 8270C	1885750
20247389001	6-I	3510C	1885740	EPA 8270C Modified	1885740
20247389002	6-S	3510C	1885740	EPA 8270C Modified	1885740
20247389003	7-D	3510C	1885740	EPA 8270C Modified	1885740
20247389004	7-IR	3510C	1885740	EPA 8270C Modified	1885740
20247389005	7-S	3510C	1885740	EPA 8270C Modified	1885740
20247389006	8-D	3510C	1885740	EPA 8270C Modified	1885740
20247389007	8-DK	3510C	1886179	EPA 8270C Modified	1886179
20247389008	8-I	3510C	1886179	EPA 8270C Modified	1886179
20247389009	9-I	3510C	1884345	EPA 8270C Modified	1884345
20247389010	8-S	3510C	1885740	EPA 8270C Modified	1885740
20247389011	15-D	3510C	1884345	EPA 8270C Modified	1884345
20247389012	15-I	3510C	1885740	EPA 8270C Modified	1885740
20247389013	15-S	3510C	1884345	EPA 8270C Modified	1884345
20247389014	16-D	3510C	1884345	EPA 8270C Modified	1884345
20247389015	16-I	3510C	1884345	EPA 8270C Modified	1884345
20247389016	17-D	3510C	1886179	EPA 8270C Modified	1886179
20247389017	19-SR	3510C	1884345	EPA 8270C Modified	1884345
20247389018	21-I	3510C	1885740	EPA 8270C Modified	1885740
20247389019	23-D	3510C	1885740	EPA 8270C Modified	1885740
20247389020	23-I	3510C	1885740	EPA 8270C Modified	1885740
20247389021	31-DR	3510C	1884345	EPA 8270C Modified	1884345
20247389022	31-IR	3510C	1884345	EPA 8270C Modified	1884345
20247389023	32-I	3510C	1884345	EPA 8270C Modified	1884345
20247389024	32-S	3510C	1884345	EPA 8270C Modified	1884345
20247389025	Equipment Blank 1	3510C	1884345	EPA 8270C Modified	1884345
20247389026	Equipment Blank 2	3510C	1885740	EPA 8270C Modified	1885740
20247389027	Equipment Blank 3	3510C	1885740	EPA 8270C Modified	1885740
20247389028	Equipment Blank 4	3510C	1885740	EPA 8270C Modified	1885740
20247389029	Equipment Blank 5	3510C	1885740	EPA 8270C Modified	1885740
20247389030	Equipment Blank 6	3510C	1885740	EPA 8270C Modified	1885740
20247389031	Field Dup 1	3510C	1885740	EPA 8270C Modified	1885740
20247389032	Field Dup 2	3510C	1885740	EPA 8270C Modified	1885740
20247389001	6-I	8260B	1889133	EPA 8260B	1889133
20247389002	6-S	8260B	1889133	EPA 8260B	1889133
20247389003	7-D	8260B	1889133	EPA 8260B	1889133
20247389004	7-IR	8260B	1889133	EPA 8260B	1889133
20247389005	7-S	8260B	1889133	EPA 8260B	1889133
20247389006	8-D	8260B	1889133	EPA 8260B	1889133
20247389007	8-DK	8260B	1890091	EPA 8260B	1890091
20247389008	8-I	8260B	1890091	EPA 8260B	1890091

REPORT OF LABORATORY ANALYSIS

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251-344-9106

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Alabama Wood Treating
Pace Project No.: 20247389

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20247389009	**9-I**	8260B	1889130	EPA 8260B	1889130
20247389010	**8-S**	8260B	1889133	EPA 8260B	1889133
20247389011	**15-D**	8260B	1889130	EPA 8260B	1889130
20247389012	**15-I**	8260B	1889133	EPA 8260B	1889133
20247389013	**15-S**	8260B	1889130	EPA 8260B	1889130
20247389014	**16-D**	8260B	1889130	EPA 8260B	1889130
20247389015	**16-I**	8260B	1889130	EPA 8260B	1889130
20247389016	**17-D**	8260B	1890091	EPA 8260B	1890091
20247389017	**19-SR**	8260B	1889130	EPA 8260B	1889130
20247389018	**21-I**	8260B	1889133	EPA 8260B	1889133
20247389019	**23-D**	8260B	1889133	EPA 8260B	1889133
20247389020	**23-I**	8260B	1890091	EPA 8260B	1890091
20247389021	**31-DR**	8260B	1889130	EPA 8260B	1889130
20247389022	**31-IR**	8260B	1889130	EPA 8260B	1889130
20247389023	**32-I**	8260B	1889130	EPA 8260B	1889130
20247389024	**32-S**	8260B	1889130	EPA 8260B	1889130
20247389025	**Equipment Blank 1**	8260B	1889130	EPA 8260B	1889130
20247389026	**Equipment Blank 2**	8260B	1889130	EPA 8260B	1889130
20247389027	**Equipment Blank 3**	8260B	1889130	EPA 8260B	1889130
20247389028	**Equipment Blank 4**	8260B	1890091	EPA 8260B	1890091
20247389029	**Equipment Blank 5**	8260B	1890091	EPA 8260B	1890091
20247389030	**Equipment Blank 6**	8260B	1890091	EPA 8260B	1890091
20247389031	**Field Dup 1**	8260B	1890091	EPA 8260B	1890091
20247389032	**Field Dup 2**	8260B	1890091	EPA 8260B	1890091
20247389033	**Trip Blank 1**	8260B	1889130	EPA 8260B	1889130
20247389034	**Trip Blank 2**	8260B	1889130	EPA 8260B	1889130
20247389035	**Trip Blank 3**	8260B	1889130	EPA 8260B	1889130
20247389036	**Trip Blank 4**	8260B	1889130	EPA 8260B	1889130
20247389037	**Trip Blank 5**	8260B	1889130	EPA 8260B	1889130
20247389038	**Trip Blank 6**	8260B	1889130	EPA 8260B	1889130
20247389001	**6-I**	SM 4500-S-2 D	259115		
20247389002	**6-S**	SM 4500-S-2 D	259115		
20247389003	**7-D**	SM 4500-S-2 D	259116		
20247389004	**7-IR**	SM 4500-S-2 D	259116		
20247389005	**7-S**	SM 4500-S-2 D	259116		
20247389006	**8-D**	SM 4500-S-2 D	259116		
20247389007	**8-DK**	SM 4500-S-2 D	259429		
20247389008	**8-I**	SM 4500-S-2 D	259429		
20247389009	**9-I**	SM 4500-S-2 D	259115		
20247389010	**8-S**	SM 4500-S-2 D	259116		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Alabama Wood Treating
Pace Project No.: 20247389

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20247389011	15-D	SM 4500-S-2 D	259115		
20247389012	15-I	SM 4500-S-2 D	259116		
20247389013	15-S	SM 4500-S-2 D	259115		
20247389014	16-D	SM 4500-S-2 D	259115		
20247389015	16-I	SM 4500-S-2 D	259115		
20247389016	17-D	SM 4500-S-2 D	259429		
20247389017	19-SR	SM 4500-S-2 D	259115		
20247389018	21-I	SM 4500-S-2 D	259116		
20247389019	23-D	SM 4500-S-2 D	259116		
20247389020	23-I	SM 4500-S-2 D	259116		
20247389021	31-DR	SM 4500-S-2 D	259115		
20247389022	31-IR	SM 4500-S-2 D	259115		
20247389023	32-I	SM 4500-S-2 D	259115		
20247389024	32-S	SM 4500-S-2 D	259115		
20247389025	Equipment Blank 1	SM 4500-S-2 D	259115		
20247389026	Equipment Blank 2	SM 4500-S-2 D	259115		
20247389027	Equipment Blank 3	SM 4500-S-2 D	259115		
20247389028	Equipment Blank 4	SM 4500-S-2 D	259116		
20247389029	Equipment Blank 5	SM 4500-S-2 D	259116		
20247389030	Equipment Blank 6	SM 4500-S-2 D	259116		
20247389031	Field Dup 1	SM 4500-S-2 D	259116		
20247389032	Field Dup 2	SM 4500-S-2 D	259116		
20247389001	6-I	METHOD	744280	EPA 335.4	744369
20247389002	6-S	METHOD	744280	EPA 335.4	744369
20247389003	7-D	METHOD	744280	EPA 335.4	744369
20247389004	7-IR	METHOD	744280	EPA 335.4	744369
20247389005	7-S	METHOD	744280	EPA 335.4	744369
20247389006	8-D	METHOD	744280	EPA 335.4	744369
20247389007	8-DK	METHOD	744280	EPA 335.4	744369
20247389008	8-I	METHOD	744280	EPA 335.4	744369
20247389009	9-I	METHOD	743958	EPA 335.4	744244
20247389010	8-S	METHOD	744280	EPA 335.4	744369
20247389011	15-D	METHOD	743958	EPA 335.4	744244
20247389012	15-I	METHOD	744280	EPA 335.4	744369
20247389013	15-S	METHOD	743958	EPA 335.4	744244
20247389014	16-D	METHOD	743958	EPA 335.4	744244
20247389015	16-I	METHOD	743958	EPA 335.4	744244
20247389016	17-D	METHOD	744280	EPA 335.4	744369
20247389017	19-SR	METHOD	743958	EPA 335.4	744244
20247389018	21-I	METHOD	744280	EPA 335.4	744369
20247389019	23-D	METHOD	744280	EPA 335.4	744369

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Alabama Wood Treating
Pace Project No.: 20247389

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20247389020	**23-I**	METHOD	744280	EPA 335.4	744369
20247389021	**31-DR**	METHOD	743958	EPA 335.4	744244
20247389022	**31-IR**	METHOD	743958	EPA 335.4	744244
20247389023	**32-I**	METHOD	743958	EPA 335.4	744244
20247389024	**32-S**	METHOD	743955	EPA 335.4	744095
20247389025	**Equipment Blank 1**	METHOD	743955	EPA 335.4	744095
20247389026	**Equipment Blank 2**	METHOD	743955	EPA 335.4	744095
20247389027	**Equipment Blank 3**	METHOD	743955	EPA 335.4	744095
20247389028	**Equipment Blank 4**	METHOD	744280	EPA 335.4	744369
20247389029	**Equipment Blank 5**	METHOD	744280	EPA 335.4	744369
20247389030	**Equipment Blank 6**	METHOD	744280	EPA 335.4	744369
20247389031	**Field Dup 1**	METHOD	744280	EPA 335.4	744369
20247389032	**Field Dup 2**	METHOD	744416	EPA 335.4	744458
20247389001	**6-I**	EPA 420.1	744375	EPA 420.4	744693
20247389002	**6-S**	EPA 420.1	744375	EPA 420.4	744693
20247389003	**7-D**	EPA 420.1	744375	EPA 420.4	744693
20247389004	**7-IR**	EPA 420.1	744375	EPA 420.4	744693
20247389005	**7-S**	EPA 420.1	744375	EPA 420.4	744693
20247389006	**8-D**	EPA 420.1	744375	EPA 420.4	744693
20247389007	**8-DK**	EPA 420.1	744375	EPA 420.4	744693
20247389008	**8-I**	EPA 420.1	744375	EPA 420.4	744693
20247389009	**9-I**	EPA 420.1	744104	EPA 420.4	744275
20247389010	**8-S**	EPA 420.1	744375	EPA 420.4	744693
20247389011	**15-D**	EPA 420.1	744104	EPA 420.4	744275
20247389012	**15-I**	EPA 420.1	744375	EPA 420.4	744693
20247389013	**15-S**	EPA 420.1	744104	EPA 420.4	744275
20247389014	**16-D**	EPA 420.1	744104	EPA 420.4	744275
20247389015	**16-I**	EPA 420.1	744104	EPA 420.4	744275
20247389016	**17-D**	EPA 420.1	744375	EPA 420.4	744693
20247389017	**19-SR**	EPA 420.1	744104	EPA 420.4	744275
20247389018	**21-I**	EPA 420.1	744375	EPA 420.4	744693
20247389019	**23-D**	EPA 420.1	744375	EPA 420.4	744693
20247389020	**23-I**	EPA 420.1	744375	EPA 420.4	744693
20247389021	**31-DR**	EPA 420.1	744104	EPA 420.4	744275
20247389022	**31-IR**	EPA 420.1	744104	EPA 420.4	744275
20247389023	**32-I**	EPA 420.1	744104	EPA 420.4	744275
20247389024	**32-S**	EPA 420.1	744104	EPA 420.4	744275
20247389025	**Equipment Blank 1**	EPA 420.1	744104	EPA 420.4	744275
20247389026	**Equipment Blank 2**	EPA 420.1	744104	EPA 420.4	744275
20247389027	**Equipment Blank 3**	EPA 420.1	744104	EPA 420.4	744275
20247389028	**Equipment Blank 4**	EPA 420.1	744375	EPA 420.4	744693

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Alabama Wood Treating
Pace Project No.: 20247389

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20247389029	**Equipment Blank 5**	EPA 420.1	744375	EPA 420.4	744693
20247389030	**Equipment Blank 6**	EPA 420.1	744376	EPA 420.4	744777
20247389031	**Field Dup 1**	EPA 420.1	744376	EPA 420.4	744777
20247389032	**Field Dup 2**	EPA 420.1	744376	EPA 420.4	744777

CHAIN-OF-CUSTODY / Analytical Req

WO# : 20247389

20247389

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at http:

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	
Company: Alabama State Port Authority	Report To: Gretchen Barrera	Attention:	Regulatory Agency
Address: P.O. Box 1588	Copy To:	Company Name:	
Mobile, AL 36633		Address:	State / Location
Email: Gretchen.Barrera@alports.com	Purchase Order #:	Pace Quote:	AL
Phone: (251)441-7086 Fax	Project Name: Alabama Wood Treating	Pace Project Manager: marykathryn.brenner@pacelabs.com,	
Requested Due Date:	Project #:	Pace Profile #: 15447	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Phenolics by 420.1 PGC	Metals (8081 - Aldrin)	Mercury PGC	8260 VOCs Full List PN	8270 SVOC PN	8151 Herbicides PN	Sulfide	Cyanide PGC	Pesticides 8081 and 8141 P	PCBs by 8082	EPA 8011 PN	Dioxin by 8290 P-MN	Residual Chlorine (Y/N)	Requested Analysis Filtered (Y/N)
1	6-I	WT		6-21-22	1055													X	X	X	X	X	X	X	X				X	Sb, As, Be, Cu, V, Ba, Cd, Cr, Co, Pb, Ni, Se, Ag, Tl, Zn, Sn
2	6-S	WT		6-21-22	0945													X	X	X	X	X	X	X	X				X	
3	7-D (BP1)	WT		6-21-22	0830													X	X	X	X	X	X	X	X				X	
4	7-IR	WT		6-21-22	0930													X	X	X	X	X	X	X	X				X	
5	7-S	WT		6-21-22	0810													X	X	X	X	X	X	X	X				X	
6	8-D (BP3)	WT		6-21-22	1510													X	X	X	X	X	X	X	X	X	X	X	X	
7	8-DK (BP1)	WT		6-22-22	0840													X	X	X	X	X	X	X	X				X	
8	8-I	WT		6-21-22	0845													X	X	X	X	X	X	X	X	X	X	X	X	
9	9-I	WT		6-20-22	1550													X	X	X	X	X	X	X	X				X	
10	8-S	WT		6-21-22	1500													X	X	X	X	X	X	X	X	X	X	X	X	
11	15-D (BP3)	WT		6-20-22	1620													X	X	X	X	X	X	X	X				X	
12	15-I	WT		6-21-22	1630													X	X	X	X	X	X	X	X				X	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Jared Tatum	6-22-22	1410	Kyle G. Williams	6/22/22	1410	5 4.2°C 6/22/22 AW

Jared Tatum Jared Tatum 6-22-22

Pace

CHAIN-OF-CUSTODY / Analytical Request F

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields m

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pa

WO# : 20247389

PM: MKB Due Date: 07/06/22

CLIENT: MO-AlaStPort

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Alabama State Port Authority	Report To:	Gretchen Barrera	Attention	
Address:	P.O. Box 1588	Copy To:		Company Name:	
Mobile, AL 36633				Address:	
Email:	Gretchen.Barrera@alports.com	Purchase Order #:		Pace Quote	
Phone:	(251)441-7086 Fax	Project Name:	Alabama Wood Treating	Pace Project Manager:	marykathryn.brenner@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	15447

Regulatory Agency	
State / Location	AL

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Phenolics by 420.1 PGC	Metals (8081- Al,Fe)	Mercury PGC	8260 VOCs Full List PN	8270 SVOC PN	8151 Herbicides PN	Sulfide	Cyanide PGC	Pesticides 8081 and 8141 P	PCBs by 8082	EPA 8011 PN	Dioxin by 8290 P-MN	Residual Chlorine (Y/N)
13	15-S	WT		6-20-22	1705														x	x	x	x	x	x	x	x			x	
14	16-D (BP7)	WT		6-20-22	1330														x	x	x	x	x	x	x	x			x	
15	16-I	WT		6-20-22	1470														x	x	x	x	x	x	x	x			x	
16	17-D (BP1)	WT		6-21-22	1115														x	x	x	x	x	x	x	x			x	
17	19-SR	WT		6-20-22	0940														x	x	x	x	x	x	x	x			x	
18	21-I	WT		6-21-22	1330														x	x	x	x	x	x	x	x			x	
19	23-D (BP2)	WT		6-21-22	1115														x	x	x	x	x	x	x	x			x	
20	23-I	WT		6-21-22	1305														x	x	x	x	x	x	x	x			x	
21	31-DR (BP1)	WT		6-20-22	1120														x	x	x	x	x	x	x	x			x	
22	31-IR	WT		6-20-22	1000														x	x	x	x	x	x	x	x			x	
23	32-I	WT		6-20-22	1145														x	x	x	x	x	x	x	x			x	
24	32-S	WT		6-20-22	1350														x	x	x	x	x	x	x	x			x	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
MH-60	Jared Tatum	6-22-22	1410	Kyle A. Williams	6/22/22	1410	

Jared Tatum Jared Tatum 6-22-22

Pace

CHAIN-OF-CUSTODY / Analytical Reque

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fielc

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://inf

WO# : 20247389

PM: MKB Due Date: 07/06/22

CLIENT: MO-AlaStPort

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Alabama State Port Authority	Report To:	Gretchen Barrera	Attention:	
Address:	P.O. Box 1588	Copy To:		Company Name:	
Mobile, AL 36633				Address:	
Email:	Gretchen.Barrera@alports.com	Purchase Order #:		Pace Quote:	
Phone:	(251)441-7086 Fax	Project Name:	Alabama Wood Treating	Pace Project Manager:	marykathryn.brenner@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	15447

Regulatory Agency
State / Location
AL

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Phenolics by 420.1 PGC	Metals (8081-Al,Cr,Cu)	Mercury PGC	8260 VOCs Full List PN	8270 SVOC PN	8151 Herbicides PN	Sulfide	Cyanide PGC	Pesticides 8081 and 8141 P	PCBs by 8082	EPA 8011 PN	Dioxin by 8290 P.MN	Residual Chlorine (Y/N)
25	Equipment Blank 1 (BP1)	WT		6-20-22	0725														x	x	x	x	x	x	x	x				x	
26	Equipment Blank 2 (BP2)	WT		6-20-22	0745														x	x	x	x	x	x	x	x				x	
27	Equipment Blank 3 (BP3)	WT		6-20-22	0805														x	x	x	x	x	x	x	x				x	
28	Equipment Blank 4 (BP1)	WT		6-21-22	1705														x	x	x	x	x	x	x	x				x	
29	Equipment Blank 5 (BP3)	WT		6-21-22	1725														x	x	x	x	x	x	x	x				x	
30	Equipment Blank 6 (BP2)	WT		6-21-22	1745														x	x	x	x	x	x	x	x				x	
31	Field Dup 1 (FS)	WT		6-21-22	0820														x	x	x	x	x	x	x	x				x	
32	Field Dup 2 (FD-IR)	WT		6-21-22	0945														x	x	x	x	x	x	x	x				x	
33	Trip Blank 1	WT		6-20-22	0600																	x								
34	Trip Blank 2	WT		6-20-22	0605																	x								
35	Trip Blank 3	WT		6-21-22	0600																	x								
36	Trip Blank 4	WT		6-21-22	0605																	x								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Jared Totum	6-22-22	1410	Kyle A. Williams	6/22/22	1410	

Jared Totum Jared Totum 6-22-22

Pace

CHAIN-OF-CUSTODY / Analytical Request D

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields mu

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pac

WO# : 20247389

PM: MKB Due Date: 07/06/22

CLIENT: MO-AlaStPort

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Alabama State Port Authority	Report To:	Gretchen Barrera	Attention:	
Address:	P.O. Box 1588	Copy To:		Company Name:	
Mobile, AL 36633				Address:	
Email:	Gretchen.Barrera@alports.com	Purchase Order #:		Pace Quote:	
Phone:	(251)441-7086 Fax	Project Name:	Alabama Wood Treating	Pace Project Manager:	marykathryn.brenner@pacelabs.com
Requested Due Date:		Project #:		Pace Profile #:	15447

Regulatory Agency
State / Location
AL

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: Y/N	Phenolics by 420.1 PGC	Metals (8081 Aldrin)	Mercury PGC	8260 VOCs Full List PN	8270 SVOC PN	8151 Herbicides PN	Sulfide	Cyanide PGC	Pesticides 8081 and 8141 PC	PCBs by 8082	EPA 8011 PN	Dioxin by 8290 P-MN	Residual Chlorine (Y/N)
																		Requested Analysis Filtered (Y/N)											
37	Trip Blank 5	WT		6-7-22	0600																X							
38	Trip Blank 6	WT		6-7-22	0605																X							
39																												
40																												
41																												
42																												
43																												
44																												
45																												
46																												
47																												
48																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Jared Tatum	6-7-22	1410	Kyle A. Williams	6/7/22	1410	

Jared Tatum Jared Tatum 6-7-22

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6/20/22 TIME: 1225 WELL NUMBER: 38-S

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 5.17 (ft.) Depth to Bottom: 20.0 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump) Bailer, etc.): Pump / Bailer

Pump

Type: Peristaltic

Rate: ~~0.25~~ 0.1 gpm (CP)

Bailer

Volume of Bailer: _____ (gal)

Number of Bailers Required: _____ Removed: _____

Other _____

Purge Time: Start: 1230 End: ~~1305~~ 1255 (CP) 6/20 Volume Purged: 2 (gal)

FIELD ANALYSES

	Start	*Intermediate*	*Intermediate*	*End*
Volume purged (gal)	0.5	0.5	0.5	0.5
Time (24-hour)	1235	1240	1245	1250
pH (S.U.)	6.78	6.78	6.77	6.76
Cond. (umhos/cm)	0.245	0.296	0.303	0.305
Temperature (°C)	27.8	27.7	27.8	(2) ~~28.3~~ 27.9
Turbidity (NTU)	8.66	3.77	3.50	6/20 2.38
Appearance	Clear	Clear	Clear	Clear

SAMPLING INFORMATION

Sample Device: Peristaltic Sample Date: 6/20/22

Device Composition: _____ Sample Time: 1252

Sample Collected by: Liam Roberts of: _____

Sample Number(s): _____ Analytical Lab: Pace

Sample Fractions: _____

SIGNATURES

Sampler: _____ Reviewer: _____

Date: ~~6/20/22~~ Date: _____

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6/20/22 TIME: 1110 WELL NUMBER: 37-I

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 7.9 (ft.) Depth to Bottom: 48.0 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump

Pump

Type: Peristaltic

Rate: 0.1 gpm

Bailer

Volume of Bailer: _____ (gal)

Number of Bailers Required: _____ Removed: _____

Other _____

Purge Time: Start: 1110 End: ~~1205~~ 1140 (EP) Volume Purged: 3 (gal)

FIELD ANALYSES

	Start	*Intermediate*	*Intermediate*	*End*
Volume purged (gal)	0.5	0.5	0.5	0.5
Time (24-hour)	1015	1020	1025	1030
pH (S.U.)	7.20	6.86	6.69	6.60
Cond. (umhos/cm)	0.1355	0.1326	0.1317	0.1306
Temperature (°C)	26.0	26.1	25.8	25.4
Turbidity (NTU)	2.63	4.06	2.33	1.52
Appearance	Clear	Clear	Clear	Clear

SAMPLING INFORMATION

Sample Device: Peristaltic Pump

Device Composition: _____

Sample Collected by: Liam Roberts

Sample Number(s): _____

Sample Fractions: _____

Sample Date: 6/20/22

Sample Time: 1145

of: _____

Analytical Lab: Pace

SIGNATURES

Sampler: _____ Date: 6/20/22

Reviewer: _____ Date: _____

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6/20/22 TIME: 1110 WELL NUMBER: 32-I

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 79 (ft.) Depth to Bottom: 480 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump

Pump

Type: Peristaltic

Rate: _____

Bailer

Volume of Bailer: _____ (gal)

Number of Bailers Required: _____ Removed: _____

Other _____

Purge Time: Start: 1110 End: 1140 Volume Purged: 3 (gal)

FIELD ANALYSES

	Start	*Intermediate*	*Intermediate*	*End*
Volume purged (gal)	0.5	0.5		
Time (24-hour)	1135	1140		
pH (S.U.)	6.57	6.55		
Cond. (umhos/cm)	0.1305	0.1302		
Temperature (°C)	25.2	25.2		
Turbidity (NTU)	0.99	1.85		
Appearance	Clear slight yellow tint	Clear "		

SAMPLING INFORMATION

Sample Device: P.P. Sample Date: 6/20/22

Device Composition: _____ Sample Time: 1145

Sample Collected by: Liam Roberts of: _____

Sample Number(s): _____ Analytical Lab: Pace

Sample Fractions: _____

SIGNATURES

Sampler: _____ Reviewer: _____

Date: 6/20/22 Date: _____

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6/20/22 TIME: 1450 WELL NUMBER: 9I

WELL DATA

Casing Diameter: 2 (in.)

Depth to Water: 11.2 (ft.)

Depth to Bottom: 67.15 (ft.)

(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump

Pump

Type: Peristaltic

Rate: 0.1 gpm

Bailer

Volume of Bailer: _____ (gal)

Number of Bailers Required: _____ Removed: _____

Other _____

Purge Time: Start: 1450 End: ~~1505~~ 1540 (CP 6/20) Volume Purged: 5.5 (gal)

FIELD ANALYSES

	Start	*Intermediate*	*Intermediate*	*End*
Volume purged (gal)	~~1455~~ 0.5 (CP 6/20)	0.5	0.5	0.5
Time (24-hour)	1455	1500	1505	1510
pH (S.U.)	7.27	7.10	7.08	7.09
Cond. (umhos/cm)	0.543	0.541	0.539	0.538
Temperature (°C)	27.6	~~25.0~~ 26.9 (CP 6/20)	26.5	26.3
Turbidity (NTU)	~~2.16~~ 2.16 (CP 6/20)	1.09	1.20	0.93
Appearance	Clear	Clear	Clear	Clear

SAMPLING INFORMATION

Sample Device: Peristaltic

Device Composition: _____

Sample Collected by: Liam Roberts

Sample Number(s): _____

Sample Fractions: _____

Sample Date: 6/20/22

Sample Time: 1550

of: _____

Analytical Lab: Pace

SIGNATURES

Sampler: _____ Reviewer: _____

Date: 6/20/22 Date: _____

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6/20/22 TIME: 1450 WELL NUMBER: 9-I

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 11.2 (ft.) Depth to Bottom: 67.15 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump

Pump

Type: Peristaltic

Rate: 0.1 gpm

Bailer

Volume of Bailer: _____ (gal)

Number of Bailers Required: _____ Removed: _____

Other _____

Purge Time: Start: 1450 End: ~~1605~~ 1540 (ET) Volume Purged: 5.5 (gal)

FIELD ANALYSES

	Start	*Intermediate*	*Intermediate*	*End*	
Volume purged (gal)	0.5	0.5	0.5	0.5	0.5
Time (24-hour)	1515	1520	1525	1530	1535
pH (S.U.)	7.11	7.11	7.05	7.06	7.07
Cond. (umhos/cm)	0.539	0.541	0.597	0.660	0.661
Temperature (°C)	26.3	26.1	26.0	26.0	25.8
Turbidity (NTU)	1.39	~~[illegible]~~ 2.60	4.38	3.42	3.05
Appearance	Clear	Clear	Clear	Clear	Clear

SAMPLING INFORMATION

Sample Device: P.P. Sample Date: 6/20/22

Device Composition: _____ Sample Time: 1550

Sample Collected by: Liam Roberts of: _____

Sample Number(s): _____ Analytical Lab: Pace

Sample Fractions: _____

SIGNATURES

Sampler: _____ Reviewer: _____

Date: 6/20/22 Date: _____

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6/20/22 TIME: 1450 WELL NUMBER: 9.I

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 11.2 (ft.) Depth to Bottom: 67.15 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump

Pump

Type: Peristaltic

Rate: 0.1 gpm

Bailer

Volume of Bailer: _____ (gal)

Number of Bailers Required: _____ Removed: _____

Other _____

Purge Time: Start: 1450 End: ~~1605~~ 1542 Volume Purged: 5.5 (gal)

FIELD ANALYSES

	Start	*Intermediate*	*Intermediate*	*End*
Volume purged (gal)	0.5			
Time (24-hour)	1540			
pH (S.U.)	7.03			
Cond. (umhos/cm)	0.667			
Temperature (°C)	25.8			
Turbidity (NTU)	2.98			
Appearance	Normal			

SAMPLING INFORMATION

Sample Device: P.P. Sample Date: 6/20/22

Device Composition: _____ Sample Time: 1550

Sample Collected by: Liam Roberts of: _____

Sample Number(s): _____ Analytical Lab: Pace

Sample Fractions: _____

SIGNATURES

Sampler: _____ Reviewer: _____

Date: 6/20/22 Date: _____

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6/20/22 TIME: 1640 WELL NUMBER: 15-S

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 10.9 (ft.) Depth to Bottom: 15.0 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump) Bailer, etc.): Pump

Pump *Bailer*

Type: Peristaltic Volume of Bailer: _____ (gal)

Rate: 0.1 gpm Number of Bailers Required: _____ Removed: _____

Other _____

Purge Time: Start: 1640 End: 1725 Volume Purged: 2 (gal)

FIELD ANALYSES

	Start	*Intermediate*	*Intermediate*	*End*
Volume purged (gal)	0.5	0.5	0.5	0.5
Time (24-hour)	1650	1655	1700	1705
pH (S.U.)	6.50	6.43	6.39	6.33
Cond. (umhos/cm)	0.998	1.01	1.01	1.01
Temperature (°C)	22.8	27.5	27.5	27.5
Turbidity (NTU)	46.3	~~19.1~~ (CP 6/20)	13.9	13.0
Appearance	Clear	Clear	Clear	Clear

SAMPLING INFORMATION

Sample Device: Peristaltic Sample Date: 6/20/22

Device Composition: _____ Sample Time: 1705

Sample Collected by: Liam Roberts of: _____

Sample Number(s): _____ Analytical Lab: Pace

Sample Fractions: _____

SIGNATURES

Sampler: _____ Reviewer: _____

Date: 6/20/22 Date: _____

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6/22/22 TIME: 0755 WELL NUMBER: 8I

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 12.3 (ft.) Depth to Bottom: 10.0 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump) Bailer, etc.): Peristaltic Pump

Pump

Type: Peristaltic

Rate: 0.1 gpm

Bailer

Volume of Bailer: _____ (gal)

Number of Bailers Required: _____ Removed: _____

Other _____

Purge Time: Start: 0755 End: 0835 Volume Purged: 4 (gal)

FIELD ANALYSES

	Start	*Intermediate*	*Intermediate*	*End*	
Volume purged (gal)	0.5	0.5	0.5	0.5	0.5
Time (24-hour)	0800	0805	0810	0815	0820
pH (S.U.)	7.06	6.93	6.87	6.84	6.81
Cond. (umhos/cm)	0.504	0.504	0.515	0.534	0.55
Temperature (°C)	26.4	26.5	26.6	26.6	26.8
Turbidity (NTU)	2.71	2.06	2.74	2.39	1.95
Appearance	Normal	"	Sheen	"	"

SAMPLING INFORMATION

Sample Device: Peristaltic Sample Date: 6/22/22

Device Composition: _____ Sample Time: 0840

Sample Collected by: Liam Roberts of: _____

Sample Number(s): _____ Analytical Lab: Pace

Sample Fractions: _____

SIGNATURES

Sampler: _____ Reviewer: _____

Date: 6/22/22 Date: _____

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6/22/22 TIME: 0755 WELL NUMBER: 8-I

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 12.3 (ft.) Depth to Bottom: 20 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump

Pump ***Bailer***

Type: P.P Volume of Bailer: _____ (gal)

Rate: 0.1 gpm Number of Bailers Required: _____ Removed: _____

Other _____

Purge Time: Start: 0755 End: 0835 Volume Purged: 4 (gal)

FIELD ANALYSES

	Start		*Intermediate*	*Intermediate*	*End*
Volume purged (gal)	0.5	0.5	0.5		
Time (24-hour)	0825	0830	0835		
pH (S.U.)	6.80	6.81	6.81		
Cond. (umhos/cm)	0.557	0.558	0.562		
Temperature (°C)	27.0	27.0	27.0		
Turbidity (NTU)	2.06	2.19	2.49		
Appearance	"	"	"		

SAMPLING INFORMATION

Sample Device: Peristaltic Pump Sample Date: 6/22/22

Device Composition: _____ Sample Time: 0840

Sample Collected by: Liam Roberts of: _____

Sample Number(s): _____ Analytical Lab: Pace

Sample Fractions: _____

SIGNATURES

Sampler: _____ Reviewer: _____

Date: 6/22/22 Date: _____

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6/21/22 TIME: _____ WELL NUMBER: 15I

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 11.54 (ft.) Depth to Bottom: 485 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump) Bailer, etc.): Pump

Pump ***Bailer***

Type: Peristaltic Volume of Bailer: _____ (gal)

Rate: 0.1 gpm Number of Bailers Required: _____ Removed: _____

Other _____

Purge Time: Start: 1555 End: 1625 Volume Purged: 3 (gal)

FIELD ANALYSES

	Start	*Intermediate*	*Intermediate*	*End*	
Volume purged (gal)	0.5	0.5	0.5	0.5	0.5
Time (24-hour)	1600	1605	1610	1615	1620
pH (S.U.)	6.29	6.19	6.17	6.16	6.16
Cond. (umhos/cm)	11.85	12.28	12.46	12.51	12.52
Temperature (°C)	27.7	28.5	27.9	27.6	27.5
Turbidity (NTU)	14.9	12.5	7.94	6.25	4.42
Appearance	Normal	Cloudy	" "	" "	"

SAMPLING INFORMATION

Sample Device: Peristaltic Sample Date: 6/21/22

Device Composition: _____ Sample Time: 1630

Sample Collected by: Liam Roberts of: _____

Sample Number(s): _____ Analytical Lab: Pace

Sample Fractions: _____

SIGNATURES

Sampler: _____ Reviewer: _____

Date: 6/21/22 Date: _____

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6/21/22 TIME: 1555 WELL NUMBER: 15-I

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 11.54 (ft.) Depth to Bottom: 48.5 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump
Pump ***Bailer***

Type: P.P. Volume of Bailer: _____ (gal)

Rate: 0.1 gpm Number of Bailers Required: _____ Removed: _____

Other _____

Purge Time: Start: 1555 End: 1625 Volume Purged: 3 (gal)

FIELD ANALYSES

	Start	*Intermediate*	*Intermediate*	*End*
Volume purged (gal)	0.5			
Time (24-hour)	16:25			
pH (S.U.)	6.16			
Cond. (umhos/cm)	12.53			
Temperature (°C)	27.4			
Turbidity (NTU)	3.62			
Appearance	" "			

SAMPLING INFORMATION

Sample Device: P.P. Sample Date: 6/21/22

Device Composition: _____ Sample Time: 1630

Sample Collected by: Liam Roberts of: _____

Sample Number(s): _____ Analytical Lab: Pace

Sample Fractions: _____

SIGNATURES

Sampler: [signature] Reviewer: _____

Date: 6/22/22 Date: _____

Dup! -0820 (FD1) -0835

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6/21/22 TIME: 0735 WELL NUMBER: TS

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 11.55 (ft.) Depth to Bottom: 15.0 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump) Bailer, etc.): Pump

Pump

Type: Peristaltic

Rate: 0.1 gpm

Bailer

Volume of Bailer: _____ (gal)

Number of Bailers Required: _____ Removed: _____

Other _____

Purge Time: Start: 0735 End: 0800 Volume Purged: 3 (gal)

FIELD ANALYSES

	Start	*Intermediate*	*Intermediate*	*End*	
Volume purged (gal)	0.5	0.5	0.5	0.5	0.5
Time (24-hour)	0740	0745	0750	0755	0800
pH (S.U.)	6.41	6.54	6.57	6.57	6.58
Cond. (umhos/cm)	1.047	1.042	1.076	1.088	1.089
Temperature (°C)	24.5	24.7	24.8	24.7	24.7
Turbidity (NTU)	1.92	4.00	5.03	3.69	3.62
Appearance	Clear Slight Sheen	Clear " "	Clear " "	Clear " "	Clear

SAMPLING INFORMATION

Sample Device: Peristaltic

Device Composition: _____

Sample Collected by: Liam Roberts

Sample Number(s): _____

Sample Fractions: _____

Sample Date: 6/21/22

Sample Time: ~~0805~~ 0810

of: _____

Analytical Lab: Pace

SIGNATURES

Sampler: _____ Date: 6/21/22

Reviewer: _____ Date: _____

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6/21/22 TIME: 0735 WELL NUMBER: 7-S

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 11.55 (ft.) Depth to Bottom: 15 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump

Pump ***Bailer***

Type: Peristaltic Volume of Bailer: _____ (gal)

Number of Bailers

Rate: 0.1 gpm Required: _____ Removed: _____

Other _____

Purge Time: Start: 0735 End: 0800 Volume Purged: 3 (gal)

FIELD ANALYSES

	Start	*Intermediate*	*Intermediate*	*End*
Volume purged (gal)	0.5			
Time (24-hour)	0805			
pH (S.U.)	6.58			
Cond. (umhos/cm)	1.090			
Temperature (°C)	24.7			
Turbidity (NTU)				
Appearance	Clear			

SAMPLING INFORMATION

Sample Device: P.P. Sample Date: 6/21/22

Device Composition: _____ Sample Time: 0810

Sample Collected by: Liam Roberts of: _____

Sample Number(s): _____ Analytical Lab: Pace

Sample Fractions: _____

SIGNATURES

Sampler: _____ Reviewer: _____

Date: 6/21/22 Date: _____

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6/21/22 TIME: 1025 WELL NUMBER: 6-I

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 11.5 (ft.) Depth to Bottom: 62.5 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump

Pump

Type: Peristaltic

Rate: 0.1 gpm

Bailer

Volume of Bailer: _____ (gal)

Number of Bailers Required: _____ Removed: _____

Other _____

Purge Time: Start: 1020 End: 1050 Volume Purged: 3 (gal)

FIELD ANALYSES

	Start	*Intermediate*	*Intermediate*	*End*	
Volume purged (gal)	0.5	0.5	0.5	0.5	0.5
Time (24-hour)	1025	1030	1035	1040	1045
pH (S.U.)	6.87	6.84	6.85	6.84	6.87
Cond. (umhos/cm)	0.777	0.773	0.774	0.773	0.77
Temperature (°C)	27.1	27.3	27.5	27.5	27.4
Turbidity (NTU)	5.91	3.04	2.39	3.24	1.83
Appearance	Normal	Normal	Normal	Normal	Normal Sheen

SAMPLING INFORMATION

Sample Device: Peristaltic Pump Sample Date: 6/21/22

Device Composition: _____ Sample Time: 1055

Sample Collected by: Liam Cobb of: _____

Sample Number(s): _____ Analytical Lab: Pace

Sample Fractions: _____

SIGNATURES

Sampler: _____ Reviewer: _____

Date: 6/21/22 Date: _____

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6/21/22 TIME: 1020 WELL NUMBER: 6-I

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 11.5 (ft.) Depth to Bottom: 62.5 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump

Pump ***Bailer***

Type: Peristaltic Volume of Bailer: _____ (gal)

Rate: 0.1 gpm Number of Bailers Required: _____ Removed: _____

Other _____

Purge Time: Start: 1020 End: 1050 Volume Purged: 3 (gal)

FIELD ANALYSES

	Start	*Intermediate*	*Intermediate*	*End*
Volume purged (gal)	0.5			
Time (24-hour)	1050			
pH (S.U.)	6.85			
Cond. (umhos/cm)	0.773			
Temperature (°C)	27.4			
Turbidity (NTU)	1.54			
Appearance	Sheen			

SAMPLING INFORMATION

Sample Device: P.P. Sample Date: 6/21/22

Device Composition: _____ Sample Time: 1055

Sample Collected by: Liam Roberts of: _____

Sample Number(s): _____ Analytical Lab: Pace

Sample Fractions: _____

SIGNATURES

Sampler: _____ Reviewer: _____

Date: 6/21/22 Date: _____

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6/21/22 TIME: 1430 WELL NUMBER: 8S

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 11.4 (ft.) Depth to Bottom: 20.50 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump) Bailer, etc.): Pump

Pump

Type: Peristaltic

Rate: 0.1 gpm

Bailer

Volume of Bailer: _____ (gal)

Number of Bailers Required: _____ Removed: _____

Other _____

Purge Time: Start: 1430 End: ~~1500~~ 1455 Volume Purged: 2.5 (gal)

FIELD ANALYSES

	Start	*Intermediate*	*Intermediate*	*End*	
Volume purged (gal)	0.5	0.5	0.5	0.5	0.5
Time (24-hour)	1435	1440	1445	1450	1455
pH (S.U.)	6.84	6.80	6.79	6.78	6.78
Cond. (umhos/cm)	0.876	0.869	0.866	0.864	0.86
Temperature (°C)	29.4	29.5	29.1	29.0	29.0
Turbidity (NTU)	1.76	1.51	1.64	1.26	1.30
Appearance	~~Clear~~ Normal	"	"	"	"

SAMPLING INFORMATION

Sample Device: Peristaltic Sample Date: 6/21/22

Device Composition: _____ Sample Time: 1500

Sample Collected by: Liam Roberts of: _____

Sample Number(s): _____ Analytical Lab: Pace

Sample Fractions: _____

SIGNATURES

Sampler: _____ Reviewer: _____

Date: 6/21/22 Date: _____

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6/21/22 TIME: 1255 WELL NUMBER: 21-IK

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 7.4 (ft.) Depth to Bottom: 50.5 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump

Pump

Type: Peristaltic

Rate: 0.1 gpm

Bailer

Volume of Bailer: _____ (gal)

Number of Bailers Required: _____ Removed: _____

Other _____

Purge Time: Start: 1255 End: 1325 Volume Purged: 3 (gal)

FIELD ANALYSES

	Start	*Intermediate*	*Intermediate*	*End*
Volume purged (gal)	0.5	0.5	0.5	0.5
Time (24-hour)	1300	1305	1310	1315
pH (S.U.)	6.61	6.46	6.45	6.46
Cond. (umhos/cm)	0.560	0.558	0.556	0.555
Temperature (°C)	28.4	28.5	28.2	28.1
Turbidity (NTU)	2.91	11.1	7.84	8.17
Appearance	Normal	Normal	" "	" "

SAMPLING INFORMATION

Sample Device: Peristaltic Pump Sample Date: 6/21/22

Device Composition: _____ Sample Time: 1330

Sample Collected by: Liam Roberts of: _____

Sample Number(s): _____ Analytical Lab: Pace

Sample Fractions: _____

SIGNATURES

Sampler: _____ Reviewer: _____

Date: 6/21/22 Date: _____

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6/20/22 TIME: 0845 WELL NUMBER: 19-SR

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 6.82 (ft.) Depth to Bottom: 20.0 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump) Bailer, etc.): Pump

Pump *Bailer*

Type: Peristaltic Volume of Bailer: _____ (gal)

Rate: 0.1 gpm Number of Bailers Required: _____ Removed: _____

Other _____

Purge Time: Start: 0910 End: ~~1005~~ 0930 (CP) 6/22/22 Volume Purged: 2 (gal)

FIELD ANALYSES

	Start	*Intermediate*	*Intermediate*	*End*
Volume purged (gal)	0.5	0.5	0.5	0.5
Time (24-hour)	0915	0920	0925	0930
pH (S.U.)	6.65	6.68	6.71	6.73
Cond. (umhos/cm)	0.765	0.788	0.785	0.784
Temperature (°C)	27.5	26.3	26.1	26.2
Turbidity (NTU)	5.56	7.48	3.09	3.82
Appearance	Clear	Clear	Clear	Clear

6/22/22 (CP) ~~6.93~~ ~~6.75~~

SAMPLING INFORMATION

Sample Device: Peristaltic Sample Date: 6/20/22

Device Composition: _____ Sample Time: 0940

Sample Collected by: Liam Roberts of: _____

Sample Number(s): _____ Analytical Lab: Pace

Sample Fractions: _____

SIGNATURES

Sampler: _____ Reviewer: _____

Date: 6/20/22 Date: _____

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6/20/22 TIME: 1540 WELL NUMBER: 15-D

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 11.27 (ft.) Depth to Bottom: 91 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump) Bailer, etc.): Pump

Pump ***Bailer***

Type: Bladder Volume of Bailer: _____ (gal)

Number of Bailers
Rate: 0.1 gpm Required: _____ Removed: _____

Other _____

Purge Time: Start: 1550 End: 1620 Volume Purged: 3.0 (gal)

FIELD ANALYSES

	Start		*Intermediate*		*Intermediate*		*End*
Volume purged (gal)	0.5	0.5	0.5	0.5	0.5	0.5	
Time (24-hour)	1550	1555	1600	1605	1610	1615	
pH (S.U.)	9.85	9.96	10.02	10.05	10.06	10.09	
Cond. (umhos/cm)	200.31	200.16	199.90	199.71	199.74	199.65	
Temperature (°C)	34.1	33.7	33.5	33.4	33.4	33.3	
Turbidity (NTU)	6.76	6.61	6.47	6.24	6.35	6.41	
Appearance	normal	normal	normal	normal	normal	normal	

SAMPLING INFORMATION

Sample Device: Bladder Pump Sample Date: 6-20-22

Device Composition: _____ Sample Time: 1620

Sample Collected by: JT of: _____

Sample Number(s): _____ Analytical Lab: Pace

Sample Fractions: _____

SIGNATURES

Sampler: Jared Totten Reviewer: _____

Date: 6-20-22 Date: _____

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6-20-22 TIME: 1340 WELL NUMBER: 16I

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 10.67 (ft.) Depth to Bottom: 57.8 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump

Pump

Type: Peristaltic

Rate: 0.1 gpm

Bailer

Volume of Bailer: _____ (gal)

Number of Bailers Required: _____ Removed: _____

Other _____

Purge Time: Start: 1350 End: 1430 Volume Purged: 3.0 (gal)

FIELD ANALYSES

	Start		*Intermediate*		*Intermediate*		*End*
Volume purged (gal)	0.5	0.5	1.5	0.5	0.5	0.5	
Time (24-hour)	1350	1355	1400	1405	1410	1415	
pH (S.U.)	6.96	6.97	6.88	6.89	6.89	6.89	
Cond. (umhos/cm)	324.90	333.14	318.18	319.89	320.78	318.91	
Temperature (°C)	38.8	38.8	38.9	38.9	38.9	38.9	
Turbidity (NTU)	2.98	2.76	2.65	2.71	2.74	2.80	
Appearance	normal	normal	normal	normal	normal	normal	

SAMPLING INFORMATION

Sample Device: Peristaltic Sample Date: 6-20-22

Device Composition: _____ Sample Time: 1430

Sample Collected by: VT of: _____

Sample Number(s): _____ Analytical Lab: Pace

Sample Fractions: _____

SIGNATURES

Sampler: [signature] Reviewer: _____

Date: 6-20-22 Date: _____

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6-30-22 TIME: 1350 WELL NUMBER: 16-D

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 10.71 (ft.) Depth to Bottom: 110.74 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump

Pump ***Bailer***

Type: Bladder Volume of Bailer: _____ (gal)

Rate: 0.1 gpm Number of Bailers Required: _____ Removed: _____

Other _____

Purge Time: Start: 1300 End: 1330 Volume Purged: 3.0 (gal)

FIELD ANALYSES

	Start		*Intermediate*		*Intermediate*		*End*
Volume purged (gal)	0.5	0.5	0.5	0.5	0.5	0.5	
Time (24-hour)	1300	1305	1310	1315	1320	1325	
pH (S.U.)	6.90	7.03	7.10	7.15	7.16	7.19	
Cond. (umhos/cm)	224.21	239.33	238.79	257.90	236.44	235.27	
Temperature (°C)	38.6	38.7	38.8	39.0	39.1	39.7	
Turbidity (NTU)	3.45	3.23	3.25	3.13	3.20	3.15	
Appearance	normal	normal	normal	normal	normal	normal	

SAMPLING INFORMATION

Sample Device: Bladder Pump Sample Date: 6-30-22

Device Composition: _____ Sample Time: 1330

Sample Collected by: VT of: _____

Sample Number(s): _____ Analytical Lab: Pace

Sample Fractions: _____

SIGNATURES

Sampler: Michael Tellin Reviewer: _____

Date: 6-30-22 Date: _____

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6-20-22 TIME: 1045 WELL NUMBER: 31-IR

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 10.54 (ft.) Depth to Bottom: 53.6 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump

Pump

Type: Peristaltic

Rate: ~~0.25~~ 0.1 gpm JT 6-20-22

Bailer

Volume of Bailer: _____ (gal)

Number of Bailers Required: _____ Removed: _____

Other _____

Purge Time: Start: 1050 End: 1115 Volume Purged: 3.0 (gal)

FIELD ANALYSES

	Start		*Intermediate*		*Intermediate*		*End*
Volume purged (gal)	0.5	0.5	0.5	0.5	0.5	0.5	
Time (24-hour)	1050	1055	1100	1105	1110	1115	
pH (S.U.)	7.44	6.84	6.54	6.51	6.51	6.53	
Cond. (umhos/cm)	213.0	208.38	198.06	196.41	195.68	194.53	
Temperature (°C)	43.6	40.7	38.3	38.0	37.9	37.5	
Turbidity (NTU)	8.75	3.64	2.50	2.55	2.60	2.61	
Appearance	normal	normal	normal	normal	normal	normal	

SAMPLING INFORMATION

Sample Device: Peristaltic Pump Sample Date: 6-20-22

Device Composition: _____ Sample Time: 1130

Sample Collected by: JT of: _____

Sample Number(s): _____ Analytical Lab: Pace

Sample Fractions: _____

SIGNATURES

Sampler: [signature] Reviewer: _____

Date: 6-20-22 Date: _____

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6-20-22 TIME: 0935 WELL NUMBER: 31-dR

WELL DATA

Casing Diameter: 2 (in.)

Depth to Water: 10.54 (ft.)

Depth to Bottom: 108.7 (ft.)

(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump

Pump

Type: Bladder

Rate: 0.1 ~~0.25~~ gpm JT 6/20/22

Bailer

Volume of Bailer: _____ (gal)

Number of Bailers Required: _____ Removed: _____

Other _____

Purge Time: Start: 0935 End: 0955 Volume Purged: 3.0 (gal)

FIELD ANALYSES

	Start		*Intermediate*		*Intermediate*		*End*
Volume purged (gal)	0.5	0.5	0.5	0.5	0.5	0.5	
Time (24-hour)	0930	0935	0940	0945	0950	0955	
pH (S.U.)	6.38	6.36	6.36	6.36	6.35	6.35	
Cond. (umhos/cm)	1868.1	1745.2	1905.3	1903.7	1904.4	1908.4	
Temperature (°C)	34.6	34.9	35.1	35.3	35.4	35.6	
Turbidity (NTU)	5.16	7.89	6.90	6.95	6.74	6.81	
Appearance	normal	normal	normal	normal	normal	normal	

SAMPLING INFORMATION

Sample Device: Bladder Pump

Device Composition: _____

Sample Collected by: JT

Sample Number(s): _____

Sample Fractions: _____

Sample Date: 6-20-22

Sample Time: 1000

of: _____

Analytical Lab: Pace

SIGNATURES

Sampler: Jared Tatum

Date: 6-20-22

Reviewer: _____

Date: _____

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6-21-22 TIME: 0745 WELL NUMBER: 7-12

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 12.22 (ft.) Depth to Bottom: 26.1 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump

Pump

Type: Bladder

Rate: 0.1 gpm

Bailer

Volume of Bailer: _____ (gal)

Number of Bailers Required: _____ Removed: _____

Other _____

Purge Time: Start: 0750 End: 0815 Volume Purged: 3.0 (gal)

FIELD ANALYSES

	Start		*Intermediate*		*Intermediate*		*End*
Volume purged (gal)	0.5	0.5	0.5	0.5	0.5	0.5	
Time (24-hour)	0750	0755	0800	0805	0810	0815	
pH (S.U.)	6.97	6.63	6.47	6.49	6.45	6.38	
Cond. (umhos/cm)	2,408.6	3,859.7	3,096.5	3,695.6	3,874.2	3,945.9	
Temperature (°C)	29.3	29.9	30.3	30.6	30.9	46.1	
Turbidity (NTU)	1.69	1.86	1.65	1.70	1.61	1.55	
Appearance	normal	normal	normal	normal	normal	normal	

SAMPLING INFORMATION

Sample Device: Bladder Pump Sample Date: 6-21-22

Device Composition: _____ Sample Time: 0820

Sample Collected by: VT of: _____

Sample Number(s): _____ Analytical Lab: Pace

Sample Fractions: _____

SIGNATURES

Sampler: [signature] Reviewer: _____

Date: 6-21-22 Date: _____

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6-21-17 TIME: 1030 WELL NUMBER: 23-D

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 11.74 (ft.) Depth to Bottom: 101 (ft.)
(measure to 0.01 ft precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump) Bailer, etc): Pump
Pump *Bailer*

Type: Bladder Volume of Bailer: _____ (gal)

Rate: 0.1 gpm Number of Bailers Required: _____ Removed: _____

Other _____

Purge Time: Start: 1040 End: 1110 Volume Purged: 3.0 (gal)

FIELD ANALYSES

	Start		*Intermediate*		*Intermediate*		*End*
Volume purged (gal)	0.5	0.5	0.5	0.5	0.5	0.5	
Time (24-hour)	1045	1050	1055	1100	1105	1110	
pH (S.U.)	7.99	8.05	8.03	8.01	8.01	8.00	
Cond. (umhos/cm)	2219.5	2134.5	2030.5	1984.6	1971.3	1956.9	
Temperature (°C)	35.1	34.9	35.0	35.3	35.4	35.5	
Turbidity (NTU)	2.82	2.84	2.87	2.90	2.94	2.95	
Appearance	Normal	Normal	Normal	Normal	Normal	Normal	

SAMPLING INFORMATION

Sample Device: Bladder Pump Sample Date: 6-21-17

Device Composition: _____ Sample Time: 1115

Sample Collected by: JT of: _____

Sample Number(s): _____ Analytical Lab: Pace

Sample Fractions: _____

SIGNATURES

Sampler: [signature] Reviewer: _____

Date: 6-21-17 Date: _____

Field Dup 2

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6-21-22 TIME: 0840 WELL NUMBER: 7-IR

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 12.77 (ft.) Depth to Bottom: 62.0 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump

Pump

Type: Peristaltic

Rate: _____

Bailer

Volume of Bailer: _____ (gal)

Number of Bailers Required: _____ Removed: _____

Other _____

Purge Time: Start: 0845 End: 0915 Volume Purged: 3.0 (gal)

FIELD ANALYSES

	Start		*Intermediate*		*Intermediate*		*End*
Volume purged (gal)	0.5	0.5	0.5	0.5	0.5	0.5	
Time (24-hour)	0850	0855	0900	0905	0910	0915	
pH (S.U.)	6.76	6.58	6.56	6.54	6.53	6.52	
Cond. (umhos/cm)	644.89	653.65	676.46	676.47	674.41	675.18	
Temperature (°C)	31.2	31.4	31.6	31.7	31.8	31.9	
Turbidity (NTU)	1.64	1.87	1.84	1.69	1.74	1.87	
Appearance	normal	normal	normal	normal	normal	normal	

SAMPLING INFORMATION

Sample Device: Peristaltic Sample Date: 6-21-22

Device Composition: _____ Sample Time: 0930

Sample Collected by: JT of: _____

Sample Number(s): _____ Analytical Lab: Pace

Sample Fractions: _____

SIGNATURES

Sampler: Jared Tatum Reviewer: _____

Date: 6-21-22 Date: _____

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6-21-22 TIME: 1130 WELL NUMBER: 23-I

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 11.48 (ft.) Depth to Bottom: 48.5 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump) Bailer, etc.): Pump

Pump

Type: Peristaltic

Rate: 0.1 gpm

Bailer

Volume of Bailer: _____ (gal)

Number of Bailers Required: _____ Removed: _____

Other _____

Purge Time: Start: 1135 End: 1200 Volume Purged: 3.0 (gal)

FIELD ANALYSES

	Start		*Intermediate*		*Intermediate*		*End*
Volume purged (gal)	0.5	0.5	0.5	0.5	0.5	0.5	
Time (24-hour)	1135	1140	1145	1150	1155	1200	
pH (S.U.)	8.75	8.74	8.71	8.70	8.71	8.73	
Cond. (umhos/cm)	353.96	350.44	342.24	345.06	351.91	353.69	
Temperature (°C)	36.1	36.7	36.4	36.6	36.8	36.9	
Turbidity (NTU)	4.57	4.49	4.47	4.78	4.64	4.51	
Appearance	normal	normal	normal	normal	normal	normal	

SAMPLING INFORMATION

Sample Device: Peristaltic Pump Sample Date: 6-21-22

Device Composition: _____ Sample Time: 1205

Sample Collected by: JT of: _____

Sample Number(s): _____ Analytical Lab: Pace

Sample Fractions: _____

SIGNATURES

Sampler: [signature] Reviewer: _____

Date: 6-21-22 Date: _____

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6-27-22 TIME: 1030 WELL NUMBER: 17-D

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 7.50 (ft.) Depth to Bottom: 106.9 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal /ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump) Bailer, etc.): Pump

Pump *Bailer*

Type: Bladder Volume of Bailer: _____ (gal)

Rate: 0.1 gpm Number of Bailers Required: _____ Removed: _____

Other _____

Purge Time: Start: 1045 End: 1110 Volume Purged: 3.0 (gal)

FIELD ANALYSES

	Start		*Intermediate*		*Intermediate*		*End*
Volume purged (gal)	0.5	0.5	0.5	0.5	0.5	0.5	
Time (24-hour)	1045	1050	1055	1100	1105	1110	
pH (S.U.)	8.38	8.34	8.30	8.30	8.33	8.35	
Cond. (umhos/cm)	1,934.8	1,998.0	1,997.1	1,995.3	1,994.9	1,999.4	
Temperature (°C)	47.4	45.1	43.7	43.9	43.5	43.1	
Turbidity (NTU)	2.89	2.75	2.60	2.63	2.58	2.45	
Appearance	normal	normal	normal	normal	normal	normal	

SAMPLING INFORMATION

Sample Device: Bladder Pump Sample Date: 6-27-22

Device Composition: _____ Sample Time: 1115

Sample Collected by: VT of: _____

Sample Number(s): _____ Analytical Lab: Pace

Sample Fractions: _____

SIGNATURES

Sampler: [signature] Reviewer: _____

Date: 6-27-22 Date: _____

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6-22-22 TIME: 0740 WELL NUMBER: S-DK

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 12.10 (ft.) Depth to Bottom: 128 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump) Bailer, etc.): Pump

Pump ***Bailer***

Type: Bladder Volume of Bailer: _____ (gal)

Number of Bailers

Rate: 0.1 g.p.m Required: _____ Removed: _____

Other _____

Purge Time: Start: 0750 End: 0835 Volume Purged: 5.0 (gal)

FIELD ANALYSES

	Start		*Intermediate*		*Intermediate*	*End*
Volume purged (gal)	1.0	1.0	1.0	1.0	1.0	
Time (24-hour)	0755	0805	0815	0825	0835	
pH (S.U.)	7.51	7.50	7.51	7.50	7.50	
Cond. (umhos/cm)	5,045.4	6,109.6	6,104.7	6,173.5	6,162.0	
Temperature (°C)	31.4	33.7	31.5	31.7	32.1	
Turbidity (NTU)	2.88	3.24	3.68	3.96	3.83	
Appearance	normal	normal	normal	normal	normal	

SAMPLING INFORMATION

Sample Device: Bladder Pump Sample Date: 6-22-22

Device Composition: _____ Sample Time: 0840

Sample Collected by: JT of: _____

Sample Number(s): _____ Analytical Lab: Pace

Sample Fractions: _____

SIGNATURES

Sampler: [signature] Reviewer: _____

Date: 6-22-22 Date: _____

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WELL SAMPLING DATA FORM

DATE: 6/21/22 TIME: 0915 WELL NUMBER: 6-S

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 9.4 (ft) Depth to Bottom: 19.5 (ft)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal /ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump / Bailer

Pump
Type: Peristaltic

Rate: 0.1 gpm

Volume of Bailer: _____ (gal)
Number of Bailers
Required: _____ Removed: _____

Other: _____

Purge Time: Start: 0915 End: 0949 Volume Purged: 2.5 (gal)

FIELD ANALYSES

	Start	Intermediate	Intermediate	End	
Volume purged (gal)	0.5	0.5	0.5	0.5	0.5
Time (24-hour)	0920	0925	0930	0935	0945
pH (S.U.)	6.53	6.53	6.53	6.52	6.51
Cond. (umhos/cm)	1.504	1.487	1.419	1.423	1.423
Temperature (°C)	27.6	27.8	28.1	28.1	28.1
Turbidity (NTU)	5.42	10.43	6.05	5.83	4.70
Appearance	Normal	Normal	~~Normal~~ Slightly silty	"	"

SAMPLING INFORMATION

Sample Device: Peristaltic Pump
Device Composition: _____
Sample Collected by: Liam Roberts
Sample Number(s): _____
Sample Fractions: _____

Sample Date: 6/21/22
Sample Time: 0945
of: _____
Analytical Lab: Pace

SIGNATURES

Sampler: [signature] Reviewer: _____
Date: 6/21/22 Date: _____

Pace Analytical

Sample Condition Upon Receipt

WO#: 20247389

PM: MKB Due Date: 07/06/22

4320 Midmost Dr Mobile, AL 36609

Project #: CLIENT: MO-AlaStPort

Courier: ☑ Pace ☐ Client ☐ FedEx ☐ UPS ☐ Other Tracking # _____

Custody Seal on Cooler/Box Present: [see COC] Custody Seals intact: ☐Yes ☐No

Thermometer Used: ☑ Therm Fisher IR 001 ☐ Other:

Type of Ice: (Wet) Blue None Samples on ice: [see COC]

Cooler Temperature: [see COC]

Date and Initials of person examining contents: 6/22/2022 KAM

Temp must be measured from temperature blank when present

					Comments:
Temperature Blank Present:	☐Yes	☑No	☐N/A	1	
Chain of Custody Present:	☑Yes	☐No	☐N/A	2	
Chain of Custody Complete:	☑Yes	☐No	☐N/A	3	
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	4	
Sampler Name on COC:	☑Yes	☐No	☐N/A	5	
Short Hold Time Analyses (<72 hr):	☐Yes	☑No	☐N/A	6	
Rush Turn Around Requested:	☐Yes	☑No	☐N/A	7	
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	8	
Sufficient Volume:	☑Yes	☐No	☐N/A	9	
Correct Containers Used:	☑Yes	☐No	☐N/A	10	
Filtered vol. Rec. for Diss. tests	☐Yes	☐No	☑N/A	11	
Sample Labels match COC:	☑Yes	☐No	☐N/A	12	
All containers received within manufacturer's precautionary and/or expiration dates:	☑Yes	☐No	☐N/A	13	
All containers needing chemical preservation have been checked (except VOA, micro, & O&G):	☑Yes	☐No	☐N/A	14	
All containers preservation checked found to be in compliance with EPA recommendation:	☑Yes	☐No	☐N/A	15	If No, was preserative added? ☐Yes ☐No If added record lot no.: HNO3 _____ H2SO4 _____
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	16	
Trip Blank Present:	☑Yes	☐No		17	

Client Notification/Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Pace Analytical Services, LLC.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

www.pacelabs.com

Report Prepared for:

Mary Kathryn Brenner
PACE New Orleans
4320 Midmost Drive
Mobile AL 36609

REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

Report Information:

Pace Project #: 10614012
Sample Receipt Date: 06/23/2022
Client Project #: 20247389
Client Sub PO #: N/A
State Cert #: 40770

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Scott Unze, your Pace Project Manager.

This report has been reviewed by:

July 12, 2022

Scott Unze, Project Manager
(612) 607-6383
(612) 607-6444 (fax)
scott.unze@pacelabs.com

Report Prepared Date:
July 12, 2022

Report of Laboratory Analysis

Pace Analytical Services, LLC.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DISCUSSION

This report presents the results from the analyses performed on thirty-two samples submitted by a representative of Pace Analytical Services, LLC. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. The reporting limits were set to correspond to the lowest calibration points and a nominal 1-liter sample amount, and the sensitivity was verified by signal-to-noise measurements. The quantitation limits, adjusted for sample extraction amount, may be somewhat higher or lower than the reporting limits provided in this report. Estimated maximum possible concentration (EMPC) values were treated as positives in the toxic equivalence calculations.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 15-125%. Except for thirty-nine low values, which were flagged "R" on the results tables, the labeled standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained. Values obtained from the analysis of a diluted extract were flagged "D".

A laboratory method blank was prepared and analyzed with each sample batch as part of our routine quality control procedures. The results show the blanks to be free of PCDDs and PCDFs at the reporting limits.

Laboratory spike samples were also prepared using clean reference matrix that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 76-122% with relative percent differences of 0.0-19.4%. These results were within the target ranges for the method. Matrix spikes were not prepared with the sample batches.

The response obtained for the labeled OCDD in calibration standard analysis F220629B_08 was outside the target range. As specified in our procedures for this method, the average of the daily response factors for this compound was used in the calculations for the samples from this runshift. The affected values were flagged "Y" on the results tables.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
		Mississippi	MN00064
		Missouri	10100
A2LA	2926.01	Montana	CERT0092
Alabama	40770	Nebraska	NE-OS-18-06
Alaska-DW	MN00064	Nevada	MN00064
Alaska-UST	17-009	New Hampshire	2081
Arizona	AZ0014	New Jersey	MN002
Arkansas - WW	88-0680	New York	11647
Arkansas-DW	MN00064	North Carolina-	27700
California	2929	North Carolina-	530
Colorado	MN00064	North Dakota	R-036
Connecticut	PH-0256	Ohio-DW	41244
Florida	E87605	Ohio-VAP (170	CL101
Georgia	959	Ohio-VAP (180	CL110
Hawaii	MN00064	Oklahoma	9507
Idaho	MN00064	Oregon- rimary	MN300001
Illinois	200011	Oregon-Second	MN200001
Indiana	C-MN-01	Pennsylvania	68-00563
Iowa	368	Puerto Rico	MN00064
Kansas	E-10167	South Carolina	74003
Kentucky-DW	90062	Tennessee	TN02818
Kentucky-WW	90062	Texas	T104704192
Louisiana-DEQ	AI-84596	Utah	MN00064
Louisiana-DW	MN00064	Vermont	VT-027053137
Maine	MN00064	Virginia	460163
Maryland	322	Washington	C486
Michigan	9909	West Virginia-D	382
Minnesota	027-053-137	West Virginia-D	9952C
Minnesota-Ag	via MN 027-053	Wisconsin	999407970
Minnesota-Petr	1240	Wyoming-UST	via A2LA 2926.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
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Appendix A

Sample Management

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: AL
Cert. Needed: ☐ Yes ☐ No
Owner Received Date: 6/22/2022 Results Requested By: 7/7/2022

Workorder: 20247389 **Workorder Name:** Alabama Wood Treating

Report To	Subcontract To
Mary Kathryn Brenner Pace Analytical Mobile Labs 4320 Midmost Dr Mobile, AL 36609 USA Phone 251-344-9106	Pace Analytical Minneapolis 1700 Elm Street SE Minneapolis, MN 55414 Phone (612)607-1700

WO# : 10614012

10614012

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	8290	LAB USE ONLY
1	6-I	PS	6/21/2022 10:55	20247389001	Water	1	X	T2 001
2	6-S	PS	6/21/2022 09:45	20247389002	Water	1	X	T2 002
3	7-D	PS	6/21/2022 08:20	20247389003	Water	1	X	T2 003
4	7-IR	PS	6/21/2022 09:20	20247389004	Water	1	X	T2 004
5	7-S	PS	6/21/2022 08:10	20247389005	Water	1	X	T2 005
6	8-D	PS	6/21/2022 15:10	20247389006	Water	1	X	T3 006
7	8-DK	PS	6/22/2022 08:40	20247389007	Water	1	X	T2 007
8	8-I	PS	6/22/2022 08:40	20247389008	Water	1	X	T3 008
9	9-I	PS	6/20/2022 15:50	20247389009	Water	1	X	
10	8-S	PS	6/21/2022 15:00	20247389010	Water	1	X	T3 0010
11	15-D	PS	6/20/2022 16:20	20247389011	Water	1	X	
12	15-I	PS	6/21/2022 16:30	20247389012	Water	1	X	T2 012
13	15-S	PS	6/20/2022 17:05	20247389013	Water	1	X	
14	16-D	PS	6/20/2022 13:30	20247389014	Water	1	X	
15	16-I	PS	6/20/2022 14:20	20247389015	Water	1	X	
16	17-D	PS	6/22/2022 11:15	20247389016	Water	1	X	T2 016
17	19-SR	PS	6/20/2022 09:40	20247389017	Water	1	X	
18	21-I	PS	6/21/2022 13:30	20247389018	Water	1	X	T2 018
19	23-D	PS	6/21/2022 11:15	20247389019	Water	1	X	T2 019

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: AL
Cert. Needed: ☐ Yes ☐ No
Owner Received Date: 6/22/2022 Results Requested By: 7/7/2022

Workorder: 20247389 **Workorder Name:** Alabama Wood Treating

Report To	Subcontract To
Mary Kathryn Brenner Pace Analytical Mobile Labs 4320 Midmost Dr Mobile, AL 36609 USA Phone 251-344-9106	Pace Analytical Minneapolis 1700 Elm Street SE Minneapolis, MN 55414 Phone (612)607-1700

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved						Requested Analysis: 8290												LAB USE ONLY
20	23-I	PS	6/21/2022 12:05	20247389020	Water	1						X												TZ 020
21	31-DR	PS	6/20/2022 11:20	20247389021	Water	1						X												
22	31-IR	PS	6/20/2022 10:00	20247389022	Water	1						X												
23	32-I	PS	6/20/2022 11:45	20247389023	Water	1						X												
24	32-S	PS	6/20/2022 12:52	20247389024	Water	1						X												
25	Equipment Blank 1	PS	6/20/2022 07:25	20247389025	Water	1						X												
26	Equipment Blank 2	PS	6/20/2022 07:45	20247389026	Water	1						X												
27	Equipment Blank 3	PS	6/20/2022 08:05	20247389027	Water	1						X												
28	Equipment Blank 4	PS	6/21/2022 17:05	20247389028	Water	1						X												TZ 028
29	Equipment Blank 5	PS	6/21/2022 17:25	20247389029	Water	1						X												TZ 029
30	Equipment Blank 6	PS	6/21/2022 17:45	20247389030	Water	1						X												TZ 030
31	Field Dup 1	PS	6/21/2022 08:20	20247389031	Water	1						X												TZ 031
32	Field Dup 2	PS	6/21/2022 09:45	20247389032	Water	1						X												TZ 032

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	Kayla A. Williams	6/22/22 1530	[illegible]	06/23/22 0830	IR10 Report with MDL and J Flags All highlighted samples are included in this shipment. Please add to the previous workorder. All dates/times on this IRWO are final.
2					
3					

Cooler Temperature on Receipt	Custody Seal	Received on Ice	Samples Intact
4.9 °C	Y or (N)	(Y) or N	(Y) or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
This chain of custody is considered complete as is since this information is available in the owner laboratory.

T2 = Table 2
T3 = Table 3

DC#_Title: ENV-FRM-MIN4-0150 v05_Sample Condition Upon Receipt (SCUR)

Effective Date: 04/12/2022

Sample Condition Upon Receipt

Client Name: P, A Mobile Labs

Project #:

WO#: 10614012

PM: SCU **Due Date: 07/14/22**

CLIENT: PASI-NOLA

Courier: ☐Fed Ex ☐UPS ☐USPS ☑Client ☐Pace ☐SpeeDee ☐Commercial

See Exceptions ☐ENV-FRM-MIN4-0142

Tracking Number: _____

Custody Seal on Cooler/Box Present? ☐Yes ☑No Seals Intact? ☐Yes ☑No Biological Tissue Frozen? ☐Yes ☐No ☑N/A

Packing Material: ☐Bubble Wrap ☐Bubble Bags ☐None ☐Other: _____ Temp Blank? ☐Yes ☑No

Thermometer: ☐T1(0461) ☐T2(1336) ☐T3(0459) ☑T4(0254) ☐T5(0489) ☐T6(0235) ☐T7 (0042) ☐01339252/1710 ☐122639816 ☐140792808

Type of Ice: ☑Wet ☐Blue ☐None ☐Dry ☐Melted

Did Samples Originate in West Virginia? ☐Yes ☑No Were All Container Temps Taken? ☐Yes ☐No ☑N/A

Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: _____ °C

Average Corrected Temp (no temp blank only): 4.9 °C ☑See Exceptions ENV-FRM-MIN4-0142 ☐1 Container

Correction Factor: True Cooler Temp Corrected w/temp blank: _____ °C

USDA Regulated Soil: (☑N/A, water sample/Other: _____) Date/Initials of Person Examining Contents: KN 06/23/22

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐Yes ☐No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐Yes ☐No

If Yes to either question, fill out a Regulated Soil Checklist ENV-FRM-MIN4-0154 and include with SCUR/COC paperwork.

Location (check one): ☐ Duluth ☑ Minneapolis ☐ Virginia				COMMENTS:
Chain of Custody Present and Filled Out?	☑Yes	☐No		1. No COC
Chain of Custody Relinquished?	☑Yes	☐No		2.
Sampler Name and/or Signature on COC?	☐Yes	☐No	☑N/A	3.
Samples Arrived within Hold Time?	☑Yes	☐No		4. If Fecal: ☐<8 hrs ☐>8hr, <24 hrs, ☐>24 hrs
Short Hold Time Analysis (<72 hr)?	☐Yes	☑No		5. ☐Fecal Coliform ☐HPC ☐Total Coliform/E coli ☐BOD/cBOD ☐Hex Chrome ☐Turbidity ☐Nitrate ☐Nitrite ☐Orthophos ☐Other
Rush Turn Around Time Requested?	☐Yes	☑No		6.
Sufficient Volume?	☑Yes	☐No		7.
Correct Containers Used?	☑Yes	☐No		8.
-Pace Containers Used?	☑Yes	☐No		
Containers Intact?	☑Yes	☐No		9.
Field Filtered Volume Received for Dissolved Tests?	☐Yes	☐No	☑N/A	10. Is sediment visible in the dissolved container? ☐Yes ☐No
Is sufficient information available to reconcile the samples to the COC? Matrix: ☑Water ☐Soil ☐Oil ☐Other-	☑Yes	☐No		11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐ **ENV-FRM-MIN4-0142**
All containers needing acid/base preservation have been checked?	☐Yes	☐No	☑N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	☐Yes	☐No	☑N/A	☐NaOH ☐HNO_3 ☐H_2SO_4 ☐Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐Yes	☐No	☑N/A	Positive for Res. Chlorine? ☐Yes ☐No **pH Paper Lot#** **See Exception** ☐ **ENV-FRM-MIN4-0142**
				Res. Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Headspace in Methyl Mercury Container?	☐Yes	☐No	☑N/A	
Extra labels present on soil VOA or WIDRO containers?	☐Yes	☐No	☑N/A	13. **See Exception** ☐ **ENV-FRM-MIN4-0140**
Headspace in VOA Vials (greater than 6mm)?	☐Yes	☐No	☑N/A	
Trip Blank Present?	☐Yes	☐No	☑N/A	14.
Trip Blank Custody Seals Present?	☐Yes	☐No	☑N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐Yes ☐No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Sonia C. Mungia **Date:** 06/23/22

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: KN (2)

Pace ANALYTICAL SERVICES	**DC#_Title: ENV-FRM-MIN4-0142 v01_Sample Condition Upon Receipt (SCUR) Exception Form**
	Effective Date: 02/25/2022

SCUR Exceptions: **Workorder #:**

Out of Temp Sample IDs	Container Type	# of Containers

PM Notified? ☐Yes ☐No

If yes, indicate who was contacted/date/time.
If no, indicate reason why.

Multiple Cooler Project? ☐Yes ☐No
If you answered yes, fill out information to the left.

No Temp Blank

Read Temp	Corrected Temp	Average Temp
4.7		4.9
5.6	TRUE	
5.2		
4.0		

Tracking Number/Temperature	

Issue Type: Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition?	Initials
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	

Comments:

Qualtrax ID: 52763

For WO# 20247389 MN

TABLE 3 MONITORING

Site-Specific Constituent	CAS	Method	Units
Cyanide	57-12-5	EPA 335.2	mg/L
Sulfide	18496-25-8	EPA 376.1	mg/L
Antimony	7440-36-0	SW 6020	mg/L
Arsenic	7440-38-2	SW 6020	mg/L
Barium	7440-39-3	SW 6020	mg/L
Beryllium	7440-41-7	SW 6020	mg/L
Cadmium	7440-43-9	SW 6020	mg/L
Chromium	7440-47-3	SW 6020	mg/L
Cobalt	7440-48-4	SW 6020	mg/L
Copper	7440-50-8	SW 6020	mg/L
Lead	7439-92-1	SW 6020	mg/L
Nickel	7440-02-0	SW 6020	mg/L
Selenium	7782-49-2	SW 6020	mg/L
Silver	7440-22-4	SW 6020	mg/L
Thallium	7440-28-0	SW 6020	mg/L
Tin	7440-31-5	SW 6020	mg/L
Vanadium	7440-62-2	SW 6020	mg/L
Zinc	7440-66-6	SW 6020	mg/L
Mercury	7439-97-6	SW 7470A	mg/L
4,4'-DDD	72-54-8	SW 8081	ug/L
4,4'-DDE	72-55-9	SW 8081	ug/L
4,4'-DDT	50-29-3	SW 8081	ug/L
Aldrin	309-00-2	SW 8081	ug/L
alpha-BHC	319-84-6	SW 8081	ug/L
beta-BHC	319-85-7	SW 8081	ug/L
Chlordane (technical)	57-74-9	SW 8081	ug/L
Chlorobenzilate	510-15-6	SW 8081	ug/L
delta-BHC	319-86-8	SW 8081	ug/L
Dieldrin	60-57-1	SW 8081	ug/L
Endosulfan I	959-98-8	SW 8081	ug/L
Endosulfan II	33213-65-9	SW 8081	ug/L
Endosulfan sulfate	1031-07-8	SW 8081	ug/L
Endrin	72-20-8	SW 8081	ug/L
Endrin aldehyde	7421-93-4	SW 8081	ug/L
~~Ethyl Parathion~~ REPEAT	~~56-38-2~~	~~SW 8081~~	~~ug/L~~
gamma-BHC (Lindane)	58-89-9	SW 8081	ug/L
Heptachlor	76-44-8	SW 8081	ug/L
Heptachlor Epoxide	1024-57-3	SW 8081	ug/L
Methoxychlor	72-43-5	SW 8081	ug/L
Toxaphene	8001-35-2	SW 8081	ug/L
PCB-1016	12674-11-2	SW 8082	ug/L
PCB-1221	11104-28-2	SW 8082	ug/L

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PCB-1232	11141-16-5	SW 8082	ug/L
PCB-1242	53469-21-9	SW 8082	ug/L
PCB-1248	12672-29-6	SW 8082	ug/L
PCB-1254	11097-69-1	SW 8082	ug/L
PCB-1260	11096-82-5	SW 8082	ug/L
Disulfoton	298-04-4	SW 8141	ug/L
Ethyl Parathion	56-38-2	SW 8141	ug/L
Methyl parathion	298-00-0	SW 8141	ug/L
O,O,O-Triethyl Phosphorothioate	126-68-1	SW 8141	ug/L
O,O-Diethyl O-Pyrazinyl Phosphorothioate	297-97-2	SW 8141	ug/L
Phorate	298-02-2	SW 8141	ug/L
Sulfotepp	3689-24-5	SW 8141	ug/L
2,4,5-T	93-76-5	SW 8151	ug/L
2,4,5-TP (Silvex)	93-72-1	SW 8151	ug/L
2,4-D	94-75-7	SW 8151	ug/L
1,1,1,2-Tetrachloroethane	630-20-6	SW 8260	ug/L
1,1,1-Trichloroethane	71-55-6	SW 8260	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	SW 8260	ug/L
1,1,2-Trichloroethane	79-00-5	SW 8260	ug/L
1,1-Dichloroethane	75-34-3	SW 8260	ug/L
1,1-Dichloroethene	75-35-4	SW 8260	ug/L
1,2,3-Trichloropropane	96-18-4	SW 8260	ug/L
1,2-Dibromo-3-Chloropropane	96-12-8	SW 8011	ug/L
1,2-Dibromoethane (Ethylene dibromide)	106-93-4	SW 8011	ug/L
1,2-Dichlorobenzene	95-50-1	SW 8260	ug/L
1,2-Dichloroethane	107-06-2	SW 8260	ug/L
1,2-Dichloropropane	78-87-5	SW 8260	ug/L
2-Butanone (Methyl ethyl ketone)	78-93-3	SW 8260	ug/L
2-Chloro-1,3-Butadiene	126-99-8	SW 8260	ug/L
2-Hexanone	591-78-6	SW 8260	ug/L
2-Methyl-1-Propanol (isobutyl alcohol)	78-83-1	SW 8260	ug/L
Acetone	67-64-1	SW 8260	ug/L
Acetonitrile	75-05-8	SW 8260	ug/L
Acrolein	107-02-8	SW 8260	ug/L
Acrylonitrile	107-13-1	SW 8260	ug/L
Allyl chloride (3-Chloropropene)	107-05-1	SW 8260	ug/L
Benzene	71-43-2	SW 8260	ug/L
Bromodichloromethane (Dichlorobromomethane)	75-27-4	SW 8260	ug/L
Bromoform (Tribromomethane)	75-25-2	SW 8260	ug/L
Bromomethane (Methyl bromide)	74-83-9	SW 8260	ug/L
Carbon disulfide	75-15-0	SW 8260	ug/L
Carbon tetrachloride	56-23-5	SW 8260	ug/L
Chlorobenzene	108-90-7	SW 8260	ug/L
Chlorodibromomethane (Dibromochloromethane)	124-48-1	SW 8260	ug/L
Chloroethane	75-00-3	SW 8260	ug/L
Chloroform	67-66-3	SW 8260	ug/L
Chloromethane (Methyl chloride)	74-87-3	SW 8260	ug/L

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cis-1,2-Dichloroethene	156-59-2	SW 8260	ug/L
cis-1,3-Dichloropropene	10061-01-5	SW 8260	ug/L
Dibromomethane (Methylene bromide)	74-95-3	SW 8260	ug/L
Dichlorodifluoromethane	75-71-8	SW 8260	ug/L
Ethyl methacrylate	97-63-2	SW 8260	ug/L
Iodomethane (Methyl iodide)	74-88-4	SW 8260	ug/L
Methyl isobutyl ketone (4-Methyl-2-pentanone)	108-10-1	SW 8260	ug/L
Methyl methacrylate	80-62-6	SW 8260	ug/L
Methylacrylonitrile	126-98-7	SW 8260	ug/L
Methylene chloride (Dichloromethane)	75-09-2	SW 8260	ug/L
Pentachloroethane	76-01-7	SW 8260	ug/L
Styrene	100-42-5	SW 8260	ug/L
Tetrachloroethene (PCE)	127-18-4	SW 8260	ug/L
Toluene	108-88-3	SW 8260	ug/L
trans-1,2-Dichloroethene	156-60-5	SW 8260	ug/L
trans-1,3-Dichloropropene	10061-02-6	SW 8260	ug/L
trans-1,4-Dichlorobutene	110-57-6	SW 8260	ug/L
Trichloroethene (TCE)	79-01-6	SW 8260	ug/L
Trichlorofluoromethane	75-69-4	SW 8260	ug/L
Vinyl Acetate	108-05-4	SW 8260	ug/L
Vinyl Chloride	75-01-4	SW 8260	ug/L
Xylenes, Total	1330-20-7	SW 8260	ug/L
1,2,4,5-Tetrachlorobenzene	95-94-3	SW 8270	ug/L
1,2,4-Trichlorobenzene	120-82-1	SW 8270	ug/L
~~1,2-Dichlorobenzene~~ REPEAT	~~95-50-1~~	~~SW 8270~~	~~ug/L~~
1,3,5-Trinitrobenzene	99-35-4	SW 8270	ug/L
1,3-Dichlorobenzene	541-73-1	SW 8270	ug/L
1,3-Dinitrobenzene	99-65-0	SW 8270	ug/L
1,4-Dichlorobenzene	106-46-7	SW 8270	ug/L
1,4-Dioxane (p-Dioxane)	123-91-1	SW 8270	ug/L
1,4-Naphthoquinone	130-15-4	SW 8270	ug/L
1-Naphthylamine	134-32-7	SW 8270	ug/L
2,3,4,6-Tetrachlorophenol	58-90-2	SW 8270	ug/L
2,4,5-Trichlorophenol	95-95-4	SW 8270	ug/L
2,4,6-Trichlorophenol	88-06-2	SW 8270	ug/L
2,4-Dichlorophenol	120-83-2	SW 8270	ug/L
2,4-Dimethylphenol	105-67-9	SW 8270	ug/L
2,4-Dinitrophenol	51-28-5	SW 8270	ug/L
2,4-Dinitrotoluene	121-14-2	SW 8270	ug/L
2,6-Dichlorophenol	87-65-0	SW 8270	ug/L
2,6-Dinitrotoluene	606-20-2	SW 8270	ug/L
2-Acetylaminofluorene	53-96-3	SW 8270	ug/L
2-Chloronaphthalene	91-58-7	SW 8270	ug/L
2-Chlorophenol	95-57-8	SW 8270	ug/L
2-Methylaniline (o-Toluidine)	95-53-4	SW 8270	ug/L
2-Methylnaphthalene	91-57-6	SW 8270	ug/L
2-Methylphenol (o-Cresol)	95-48-7	SW 8270	ug/L

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2-Naphthylamine	91-59-8	SW 8270	ug/L
2-Nitroaniline	88-74-4	SW 8270	ug/L
2-Nitrophenol	88-75-5	SW 8270	ug/L
2-Picoline	109-06-8	SW 8270	ug/L
3,3'-Dichlorobenzidine	91-94-1	SW 8270	ug/L
3,3'-Dimethylbenzidine	119-93-7	SW 8270	ug/L
3-Methylchloranthrene	56-49-5	SW 8270	ug/L
3-Methylphenol (m-Cresol)	108-39-4	SW 8270	ug/L
3-Nitroaniline	99-09-2	SW 8270	ug/L
4,6-Dinitro-2-Methylphenol	534-52-1	SW 8270	ug/L
4-Aminobiphenyl	92-67-1	SW 8270	ug/L
4-Bromophenyl phenyl ether	101-55-3	SW 8270	ug/L
4-Chloro-3-Methylphenol	59-50-7	SW 8270	ug/L
4-Chloroaniline	106-47-8	SW 8270	ug/L
4-Chlorophenyl phenyl ether	7005-72-3	SW 8270	ug/L
4-Dimethylaminoazobenzene	60-11-7	SW 8270	ug/L
4-Methylphenol (p-Cresol)	106-44-5	SW 8270	ug/L
4-Nitroaniline	100-01-6	SW 8270	ug/L
4-Nitrophenol	100-02-7	SW 8270	ug/L
4-Nitroquinoline-N-Oxide	56-57-5	SW 8270	ug/L
5-Nitro-O-Toluidine	99-55-8	SW 8270	ug/L
7,12-Dimethylbenz(a)anthracene	57-97-6	SW 8270	ug/L
Acenaphthene	83-32-9	SW 8270	ug/L
Acenaphthylene	208-96-8	SW 8270	ug/L
Acetophenone	98-86-2	SW 8270	ug/L
Alpha, Alpha-Dimethylphenethylamine	122-09-8	SW 8270	ug/L
Aniline	62-53-3	SW 8270	ug/L
Anthracene	120-12-7	SW 8270	ug/L
Aramite	140-57-8	SW 8270	ug/L
Benzo(a)anthracene	56-55-3	SW 8270	ug/L
Benzo(a)pyrene	50-32-8	SW 8270	ug/L
Benzo(b)fluoranthene	205-99-2	SW 8270	ug/L
Benzo(g,h,i)perylene	191-24-2	SW 8270	ug/L
Benzo(k)fluoranthene	207-08-9	SW 8270	ug/L
Benzyl Alcohol	100-51-6	SW 8270	ug/L
bis(2-Chloroethoxy)methane	111-91-1	SW 8270	ug/L
bis(2-Chloroethyl)ether	111-44-4	SW 8270	ug/L
bis(2-Ethylhexyl)phthalate	117-81-7	SW 8270	ug/L
Bis(2-chloro-1-methylethyl) ether; 2,2'-Dichlorodiisop	108-60-1	SW 8270	ug/L
Butyl benzyl phthalate	85-68-7	SW 8270	ug/L
Chrysene	218-01-9	SW 8270	ug/L
Diallate	2303-16-4	SW 8270	ug/L
Dibenzo(a,h)anthracene	53-70-3	SW 8270	ug/L
Dibenzofuran	132-64-9	SW 8270	ug/L
Diethyl phthalate	84-66-2	SW 8270	ug/L
Dimethoate	60-51-5	SW 8270	ug/L
Dimethyl phthalate	131-11-3	SW 8270	ug/L

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Di-n-butyl phthalate	84-74-2	SW 8270	ug/L
Di-n-octyl phthalate	117-84-0	SW 8270	ug/L
Dinoseb	88-85-7	SW 8270	ug/L
Diphenylamine	122-39-4	SW 8270	ug/L
Ethyl methanesulfonate	62-50-0	SW 8270	ug/L
Ethylbenzene	100-41-4	SW 8270	ug/L
Famphur	52-85-7	SW 8270	ug/L
Fluoranthene	206-44-0	SW 8270	ug/L
Fluorene	86-73-7	SW 8270	ug/L
Hexachlorobenzene	118-74-1	SW 8270	ug/L
Hexachlorobutadiene	87-68-3	SW 8270	ug/L
Hexachlorocyclopentadiene	77-47-4	SW 8270	ug/L
Hexachloroethane	67-72-1	SW 8270	ug/L
Hexachlorophene	70-30-4	SW 8270	ug/L
Hexachloropropene	1888-71-7	SW 8270	ug/L
Indeno(1,2,3-cd)pyrene	193-39-5	SW 8270	ug/L
~~Iodomethane (Methyl iodide)~~ REPEAT	~~74-88-4~~	~~SW 8270~~	~~ug/L~~
Isodrin	465-73-6	SW 8270	ug/L
Isophorone	78-59-1	SW 8270	ug/L
Isosafrole	120-58-1	SW 8270	ug/L
Kepone	143-50-0	SW 8270	ug/L
Methapyrilene	91-80-5	SW 8270	ug/L
Methyl methanesulfonate	66-27-3	SW 8270	ug/L
Naphthalene	91-20-3	SW 8270	ug/L
Nitrobenzene	98-95-3	SW 8270	ug/L
N-Nitrosodiethylamine	55-18-5	SW 8270	ug/L
N-Nitrosodimethylamine	62-75-9	SW 8270	ug/L
N-Nitrosodi-n-butylamine	924-16-3	SW 8270	ug/L
N-Nitrosodi-n-propylamine	621-64-7	SW 8270	ug/L
N-Nitrosodiphenylamine	86-30-6	SW 8270	ug/L
N-Nitrosomethylethylamine	10595-95-6	SW 8270	ug/L
N-Nitrosomorpholine	59-89-2	SW 8270	ug/L
N-Nitrosopiperidine	100-75-4	SW 8270	ug/L
N-Nitrosopyrrolidine	930-55-2	SW 8270	ug/L
Pentachlorobenzene	608-93-5	SW 8270	ug/L
Pentachloronitrobenzene	82-68-8	SW 8270	ug/L
Pentachlorophenol	87-86-5	SW 8270	ug/L
Phenacetin	62-44-2	SW 8270	ug/L
Phenanthrene	85-01-8	SW 8270	ug/L
Phenol	108-95-2	SW 8270	ug/L
P-Phenylenediamine	106-50-3	SW 8270	ug/L
Pronamide (Kerb)	23950-58-5	SW 8270	ug/L
Propionitrile	107-12-0	SW 8270	ug/L
Pyrene	129-00-0	SW 8270	ug/L
Pyridine	110-86-1	SW 8270	ug/L
Safrole	94-59-7	SW 8270	ug/L
~~Sulfotepp~~ REPEAT	~~3689-24-5~~	~~SW 8270~~	~~ug/L~~

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~~Thionazin~~ REPEAT	~~297-97-2~~	~~SW 8270~~	~~ug/L~~
1,2,3,4,6,7,8-HpCDD	35822-46-9	SW 8290	
1,2,3,4,6,7,8-HpCDF	67562-39-4	SW 8290	
1,2,3,4,7,8,9-HpCDF	55673-89-7	SW 8290	
1,2,3,4,7,8-HxCDD	39227-28-6	SW 8290	
1,2,3,4,7,8-HxCDF	70648-26-9	SW 8290	
1,2,3,6,7,8-HxCDD	57653-85-7	SW 8290	
1,2,3,6,7,8-HxCDF	57117-44-9	SW 8290	
1,2,3,7,8,9-HxCDD	19408-74-3	SW 8290	
1,2,3,7,8,9-HxCDF	72918-21-9	SW 8290	
1,2,3,7,8-PeCDD	40321-76-4	SW 8290	
1,2,3,7,8-PeCDF	57117-41-6	SW 8290	
2,3,4,6,7,8-HxCDF	60851-34-5	SW 8290	
2,3,4,7,8-PeCDF	57117-31-4	SW 8290	
2,3,7,8-TCDD	1746-01-6	SW 8290	pg/L
2,3,7,8-TCDF	51207-31-9	SW 8290	
HpCDD	37871-00-4	SW 8290	
HpCDF	38998-75-3	SW 8290	
HxCDD	34465-46-8	SW 8290	pg/L
HxCDF	55684-94-1	SW 8290	pg/L
OCDD	3268-87-9	SW 8290	
OCDF	39001-02-0	SW 8290	
PeCDD	36088-22-9	SW 8290	pg/L
PeCDF	30402-15-4	SW 8290	pg/L
TCDD	41903-57-5	SW 8290	pg/L
TCDF	30402-14-3	SW 8290	pg/L
Phenolics, total	64743-03-9	EPA 420.1	ug/L

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For WO# 20247389

TABLE 2 MONITORING LIST FOR ANALYSIS
Alabama Wood Treating Corporation
Site Mobile, Alabama

Site-Specific Constituent	CAS #	Method	Units
Cyanide		EPA 335.2	
Sulfide (Sulfate)		EPA 376.2	mg/l
Phenolics, total	64743-03-9	EPA 420.1	ug/l
Arsenic	7440-38-2	SW 6020	mg/l
Copper	7440-50-8	SW 6020	mg/l
Barium		SW 6020	mg/l
Cadmium		SW 6020	mg/l
Chromium		SW 6020	mg/l
Lead		SW 6020	mg/l
Nickel		SW 6020	mg/l
Selenium		SW 6020	mg/l
Antimony		SW 6020	mg/l
Beryllium		SW 6020	mg/l
Silver		SW 6020	mg/l
Thallium		SW 6020	mg/l
Vanadium		SW 6020	mg/l
Zinc		SW 6020	mg/l
Tin		SW 6020	mg/l
Cobalt		SW 6020	mg/l
Mercury		SW 7470	mg/l
Aldrin		SW 8081	ug/l
2,4,5-TP (silvex)		SW 8151	mg/l
Benzene	71-43-2	SW 8260	ug/l
Xylenes, total	1330-20-7	SW 8260	ug/l
1,1-Dichloroethene		SW 8260	ug/l
Acetone		SW 8260	ug/l
Bromodichloromethane		SW 8260	ug/l
Carbon disulfide		SW 8260	ug/l
Chlorobenzene		SW 8260	ug/l
Chloroform		SW 8260	ug/l
cis-1,2-Dichloroethene		SW 8260	ug/l
Toluene		SW 8260	ug/l
trans-1,2-Dichloroethene		SW 8260	ug/l
Trichloroethene (TCE)		SW 8260	ug/l
1,2-Dichloropropane		SW 8260	ug/l
Ethylbenzene		SW 8260	ug/l
Vinyl Chloride		SW 8260	ug/l
1,1-Dichloroethane		SW 8260 ug/	ug/l
1-naphthylamine	134-32-7	SW 8270	ug/l
2-naphthylamine	91-59-8	SW 8270	ug/l
Acenaphthene	83-32-9	SW 8270	ug/l

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Acenaphthylene	208-96-8	SW 8270	ug/l
Anthracene	120-12-7	SW 8270	ug/l
Benzo(a)anthracene	56-55-3	SW 8270	ug/l
Benzo(a)pyrene	50-32-8	SW 8270	ug/l
Benzo(b)fluoranthene	205-99-2	SW 8270	ug/l
Benzo(g,h,i)perylene	191-24-2	SW 8270	ug/l
Benzo(k)fluoranthene	207-08-9	SW 8270	ug/l
Bis(2-ethylhexyl) phthalate	117-81-7	SW 8270	ug/l
Chrysene	218-01-9	SW 8270	ug/l
Dibenzofuran	132-64-9	SW 8270	ug/l
Dimethylphenol 2,4-	105-67-9	SW 8270	ug/l
Di-n-octyl phthalate	117-84-0	SW 8270	ug/l
Fluoranthene	206-44-0	SW 8270	ug/l
Fluorene	86-73-7	SW 8270	ug/l
Hexachloroethane	67-72-1	SW 8270	ug/l
Indeno(1,2,3-cd)pyrene	193-39-5	SW 8270	ug/l
Methylaniline hydrochloride, 2- (o-toluid	95-53-4	SW 8270	ug/l
Methylnaphthalene, 1-	90-12-0	SW 8270	ug/l
Methylnaphthalene, 2-	91-57-6	SW 8270	ug/l
Methylphenol, 4- (p-cresol)	106-44-5	SW 8270	ug/l
Naphthalene	91-20-3	SW 8270	ug/l
N-Nitrosodiphenylamine	86-30-6	SW 8270	ug/l
Pentachlorophenol	87-86-5	SW 8270	ug/l
Phenanthrene	85-01-8	SW 8270	ug/l
Phenol*	108-95-2	SW 8270	ug/l
Pyrene	129-00-0	SW 8270	ug/l
3-Methylphenol		SW 8270	ug/l
1,4-Dioxane		SW 8270	ug/l
1,2,3,4,6,7,8-HpCDD		SW 8290	pg/l
1,2,3,4,6,7,8-HpCDF		SW 8290	pg/l
1,2,3,4,7,8-HxCDD		SW 8290	pg/l
1,2,3,4,7,8-HxCDF		SW 8290	pg/l
1,2,3,4,7,8,9-HpCDF		SW 8290	pg/l
Total HpCDD		SW 8290	pg/l
Total HpCDF		SW 8290	pg/l
Total HxCDD		SW 8290	pg/l
Total HxCDF		SW 8290	pg/l
Total OCDD		SW 8290	pg/l
Total OCDF		SW 8290	pg/l
Total TCDD		SW 8290	pg/l
Total TCDF		SW 8290	pg/l
Total PeCDD		SW 8290	pg/l
Total PeCDF		SW 8290	pg/l
1,2,3,6,7,8-HxCDD		SW 8290	pg/l
1,2,3,6,7,8-HxCDF		SW 8290	pg/l
1,2,3,7,8,9-HxCDD		SW 8290	pg/l
1,2,3,7,8,9-HxCDF		SW 8290	pg/l

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1,2,3,7,8-PeCDD		SW 8290	pg/l
1,2,3,7,8-PeCDF		SW 8290	pg/l
2,3,4,6,7,8-HxCDF		SW 8290	pg/l
2,3,4,7,8-PeCDF		SW 8290	pg/l
2,3,7,8-TCDD		SW 8290	pg/l
2,3,7,8-TCDF		SW 8290	pg/l

3/3

Table 2	Additional Information	Number Of Samples	Lab
EPA 335.4	Cyanide	29	PGC
EPA 420	Total Phenols	29	PGC
EPA 6020	As, Cu, Ba, Cd, Cr, Co, Pb, Ni, Se, Sb, Be, Ag, Tl, V, Zn, Sn	29	St. Rose
EPA 7470B	Hg	29	PGC
EPA 8081	Organochlorine Pesticides - Aldrin	29	Pace National
EPA 8151	Herbicides	29	Pace National
EPA 8260	VOC	29	Pace National
EPA 8270	SVOC Full List	29	Pace National
EPA 8290	Tetra-Octa (all 17 compounds)	29	Minneapolis
SM 4500	Sulfide	29	St. Rose

Table 3	Additional Information	Number of Samples	Lab
EPA 7470	Hg	3	PGC
EPA 335.4*	Cyanide	3	PGC
EPA 420	Total Phenols	3	PGC
EPA 6020	As, Cu, Ba, Cd, Cr, Co, Pb, Ni, Se, Sb, Be, Ag, Tl, V, Zn, Sn	3	St. Rose
EPA 8011	1,2-Dibromomethane & 1,2 Dibromo-3-chloropropane	3	Pace National
EPA 8081	Organochlorine Pesticides - Aldrin	3	Pace National
EPA 8082	PCBs	3	PGC
EPA 8141	Pesticides, Organophosphorus	3	Pace National
EPA 8151	Herbicides	3	Pace National
EPA 8260	VOC	3	Pace National
EPA 8270	SVOC Full List	3	Pace National
EPA 8290	Tetra-Octa (all 17 compounds)	3	Minneapolis
SM 4500	Sulfide	3	St. Rose

QC			
EPA 8260	VOCs - Trip Blank	4	Pace National

Internal Transfer Chain of Custody

WO# : 10614012

10614012

☐ Samples Pre-Logged into eCOC.

State Of Origin: AL

Cert. Needed: ☐ Yes

Workorder: 20247389 **Workorder Name:** Alabama Wood Treating

Owner Received Date: 6/21/2022 **Results Requested By:** 7/6/2022

Report To

Mary Kathryn Brenner
Pace Analytical Mobile Labs
4320 Midmost Dr
Mobile, AL 36609
USA
Phone 251-344-9106

Subcontract To

Pace Analytical Minneapolis
1700 Elm Street SE
Minneapolis, MN 55414
Phone (612)607-1700

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Requested Analysis: 8290	LAB USE ONLY
1	6-I	PS	6/21/2022 08:00	20247389001	Water	1	X	
2	6-S	PS	6/21/2022 08:00	20247389002	Water	1	X	
3	7-D	PS	6/21/2022 08:00	20247389003	Water	1	X	
4	7-IR	PS	6/21/2022 08:00	20247389004	Water	1	X	
5	7-S	PS	6/21/2022 08:00	20247389005	Water	1	X	
6	8-D	PS	6/21/2022 08:00	20247389006	Water	1	X	
7	8-DK	PS	6/21/2022 08:00	20247389007	Water	1	X	
8	8-I	PS	6/21/2022 08:00	20247389008	Water	1	X	
9	9-I	PS	6/20/2022 15:50	20247389009	Water	1	X	T2 (01)
10	8-S	PS	6/21/2022 08:00	20247389010	Water	1	X	
11	15-D	PS	6/20/2022 16:20	20247389011	Water	1	X	T2 (02)
12	15-I	PS	6/21/2022 08:00	20247389012	Water	1	X	
13	15-S	PS	6/20/2022 17:05	20247389013	Water	1	X	T2 (03)
14	16-D	PS	6/20/2022 13:30	20247389014	Water	1	X	T2 (04)
15	16-I	PS	6/20/2022 14:20	20247389015	Water	1	X	T2 (05)
16	17-D	PS	6/21/2022 08:00	20247389016	Water	1	X	
17	19-SR	PS	6/20/2022 09:40	20247389017	Water	1	X	T2 (06)
18	21-I	PS	6/21/2022 08:00	20247389018	Water	1	X	
19	23-D	PS	6/21/2022 08:00	20247389019	Water	1	X	

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: AL
Cert. Needed: ☐ Yes ☐ No

Workorder: 20247389 **Workorder Name:** Alabama Wood Treating
Owner Received Date: 6/21/2022 **Results Requested By:** 7/6/2022

Report To

Mary Kathryn Brenner
Pace Analytical Mobile Labs
4320 Midmost Dr
Mobile, AL 36609
USA
Phone 251-344-9106

Subcontract To

Pace Analytical Minneapolis
1700 Elm Street SE
Minneapolis, MN 55414
Phone (612)607-1700

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Requested Analysis: 8290	LAB USE ONLY
20	23-I	PS	6/21/2022 08:00	20247389020	Water	1	X	
21	31-DR	PS	6/20/2022 11:20	20247389021	Water	1	X	T2 007
22	31-IR	PS	6/20/2022 10:00	20247389022	Water	1	X	T2 008
23	32-I	PS	6/20/2022 11:45	20247389023	Water	1	X	T2 009
24	32-S	PS	6/20/2022 12:52	20247389024	Water	1	X	T2 010
25	Equipment Blank 1	PS	6/20/2022 07:25	20247389025	Water	1	X	T2 011
26	Equipment Blank 2	PS	6/20/2022 07:45	20247389026	Water	1	X	T2 012
27	Equipment Blank 3	PS	6/20/2022 08:05	20247389027	Water	1	X	T2 013
28	Equipment Blank 4	PS	6/21/2022 08:00	20247389028	Water	1	X	
29	Equipment Blank 5	PS	6/21/2022 08:00	20247389029	Water	1	X	
30	Equipment Blank 6	PS	6/21/2022 08:00	20247389030	Water	1	X	
31	Field Dup 1	PS	6/21/2022 08:00	20247389031	Water	1	X	
32	Field Dup 2	PS	6/21/2022 08:00	20247389032	Water	1	X	

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	Kyle A. Williams	6/21/2022 1530	PACE	6-22/8:00	IR10 Report with MDL and J Flags. All highlighted samples are included in this shipment. Collection date/time for other samples are subject to change.
2					
3					

Cooler Temperature on Receipt 2.5 °C	Custody Seal Y or (N)	Received on Ice (Y) or N	Samples Intact (Y) or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
This chain of custody is considered complete as is since this information is available in the owner laboratory.

T2 = Table 2

DC#_Title: ENV-FRM-MIN4-0150 v05_Sample Condition Upon Receipt (SCUR)

Effective Date: 04/12/2022

Sample Condition Upon Receipt

Client Name: PACE, AL

Project #: WO#: 10614012

PM: SCU Due Date: 07/14/22

CLIENT: PASI-NOLA

Courier: ☒Fed Ex ☐UPS ☐USPS ☐Client ☐Pace ☐SpeeDee ☐Commercial

See Exceptions ☐ENV-FRM-MIN4-0142

Tracking Number: 5844 1647 5337

Custody Seal on Cooler/Box Present? ☐Yes ☒No Seals Intact? ☐Yes ☒No Biological Tissue Frozen? ☐Yes ☐No ☒N/A

Packing Material: ☒Bubble Wrap ☒Bubble Bags ☐None ☐Other: Temp Blank? ☒Yes ☐No

Thermometer: ☐T1(0461) ☒T2(1336) ☐T3(0459) ☐T4(0254) ☐T5(0489) ☐T6(0235) ☐T7 (0042) ☐01339252/1710 ☐122639816 ☐140792808

Type of Ice: ☒Wet ☐Blue ☐None ☐Dry ☐Melted

Did Samples Originate in West Virginia? ☐Yes ☒No Were All Container Temps Taken? ☐Yes ☐No ☒N/A

Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: 2.5 °C

Correction Factor: TRUE Cooler Temp Corrected w/temp blank: 2.5 °C

Average Corrected Temp (no temp blank only): °C ☐See Exceptions ENV-FRM-MIN4-0142 ☐1 Container

USDA Regulated Soil: (☒ N/A, water sample/Other:) Date/Initials of Person Examining Contents: JM 6-22-22

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐Yes ☐No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐Yes ☐No

If Yes to either question, fill out a Regulated Soil Checklist ENV-FRM-MIN4-0154 and include with SCUR/COC paperwork.

Location (check one): ☐ Duluth ☒ Minneapolis ☐ Virginia

				COMMENTS:
Chain of Custody Present and Filled Out?	☒Yes	☐No		1.
Chain of Custody Relinquished?	☒Yes	☐No		2.
Sampler Name and/or Signature on COC?	☒Yes	☐No	☐N/A	3.
Samples Arrived within Hold Time?	☒Yes	☐No		4. If Fecal: ☐<8 hrs ☐>8hr, <24 hrs, ☐>24 hrs
Short Hold Time Analysis (<72 hr)?	☐Yes	☒No		5. ☐Fecal Coliform ☐HPC ☐Total Coliform/E coli ☐BOD/cBOD ☐Hex Chrome ☐Turbidity ☐Nitrate ☐Nitrite ☐Orthophos ☐Other
Rush Turn Around Time Requested?	☐Yes	☒No		6.
Sufficient Volume?	☒Yes	☐No		7.
Correct Containers Used? -Pace Containers Used?	☒Yes ☒Yes	☐No ☐No		8.
Containers Intact?	☒Yes	☐No		9.
Field Filtered Volume Received for Dissolved Tests?	☐Yes	☐No	☒N/A	10. Is sediment visible in the dissolved container? ☐Yes ☐No
Is sufficient information available to reconcile the samples to the COC? Matrix: ☒Water ☐Soil ☐Oil ☐Other-	☒Yes	☐No		11. If no, write ID/ Date/Time on Container Below: ☐See Exception ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	☐Yes	☐No	☒N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	☐Yes	☐No	☒N/A	☐ NaOH ☐ HNO_3 ☐ H_2SO_4 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐Yes	☐No	☒N/A	Positive for Res. Chlorine? ☐Yes ☐No pH Paper Lot# ☐See Exception ENV-FRM-MIN4-0142
				Res. Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Headspace in Methyl Mercury Container?	☐Yes	☐No	☒N/A	
Extra labels present on soil VOA or WIDRO containers?	☐Yes	☐No	☒N/A	13. ☐See Exception ENV-FRM-MIN4-0140
Headspace in VOA Vials (greater than 6mm)?	☐Yes	☐No	☒N/A	
Trip Blank Present?	☐Yes	☐No	☒N/A	14.
Trip Blank Custody Seals Present?	☐Yes	☐No	☒N/A	Pace Trip Blank Lot # (if purchased):

CLIENT NOTIFICATION/RESOLUTION Field Data Required? ☐Yes ☐No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Date: 06/23/22

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: JM

Table 2	Additional Information	Number Of Samples	Lab
EPA 335.4	Cyanide	29	PGC
EPA 420	Total Phenols	29	PGC
EPA 6020	As, Cu, Ba, Cd, Cr, Co, Pb, Ni, Se, Sb, Be, Ag, Tl, V, Zn, Sn	29	St. Rose
EPA 7470B	Hg	29	PGC
EPA 8081	Organochlorine Pesticides - Aldrin	29	Pace National
EPA 8151	Herbicides	29	Pace National
EPA 8260	VOC	29	Pace National
EPA 8270	SVOC Full List	29	Pace National
EPA 8290	Tetra-Octa (all 17 compounds)	29	Minneapolis
SM 4500	Sulfide	29	St. Rose

Table 3	Additional Information	Number of Samples	Lab
EPA 7470	Hg	3	PGC
EPA 335.4*	Cyanide	3	PGC
EPA 420	Total Phenols	3	PGC
EPA 6020	As, Cu, Ba, Cd, Cr, Co, Pb, Ni, Se, Sb, Be, Ag, Tl, V, Zn, Sn	3	St. Rose
EPA 8011	1,2-Dibromomethane & 1,2 Dibromo-3-chloropropane	3	Pace National
EPA 8081	Organochlorine Pesticides - Aldrin	3	Pace National
EPA 8082	PCBs	3	PGC
EPA 8141	Pesticides, Organophosphorus	3	Pace National
EPA 8151	Herbicides	3	Pace National
EPA 8260	VOC	3	Pace National
EPA 8270	SVOC Full List	3	Pace National
EPA 8290	Tetra-Octa (all 17 compounds)	3	Minneapolis
SM 4500	Sulfide	3	St. Rose

QC			
EPA 8260	VOCs - Trip Blank	4	Pace National

For WO#20247389 MN

TABLE 2 MONITORING LIST FOR ANALYSIS
Alabama Wood Treating Corporation
Site Mobile, Alabama

Site-Specific Constituent	CAS #	Method	Units
Cyanide		EPA 335.2	
Sulfide (Sulfate)		EPA 376.2	mg/l
Phenolics, total	64743-03-9	EPA 420.1	ug/l
Arsenic	7440-38-2	SW 6020	mg/l
Copper	7440-50-8	SW 6020	mg/l
Barium		SW 6020	mg/l
Cadmium		SW 6020	mg/l
Chromium		SW 6020	mg/l
Lead		SW 6020	mg/l
Nickel		SW 6020	mg/l
Selenium		SW 6020	mg/l
Antimony		SW 6020	mg/l
Beryllium		SW 6020	mg/l
Silver		SW 6020	mg/l
Thallium		SW 6020	mg/l
Vanadium		SW 6020	mg/l
Zinc		SW 6020	mg/l
Tin		SW 6020	mg/l
Cobalt		SW 6020	mg/l
Mercury		SW 7470	mg/l
Aldrin		SW 8081	ug/l
2,4,5-TP (silvex)		SW 8151	mg/l
Benzene	71-43-2	SW 8260	ug/l
Xylenes, total	1330-20-7	SW 8260	ug/l
1,1-Dichloroethene		SW 8260	ug/l
Acetone		SW 8260	ug/l
Bromodichloromethane		SW 8260	ug/l
Carbon disulfide		SW 8260	ug/l
Chlorobenzene		SW 8260	ug/l
Chloroform		SW 8260	ug/l
cis-1,2-Dichloroethene		SW 8260	ug/l
Toluene		SW 8260	ug/l
trans-1,2-Dichloroethene		SW 8260	ug/l
Trichloroethene (TCE)		SW 8260	ug/l
1,2-Dichloropropane		SW 8260	ug/l
Ethylbenzene		SW 8260	ug/l
Vinyl Chloride		SW 8260	ug/l
1,1-Dichloroethane		SW 8260 ug/	ug/l
1-naphthylamine	134-32-7	SW 8270	ug/l
2-naphthylamine	91-59-8	SW 8270	ug/l
Acenaphthene	83-32-9	SW 8270	ug/l

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Acenaphthylene	208-96-8	SW 8270	ug/l
Anthracene	120-12-7	SW 8270	ug/l
Benzo(a)anthracene	56-55-3	SW 8270	ug/l
Benzo(a)pyrene	50-32-8	SW 8270	ug/l
Benzo(b)fluoranthene	205-99-2	SW 8270	ug/l
Benzo(g,h,i)perylene	191-24-2	SW 8270	ug/l
Benzo(k)fluoranthene	207-08-9	SW 8270	ug/l
Bis(2-ethylhexyl) phthalate	117-81-7	SW 8270	ug/l
Chrysene	218-01-9	SW 8270	ug/l
Dibenzofuran	132-64-9	SW 8270	ug/l
Dimethylphenol 2,4-	105-67-9	SW 8270	ug/l
Di-n-octyl phthalate	117-84-0	SW 8270	ug/l
Fluoranthene	206-44-0	SW 8270	ug/l
Fluorene	86-73-7	SW 8270	ug/l
Hexachloroethane	67-72-1	SW 8270	ug/l
Indeno(1,2,3-cd)pyrene	193-39-5	SW 8270	ug/l
Methylaniline hydrochloride, 2- (o-toluid	95-53-4	SW 8270	ug/l
Methylnaphthalene, 1-	90-12-0	SW 8270	ug/l
Methylnaphthalene, 2-	91-57-6	SW 8270	ug/l
Methylphenol, 4- (p-cresol)	106-44-5	SW 8270	ug/l
Naphthalene	91-20-3	SW 8270	ug/l
N-Nitrosodiphenylamine	86-30-6	SW 8270	ug/l
Pentachlorophenol	87-86-5	SW 8270	ug/l
Phenanthrene	85-01-8	SW 8270	ug/l
Phenol*	108-95-2	SW 8270	ug/l
Pyrene	129-00-0	SW 8270	ug/l
3-Methylphenol		SW 8270	ug/l
1,4-Dioxane		SW 8270	ug/l
1,2,3,4,6,7,8-HpCDD		SW 8290	pg/l
1,2,3,4,6,7,8-HpCDF		SW 8290	pg/l
1,2,3,4,7,8-HxCDD		SW 8290	pg/l
1,2,3,4,7,8-HxCDF		SW 8290	pg/l
1,2,3,4,7,8,9-HpCDF		SW 8290	pg/l
Total HpCDD		SW 8290	pg/l
Total HpCDF		SW 8290	pg/l
Total HxCDD		SW 8290	pg/l
Total HxCDF		SW 8290	pg/l
Total OCDD		SW 8290	pg/l
Total OCDF		SW 8290	pg/l
Total TCDD		SW 8290	pg/l
Total TCDF		SW 8290	pg/l
Total PeCDD		SW 8290	pg/l
Total PeCDF		SW 8290	pg/l
1,2,3,6,7,8-HxCDD		SW 8290	pg/l
1,2,3,6,7,8-HxCDF		SW 8290	pg/l
1,2,3,7,8,9-HxCDD		SW 8290	pg/l
1,2,3,7,8,9-HxCDF		SW 8290	pg/l

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1,2,3,7,8-PeCDD		SW 8290	pg/l
1,2,3,7,8-PeCDF		SW 8290	pg/l
2,3,4,6,7,8-HxCDF		SW 8290	pg/l
2,3,4,7,8-PeCDF		SW 8290	pg/l
2,3,7,8-TCDD		SW 8290	pg/l
2,3,7,8-TCDF		SW 8290	pg/l

3/3

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Reporting Flags

A = Reporting Limit based on signal to noise (EDL)

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

I = Isotope ratio out of specification

J = Estimated value

L = Suppressive interference, analyte may be biased low

Nn = Value obtained from additional analysis

P = PCDEInterference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

* = SeeDiscussion

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Appendix B

Sample Analysis Summary

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	6-I		
Lab Sample ID	20247389001		
Filename	L220629A_15		
Injected By	SMT		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 10:55
ICAL ID	L220428	Received	06/23/2022 09:30
CCal Filename(s)	L220629A_01 & L220629A_18	Extracted	06/24/2022 13:30
Method Blank ID	BLANK-99639	Analyzed	06/29/2022 20:14

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	77
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	68
				1,2,3,7,8-PeCDF-13C	2.00	61
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	89
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	85
				1,2,3,4,7,8-HxCDF-13C	2.00	35 R
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	73
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	80
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	41
				1,2,3,4,7,8-HxCDD-13C	2.00	59
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	67
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	38 R
				1,2,3,4,7,8,9-HpCDF-13C	2.00	54
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	55
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	53
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	83
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

R = Recovery outside target range

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	6-S		
Lab Sample ID	20247389002		
Filename	L220629A_16		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 09:45
ICAL ID	L220428	Received	06/23/2022 09:30
CCal Filename(s)	L220629A_01 & L220629A_18	Extracted	06/24/2022 13:30
Method Blank ID	BLANK-99639	Analyzed	06/29/2022 20:58

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	70
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	61
				1,2,3,7,8-PeCDF-13C	2.00	57
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	77
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	77
				1,2,3,4,7,8-HxCDF-13C	2.00	41
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	69
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	73
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	42
				1,2,3,4,7,8-HxCDD-13C	2.00	52
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	63
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	39 R
				1,2,3,4,7,8,9-HpCDF-13C	2.00	50
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	52
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	50
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

R = Recovery outside target range

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	7-D		
Lab Sample ID	20247389003		
Filename	F220629A_05		
Injected By	SMT		
Total Amount Extracted	1020 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 08:20
ICAL ID	F220529	Received	06/23/2022 09:30
CCal Filename(s)	F220629A_03 & F220629A_19	Extracted	06/24/2022 13:30
Method Blank ID	BLANK-99639	Analyzed	06/29/2022 12:16

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	85
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	86
				1,2,3,7,8-PeCDF-13C	2.00	85
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	87
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	92
				1,2,3,4,7,8-HxCDF-13C	2.00	91
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	83
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	89
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	82
				1,2,3,4,7,8-HxCDD-13C	2.00	93
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	97
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	90
				1,2,3,4,7,8,9-HpCDF-13C	2.00	77
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	94
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	61
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	7-IR		
Lab Sample ID	20247389004		
Filename	F220629A_06		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 09:20
ICAL ID	F220529	Received	06/23/2022 09:30
CCal Filename(s)	F220629A_03 & F220629A_19	Extracted	06/24/2022 13:30
Method Blank ID	BLANK-99639	Analyzed	06/29/2022 13:02

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	88
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	90
				1,2,3,7,8-PeCDF-13C	2.00	87
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	88
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	95
				1,2,3,4,7,8-HxCDF-13C	2.00	103
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	90
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	100
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	89
				1,2,3,4,7,8-HxCDD-13C	2.00	106
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	107
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	95
				1,2,3,4,7,8,9-HpCDF-13C	2.00	80
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	100
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	65
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	82
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	7-S		
Lab Sample ID	20247389005		
Filename	F220629A_07		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 08:10
ICAL ID	F220529	Received	06/23/2022 09:30
CCal Filename(s)	F220629A_03 & F220629A_19	Extracted	06/24/2022 13:30
Method Blank ID	BLANK-99639	Analyzed	06/29/2022 13:47

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	73
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	76
				1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	82
				1,2,3,4,7,8-HxCDF-13C	2.00	88
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	75
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	83
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	75
				1,2,3,4,7,8-HxCDD-13C	2.00	89
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	89
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	79
				1,2,3,4,7,8,9-HpCDF-13C	2.00	69
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	85
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	54
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414

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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	8-D		
Lab Sample ID	20247389006		
Filename	F220629B_02		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 15:10
ICAL ID	F220529	Received	06/23/2022 09:30
CCal Filename(s)	F220629A_19 & F220629B_08	Extracted	06/24/2022 13:30
Method Blank ID	BLANK-99639	Analyzed	06/30/2022 00:25

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	88
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	88
				1,2,3,7,8-PeCDF-13C	2.00	86
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	90
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	93
				1,2,3,4,7,8-HxCDF-13C	2.00	98
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	88
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	92
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	85
				1,2,3,4,7,8-HxCDD-13C	2.00	96
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	106
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	94
				1,2,3,4,7,8,9-HpCDF-13C	2.00	77
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	98
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	85 Y
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	75
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414

Tel: 612-607-1700
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	8-DK		
Lab Sample ID	20247389007		
Filename	F220629A_08		
Injected By	SMT		
Total Amount Extracted	1010 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/22/2022 08:40
ICAL ID	F220529	Received	06/23/2022 09:30
CCal Filename(s)	F220629A_03 & F220629A_19	Extracted	06/24/2022 13:30
Method Blank ID	BLANK-99639	Analyzed	06/29/2022 14:33

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	73
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	76
				1,2,3,7,8-PeCDF-13C	2.00	73
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	82
				1,2,3,4,7,8-HxCDF-13C	2.00	85
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	74
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	73
				1,2,3,4,7,8-HxCDD-13C	2.00	88
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	87
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	77
				1,2,3,4,7,8,9-HpCDF-13C	2.00	68
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	79
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	54
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	83
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	8-I		
Lab Sample ID	20247389008		
Filename	F220629A_09		
Injected By	SMT		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/22/2022 08:40
ICAL ID	F220529	Received	06/23/2022 09:30
CCal Filename(s)	F220629A_03 & F220629A_19	Extracted	06/24/2022 13:30
Method Blank ID	BLANK-99697	Analyzed	06/29/2022 15:18

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	88
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	88
				1,2,3,7,8-PeCDF-13C	2.00	91
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	89
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	95
				1,2,3,4,7,8-HxCDF-13C	2.00	99
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	89
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	96
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	91
				1,2,3,4,7,8-HxCDD-13C	2.00	104
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	103
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	94
				1,2,3,4,7,8,9-HpCDF-13C	2.00	82
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	100
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	67
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	74
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	9-I		
Lab Sample ID	20247389009		
Filename	F220629A_10		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/20/2022 15:50
ICAL ID	F220529	Received	06/22/2022 08:50
CCal Filename(s)	F220629A_03 & F220629A_19	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/29/2022 16:04

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	81
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	84
				1,2,3,7,8-PeCDF-13C	2.00	81
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	80
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	87
				1,2,3,4,7,8-HxCDF-13C	2.00	98
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	85
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	92
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	84
				1,2,3,4,7,8-HxCDD-13C	2.00	95
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	103
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	91
				1,2,3,4,7,8,9-HpCDF-13C	2.00	77
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	87
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	64
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	8-S		
Lab Sample ID	20247389010		
Filename	F220629A_11		
Injected By	SMT		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 15:00
ICAL ID	F220529	Received	06/23/2022 09:30
CCal Filename(s)	F220629A_03 & F220629A_19	Extracted	06/24/2022 13:30
Method Blank ID	BLANK-99697	Analyzed	06/29/2022 16:49

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	92
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	93
				1,2,3,7,8-PeCDF-13C	2.00	92
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	93
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	102
				1,2,3,4,7,8-HxCDF-13C	2.00	101
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	92
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	98
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	88
				1,2,3,4,7,8-HxCDD-13C	2.00	107
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	103
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	97
				1,2,3,4,7,8,9-HpCDF-13C	2.00	87
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	103
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	67
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	81
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	15-D		
Lab Sample ID	20247389011		
Filename	F220629A_12		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/20/2022 16:20
ICAL ID	F220529	Received	06/22/2022 08:50
CCal Filename(s)	F220629A_03 & F220629A_19	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/29/2022 17:35

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	87
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	90
				1,2,3,7,8-PeCDF-13C	2.00	88
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	89
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	97
				1,2,3,4,7,8-HxCDF-13C	2.00	108
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	91
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	99
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	94
				1,2,3,4,7,8-HxCDD-13C	2.00	107
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	113
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	101
				1,2,3,4,7,8,9-HpCDF-13C	2.00	85
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	97
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	69
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	91
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
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NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	15-I		
Lab Sample ID	20247389012		
Filename	F220629A_13		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 16:30
ICAL ID	F220529	Received	06/23/2022 09:30
CCal Filename(s)	F220629A_03 & F220629A_19	Extracted	06/24/2022 13:30
Method Blank ID	BLANK-99697	Analyzed	06/29/2022 18:21

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	82
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	83
				1,2,3,7,8-PeCDF-13C	2.00	83
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	83
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	89
				1,2,3,4,7,8-HxCDF-13C	2.00	98
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	83
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	89
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	85
				1,2,3,4,7,8-HxCDD-13C	2.00	97
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	98
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	92
				1,2,3,4,7,8,9-HpCDF-13C	2.00	79
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	93
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	82
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414

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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	15-S		
Lab Sample ID	20247389013		
Filename	F220629A_14		
Injected By	SMT		
Total Amount Extracted	1020 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/20/2022 17:05
ICAL ID	F220529	Received	06/22/2022 08:50
CCal Filename(s)	F220629A_03 & F220629A_19	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/29/2022 19:06

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	71
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	73
				1,2,3,7,8-PeCDF-13C	2.00	72
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	72
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	80
				1,2,3,4,7,8-HxCDF-13C	2.00	106
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	84
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	92
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	87
				1,2,3,4,7,8-HxCDD-13C	2.00	97
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	103
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	90
				1,2,3,4,7,8,9-HpCDF-13C	2.00	75
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	78
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	62
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	72
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	16-D		
Lab Sample ID	20247389014		
Filename	F220629A_15		
Injected By	SMT		
Total Amount Extracted	1000 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/20/2022 13:30
ICAL ID	F220529	Received	06/22/2022 08:50
CCal Filename(s)	F220629A_03 & F220629A_19	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/29/2022 19:52

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	82
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	84
				1,2,3,7,8-PeCDF-13C	2.00	80
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	81
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	88
				1,2,3,4,7,8-HxCDF-13C	2.00	111
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	94
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	101
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	93
				1,2,3,4,7,8-HxCDD-13C	2.00	110
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	113
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	100
				1,2,3,4,7,8,9-HpCDF-13C	2.00	82
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	90
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	67
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	16-I		
Lab Sample ID	20247389015		
Filename	F220629A_16		
Injected By	SMT		
Total Amount Extracted	1010 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/20/2022 14:20
ICAL ID	F220529	Received	06/22/2022 08:50
CCal Filename(s)	F220629A_03 & F220629A_19	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/29/2022 20:38

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	83
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	86
				1,2,3,7,8-PeCDF-13C	2.00	81
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	82
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	89
				1,2,3,4,7,8-HxCDF-13C	2.00	118
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	96
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	107
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	96
				1,2,3,4,7,8-HxCDD-13C	2.00	118
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	115
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	99
				1,2,3,4,7,8,9-HpCDF-13C	2.00	83
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	86
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	69
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	80
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	17-D		
Lab Sample ID	20247389016		
Filename	F220629A_17		
Injected By	SMT		
Total Amount Extracted	1010 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/22/2022 11:15
ICAL ID	F220529	Received	06/23/2022 09:30
CCal Filename(s)	F220629A_03 & F220629A_19	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/29/2022 21:23

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	85
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	87
				1,2,3,7,8-PeCDF-13C	2.00	85
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	86
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	93
				1,2,3,4,7,8-HxCDF-13C	2.00	119
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	99
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	109
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	99
				1,2,3,4,7,8-HxCDD-13C	2.00	113
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	117
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	106
				1,2,3,4,7,8,9-HpCDF-13C	2.00	90
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	102
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	71
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	19-SR		
Lab Sample ID	20247389017		
Filename	F220629A_18		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/20/2022 09:40
ICAL ID	F220529	Received	06/22/2022 08:50
CCal Filename(s)	F220629A_03 & F220629A_19	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/29/2022 22:09

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	78
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	80
				1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	77
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	86
				1,2,3,4,7,8-HxCDF-13C	2.00	109
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	88
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	98
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	91
				1,2,3,4,7,8-HxCDD-13C	2.00	110
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	102
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	93
				1,2,3,4,7,8,9-HpCDF-13C	2.00	75
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	81
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	80
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	21-I		
Lab Sample ID	20247389018		
Filename	F220629B_03		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 13:30
ICAL ID	F220529	Received	06/23/2022 09:30
CCal Filename(s)	F220629A_19 & F220629B_08	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/30/2022 01:11

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	91
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	92
				1,2,3,7,8-PeCDF-13C	2.00	90
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	92
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	100
				1,2,3,4,7,8-HxCDF-13C	2.00	123
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	102
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	111
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	104
				1,2,3,4,7,8-HxCDD-13C	2.00	116
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	125
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	110
				1,2,3,4,7,8,9-HpCDF-13C	2.00	92
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	101
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	104 Y
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	23-D		
Lab Sample ID	20247389019		
Filename	F220629B_04		
Injected By	SMT		
Total Amount Extracted	1020 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 11:15
ICAL ID	F220529	Received	06/23/2022 09:30
CCal Filename(s)	F220629A_19 & F220629B_08	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/30/2022 01:57

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	87
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	88
				1,2,3,7,8-PeCDF-13C	2.00	86
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	87
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	93
				1,2,3,4,7,8-HxCDF-13C	2.00	115
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	100
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	108
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	100
				1,2,3,4,7,8-HxCDD-13C	2.00	116
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	120
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	105
				1,2,3,4,7,8,9-HpCDF-13C	2.00	85
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	91
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	96 Y
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	83
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	23-I		
Lab Sample ID	20247389020		
Filename	F220629B_05		
Injected By	SMT		
Total Amount Extracted	979 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 12:05
ICAL ID	F220529	Received	06/23/2022 09:30
CCal Filename(s)	F220629A_19 & F220629B_08	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/30/2022 02:42

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	52
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	55
				1,2,3,7,8-PeCDF-13C	2.00	54
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	49
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	55
				1,2,3,4,7,8-HxCDF-13C	2.00	71
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	58
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	60
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	61
				1,2,3,4,7,8-HxCDD-13C	2.00	67
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	68
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	65
				1,2,3,4,7,8,9-HpCDF-13C	2.00	53
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	55
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	60 Y
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	61
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	31-DR		
Lab Sample ID	20247389021		
Filename	F220629B_06		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/20/2022 11:20
ICAL ID	F220529	Received	06/22/2022 08:50
CCal Filename(s)	F220629A_19 & F220629B_08	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/30/2022 03:28

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	76
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	79
				1,2,3,7,8-PeCDF-13C	2.00	75
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	77
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	83
				1,2,3,4,7,8-HxCDF-13C	2.00	119
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	90
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	103
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	92
				1,2,3,4,7,8-HxCDD-13C	2.00	114
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	109
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	104
				1,2,3,4,7,8,9-HpCDF-13C	2.00	84
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	89
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	96 Y
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	75
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	31-IR		
Lab Sample ID	20247389022		
Filename	F220629B_07		
Injected By	SMT		
Total Amount Extracted	1020 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/20/2022 10:00
ICAL ID	F220529	Received	06/22/2022 08:50
CCal Filename(s)	F220629A_19 & F220629B_08	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/30/2022 04:13

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	80
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	85
				1,2,3,7,8-PeCDF-13C	2.00	82
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	84
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	89
				1,2,3,4,7,8-HxCDF-13C	2.00	91
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	79
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	86
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	80
				1,2,3,4,7,8-HxCDD-13C	2.00	95
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	93
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	81
				1,2,3,4,7,8,9-HpCDF-13C	2.00	71
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	88
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	78 Y
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	77
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	32-I		
Lab Sample ID	20247389023		
Filename	L220629B_02		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/20/2022 11:45
ICAL ID	L220428	Received	06/22/2022 08:50
CCal Filename(s)	L220629A_18 & L220629B_08	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/29/2022 23:54

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	91
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	82
				1,2,3,7,8-PeCDF-13C	2.00	66
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	107
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	98
				1,2,3,4,7,8-HxCDF-13C	2.00	45
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	84
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	92
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	49
				1,2,3,4,7,8-HxCDD-13C	2.00	68
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	81
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	31 R
				1,2,3,4,7,8,9-HpCDF-13C	2.00	25 R
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	52
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	62
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	77
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

R = Recovery outside target range

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	32-S		
Lab Sample ID	20247389024		
Filename	L220629B_03		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/20/2022 12:52
ICAL ID	L220428	Received	06/22/2022 08:50
CCal Filename(s)	L220629A_18 & L220629B_08	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/30/2022 00:38

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	76
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	69
				1,2,3,7,8-PeCDF-13C	2.00	65
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	90
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	82
				1,2,3,4,7,8-HxCDF-13C	2.00	34 R
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	57
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	77
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	41
				1,2,3,4,7,8-HxCDD-13C	2.00	53
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	69
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	31 R
				1,2,3,4,7,8,9-HpCDF-13C	2.00	48
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	52
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	57
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	76
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

R = Recovery outside target range

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	Equipment Blank 1		
Lab Sample ID	20247389025		
Filename	L220629B_04		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/20/2022 07:25
ICAL ID	L220428	Received	06/22/2022 08:50
CCal Filename(s)	L220629A_18 & L220629B_08	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/30/2022 01:22

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	83
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	75
				1,2,3,7,8-PeCDF-13C	2.00	64
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	97
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	88
				1,2,3,4,7,8-HxCDF-13C	2.00	37 R
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	51
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	83
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	42
				1,2,3,4,7,8-HxCDD-13C	2.00	63
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	67
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	35 R
				1,2,3,4,7,8,9-HpCDF-13C	2.00	52
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	54
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	59
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	82
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

R = Recovery outside target range

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	Equipment Blank 2		
Lab Sample ID	20247389026		
Filename	L220629B_05		
Injected By	SMT		
Total Amount Extracted	1010 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/20/2022 07:45
ICAL ID	L220428	Received	06/22/2022 08:50
CCal Filename(s)	L220629A_18 & L220629B_08	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/30/2022 02:06

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	87
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	80
				1,2,3,7,8-PeCDF-13C	2.00	58
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	100
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	86
				1,2,3,4,7,8-HxCDF-13C	2.00	49
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	85
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	88
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	54
				1,2,3,4,7,8-HxCDD-13C	2.00	69
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	46
				1,2,3,4,7,8,9-HpCDF-13C	2.00	65
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	69
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	67
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	73
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	Equipment Blank 3		
Lab Sample ID	20247389027		
Filename	L220629B_06		
Injected By	SMT		
Total Amount Extracted	998 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/20/2022 08:05
ICAL ID	L220428	Received	06/22/2022 08:50
CCal Filename(s)	L220629A_18 & L220629B_08	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/30/2022 02:50

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	86
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	78
				1,2,3,7,8-PeCDF-13C	2.00	69
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	97
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	92
				1,2,3,4,7,8-HxCDF-13C	2.00	47
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	79
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	83
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	45
				1,2,3,4,7,8-HxCDD-13C	2.00	68
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	73
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	30 R
				1,2,3,4,7,8,9-HpCDF-13C	2.00	44
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	53
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	53
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

R = Recovery outside target range

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	Equipment Blank 4		
Lab Sample ID	20247389028		
Filename	L220629B_07		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 17:05
ICAL ID	L220428	Received	06/23/2022 09:30
CCal Filename(s)	L220629A_18 & L220629B_08	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/30/2022 03:34

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	96
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	87
				1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	107
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	101
				1,2,3,4,7,8-HxCDF-13C	2.00	53
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	90
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	94
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	58
				1,2,3,4,7,8-HxCDD-13C	2.00	72
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	85
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	49
				1,2,3,4,7,8,9-HpCDF-13C	2.00	66
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	73
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	69
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	Equipment Blank 5		
Lab Sample ID	20247389029		
Filename	L220701A_03		
Injected By	JRH		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 17:25
ICAL ID	L220428	Received	06/23/2022 09:30
CCal Filename(s)	L220701A_01 & L220701A_17	Extracted	06/29/2022 13:15
Method Blank ID	BLANK-99727	Analyzed	07/01/2022 14:43

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	77
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	71
				1,2,3,7,8-PeCDF-13C	2.00	70
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	99
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	93
				1,2,3,4,7,8-HxCDF-13C	2.00	28 R
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	75
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	80
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	29 R
				1,2,3,4,7,8-HxCDD-13C	2.00	58
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	80
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	20 R
				1,2,3,4,7,8,9-HpCDF-13C	2.00	45
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	57
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	58
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	72
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

R = Recovery outside target range

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	Equipment Blank 6		
Lab Sample ID	20247389030		
Filename	L220701A_04		
Injected By	JRH		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 17:45
ICAL ID	L220428	Received	06/23/2022 09:30
CCal Filename(s)	L220701A_01 & L220701A_17	Extracted	06/29/2022 13:15
Method Blank ID	BLANK-99727	Analyzed	07/01/2022 15:27

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	72
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	65
				1,2,3,7,8-PeCDF-13C	2.00	47
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	89
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	80
				1,2,3,4,7,8-HxCDF-13C	2.00	20 R
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	64
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	75
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	28 R
				1,2,3,4,7,8-HxCDD-13C	2.00	54
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	60
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	27 R
				1,2,3,4,7,8,9-HpCDF-13C	2.00	48
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	57
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	54
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	77
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

R = Recovery outside target range

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	Field Dup 1		
Lab Sample ID	20247389031		
Filename	L220701A_05		
Injected By	JRH		
Total Amount Extracted	1010 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 08:20
ICAL ID	L220428	Received	06/23/2022 09:30
CCal Filename(s)	L220701A_01 & L220701A_17	Extracted	06/29/2022 13:15
Method Blank ID	BLANK-99727	Analyzed	07/01/2022 16:11

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	85
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	77
				1,2,3,7,8-PeCDF-13C	2.00	43
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	101
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	90
				1,2,3,4,7,8-HxCDF-13C	2.00	22 R
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	75
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	88
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	32 R
				1,2,3,4,7,8-HxCDD-13C	2.00	56
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	30 R
				1,2,3,4,7,8,9-HpCDF-13C	2.00	61
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	70
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	64
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	77
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

R = Recovery outside target range

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	Field Dup 2		
Lab Sample ID	20247389032		
Filename	L220701A_06		
Injected By	JRH		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 09:45
ICAL ID	L220428	Received	06/23/2022 09:30
CCal Filename(s)	L220701A_01 & L220701A_17	Extracted	06/29/2022 13:15
Method Blank ID	BLANK-99727	Analyzed	07/01/2022 16:55

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	78
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	70
				1,2,3,7,8-PeCDF-13C	2.00	42
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	90
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	80
				1,2,3,4,7,8-HxCDF-13C	2.00	18 R
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	19 R
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	80
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	20 R
				1,2,3,4,7,8-HxCDD-13C	2.00	50
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	59
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	15 R
				1,2,3,4,7,8,9-HpCDF-13C	2.00	38 R
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	45
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	47
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	76
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

R = Recovery outside target range

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Blank Analysis Results

Lab Sample Name	DFBLKLK		
Lab Sample ID	BLANK-99697	Matrix	Water
Filename	L220629A_10	Dilution	NA
Total Amount Extracted	1000 mL	Extracted	06/27/2022 15:00
ICAL ID	L220428	Analyzed	06/29/2022 16:33
CCal Filename(s)	L220629A_01 & L220629A_18	Injected By	SMT

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	68
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	58
				1,2,3,7,8-PeCDF-13C	2.00	64
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	86
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	81
				1,2,3,4,7,8-HxCDF-13C	2.00	24 R
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	55
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	68
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	30 R
				1,2,3,4,7,8-HxCDD-13C	2.00	49
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	57
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	25 R
				1,2,3,4,7,8,9-HpCDF-13C	2.00	44
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	46
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	52
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	61
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

R = Recovery outside target range

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414

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Method 8290 Blank Analysis Results

Lab Sample Name	DFBLKKR		
Lab Sample ID	BLANK-99639	Matrix	Water
Filename	L220629A_11	Dilution	NA
Total Amount Extracted	977 mL	Extracted	06/24/2022 13:30
ICAL ID	L220428	Analyzed	06/29/2022 17:18
CCal Filename(s)	L220629A_01 & L220629A_18	Injected By	SMT

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	60
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	51
				1,2,3,7,8-PeCDF-13C	2.00	56
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	73
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	66
				1,2,3,4,7,8-HxCDF-13C	2.00	29 R
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	54
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	57
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	32 R
				1,2,3,4,7,8-HxCDD-13C	2.00	44
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	44
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	28 R
				1,2,3,4,7,8,9-HpCDF-13C	2.00	36 R
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	38 R
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	40
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	80
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
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RL = Reporting Limit

R = Recovery outside target range

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Blank Analysis Results

Lab Sample Name	DFBLKLU		
Lab Sample ID	BLANK-99727	Matrix	Water
Filename	U220705A_09	Dilution	NA
Total Amount Extracted	906 mL	Extracted	06/29/2022 13:15
ICAL ID	U220611	Analyzed	07/05/2022 16:51
CCal Filename(s)	U220705A_01 & U220705A_17	Injected By	MS4

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	10	2,3,7,8-TCDF-13C	2.00	73
Total TCDF	ND	-----	10	2,3,7,8-TCDD-13C	2.00	68
				1,2,3,7,8-PeCDF-13C	2.00	84
2,3,7,8-TCDD	ND	-----	10	2,3,4,7,8-PeCDF-13C	2.00	87
Total TCDD	ND	-----	10	1,2,3,7,8-PeCDD-13C	2.00	89
				1,2,3,4,7,8-HxCDF-13C	2.00	105
1,2,3,7,8-PeCDF	ND	-----	50	1,2,3,6,7,8-HxCDF-13C	2.00	81
2,3,4,7,8-PeCDF	ND	-----	50	2,3,4,6,7,8-HxCDF-13C	2.00	98
Total PeCDF	ND	-----	50	1,2,3,7,8,9-HxCDF-13C	2.00	95
				1,2,3,4,7,8-HxCDD-13C	2.00	100
1,2,3,7,8-PeCDD	ND	-----	50	1,2,3,6,7,8-HxCDD-13C	2.00	89
Total PeCDD	ND	-----	50	1,2,3,4,6,7,8-HpCDF-13C	2.00	79
				1,2,3,4,7,8,9-HpCDF-13C	2.00	69
1,2,3,4,7,8-HxCDF	ND	-----	50	1,2,3,4,6,7,8-HpCDD-13C	2.00	72
1,2,3,6,7,8-HxCDF	ND	-----	50	OCDD-13C	4.00	61
2,3,4,6,7,8-HxCDF	ND	-----	50			
1,2,3,7,8,9-HxCDF	ND	-----	50	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	50	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	50	2,3,7,8-TCDD-37Cl4	0.20	82
1,2,3,6,7,8-HxCDD	ND	-----	50			
1,2,3,7,8,9-HxCDD	ND	-----	50			
Total HxCDD	ND	-----	50			
1,2,3,4,6,7,8-HpCDF	ND	-----	50	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	50	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	50	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	50			
Total HpCDD	ND	-----	50			
OCDF	ND	-----	100			
OCDD	ND	-----	100			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-99698		
Filename	L220629A_02	Matrix	Water
Total Amount Extracted	1010 mL	Dilution	NA
ICAL ID	L220428	Extracted	06/27/2022 15:00
CCal Filename(s)	L220629A_01 & L220629A_18	Analyzed	06/29/2022 10:42
Method Blank ID	BLANK-99697	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.22	109	2,3,7,8-TCDF-13C	2.0	84
Total TCDF				2,3,7,8-TCDD-13C	2.0	73
				1,2,3,7,8-PeCDF-13C	2.0	66
2,3,7,8-TCDD	0.20	0.22	109	2,3,4,7,8-PeCDF-13C	2.0	102
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	98
				1,2,3,4,7,8-HxCDF-13C	2.0	42
1,2,3,7,8-PeCDF	1.0	0.99	99	1,2,3,6,7,8-HxCDF-13C	2.0	83
2,3,4,7,8-PeCDF	1.0	0.98	98	2,3,4,6,7,8-HxCDF-13C	2.0	86
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	49
				1,2,3,4,7,8-HxCDD-13C	2.0	70
1,2,3,7,8-PeCDD	1.0	0.94	94	1,2,3,6,7,8-HxCDD-13C	2.0	73
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	47
				1,2,3,4,7,8,9-HpCDF-13C	2.0	60
1,2,3,4,7,8-HxCDF	1.0	1.0	104	1,2,3,4,6,7,8-HpCDD-13C	2.0	62
1,2,3,6,7,8-HxCDF	1.0	0.98	98	OCDD-13C	4.0	57
2,3,4,6,7,8-HxCDF	1.0	0.97	97			
1,2,3,7,8,9-HxCDF	1.0	0.87	87	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.0	100	2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	1.0	0.94	94			
1,2,3,7,8,9-HxCDD	1.0	1.1	114			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	0.93	93			
1,2,3,4,7,8,9-HpCDF	1.0	0.93	93			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.90	90			
Total HpCDD						
OCDF	2.0	1.9	97			
OCDD	2.0	1.8	91			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-99640		
Filename	L220629A_04	Matrix	Water
Total Amount Extracted	956 mL	Dilution	NA
ICAL ID	L220428	Extracted	06/24/2022 13:30
CCal Filename(s)	L220629A_01 & L220629A_18	Analyzed	06/29/2022 12:09
Method Blank ID	BLANK-99639	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.22	109	2,3,7,8-TCDF-13C	2.0	66
Total TCDF				2,3,7,8-TCDD-13C	2.0	57
				1,2,3,7,8-PeCDF-13C	2.0	67
2,3,7,8-TCDD	0.20	0.23	113	2,3,4,7,8-PeCDF-13C	2.0	78
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	73
				1,2,3,4,7,8-HxCDF-13C	2.0	54
1,2,3,7,8-PeCDF	1.0	1.1	107	1,2,3,6,7,8-HxCDF-13C	2.0	64
2,3,4,7,8-PeCDF	1.0	1.0	101	2,3,4,6,7,8-HxCDF-13C	2.0	66
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	32 R
				1,2,3,4,7,8-HxCDD-13C	2.0	55
1,2,3,7,8-PeCDD	1.0	0.97	97	1,2,3,6,7,8-HxCDD-13C	2.0	56
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	26 R
				1,2,3,4,7,8,9-HpCDF-13C	2.0	42
1,2,3,4,7,8-HxCDF	1.0	1.0	103	1,2,3,4,6,7,8-HpCDD-13C	2.0	45
1,2,3,6,7,8-HxCDF	1.0	1.0	101	OCDD-13C	4.0	42
2,3,4,6,7,8-HxCDF	1.0	0.98	98			
1,2,3,7,8,9-HxCDF	1.0	0.88	88	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.1	107	2,3,7,8-TCDD-37Cl4	0.20	80
1,2,3,6,7,8-HxCDD	1.0	0.97	97			
1,2,3,7,8,9-HxCDD	1.0	1.1	113			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	0.89	89			
1,2,3,4,7,8,9-HpCDF	1.0	0.99	99			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.91	91			
Total HpCDD						
OCDF	2.0	2.1	103			
OCDD	2.0	2.0	99			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-99728		
Filename	F220701A_05	Matrix	Water
Total Amount Extracted	970 mL	Dilution	NA
ICAL ID	F220529	Extracted	06/29/2022 13:15
CCal Filename(s)	F220701A_03 & F220701A_19	Analyzed	07/01/2022 13:35
Method Blank ID	BLANK-99727	Injected By	MS4

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.16	79	2,3,7,8-TCDF-13C	2.0	75
Total TCDF				2,3,7,8-TCDD-13C	2.0	73
				1,2,3,7,8-PeCDF-13C	2.0	74
2,3,7,8-TCDD	0.20	0.18	89	2,3,4,7,8-PeCDF-13C	2.0	81
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	80
				1,2,3,4,7,8-HxCDF-13C	2.0	78
1,2,3,7,8-PeCDF	1.0	0.81	81	1,2,3,6,7,8-HxCDF-13C	2.0	74
2,3,4,7,8-PeCDF	1.0	0.79	79	2,3,4,6,7,8-HxCDF-13C	2.0	82
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	76
				1,2,3,4,7,8-HxCDD-13C	2.0	81
1,2,3,7,8-PeCDD	1.0	0.83	83	1,2,3,6,7,8-HxCDD-13C	2.0	88
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	79
				1,2,3,4,7,8,9-HpCDF-13C	2.0	69
1,2,3,4,7,8-HxCDF	1.0	0.85	85	1,2,3,4,6,7,8-HpCDD-13C	2.0	74
1,2,3,6,7,8-HxCDF	1.0	0.86	86	OCDD-13C	4.0	56
2,3,4,6,7,8-HxCDF	1.0	0.87	87			
1,2,3,7,8,9-HxCDF	1.0	0.88	88	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	0.88	88	2,3,7,8-TCDD-37Cl4	0.20	87
1,2,3,6,7,8-HxCDD	1.0	0.89	89			
1,2,3,7,8,9-HxCDD	1.0	0.83	83			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	0.86	86			
1,2,3,4,7,8,9-HpCDF	1.0	0.85	85			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.76	76			
Total HpCDD						
OCDF	2.0	1.9	96			
OCDD	2.0	1.8	90			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCSD-99699		
Filename	L220629A_03	Matrix	Water
Total Amount Extracted	1010 mL	Dilution	NA
ICAL ID	L220428	Extracted	06/27/2022 15:00
CCal Filename(s)	L220629A_01 & L220629A_18	Analyzed	06/29/2022 11:25
Method Blank ID	BLANK-99697	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.22	112	2,3,7,8-TCDF-13C	2.0	103
Total TCDF				2,3,7,8-TCDD-13C	2.0	90
				1,2,3,7,8-PeCDF-13C	2.0	74
2,3,7,8-TCDD	0.20	0.23	116	2,3,4,7,8-PeCDF-13C	2.0	126
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	114
				1,2,3,4,7,8-HxCDF-13C	2.0	30 R
1,2,3,7,8-PeCDF	1.0	1.0	102	1,2,3,6,7,8-HxCDF-13C	2.0	61
2,3,4,7,8-PeCDF	1.0	1.0	103	2,3,4,6,7,8-HxCDF-13C	2.0	105
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	35 R
				1,2,3,4,7,8-HxCDD-13C	2.0	81
1,2,3,7,8-PeCDD	1.0	1.0	101	1,2,3,6,7,8-HxCDD-13C	2.0	88
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	26 R
				1,2,3,4,7,8,9-HpCDF-13C	2.0	45
1,2,3,4,7,8-HxCDF	1.0	0.88	88	1,2,3,4,6,7,8-HpCDD-13C	2.0	67
1,2,3,6,7,8-HxCDF	1.0	1.1	110	OCDD-13C	4.0	74
2,3,4,6,7,8-HxCDF	1.0	1.0	102			
1,2,3,7,8,9-HxCDF	1.0	0.87	87	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.1	106	2,3,7,8-TCDD-37Cl4	0.20	103
1,2,3,6,7,8-HxCDD	1.0	0.95	95			
1,2,3,7,8,9-HxCDD	1.0	1.2	122			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	0.83	83			
1,2,3,4,7,8,9-HpCDF	1.0	0.99	99			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.88	88			
Total HpCDD						
OCDF	2.0	1.8	92			
OCDD	2.0	1.8	91			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCSD-99641		
Filename	L220629A_05	Matrix	Water
Total Amount Extracted	1000 mL	Dilution	NA
ICAL ID	L220428	Extracted	06/24/2022 13:30
CCal Filename(s)	L220629A_01 & L220629A_18	Analyzed	06/29/2022 12:53
Method Blank ID	BLANK-99639	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.22	111	2,3,7,8-TCDF-13C	2.0	68
Total TCDF				2,3,7,8-TCDD-13C	2.0	57
				1,2,3,7,8-PeCDF-13C	2.0	67
2,3,7,8-TCDD	0.20	0.23	115	2,3,4,7,8-PeCDF-13C	2.0	81
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	76
				1,2,3,4,7,8-HxCDF-13C	2.0	43
1,2,3,7,8-PeCDF	1.0	1.1	111	1,2,3,6,7,8-HxCDF-13C	2.0	60
2,3,4,7,8-PeCDF	1.0	1.0	102	2,3,4,6,7,8-HxCDF-13C	2.0	63
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	35 R
				1,2,3,4,7,8-HxCDD-13C	2.0	48
1,2,3,7,8-PeCDD	1.0	1.0	102	1,2,3,6,7,8-HxCDD-13C	2.0	54
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	35 R
				1,2,3,4,7,8,9-HpCDF-13C	2.0	44
1,2,3,4,7,8-HxCDF	1.0	1.1	113	1,2,3,4,6,7,8-HpCDD-13C	2.0	45
1,2,3,6,7,8-HxCDF	1.0	1.1	106	OCDD-13C	4.0	43
2,3,4,6,7,8-HxCDF	1.0	1.0	104			
1,2,3,7,8,9-HxCDF	1.0	0.95	95	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.1	112	2,3,7,8-TCDD-37Cl4	0.20	88
1,2,3,6,7,8-HxCDD	1.0	1.0	103			
1,2,3,7,8,9-HxCDD	1.0	1.2	121			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.0	103			
1,2,3,4,7,8,9-HpCDF	1.0	1.0	102			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.96	96			
Total HpCDD						
OCDF	2.0	2.1	103			
OCDD	2.0	2.0	101			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCSD-99729		
Filename	U220705A_04	Matrix	Water
Total Amount Extracted	1010 mL	Dilution	5
ICAL ID	U220611	Extracted	06/29/2022 13:15
CCal Filename(s)	U220705A_01 & U220705A_17	Analyzed	07/05/2022 12:55
Method Blank ID	BLANK-99727	Injected By	MS4

Native Isomers	Qs (ng)	Qm (ng)	% Rec.		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	0.20	0.19	96	D	2,3,7,8-TCDF-13C	2.0	70	D
Total TCDF					2,3,7,8-TCDD-13C	2.0	71	D
					1,2,3,7,8-PeCDF-13C	2.0	83	D
2,3,7,8-TCDD	0.20	0.20	101	D	2,3,4,7,8-PeCDF-13C	2.0	88	D
Total TCDD					1,2,3,7,8-PeCDD-13C	2.0	92	D
					1,2,3,4,7,8-HxCDF-13C	2.0	97	D
1,2,3,7,8-PeCDF	1.0	0.89	89	D	1,2,3,6,7,8-HxCDF-13C	2.0	80	D
2,3,4,7,8-PeCDF	1.0	0.86	86	D	2,3,4,6,7,8-HxCDF-13C	2.0	89	D
Total PeCDF					1,2,3,7,8,9-HxCDF-13C	2.0	87	D
					1,2,3,4,7,8-HxCDD-13C	2.0	96	D
1,2,3,7,8-PeCDD	1.0	0.81	81	D	1,2,3,6,7,8-HxCDD-13C	2.0	85	D
Total PeCDD					1,2,3,4,6,7,8-HpCDF-13C	2.0	75	D
					1,2,3,4,7,8,9-HpCDF-13C	2.0	68	D
1,2,3,4,7,8-HxCDF	1.0	0.91	91	D	1,2,3,4,6,7,8-HpCDD-13C	2.0	78	D
1,2,3,6,7,8-HxCDF	1.0	0.91	91	D	OCDD-13C	4.0	65	D
2,3,4,6,7,8-HxCDF	1.0	0.93	93	D				
1,2,3,7,8,9-HxCDF	1.0	0.94	94	D	1,2,3,4-TCDD-13C	2.0	NA	D
Total HxCDF					1,2,3,7,8,9-HxCDD-13C	2.0	NA	D
1,2,3,4,7,8-HxCDD	1.0	0.90	90	D	2,3,7,8-TCDD-37Cl4	0.20	91	D
1,2,3,6,7,8-HxCDD	1.0	0.88	88	D				
1,2,3,7,8,9-HxCDD	1.0	0.81	81	D				
Total HxCDD								
1,2,3,4,6,7,8-HpCDF	1.0	0.86	86	D				
1,2,3,4,7,8,9-HpCDF	1.0	0.90	90	D				
Total HpCDF								
1,2,3,4,6,7,8-HpCDD	1.0	0.80	80	D				
Total HpCDD								
OCDF	2.0	1.8	92	D				
OCDD	2.0	1.9	94	D				

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 8290

Spike Recovery Relative Percent Difference (RPD) Results

Client	PACE New Orleans		
Spike 1 ID	LCS-99698	Spike 2 ID	LCSD-99699
Spike 1 Filename	L220629A_02	Spike 2 Filename	L220629A_03

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDF	109	112	2.7
2,3,7,8-TCDD	109	116	6.2
1,2,3,7,8-PeCDF	99	102	3.0
2,3,4,7,8-PeCDF	98	103	5.0
1,2,3,7,8-PeCDD	94	101	7.2
1,2,3,4,7,8-HxCDF	104	88	16.7
1,2,3,6,7,8-HxCDF	98	110	11.5
2,3,4,6,7,8-HxCDF	97	102	5.0
1,2,3,7,8,9-HxCDF	87	87	0.0
1,2,3,4,7,8-HxCDD	100	106	5.8
1,2,3,6,7,8-HxCDD	94	95	1.1
1,2,3,7,8,9-HxCDD	114	122	6.8
1,2,3,4,6,7,8-HpCDF	93	83	11.4
1,2,3,4,7,8,9-HpCDF	93	99	6.3
1,2,3,4,6,7,8-HpCDD	90	88	2.2
OCDF	97	92	5.3
OCDD	91	91	0.0

%REC = Percent Recovered
RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSIS

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Method 8290

Spike Recovery Relative Percent Difference (RPD) Results

Client	PACE New Orleans		
Spike 1 ID	LCS-99640	Spike 2 ID	LCSD-99641
Spike 1 Filename	L220629A_04	Spike 2 Filename	L220629A_05

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDF	109	111	1.8
2,3,7,8-TCDD	113	115	1.8
1,2,3,7,8-PeCDF	107	111	3.7
2,3,4,7,8-PeCDF	101	102	1.0
1,2,3,7,8-PeCDD	97	102	5.0
1,2,3,4,7,8-HxCDF	103	113	9.3
1,2,3,6,7,8-HxCDF	101	106	4.8
2,3,4,6,7,8-HxCDF	98	104	5.9
1,2,3,7,8,9-HxCDF	88	95	7.7
1,2,3,4,7,8-HxCDD	107	112	4.6
1,2,3,6,7,8-HxCDD	97	103	6.0
1,2,3,7,8,9-HxCDD	113	121	6.8
1,2,3,4,6,7,8-HpCDF	89	103	14.6
1,2,3,4,7,8,9-HpCDF	99	102	3.0
1,2,3,4,6,7,8-HpCDD	91	96	5.3
OCDF	103	103	0.0
OCDD	99	101	2.0

%REC = Percent Recovered
RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSIS

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Method 8290

Spike Recovery Relative Percent Difference (RPD) Results

Client	PACE New Orleans		
Spike 1 ID	LCS-99728	Spike 2 ID	LCSD-99729
Spike 1 Filename	F220701A_05	Spike 2 Filename	U220705A_04

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDF	79	96	19.4
2,3,7,8-TCDD	89	101	12.6
1,2,3,7,8-PeCDF	81	89	9.4
2,3,4,7,8-PeCDF	79	86	8.5
1,2,3,7,8-PeCDD	83	81	2.4
1,2,3,4,7,8-HxCDF	85	91	6.8
1,2,3,6,7,8-HxCDF	86	91	5.6
2,3,4,6,7,8-HxCDF	87	93	6.7
1,2,3,7,8,9-HxCDF	88	94	6.6
1,2,3,4,7,8-HxCDD	88	90	2.2
1,2,3,6,7,8-HxCDD	89	88	1.1
1,2,3,7,8,9-HxCDD	83	81	2.4
1,2,3,4,6,7,8-HpCDF	86	86	0.0
1,2,3,4,7,8,9-HpCDF	85	90	5.7
1,2,3,4,6,7,8-HpCDD	76	80	5.1
OCDF	96	92	4.3
OCDD	90	94	4.3

%REC = Percent Recovered
RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSIS

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Report Prepared for:

Mary Kathryn Brenner
PACE New Orleans
4320 Midmost Drive
Mobile AL 36609

REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

Report Information:

Pace Project #: 10614012
Sample Receipt Date: 06/23/2022
Client Project #: 20247389
Client Sub PO #: N/A
State Cert #: 40770

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Scott Unze, your Pace Project Manager.

This report has been reviewed by:

February 27, 2024

Scott Unze, Project Manager
(612) 607-6383
(612) 607-6444 (fax)
scott.unze@pacelabs.com

Report Prepared Date:
February 27, 2024

Report of Laboratory Analysis

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DISCUSSION

This report presents the results from the analyses performed on thirty-two samples submitted by a representative of Pace Analytical Services, LLC. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. The estimated detection limits (EDLs) were based on signal-to-noise measurements. Estimated maximum possible concentration (EMPC) values were treated as positives in the toxic equivalence calculations. This report was revised to report EDLs by client request.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 15-125%. Except for thirty-nine low values, which were flagged "R" on the results tables, the labeled standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

Values were flagged "I" where incorrect isotope ratios were obtained. Concentrations below the calibration range were flagged "J" and should be regarded as estimates. Values obtained from the analysis of a diluted extract were flagged "D".

A laboratory method blank was prepared and analyzed with each sample batch as part of our routine quality control procedures. The results show the blanks to contain trace levels of selected congeners. These levels were below the calibration range of the method. Sample levels similar to the corresponding blank levels were flagged "B" on the results tables and may be, at least partially, attributed to the background.

Laboratory spike samples were also prepared using clean reference matrix that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 76-122% with relative percent differences of 0.0-19.4%. These results were within the target ranges for the method. Matrix spikes were not prepared with the sample batches.

The response obtained for the labeled OCDD in calibration standard analysis F220629B_08 was outside the target range. As specified in our procedures for this method, the average of the daily response factors for this compound was used in the calculations for the samples from this runshift. The affected values were flagged "Y" on the results tables.

REPORT OF LABORATORY ANALYSIS

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Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
		Missouri	10100
A2LA	2926.01	Montana	CERT0092
Alabama	40770	Nebraska	NE-OS-18-06
Alaska-DW	MN00064	Nevada	MN00064
Alaska-UST	17-009	New Hampshire	2081
Arizona	AZ0014	New Jersey	MN002
Arkansas - WW	88-0680	New York	11647
Arkansas-DW	MN00064	North Carolina-	27700
California	2929	North Carolina-	530
Colorado	MN00064	North Dakota	R-036
Connecticut	PH-0256	Ohio-DW	41244
Florida	E87605	Ohio-VAP (170	CL101
Georgia	959	Ohio-VAP (180	CL110
Hawaii	MN00064	Oklahoma	9507
Idaho	MN00064	Oregon-Primary	MN300001
Illinois	200011	Oregon-Second	MN200001
Indiana	C-MN-01	Pennsylvania	68-00563
Iowa	368	Puerto Rico	MN00064
Kansas	E-10167	South Carolina	74003
Kentucky-DW	90062	Tennessee	TN02818
Kentucky-WW	90062	Texas	T104704192
Louisiana-DEQ	AI-84596	Utah	MN00064
Louisiana-DW	MN00064	Vermont	VT-027053137
Maine	MN00064	Virginia	460163
Maryland	322	Washington	C486
Michigan	9909	West Virginia-D	382
Minnesota	027-053-137	West Virginia-D	9952C
Minnesota-Ag	via MN 027-053	Wisconsin	999407970
Minnesota-Petr	1240	Wyoming-UST	via A2LA 2926.
Mississippi	MN00064		

REPORT OF LABORATORY ANALYSIS

Report No.....10683746

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Appendix A

Sample Management

REPORT OF LABORATORY ANALYSIS

Internal Transfer Chain of Custody

Pace Analytical®
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☐ Samples Pre-Logged into eCOC.

State Of Origin: AL
Cert. Needed: ☐ Yes ☐ No
Owner Received Date: 6/22/2022 Results Requested By: 7/7/2022

Workorder: 20247389 **Workorder Name:** Alabama Wood Treating

Report To	Subcontract To
Mary Kathryn Brenner Pace Analytical Mobile Labs 4320 Midmost Dr Mobile, AL 36609 USA Phone 251-344-9106	Pace Analytical Minneapolis 1700 Elm Street SE Minneapolis, MN 55414 Phone (612)607-1700

WO# : 10614012

10614012

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	8260	LAB USE ONLY
1	6-I	PS	6/21/2022 10:55	20247389001	Water	1	X	T2 001
2	6-S	PS	6/21/2022 09:45	20247389002	Water	1	X	T2 002
3	7-D	PS	6/21/2022 08:20	20247389003	Water	1	X	T2 003
4	7-IR	PS	6/21/2022 09:20	20247389004	Water	1	X	T2 004
5	7-S	PS	6/21/2022 08:10	20247389005	Water	1	X	T2 005
6	8-D	PS	6/21/2022 15:10	20247389006	Water	1	X	T3 006
7	8-DK	PS	6/22/2022 08:40	20247389007	Water	1	X	T2 007
8	8-I	PS	6/22/2022 08:40	20247389008	Water	1	X	T3 008
9	9-I	PS	6/20/2022 15:50	20247389009	Water	1	X	
10	8-S	PS	6/21/2022 15:00	20247389010	Water	1	X	T3 0010
11	15-D	PS	6/20/2022 16:20	20247389011	Water	1	X	
12	15-I	PS	6/21/2022 16:30	20247389012	Water	1	X	T2 012
13	15-S	PS	6/20/2022 17:05	20247389013	Water	1	X	
14	16-D	PS	6/20/2022 13:30	20247389014	Water	1	X	
15	16-I	PS	6/20/2022 14:20	20247389015	Water	1	X	
16	17-D	PS	6/22/2022 11:15	20247389016	Water	1	X	T2 016
17	19-SR	PS	6/20/2022 09:40	20247389017	Water	1	X	
18	21-I	PS	6/21/2022 13:30	20247389018	Water	1	X	T2 018
19	23-D	PS	6/21/2022 11:15	20247389019	Water	1	X	T2 019

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: AL
Cert. Needed: ☐ Yes ☐ No
Owner Received Date: 6/22/2022 **Results Requested By:** 7/7/2022

Workorder: 20247389 **Workorder Name:** Alabama Wood Treating

Report To	Subcontract To
Mary Kathryn Brenner Pace Analytical Mobile Labs 4320 Midmost Dr Mobile, AL 36609 USA Phone 251-344-9106	Pace Analytical Minneapolis 1700 Elm Street SE Minneapolis, MN 55414 Phone (612)607-1700

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved						Requested Analysis: 8290											LAB USE ONLY
20	23-I	PS	6/21/2022 12:05	20247389020	Water	1						X											TZ 020
21	31-DR	PS	6/20/2022 11:20	20247389021	Water	1						X											
22	31-IR	PS	6/20/2022 10:00	20247389022	Water	1						X											
23	32-I	PS	6/20/2022 11:45	20247389023	Water	1						X											
24	32-S	PS	6/20/2022 12:52	20247389024	Water	1						X											
25	Equipment Blank 1	PS	6/20/2022 07:25	20247389025	Water	1						X											
26	Equipment Blank 2	PS	6/20/2022 07:45	20247389026	Water	1						X											
27	Equipment Blank 3	PS	6/20/2022 08:05	20247389027	Water	1						X											
28	Equipment Blank 4	PS	6/21/2022 17:05	20247389028	Water	1						X											TZ 028
29	Equipment Blank 5	PS	6/21/2022 17:25	20247389029	Water	1						X											TZ 029
30	Equipment Blank 6	PS	6/21/2022 17:45	20247389030	Water	1						X											TZ 030
31	Field Dup 1	PS	6/21/2022 08:20	20247389031	Water	1						X											TZ 031
32	Field Dup 2	PS	6/21/2022 09:45	20247389032	Water	1						X											TZ 032

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	Kayla A. Williams	6/22/22 1530	[illegible]	06/23/22 0830	IR10 Report with MDL and J Flags All highlighted samples are included in this shipment. Please add to the previous workorder. All dates/times on this IRWO are final.
2					
3					

Cooler Temperature on Receipt	Custody Seal	Received on Ice	Samples Intact
4.9 °C	Y or (N)	(Y) or N	(Y) or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
This chain of custody is considered complete as is since this information is available in the owner laboratory.

T2 = Table 2
T3 = Table 3

DC#_Title: ENV-FRM-MIN4-0150 v05_Sample Condition Upon Receipt (SCUR)

Effective Date: 04/12/2022

Sample Condition Upon Receipt

Client Name: P, A Mobile Labs

Project #:

WO#: 10614012

PM: SCU **Due Date: 07/14/22**

CLIENT: PASI-NOLA

Courier: ☐Fed Ex ☐UPS ☐USPS ☑Client ☐Pace ☐SpeeDee ☐Commercial

See Exceptions ☐ENV-FRM-MIN4-0142

Tracking Number: _____

Custody Seal on Cooler/Box Present? ☐Yes ☑No Seals Intact? ☐Yes ☑No Biological Tissue Frozen? ☐Yes ☐No ☑N/A

Packing Material: ☐Bubble Wrap ☐Bubble Bags ☐None ☐Other: _____ Temp Blank? ☐Yes ☑No

Thermometer: ☐T1(0461) ☐T2(1336) ☐T3(0459) ☑T4(0254) ☐T5(0489) ☐T6(0235) ☐T7 (0042) ☐01339252/1710 ☐122639816 ☐140792808

Type of Ice: ☑Wet ☐Blue ☐None ☐Dry ☐Melted

Did Samples Originate in West Virginia? ☐Yes ☑No Were All Container Temps Taken? ☐Yes ☐No ☑N/A

Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: _____ °C

Average Corrected Temp (no temp blank only): 4.9 °C ☑See Exceptions ENV-FRM-MIN4-0142 ☐1 Container

Correction Factor: True Cooler Temp Corrected w/temp blank: _____ °C

USDA Regulated Soil: (☑N/A, water sample/Other: _____) Date/Initials of Person Examining Contents: KN 06/23/22

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐Yes ☐No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐Yes ☐No

If Yes to either question, fill out a Regulated Soil Checklist ENV-FRM-MIN4-0154 and include with SCUR/COC paperwork.

Location (check one): ☐ Duluth ☑ Minneapolis ☐ Virginia

				COMMENTS:
Chain of Custody Present and Filled Out?	☑Yes	☐No		1. No COC
Chain of Custody Relinquished?	☑Yes	☐No		2.
Sampler Name and/or Signature on COC?	☐Yes	☐No	☑N/A	3.
Samples Arrived within Hold Time?	☑Yes	☐No		4. If Fecal: ☐<8 hrs ☐>8hr, <24 hrs, ☐>24 hrs
Short Hold Time Analysis (<72 hr)?	☐Yes	☑No		5. ☐Fecal Coliform ☐HPC ☐Total Coliform/E coli ☐BOD/cBOD ☐Hex Chrome ☐Turbidity ☐Nitrate ☐Nitrite ☐Orthophos ☐Other
Rush Turn Around Time Requested?	☐Yes	☑No		6.
Sufficient Volume?	☑Yes	☐No		7.
Correct Containers Used?	☑Yes	☐No		8.
-Pace Containers Used?	☑Yes	☐No		
Containers Intact?	☑Yes	☐No		9.
Field Filtered Volume Received for Dissolved Tests?	☐Yes	☐No	☑N/A	10. Is sediment visible in the dissolved container? ☐Yes ☐No
Is sufficient information available to reconcile the samples to the COC? Matrix: ☑Water ☐Soil ☐Oil ☐Other-	☑Yes	☐No		11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐ **ENV-FRM-MIN4-0142**
All containers needing acid/base preservation have been checked?	☐Yes	☐No	☑N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	☐Yes	☐No	☑N/A	☐ NaOH ☐ HNO_3 ☐ H_2SO_4 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐Yes	☐No	☑N/A	Positive for Res. Chlorine? ☐Yes ☐No **pH Paper Lot#** **See Exception** ☐ **ENV-FRM-MIN4-0142**
				Res. Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Headspace in Methyl Mercury Container?	☐Yes	☐No	☑N/A	
Extra labels present on soil VOA or WIDRO containers?	☐Yes	☐No	☑N/A	13. **See Exception** ☐ **ENV-FRM-MIN4-0140**
Headspace in VOA Vials (greater than 6mm)?	☐Yes	☐No	☑N/A	
Trip Blank Present?	☐Yes	☐No	☑N/A	14.
Trip Blank Custody Seals Present?	☐Yes	☐No	☑N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐Yes ☐No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: _____ **Date:** 06/23/22

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: KN (2)

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-MIN4-0142 v01_Sample Condition Upon Receipt (SCUR) Exception Form
	Effective Date: 02/25/2022

SCUR Exceptions: **Workorder #:**

Out of Temp Sample IDs	Container Type	# of Containers

PM Notified? ☐Yes ☐No

If yes, indicate who was contacted/date/time.
If no, indicate reason why.

Multiple Cooler Project? ☐Yes ☐No
If you answered yes, fill out information to the left.

No Temp Blank		
Read Temp	Corrected Temp	Average Temp
4.7		4.9
5.6	TRUE	
5.2		
4.0		

Tracking Number/Temperature	

Issue Type: Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition?	Initials
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	

Comments:

Qualtrax ID: 52763

For WO# 20247389 MN

TABLE 3 MONITORING

Site-Specific Constituent	CAS	Method	Units
Cyanide	57-12-5	EPA 335.2	mg/L
Sulfide	18496-25-8	EPA 376.1	mg/L
Antimony	7440-36-0	SW 6020	mg/L
Arsenic	7440-38-2	SW 6020	mg/L
Barium	7440-39-3	SW 6020	mg/L
Beryllium	7440-41-7	SW 6020	mg/L
Cadmium	7440-43-9	SW 6020	mg/L
Chromium	7440-47-3	SW 6020	mg/L
Cobalt	7440-48-4	SW 6020	mg/L
Copper	7440-50-8	SW 6020	mg/L
Lead	7439-92-1	SW 6020	mg/L
Nickel	7440-02-0	SW 6020	mg/L
Selenium	7782-49-2	SW 6020	mg/L
Silver	7440-22-4	SW 6020	mg/L
Thallium	7440-28-0	SW 6020	mg/L
Tin	7440-31-5	SW 6020	mg/L
Vanadium	7440-62-2	SW 6020	mg/L
Zinc	7440-66-6	SW 6020	mg/L
Mercury	7439-97-6	SW 7470A	mg/L
4,4'-DDD	72-54-8	SW 8081	ug/L
4,4'-DDE	72-55-9	SW 8081	ug/L
4,4'-DDT	50-29-3	SW 8081	ug/L
Aldrin	309-00-2	SW 8081	ug/L
alpha-BHC	319-84-6	SW 8081	ug/L
beta-BHC	319-85-7	SW 8081	ug/L
Chlordane (technical)	57-74-9	SW 8081	ug/L
Chlorobenzilate	510-15-6	SW 8081	ug/L
delta-BHC	319-86-8	SW 8081	ug/L
Dieldrin	60-57-1	SW 8081	ug/L
Endosulfan I	959-98-8	SW 8081	ug/L
Endosulfan II	33213-65-9	SW 8081	ug/L
Endosulfan sulfate	1031-07-8	SW 8081	ug/L
Endrin	72-20-8	SW 8081	ug/L
Endrin aldehyde	7421-93-4	SW 8081	ug/L
~~Ethyl Parathion~~ REPEAT	~~56-38-2~~	~~SW 8081~~	~~ug/L~~
gamma-BHC (Lindane)	58-89-9	SW 8081	ug/L
Heptachlor	76-44-8	SW 8081	ug/L
Heptachlor Epoxide	1024-57-3	SW 8081	ug/L
Methoxychlor	72-43-5	SW 8081	ug/L
Toxaphene	8001-35-2	SW 8081	ug/L
PCB-1016	12674-11-2	SW 8082	ug/L
PCB-1221	11104-28-2	SW 8082	ug/L

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PCB-1232	11141-16-5	SW 8082	ug/L
PCB-1242	53469-21-9	SW 8082	ug/L
PCB-1248	12672-29-6	SW 8082	ug/L
PCB-1254	11097-69-1	SW 8082	ug/L
PCB-1260	11096-82-5	SW 8082	ug/L
Disulfoton	298-04-4	SW 8141	ug/L
Ethyl Parathion	56-38-2	SW 8141	ug/L
Methyl parathion	298-00-0	SW 8141	ug/L
O,O,O-Triethyl Phosphorothioate	126-68-1	SW 8141	ug/L
O,O-Diethyl O-Pyrazinyl Phosphorothioate	297-97-2	SW 8141	ug/L
Phorate	298-02-2	SW 8141	ug/L
Sulfotepp	3689-24-5	SW 8141	ug/L
2,4,5-T	93-76-5	SW 8151	ug/L
2,4,5-TP (Silvex)	93-72-1	SW 8151	ug/L
2,4-D	94-75-7	SW 8151	ug/L
1,1,1,2-Tetrachloroethane	630-20-6	SW 8260	ug/L
1,1,1-Trichloroethane	71-55-6	SW 8260	ug/L
1,1,2,2-Tetrachloroethane	79-34-5	SW 8260	ug/L
1,1,2-Trichloroethane	79-00-5	SW 8260	ug/L
1,1-Dichloroethane	75-34-3	SW 8260	ug/L
1,1-Dichloroethene	75-35-4	SW 8260	ug/L
1,2,3-Trichloropropane	96-18-4	SW 8260	ug/L
1,2-Dibromo-3-Chloropropane	96-12-8	SW 8011	ug/L
1,2-Dibromoethane (Ethylene dibromide)	106-93-4	SW 8011	ug/L
1,2-Dichlorobenzene	95-50-1	SW 8260	ug/L
1,2-Dichloroethane	107-06-2	SW 8260	ug/L
1,2-Dichloropropane	78-87-5	SW 8260	ug/L
2-Butanone (Methyl ethyl ketone)	78-93-3	SW 8260	ug/L
2-Chloro-1,3-Butadiene	126-99-8	SW 8260	ug/L
2-Hexanone	591-78-6	SW 8260	ug/L
2-Methyl-1-Propanol (isobutyl alcohol)	78-83-1	SW 8260	ug/L
Acetone	67-64-1	SW 8260	ug/L
Acetonitrile	75-05-8	SW 8260	ug/L
Acrolein	107-02-8	SW 8260	ug/L
Acrylonitrile	107-13-1	SW 8260	ug/L
Allyl chloride (3-Chloropropene)	107-05-1	SW 8260	ug/L
Benzene	71-43-2	SW 8260	ug/L
Bromodichloromethane (Dichlorobromomethane)	75-27-4	SW 8260	ug/L
Bromoform (Tribromomethane)	75-25-2	SW 8260	ug/L
Bromomethane (Methyl bromide)	74-83-9	SW 8260	ug/L
Carbon disulfide	75-15-0	SW 8260	ug/L
Carbon tetrachloride	56-23-5	SW 8260	ug/L
Chlorobenzene	108-90-7	SW 8260	ug/L
Chlorodibromomethane (Dibromochloromethane)	124-48-1	SW 8260	ug/L
Chloroethane	75-00-3	SW 8260	ug/L
Chloroform	67-66-3	SW 8260	ug/L
Chloromethane (Methyl chloride)	74-87-3	SW 8260	ug/L

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cis-1,2-Dichloroethene	156-59-2	SW 8260	ug/L
cis-1,3-Dichloropropene	10061-01-5	SW 8260	ug/L
Dibromomethane (Methylene bromide)	74-95-3	SW 8260	ug/L
Dichlorodifluoromethane	75-71-8	SW 8260	ug/L
Ethyl methacrylate	97-63-2	SW 8260	ug/L
Iodomethane (Methyl iodide)	74-88-4	SW 8260	ug/L
Methyl isobutyl ketone (4-Methyl-2-pentanone)	108-10-1	SW 8260	ug/L
Methyl methacrylate	80-62-6	SW 8260	ug/L
Methylacrylonitrile	126-98-7	SW 8260	ug/L
Methylene chloride (Dichloromethane)	75-09-2	SW 8260	ug/L
Pentachloroethane	76-01-7	SW 8260	ug/L
Styrene	100-42-5	SW 8260	ug/L
Tetrachloroethene (PCE)	127-18-4	SW 8260	ug/L
Toluene	108-88-3	SW 8260	ug/L
trans-1,2-Dichloroethene	156-60-5	SW 8260	ug/L
trans-1,3-Dichloropropene	10061-02-6	SW 8260	ug/L
trans-1,4-Dichlorobutene	110-57-6	SW 8260	ug/L
Trichloroethene (TCE)	79-01-6	SW 8260	ug/L
Trichlorofluoromethane	75-69-4	SW 8260	ug/L
Vinyl Acetate	108-05-4	SW 8260	ug/L
Vinyl Chloride	75-01-4	SW 8260	ug/L
Xylenes, Total	1330-20-7	SW 8260	ug/L
1,2,4,5-Tetrachlorobenzene	95-94-3	SW 8270	ug/L
1,2,4-Trichlorobenzene	120-82-1	SW 8270	ug/L
~~1,2-Dichlorobenzene~~ REPEAT	~~95-50-1~~	~~SW 8270~~	~~ug/L~~
1,3,5-Trinitrobenzene	99-35-4	SW 8270	ug/L
1,3-Dichlorobenzene	541-73-1	SW 8270	ug/L
1,3-Dinitrobenzene	99-65-0	SW 8270	ug/L
1,4-Dichlorobenzene	106-46-7	SW 8270	ug/L
1,4-Dioxane (p-Dioxane)	123-91-1	SW 8270	ug/L
1,4-Naphthoquinone	130-15-4	SW 8270	ug/L
1-Naphthylamine	134-32-7	SW 8270	ug/L
2,3,4,6-Tetrachlorophenol	58-90-2	SW 8270	ug/L
2,4,5-Trichlorophenol	95-95-4	SW 8270	ug/L
2,4,6-Trichlorophenol	88-06-2	SW 8270	ug/L
2,4-Dichlorophenol	120-83-2	SW 8270	ug/L
2,4-Dimethylphenol	105-67-9	SW 8270	ug/L
2,4-Dinitrophenol	51-28-5	SW 8270	ug/L
2,4-Dinitrotoluene	121-14-2	SW 8270	ug/L
2,6-Dichlorophenol	87-65-0	SW 8270	ug/L
2,6-Dinitrotoluene	606-20-2	SW 8270	ug/L
2-Acetylaminofluorene	53-96-3	SW 8270	ug/L
2-Chloronaphthalene	91-58-7	SW 8270	ug/L
2-Chlorophenol	95-57-8	SW 8270	ug/L
2-Methylaniline (o-Toluidine)	95-53-4	SW 8270	ug/L
2-Methylnaphthalene	91-57-6	SW 8270	ug/L
2-Methylphenol (o-Cresol)	95-48-7	SW 8270	ug/L

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2-Naphthylamine	91-59-8	SW 8270	ug/L
2-Nitroaniline	88-74-4	SW 8270	ug/L
2-Nitrophenol	88-75-5	SW 8270	ug/L
2-Picoline	109-06-8	SW 8270	ug/L
3,3'-Dichlorobenzidine	91-94-1	SW 8270	ug/L
3,3'-Dimethylbenzidine	119-93-7	SW 8270	ug/L
3-Methylchloranthrene	56-49-5	SW 8270	ug/L
3-Methylphenol (m-Cresol)	108-39-4	SW 8270	ug/L
3-Nitroaniline	99-09-2	SW 8270	ug/L
4,6-Dinitro-2-Methylphenol	534-52-1	SW 8270	ug/L
4-Aminobiphenyl	92-67-1	SW 8270	ug/L
4-Bromophenyl phenyl ether	101-55-3	SW 8270	ug/L
4-Chloro-3-Methylphenol	59-50-7	SW 8270	ug/L
4-Chloroaniline	106-47-8	SW 8270	ug/L
4-Chlorophenyl phenyl ether	7005-72-3	SW 8270	ug/L
4-Dimethylaminoazobenzene	60-11-7	SW 8270	ug/L
4-Methylphenol (p-Cresol)	106-44-5	SW 8270	ug/L
4-Nitroaniline	100-01-6	SW 8270	ug/L
4-Nitrophenol	100-02-7	SW 8270	ug/L
4-Nitroquinoline-N-Oxide	56-57-5	SW 8270	ug/L
5-Nitro-O-Toluidine	99-55-8	SW 8270	ug/L
7,12-Dimethylbenz(a)anthracene	57-97-6	SW 8270	ug/L
Acenaphthene	83-32-9	SW 8270	ug/L
Acenaphthylene	208-96-8	SW 8270	ug/L
Acetophenone	98-86-2	SW 8270	ug/L
Alpha, Alpha-Dimethylphenethylamine	122-09-8	SW 8270	ug/L
Aniline	62-53-3	SW 8270	ug/L
Anthracene	120-12-7	SW 8270	ug/L
Aramite	140-57-8	SW 8270	ug/L
Benzo(a)anthracene	56-55-3	SW 8270	ug/L
Benzo(a)pyrene	50-32-8	SW 8270	ug/L
Benzo(b)fluoranthene	205-99-2	SW 8270	ug/L
Benzo(g,h,i)perylene	191-24-2	SW 8270	ug/L
Benzo(k)fluoranthene	207-08-9	SW 8270	ug/L
Benzyl Alcohol	100-51-6	SW 8270	ug/L
bis(2-Chloroethoxy)methane	111-91-1	SW 8270	ug/L
bis(2-Chloroethyl)ether	111-44-4	SW 8270	ug/L
bis(2-Ethylhexyl)phthalate	117-81-7	SW 8270	ug/L
Bis(2-chloro-1-methylethyl) ether; 2,2'-Dichlorodiisop	108-60-1	SW 8270	ug/L
Butyl benzyl phthalate	85-68-7	SW 8270	ug/L
Chrysene	218-01-9	SW 8270	ug/L
Diallate	2303-16-4	SW 8270	ug/L
Dibenzo(a,h)anthracene	53-70-3	SW 8270	ug/L
Dibenzofuran	132-64-9	SW 8270	ug/L
Diethyl phthalate	84-66-2	SW 8270	ug/L
Dimethoate	60-51-5	SW 8270	ug/L
Dimethyl phthalate	131-11-3	SW 8270	ug/L

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Di-n-butyl phthalate	84-74-2	SW 8270	ug/L
Di-n-octyl phthalate	117-84-0	SW 8270	ug/L
Dinoseb	88-85-7	SW 8270	ug/L
Diphenylamine	122-39-4	SW 8270	ug/L
Ethyl methanesulfonate	62-50-0	SW 8270	ug/L
Ethylbenzene	100-41-4	SW 8270	ug/L
Famphur	52-85-7	SW 8270	ug/L
Fluoranthene	206-44-0	SW 8270	ug/L
Fluorene	86-73-7	SW 8270	ug/L
Hexachlorobenzene	118-74-1	SW 8270	ug/L
Hexachlorobutadiene	87-68-3	SW 8270	ug/L
Hexachlorocyclopentadiene	77-47-4	SW 8270	ug/L
Hexachloroethane	67-72-1	SW 8270	ug/L
Hexachlorophene	70-30-4	SW 8270	ug/L
Hexachloropropene	1888-71-7	SW 8270	ug/L
Indeno(1,2,3-cd)pyrene	193-39-5	SW 8270	ug/L
~~Iodomethane (Methyl iodide)~~ REPEAT	~~74-88-4~~	~~SW 8270~~	~~ug/L~~
Isodrin	465-73-6	SW 8270	ug/L
Isophorone	78-59-1	SW 8270	ug/L
Isosafrole	120-58-1	SW 8270	ug/L
Kepone	143-50-0	SW 8270	ug/L
Methapyrilene	91-80-5	SW 8270	ug/L
Methyl methanesulfonate	66-27-3	SW 8270	ug/L
Naphthalene	91-20-3	SW 8270	ug/L
Nitrobenzene	98-95-3	SW 8270	ug/L
N-Nitrosodiethylamine	55-18-5	SW 8270	ug/L
N-Nitrosodimethylamine	62-75-9	SW 8270	ug/L
N-Nitrosodi-n-butylamine	924-16-3	SW 8270	ug/L
N-Nitrosodi-n-propylamine	621-64-7	SW 8270	ug/L
N-Nitrosodiphenylamine	86-30-6	SW 8270	ug/L
N-Nitrosomethylethylamine	10595-95-6	SW 8270	ug/L
N-Nitrosomorpholine	59-89-2	SW 8270	ug/L
N-Nitrosopiperidine	100-75-4	SW 8270	ug/L
N-Nitrosopyrrolidine	930-55-2	SW 8270	ug/L
Pentachlorobenzene	608-93-5	SW 8270	ug/L
Pentachloronitrobenzene	82-68-8	SW 8270	ug/L
Pentachlorophenol	87-86-5	SW 8270	ug/L
Phenacetin	62-44-2	SW 8270	ug/L
Phenanthrene	85-01-8	SW 8270	ug/L
Phenol	108-95-2	SW 8270	ug/L
P-Phenylenediamine	106-50-3	SW 8270	ug/L
Pronamide (Kerb)	23950-58-5	SW 8270	ug/L
Propionitrile	107-12-0	SW 8270	ug/L
Pyrene	129-00-0	SW 8270	ug/L
Pyridine	110-86-1	SW 8270	ug/L
Safrole	94-59-7	SW 8270	ug/L
~~Sulfotepp~~ REPEAT	~~3689-24-5~~	~~SW 8270~~	~~ug/L~~

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~~Thionazin~~ REPEAT	~~297-97-2~~	~~SW 8270~~	~~ug/L~~
1,2,3,4,6,7,8-HpCDD	35822-46-9	SW 8290	
1,2,3,4,6,7,8-HpCDF	67562-39-4	SW 8290	
1,2,3,4,7,8,9-HpCDF	55673-89-7	SW 8290	
1,2,3,4,7,8-HxCDD	39227-28-6	SW 8290	
1,2,3,4,7,8-HxCDF	70648-26-9	SW 8290	
1,2,3,6,7,8-HxCDD	57653-85-7	SW 8290	
1,2,3,6,7,8-HxCDF	57117-44-9	SW 8290	
1,2,3,7,8,9-HxCDD	19408-74-3	SW 8290	
1,2,3,7,8,9-HxCDF	72918-21-9	SW 8290	
1,2,3,7,8-PeCDD	40321-76-4	SW 8290	
1,2,3,7,8-PeCDF	57117-41-6	SW 8290	
2,3,4,6,7,8-HxCDF	60851-34-5	SW 8290	
2,3,4,7,8-PeCDF	57117-31-4	SW 8290	
2,3,7,8-TCDD	1746-01-6	SW 8290	pg/L
2,3,7,8-TCDF	51207-31-9	SW 8290	
HpCDD	37871-00-4	SW 8290	
HpCDF	38998-75-3	SW 8290	
HxCDD	34465-46-8	SW 8290	pg/L
HxCDF	55684-94-1	SW 8290	pg/L
OCDD	3268-87-9	SW 8290	
OCDF	39001-02-0	SW 8290	
PeCDD	36088-22-9	SW 8290	pg/L
PeCDF	30402-15-4	SW 8290	pg/L
TCDD	41903-57-5	SW 8290	pg/L
TCDF	30402-14-3	SW 8290	pg/L
Phenolics, total	64743-03-9	EPA 420.1	ug/L

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For WO# 20247389

TABLE 2 MONITORING LIST FOR ANALYSIS
Alabama Wood Treating Corporation
Site Mobile, Alabama

Site-Specific Constituent	CAS #	Method	Units
Cyanide		EPA 335.2	
Sulfide (Sulfate)		EPA 376.2	mg/l
Phenolics, total	64743-03-9	EPA 420.1	ug/l
Arsenic	7440-38-2	SW 6020	mg/l
Copper	7440-50-8	SW 6020	mg/l
Barium		SW 6020	mg/l
Cadmium		SW 6020	mg/l
Chromium		SW 6020	mg/l
Lead		SW 6020	mg/l
Nickel		SW 6020	mg/l
Selenium		SW 6020	mg/l
Antimony		SW 6020	mg/l
Beryllium		SW 6020	mg/l
Silver		SW 6020	mg/l
Thallium		SW 6020	mg/l
Vanadium		SW 6020	mg/l
Zinc		SW 6020	mg/l
Tin		SW 6020	mg/l
Cobalt		SW 6020	mg/l
Mercury		SW 7470	mg/l
Aldrin		SW 8081	ug/l
2,4,5-TP (silvex)		SW 8151	mg/l
Benzene	71-43-2	SW 8260	ug/l
Xylenes, total	1330-20-7	SW 8260	ug/l
1,1-Dichloroethene		SW 8260	ug/l
Acetone		SW 8260	ug/l
Bromodichloromethane		SW 8260	ug/l
Carbon disulfide		SW 8260	ug/l
Chlorobenzene		SW 8260	ug/l
Chloroform		SW 8260	ug/l
cis-1,2-Dichloroethene		SW 8260	ug/l
Toluene		SW 8260	ug/l
trans-1,2-Dichloroethene		SW 8260	ug/l
Trichloroethene (TCE)		SW 8260	ug/l
1,2-Dichloropropane		SW 8260	ug/l
Ethylbenzene		SW 8260	ug/l
Vinyl Chloride		SW 8260	ug/l
1,1-Dichloroethane		SW 8260 ug/	ug/l
1-naphthylamine	134-32-7	SW 8270	ug/l
2-naphthylamine	91-59-8	SW 8270	ug/l
Acenaphthene	83-32-9	SW 8270	ug/l

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Acenaphthylene	208-96-8	SW 8270	ug/l
Anthracene	120-12-7	SW 8270	ug/l
Benzo(a)anthracene	56-55-3	SW 8270	ug/l
Benzo(a)pyrene	50-32-8	SW 8270	ug/l
Benzo(b)fluoranthene	205-99-2	SW 8270	ug/l
Benzo(g,h,i)perylene	191-24-2	SW 8270	ug/l
Benzo(k)fluoranthene	207-08-9	SW 8270	ug/l
Bis(2-ethylhexyl) phthalate	117-81-7	SW 8270	ug/l
Chrysene	218-01-9	SW 8270	ug/l
Dibenzofuran	132-64-9	SW 8270	ug/l
Dimethylphenol 2,4-	105-67-9	SW 8270	ug/l
Di-n-octyl phthalate	117-84-0	SW 8270	ug/l
Fluoranthene	206-44-0	SW 8270	ug/l
Fluorene	86-73-7	SW 8270	ug/l
Hexachloroethane	67-72-1	SW 8270	ug/l
Indeno(1,2,3-cd)pyrene	193-39-5	SW 8270	ug/l
Methylaniline hydrochloride, 2- (o-toluid	95-53-4	SW 8270	ug/l
Methylnaphthalene, 1-	90-12-0	SW 8270	ug/l
Methylnaphthalene, 2-	91-57-6	SW 8270	ug/l
Methylphenol, 4- (p-cresol)	106-44-5	SW 8270	ug/l
Naphthalene	91-20-3	SW 8270	ug/l
N-Nitrosodiphenylamine	86-30-6	SW 8270	ug/l
Pentachlorophenol	87-86-5	SW 8270	ug/l
Phenanthrene	85-01-8	SW 8270	ug/l
Phenol*	108-95-2	SW 8270	ug/l
Pyrene	129-00-0	SW 8270	ug/l
3-Methylphenol		SW 8270	ug/l
1,4-Dioxane		SW 8270	ug/l
1,2,3,4,6,7,8-HpCDD		SW 8290	pg/l
1,2,3,4,6,7,8-HpCDF		SW 8290	pg/l
1,2,3,4,7,8-HxCDD		SW 8290	pg/l
1,2,3,4,7,8-HxCDF		SW 8290	pg/l
1,2,3,4,7,8,9-HpCDF		SW 8290	pg/l
Total HpCDD		SW 8290	pg/l
Total HpCDF		SW 8290	pg/l
Total HxCDD		SW 8290	pg/l
Total HxCDF		SW 8290	pg/l
Total OCDD		SW 8290	pg/l
Total OCDF		SW 8290	pg/l
Total TCDD		SW 8290	pg/l
Total TCDF		SW 8290	pg/l
Total PeCDD		SW 8290	pg/l
Total PeCDF		SW 8290	pg/l
1,2,3,6,7,8-HxCDD		SW 8290	pg/l
1,2,3,6,7,8-HxCDF		SW 8290	pg/l
1,2,3,7,8,9-HxCDD		SW 8290	pg/l
1,2,3,7,8,9-HxCDF		SW 8290	pg/l

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1,2,3,7,8-PeCDD		SW 8290	pg/l
1,2,3,7,8-PeCDF		SW 8290	pg/l
2,3,4,6,7,8-HxCDF		SW 8290	pg/l
2,3,4,7,8-PeCDF		SW 8290	pg/l
2,3,7,8-TCDD		SW 8290	pg/l
2,3,7,8-TCDF		SW 8290	pg/l

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Table 2	Additional Information	Number Of Samples	Lab
EPA 335.4	Cyanide	29	PGC
EPA 420	Total Phenols	29	PGC
EPA 6020	As, Cu, Ba, Cd, Cr, Co, Pb, Ni, Se, Sb, Be, Ag, Tl, V, Zn, Sn	29	St. Rose
EPA 7470B	Hg	29	PGC
EPA 8081	Organochlorine Pesticides - Aldrin	29	Pace National
EPA 8151	Herbicides	29	Pace National
EPA 8260	VOC	29	Pace National
EPA 8270	SVOC Full List	29	Pace National
EPA 8290	Tetra-Octa (all 17 compounds)	29	Minneapolis
SM 4500	Sulfide	29	St. Rose

Table 3	Additional Information	Number of Samples	Lab
EPA 7470	Hg	3	PGC
EPA 335.4*	Cyanide	3	PGC
EPA 420	Total Phenols	3	PGC
EPA 6020	As, Cu, Ba, Cd, Cr, Co, Pb, Ni, Se, Sb, Be, Ag, Tl, V, Zn, Sn	3	St. Rose
EPA 8011	1,2-Dibromomethane & 1,2 Dibromo-3-chloropropane	3	Pace National
EPA 8081	Organochlorine Pesticides - Aldrin	3	Pace National
EPA 8082	PCBs	3	PGC
EPA 8141	Pesticides, Organophosphorus	3	Pace National
EPA 8151	Herbicides	3	Pace National
EPA 8260	VOC	3	Pace National
EPA 8270	SVOC Full List	3	Pace National
EPA 8290	Tetra-Octa (all 17 compounds)	3	Minneapolis
SM 4500	Sulfide	3	St. Rose

QC			
EPA 8260	VOCs - Trip Blank	4	Pace National

Internal Transfer Chain of Custody

WO# : 10614012

10614012

☐ Samples Pre-Logged into eCOC.

State Of Origin: AL

Cert. Needed: ☐ Yes

Workorder: 20247389 **Workorder Name:** Alabama Wood Treating

Owner Received Date: 6/21/2022 **Results Requested By:** 7/6/2022

Report To

Mary Kathryn Brenner
Pace Analytical Mobile Labs
4320 Midmost Dr
Mobile, AL 36609
USA
Phone 251-344-9106

Subcontract To

Pace Analytical Minneapolis
1700 Elm Street SE
Minneapolis, MN 55414
Phone (612)607-1700

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Requested Analysis: 8290	LAB USE ONLY
1	6-I	PS	6/21/2022 08:00	20247389001	Water	1	X	
2	6-S	PS	6/21/2022 08:00	20247389002	Water	1	X	
3	7-D	PS	6/21/2022 08:00	20247389003	Water	1	X	
4	7-IR	PS	6/21/2022 08:00	20247389004	Water	1	X	
5	7-S	PS	6/21/2022 08:00	20247389005	Water	1	X	
6	8-D	PS	6/21/2022 08:00	20247389006	Water	1	X	
7	8-DK	PS	6/21/2022 08:00	20247389007	Water	1	X	
8	8-I	PS	6/21/2022 08:00	20247389008	Water	1	X	
9	9-I	PS	6/20/2022 15:50	20247389009	Water	1	X	T2 (01)
10	8-S	PS	6/21/2022 08:00	20247389010	Water	1	X	
11	15-D	PS	6/20/2022 16:20	20247389011	Water	1	X	T2 (02)
12	15-I	PS	6/21/2022 08:00	20247389012	Water	1	X	
13	15-S	PS	6/20/2022 17:05	20247389013	Water	1	X	T2 (03)
14	16-D	PS	6/20/2022 13:30	20247389014	Water	1	X	T2 (04)
15	16-I	PS	6/20/2022 14:20	20247389015	Water	1	X	T2 (05)
16	17-D	PS	6/21/2022 08:00	20247389016	Water	1	X	
17	19-SR	PS	6/20/2022 09:40	20247389017	Water	1	X	T2 (06)
18	21-I	PS	6/21/2022 08:00	20247389018	Water	1	X	
19	23-D	PS	6/21/2022 08:00	20247389019	Water	1	X	

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: AL
Cert. Needed: ☐ Yes ☐ No

Workorder: 20247389 **Workorder Name:** Alabama Wood Treating

Owner Received Date: 6/21/2022 **Results Requested By:** 7/6/2022

Report To	Subcontract To
Mary Kathryn Brenner Pace Analytical Mobile Labs 4320 Midmost Dr Mobile, AL 36609 USA Phone 251-344-9106	Pace Analytical Minneapolis 1700 Elm Street SE Minneapolis, MN 55414 Phone (612)607-1700

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved						Requested Analysis: 8290												LAB USE ONLY
20	23-I	PS	6/21/2022 08:00	20247389020	Water	1						X												
21	31-DR	PS	6/20/2022 11:20	20247389021	Water	1						X												T2 007
22	31-IR	PS	6/20/2022 10:00	20247389022	Water	1						X												T2 008
23	32-I	PS	6/20/2022 11:45	20247389023	Water	1						X												T2 009
24	32-S	PS	6/20/2022 12:52	20247389024	Water	1						X												T2 010
25	Equipment Blank 1	PS	6/20/2022 07:25	20247389025	Water	1						X												T2 011
26	Equipment Blank 2	PS	6/20/2022 07:45	20247389026	Water	1						X												T2 012
27	Equipment Blank 3	PS	6/20/2022 08:05	20247389027	Water	1						X												T2 013
28	Equipment Blank 4	PS	6/21/2022 08:00	20247389028	Water	1						X												
29	Equipment Blank 5	PS	6/21/2022 08:00	20247389029	Water	1						X												
30	Equipment Blank 6	PS	6/21/2022 08:00	20247389030	Water	1						X												
31	Field Dup 1	PS	6/21/2022 08:00	20247389031	Water	1						X												
32	Field Dup 2	PS	6/21/2022 08:00	20247389032	Water	1						X												

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	Kyle A. Williams	6/21/2022 1530	PACE	6-22/8:00	IR10 Report with MDL and J Flags. All highlighted samples are included in this shipment. Collection date/time for other samples are subject to change.
2					
3					

Cooler Temperature on Receipt 2.5 °C	Custody Seal Y or (N)	Received on Ice (Y) or N	Samples Intact (Y) or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
This chain of custody is considered complete as is since this information is available in the owner laboratory.

T2 = Table 2

DC#_Title: ENV-FRM-MIN4-0150 v05_Sample Condition Upon Receipt (SCUR)

Effective Date: 04/12/2022

Sample Condition Upon Receipt

Client Name: PACE, AL

Project #: WO#: 10614012

PM: SCU Due Date: 07/14/22

CLIENT: PASI-NOLA

Courier: ☒Fed Ex ☐UPS ☐USPS ☐Client ☐Pace ☐SpeeDee ☐Commercial

See Exceptions ☐ENV-FRM-MIN4-0142

Tracking Number: 5844 1647 5337

Custody Seal on Cooler/Box Present? ☐Yes ☒No Seals Intact? ☐Yes ☒No Biological Tissue Frozen? ☐Yes ☐No ☒N/A

Packing Material: ☒Bubble Wrap ☒Bubble Bags ☐None ☐Other: Temp Blank? ☒Yes ☐No

Thermometer: ☐T1(0461) ☒T2(1336) ☐T3(0459) ☐T4(0254) ☐T5(0489) ☐T6(0235) ☐T7 (0042) ☐01339252/1710 ☐122639816 ☐140792808

Type of Ice: ☒Wet ☐Blue ☐None ☐Dry ☐Melted

Did Samples Originate in West Virginia? ☐Yes ☒No Were All Container Temps Taken? ☐Yes ☐No ☒N/A

Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: 2.5 °C

Correction Factor: TRUE Cooler Temp Corrected w/temp blank: 2.5 °C

Average Corrected Temp (no temp blank only): °C ☐See Exceptions ENV-FRM-MIN4-0142 ☐1 Container

USDA Regulated Soil: (☒ N/A, water sample/Other:) Date/Initials of Person Examining Contents: JM 6-22-22

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐Yes ☐No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐Yes ☐No

If Yes to either question, fill out a Regulated Soil Checklist ENV-FRM-MIN4-0154 and include with SCUR/COC paperwork.

Location (check one): ☐ Duluth ☒ Minneapolis ☐ Virginia

				COMMENTS:
Chain of Custody Present and Filled Out?	☒Yes	☐No		1.
Chain of Custody Relinquished?	☒Yes	☐No		2.
Sampler Name and/or Signature on COC?	☒Yes	☐No	☐N/A	3.
Samples Arrived within Hold Time?	☒Yes	☐No		4. If Fecal: ☐<8 hrs ☐>8hr, <24 hrs, ☐>24 hrs
Short Hold Time Analysis (<72 hr)?	☐Yes	☒No		5. ☐Fecal Coliform ☐HPC ☐Total Coliform/E coli ☐BOD/cBOD ☐Hex Chrome ☐Turbidity ☐Nitrate ☐Nitrite ☐Orthophos ☐Other
Rush Turn Around Time Requested?	☐Yes	☒No		6.
Sufficient Volume?	☒Yes	☐No		7.
Correct Containers Used? -Pace Containers Used?	☒Yes ☒Yes	☐No ☐No		8.
Containers Intact?	☒Yes	☐No		9.
Field Filtered Volume Received for Dissolved Tests?	☐Yes	☐No	☒N/A	10. Is sediment visible in the dissolved container? ☐Yes ☐No
Is sufficient information available to reconcile the samples to the COC? Matrix: ☒Water ☐Soil ☐Oil ☐Other-	☒Yes	☐No		11. If no, write ID/ Date/Time on Container Below: ☐See Exception ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	☐Yes	☐No	☒N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	☐Yes	☐No	☒N/A	☐ NaOH ☐ HNO_3 ☐ H_2SO_4 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☐Yes	☐No	☒N/A	Positive for Res. Chlorine? ☐Yes ☐No pH Paper Lot# ☐See Exception ENV-FRM-MIN4-0142
				Res. Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Headspace in Methyl Mercury Container?	☐Yes	☐No	☒N/A	
Extra labels present on soil VOA or WIDRO containers?	☐Yes	☐No	☒N/A	13. ☐See Exception ENV-FRM-MIN4-0140
Headspace in VOA Vials (greater than 6mm)?	☐Yes	☐No	☒N/A	
Trip Blank Present?	☐Yes	☐No	☒N/A	14.
Trip Blank Custody Seals Present?	☐Yes	☐No	☒N/A	Pace Trip Blank Lot # (if purchased):

CLIENT NOTIFICATION/RESOLUTION Field Data Required? ☐Yes ☐No

Person Contacted: Date/Time:

Comments/Resolution:

Project Manager Review: Date: 06/23/22

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: JM

Table 2	Additional Information	Number Of Samples	Lab
EPA 335.4	Cyanide	29	PGC
EPA 420	Total Phenols	29	PGC
EPA 6020	As, Cu, Ba, Cd, Cr, Co, Pb, Ni, Se, Sb, Be, Ag, Tl, V, Zn, Sn	29	St. Rose
EPA 7470B	Hg	29	PGC
EPA 8081	Organochlorine Pesticides - Aldrin	29	Pace National
EPA 8151	Herbicides	29	Pace National
EPA 8260	VOC	29	Pace National
EPA 8270	SVOC Full List	29	Pace National
EPA 8290	Tetra-Octa (all 17 compounds)	29	Minneapolis
SM 4500	Sulfide	29	St. Rose

Table 3	Additional Information	Number of Samples	Lab
EPA 7470	Hg	3	PGC
EPA 335.4*	Cyanide	3	PGC
EPA 420	Total Phenols	3	PGC
EPA 6020	As, Cu, Ba, Cd, Cr, Co, Pb, Ni, Se, Sb, Be, Ag, Tl, V, Zn, Sn	3	St. Rose
EPA 8011	1,2-Dibromomethane & 1,2 Dibromo-3-chloropropane	3	Pace National
EPA 8081	Organochlorine Pesticides - Aldrin	3	Pace National
EPA 8082	PCBs	3	PGC
EPA 8141	Pesticides, Organophosphorus	3	Pace National
EPA 8151	Herbicides	3	Pace National
EPA 8260	VOC	3	Pace National
EPA 8270	SVOC Full List	3	Pace National
EPA 8290	Tetra-Octa (all 17 compounds)	3	Minneapolis
SM 4500	Sulfide	3	St. Rose

QC			
EPA 8260	VOCs - Trip Blank	4	Pace National

For WO#20247389 MN

TABLE 2 MONITORING LIST FOR ANALYSIS
Alabama Wood Treating Corporation
Site Mobile, Alabama

Site-Specific Constituent	CAS #	Method	Units
Cyanide		EPA 335.2	
Sulfide (Sulfate)		EPA 376.2	mg/l
Phenolics, total	64743-03-9	EPA 420.1	ug/l
Arsenic	7440-38-2	SW 6020	mg/l
Copper	7440-50-8	SW 6020	mg/l
Barium		SW 6020	mg/l
Cadmium		SW 6020	mg/l
Chromium		SW 6020	mg/l
Lead		SW 6020	mg/l
Nickel		SW 6020	mg/l
Selenium		SW 6020	mg/l
Antimony		SW 6020	mg/l
Beryllium		SW 6020	mg/l
Silver		SW 6020	mg/l
Thallium		SW 6020	mg/l
Vanadium		SW 6020	mg/l
Zinc		SW 6020	mg/l
Tin		SW 6020	mg/l
Cobalt		SW 6020	mg/l
Mercury		SW 7470	mg/l
Aldrin		SW 8081	ug/l
2,4,5-TP (silvex)		SW 8151	mg/l
Benzene	71-43-2	SW 8260	ug/l
Xylenes, total	1330-20-7	SW 8260	ug/l
1,1-Dichloroethene		SW 8260	ug/l
Acetone		SW 8260	ug/l
Bromodichloromethane		SW 8260	ug/l
Carbon disulfide		SW 8260	ug/l
Chlorobenzene		SW 8260	ug/l
Chloroform		SW 8260	ug/l
cis-1,2-Dichloroethene		SW 8260	ug/l
Toluene		SW 8260	ug/l
trans-1,2-Dichloroethene		SW 8260	ug/l
Trichloroethene (TCE)		SW 8260	ug/l
1,2-Dichloropropane		SW 8260	ug/l
Ethylbenzene		SW 8260	ug/l
Vinyl Chloride		SW 8260	ug/l
1,1-Dichloroethane		SW 8260 ug/	ug/l
1-naphthylamine	134-32-7	SW 8270	ug/l
2-naphthylamine	91-59-8	SW 8270	ug/l
Acenaphthene	83-32-9	SW 8270	ug/l

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Acenaphthylene	208-96-8	SW 8270	ug/l
Anthracene	120-12-7	SW 8270	ug/l
Benzo(a)anthracene	56-55-3	SW 8270	ug/l
Benzo(a)pyrene	50-32-8	SW 8270	ug/l
Benzo(b)fluoranthene	205-99-2	SW 8270	ug/l
Benzo(g,h,i)perylene	191-24-2	SW 8270	ug/l
Benzo(k)fluoranthene	207-08-9	SW 8270	ug/l
Bis(2-ethylhexyl) phthalate	117-81-7	SW 8270	ug/l
Chrysene	218-01-9	SW 8270	ug/l
Dibenzofuran	132-64-9	SW 8270	ug/l
Dimethylphenol 2,4-	105-67-9	SW 8270	ug/l
Di-n-octyl phthalate	117-84-0	SW 8270	ug/l
Fluoranthene	206-44-0	SW 8270	ug/l
Fluorene	86-73-7	SW 8270	ug/l
Hexachloroethane	67-72-1	SW 8270	ug/l
Indeno(1,2,3-cd)pyrene	193-39-5	SW 8270	ug/l
Methylaniline hydrochloride, 2- (o-toluid	95-53-4	SW 8270	ug/l
Methylnaphthalene, 1-	90-12-0	SW 8270	ug/l
Methylnaphthalene, 2-	91-57-6	SW 8270	ug/l
Methylphenol, 4- (p-cresol)	106-44-5	SW 8270	ug/l
Naphthalene	91-20-3	SW 8270	ug/l
N-Nitrosodiphenylamine	86-30-6	SW 8270	ug/l
Pentachlorophenol	87-86-5	SW 8270	ug/l
Phenanthrene	85-01-8	SW 8270	ug/l
Phenol*	108-95-2	SW 8270	ug/l
Pyrene	129-00-0	SW 8270	ug/l
3-Methylphenol		SW 8270	ug/l
1,4-Dioxane		SW 8270	ug/l
1,2,3,4,6,7,8-HpCDD		SW 8290	pg/l
1,2,3,4,6,7,8-HpCDF		SW 8290	pg/l
1,2,3,4,7,8-HxCDD		SW 8290	pg/l
1,2,3,4,7,8-HxCDF		SW 8290	pg/l
1,2,3,4,7,8,9-HpCDF		SW 8290	pg/l
Total HpCDD		SW 8290	pg/l
Total HpCDF		SW 8290	pg/l
Total HxCDD		SW 8290	pg/l
Total HxCDF		SW 8290	pg/l
Total OCDD		SW 8290	pg/l
Total OCDF		SW 8290	pg/l
Total TCDD		SW 8290	pg/l
Total TCDF		SW 8290	pg/l
Total PeCDD		SW 8290	pg/l
Total PeCDF		SW 8290	pg/l
1,2,3,6,7,8-HxCDD		SW 8290	pg/l
1,2,3,6,7,8-HxCDF		SW 8290	pg/l
1,2,3,7,8,9-HxCDD		SW 8290	pg/l
1,2,3,7,8,9-HxCDF		SW 8290	pg/l

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1,2,3,7,8-PeCDD		SW 8290	pg/l
1,2,3,7,8-PeCDF		SW 8290	pg/l
2,3,4,6,7,8-HxCDF		SW 8290	pg/l
2,3,4,7,8-PeCDF		SW 8290	pg/l
2,3,7,8-TCDD		SW 8290	pg/l
2,3,7,8-TCDF		SW 8290	pg/l

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Reporting Flags

A = Reporting Limit based on signal to noise (EDL)

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

H2 = Extracted outside of holding time

I = Isotope ratio out of specification

J = Estimated value

L = Suppressive interference, analyte may be biased low

Nn = Value obtained from additional analysis

P = PCDE Interference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

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Appendix B

Sample Analysis Summary

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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Tel: 612-607-1700
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	6-I		
Lab Sample ID	20247389001		
Filename	L220629A_15		
Injected By	SMT		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 10:55
ICAL ID	L220428	Received	06/23/2022 09:30
CCal Filename(s)	L220629A_01 & L220629A_18	Extracted	06/24/2022 13:30
Method Blank ID	BLANK-99639	Analyzed	06/29/2022 20:14

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	0.31		2,3,7,8-TCDF-13C	2.00	77	
Total TCDF	ND	-----	0.31		2,3,7,8-TCDD-13C	2.00	68	
					1,2,3,7,8-PeCDF-13C	2.00	61	
2,3,7,8-TCDD	ND	-----	0.52		2,3,4,7,8-PeCDF-13C	2.00	89	
Total TCDD	ND	-----	0.52		1,2,3,7,8-PeCDD-13C	2.00	85	
					1,2,3,4,7,8-HxCDF-13C	2.00	35	R
1,2,3,7,8-PeCDF	ND	-----	0.37		1,2,3,6,7,8-HxCDF-13C	2.00	73	
2,3,4,7,8-PeCDF	ND	-----	0.15		2,3,4,6,7,8-HxCDF-13C	2.00	80	
Total PeCDF	ND	-----	0.15		1,2,3,7,8,9-HxCDF-13C	2.00	41	
					1,2,3,4,7,8-HxCDD-13C	2.00	59	
1,2,3,7,8-PeCDD	ND	-----	0.34		1,2,3,6,7,8-HxCDD-13C	2.00	67	
Total PeCDD	ND	-----	0.34		1,2,3,4,6,7,8-HpCDF-13C	2.00	38	R
					1,2,3,4,7,8,9-HpCDF-13C	2.00	54	
1,2,3,4,7,8-HxCDF	ND	-----	0.67		1,2,3,4,6,7,8-HpCDD-13C	2.00	55	
1,2,3,6,7,8-HxCDF	ND	-----	0.28		OCDD-13C	4.00	53	
2,3,4,6,7,8-HxCDF	ND	-----	0.22					
1,2,3,7,8,9-HxCDF	0.86	-----	0.65	BJ	1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	0.86	-----	0.22	BJ	1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	-----	1.1	0.90	IJ	2,3,7,8-TCDD-37Cl4	0.20	83	
1,2,3,6,7,8-HxCDD	ND	-----	0.89					
1,2,3,7,8,9-HxCDD	ND	-----	0.90					
Total HxCDD	ND	-----	0.89					
1,2,3,4,6,7,8-HpCDF	ND	-----	1.4		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	1.4		Equivalence: 0.20 pg/L			
Total HpCDF	ND	-----	1.4		(Lower-bound - Using 2005 WHO Factors)			
1,2,3,4,6,7,8-HpCDD	ND	-----	1.2					
Total HpCDD	1.7	-----	1.2	J				
OCDF	ND	-----	1.7					
OCDD	8.3	-----	2.4	BJ				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level
R = Recovery outside target range
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	6-S		
Lab Sample ID	20247389002		
Filename	L220629A_16		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 09:45
ICAL ID	L220428	Received	06/23/2022 09:30
CCal Filename(s)	L220629A_01 & L220629A_18	Extracted	06/24/2022 13:30
Method Blank ID	BLANK-99639	Analyzed	06/29/2022 20:58

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	0.62		2,3,7,8-TCDF-13C	2.00	70	
Total TCDF	ND	-----	0.62		2,3,7,8-TCDD-13C	2.00	61	
					1,2,3,7,8-PeCDF-13C	2.00	57	
2,3,7,8-TCDD	ND	-----	0.67		2,3,4,7,8-PeCDF-13C	2.00	77	
Total TCDD	ND	-----	0.67		1,2,3,7,8-PeCDD-13C	2.00	77	
					1,2,3,4,7,8-HxCDF-13C	2.00	41	
1,2,3,7,8-PeCDF	ND	-----	0.66		1,2,3,6,7,8-HxCDF-13C	2.00	69	
2,3,4,7,8-PeCDF	ND	-----	0.23		2,3,4,6,7,8-HxCDF-13C	2.00	73	
Total PeCDF	ND	-----	0.23		1,2,3,7,8,9-HxCDF-13C	2.00	42	
					1,2,3,4,7,8-HxCDD-13C	2.00	52	
1,2,3,7,8-PeCDD	ND	-----	0.61		1,2,3,6,7,8-HxCDD-13C	2.00	63	
Total PeCDD	3.3	-----	0.61	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	39	R
					1,2,3,4,7,8,9-HpCDF-13C	2.00	50	
1,2,3,4,7,8-HxCDF	ND	-----	0.41		1,2,3,4,6,7,8-HpCDD-13C	2.00	52	
1,2,3,6,7,8-HxCDF	ND	-----	0.51		OCDD-13C	4.00	50	
2,3,4,6,7,8-HxCDF	ND	-----	0.41					
1,2,3,7,8,9-HxCDF	ND	-----	0.39		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	ND	-----	0.39		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	-----	1.3	0.45	IJ	2,3,7,8-TCDD-37Cl4	0.20	85	
1,2,3,6,7,8-HxCDD	ND	-----	1.1					
1,2,3,7,8,9-HxCDD	ND	-----	0.91					
Total HxCDD	4.6	-----	0.45	BJ				
1,2,3,4,6,7,8-HpCDF	-----	1.4	1.2	IJ	Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	1.6		Equivalence: 0.22 pg/L			
Total HpCDF	ND	-----	1.2		(Lower-bound - Using 2005 WHO Factors)			
1,2,3,4,6,7,8-HpCDD	6.5	-----	1.5	J				
Total HpCDD	6.5	-----	1.5	J				
OCDF	ND	-----	1.8					
OCDD	30	-----	1.5	BJ				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level
R = Recovery outside target range
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	7-D		
Lab Sample ID	20247389003		
Filename	F220629A_05		
Injected By	SMT		
Total Amount Extracted	1020 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 08:20
ICAL ID	F220529	Received	06/23/2022 09:30
CCal Filename(s)	F220629A_03 & F220629A_19	Extracted	06/24/2022 13:30
Method Blank ID	BLANK-99639	Analyzed	06/29/2022 12:16

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.54		2,3,7,8-TCDF-13C	2.00	85
Total TCDF	ND	-----	0.54		2,3,7,8-TCDD-13C	2.00	86
					1,2,3,7,8-PeCDF-13C	2.00	85
2,3,7,8-TCDD	ND	-----	0.58		2,3,4,7,8-PeCDF-13C	2.00	87
Total TCDD	ND	-----	0.58		1,2,3,7,8-PeCDD-13C	2.00	92
					1,2,3,4,7,8-HxCDF-13C	2.00	91
1,2,3,7,8-PeCDF	ND	-----	0.66		1,2,3,6,7,8-HxCDF-13C	2.00	83
2,3,4,7,8-PeCDF	ND	-----	0.23		2,3,4,6,7,8-HxCDF-13C	2.00	89
Total PeCDF	ND	-----	0.23		1,2,3,7,8,9-HxCDF-13C	2.00	82
					1,2,3,4,7,8-HxCDD-13C	2.00	93
1,2,3,7,8-PeCDD	ND	-----	0.62		1,2,3,6,7,8-HxCDD-13C	2.00	97
Total PeCDD	ND	-----	0.62		1,2,3,4,6,7,8-HpCDF-13C	2.00	90
					1,2,3,4,7,8,9-HpCDF-13C	2.00	77
1,2,3,4,7,8-HxCDF	ND	-----	0.53		1,2,3,4,6,7,8-HpCDD-13C	2.00	94
1,2,3,6,7,8-HxCDF	ND	-----	0.61		OCDD-13C	4.00	61
2,3,4,6,7,8-HxCDF	ND	-----	0.54				
1,2,3,7,8,9-HxCDF	-----	0.94	0.42	IJ	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.42		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.6	-----	0.65	BJ	2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	ND	-----	0.55				
1,2,3,7,8,9-HxCDD	ND	-----	0.44				
Total HxCDD	1.6	-----	0.44	BJ			
1,2,3,4,6,7,8-HpCDF	ND	-----	0.78		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.49		Equivalence: 0.28 pg/L		
Total HpCDF	ND	-----	0.49		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	2.5	0.95	IJ			
Total HpCDD	2.6	-----	0.95	J			
OCDF	-----	1.5	1.0	IJ			
OCDD	-----	19	1.9	IJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	7-IR		
Lab Sample ID	20247389004		
Filename	F220629A_06		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 09:20
ICAL ID	F220529	Received	06/23/2022 09:30
CCal Filename(s)	F220629A_03 & F220629A_19	Extracted	06/24/2022 13:30
Method Blank ID	BLANK-99639	Analyzed	06/29/2022 13:02

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.51		2,3,7,8-TCDF-13C	2.00	88
Total TCDF	ND	-----	0.51		2,3,7,8-TCDD-13C	2.00	90
					1,2,3,7,8-PeCDF-13C	2.00	87
2,3,7,8-TCDD	ND	-----	0.91		2,3,4,7,8-PeCDF-13C	2.00	88
Total TCDD	ND	-----	0.91		1,2,3,7,8-PeCDD-13C	2.00	95
					1,2,3,4,7,8-HxCDF-13C	2.00	103
1,2,3,7,8-PeCDF	ND	-----	0.62		1,2,3,6,7,8-HxCDF-13C	2.00	90
2,3,4,7,8-PeCDF	0.83	-----	0.46	BJ	2,3,4,6,7,8-HxCDF-13C	2.00	100
Total PeCDF	0.83	-----	0.46	BJ	1,2,3,7,8,9-HxCDF-13C	2.00	89
					1,2,3,4,7,8-HxCDD-13C	2.00	106
1,2,3,7,8-PeCDD	ND	-----	0.38		1,2,3,6,7,8-HxCDD-13C	2.00	107
Total PeCDD	ND	-----	0.38		1,2,3,4,6,7,8-HpCDF-13C	2.00	95
					1,2,3,4,7,8,9-HpCDF-13C	2.00	80
1,2,3,4,7,8-HxCDF	ND	-----	0.35		1,2,3,4,6,7,8-HpCDD-13C	2.00	100
1,2,3,6,7,8-HxCDF	ND	-----	0.26		OCDD-13C	4.00	65
2,3,4,6,7,8-HxCDF	-----	0.58	0.46	IJ			
1,2,3,7,8,9-HxCDF	-----	0.66	0.53	IJ	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.26		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	2.3	-----	0.93	BJ	2,3,7,8-TCDD-37Cl4	0.20	82
1,2,3,6,7,8-HxCDD	ND	-----	0.87				
1,2,3,7,8,9-HxCDD	0.99	-----	0.85	J			
Total HxCDD	5.8	-----	0.85	BJ			
1,2,3,4,6,7,8-HpCDF	ND	-----	0.98		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	1.6		Equivalence: 0.72 pg/L		
Total HpCDF	ND	-----	0.98		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	1.5	0.83	IJ			
Total HpCDD	2.4	-----	0.83	J			
OCDF	-----	1.7	1.6	IJ			
OCDD	11	-----	3.6	BJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	7-S		
Lab Sample ID	20247389005		
Filename	F220629A_07		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 08:10
ICAL ID	F220529	Received	06/23/2022 09:30
CCal Filename(s)	F220629A_03 & F220629A_19	Extracted	06/24/2022 13:30
Method Blank ID	BLANK-99639	Analyzed	06/29/2022 13:47

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.73		2,3,7,8-TCDF-13C	2.00	73
Total TCDF	ND	-----	0.73		2,3,7,8-TCDD-13C	2.00	76
					1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	ND	-----	1.1		2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD	ND	-----	1.1		1,2,3,7,8-PeCDD-13C	2.00	82
					1,2,3,4,7,8-HxCDF-13C	2.00	88
1,2,3,7,8-PeCDF	ND	-----	0.46		1,2,3,6,7,8-HxCDF-13C	2.00	75
2,3,4,7,8-PeCDF	ND	-----	0.21		2,3,4,6,7,8-HxCDF-13C	2.00	83
Total PeCDF	ND	-----	0.21		1,2,3,7,8,9-HxCDF-13C	2.00	75
					1,2,3,4,7,8-HxCDD-13C	2.00	89
1,2,3,7,8-PeCDD	ND	-----	1.1		1,2,3,6,7,8-HxCDD-13C	2.00	89
Total PeCDD	2.3	-----	1.1	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	79
					1,2,3,4,7,8,9-HpCDF-13C	2.00	69
1,2,3,4,7,8-HxCDF	ND	-----	0.51		1,2,3,4,6,7,8-HpCDD-13C	2.00	85
1,2,3,6,7,8-HxCDF	ND	-----	0.47		OCDD-13C	4.00	54
2,3,4,6,7,8-HxCDF	ND	-----	0.39				
1,2,3,7,8,9-HxCDF	ND	-----	0.49		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.39		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.1		2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	ND	-----	0.70				
1,2,3,7,8,9-HxCDD	ND	-----	0.72				
Total HxCDD	8.6	-----	0.70	BJ			
1,2,3,4,6,7,8-HpCDF	ND	-----	0.89		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	1.9		Equivalence: 0.0035 pg/L		
Total HpCDF	ND	-----	0.89		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	1.3				
Total HpCDD	ND	-----	1.3				
OCDF	ND	-----	1.2				
OCDD	12	-----	2.8	BJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	8-D		
Lab Sample ID	20247389006		
Filename	F220629B_02		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 15:10
ICAL ID	F220529	Received	06/23/2022 09:30
CCal Filename(s)	F220629A_19 & F220629B_08	Extracted	06/24/2022 13:30
Method Blank ID	BLANK-99639	Analyzed	06/30/2022 00:25

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	0.33		2,3,7,8-TCDF-13C	2.00	88	
Total TCDF	ND	-----	0.33		2,3,7,8-TCDD-13C	2.00	88	
					1,2,3,7,8-PeCDF-13C	2.00	86	
2,3,7,8-TCDD	ND	-----	0.73		2,3,4,7,8-PeCDF-13C	2.00	90	
Total TCDD	ND	-----	0.73		1,2,3,7,8-PeCDD-13C	2.00	93	
					1,2,3,4,7,8-HxCDF-13C	2.00	98	
1,2,3,7,8-PeCDF	ND	-----	0.24		1,2,3,6,7,8-HxCDF-13C	2.00	88	
2,3,4,7,8-PeCDF	ND	-----	0.38		2,3,4,6,7,8-HxCDF-13C	2.00	92	
Total PeCDF	ND	-----	0.24		1,2,3,7,8,9-HxCDF-13C	2.00	85	
					1,2,3,4,7,8-HxCDD-13C	2.00	96	
1,2,3,7,8-PeCDD	ND	-----	0.35		1,2,3,6,7,8-HxCDD-13C	2.00	106	
Total PeCDD	ND	-----	0.35		1,2,3,4,6,7,8-HpCDF-13C	2.00	94	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	77	
1,2,3,4,7,8-HxCDF	ND	-----	0.34		1,2,3,4,6,7,8-HpCDD-13C	2.00	98	
1,2,3,6,7,8-HxCDF	ND	-----	0.25		OCDD-13C	4.00	85	Y
2,3,4,6,7,8-HxCDF	ND	-----	0.34					
1,2,3,7,8,9-HxCDF	ND	-----	0.42		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	ND	-----	0.25		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	-----	1.3	0.88	IJ	2,3,7,8-TCDD-37Cl4	0.20	75	
1,2,3,6,7,8-HxCDD	ND	-----	0.51					
1,2,3,7,8,9-HxCDD	ND	-----	0.54					
Total HxCDD	ND	-----	0.51					
1,2,3,4,6,7,8-HpCDF	ND	-----	0.52		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	0.79		Equivalence: 0.14 pg/L			
Total HpCDF	ND	-----	0.52		(Lower-bound - Using 2005 WHO Factors)			
1,2,3,4,6,7,8-HpCDD	ND	-----	1.4					
Total HpCDD	1.9	-----	1.4	J				
OCDF	-----	1.3	1.1	IJ				
OCDD	6.8	-----	1.2	BJ				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level
I = Isotope ratio out of specification
Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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Tel: 612-607-1700
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	8-DK		
Lab Sample ID	20247389007		
Filename	F220629A_08		
Injected By	SMT		
Total Amount Extracted	1010 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/22/2022 08:40
ICAL ID	F220529	Received	06/23/2022 09:30
CCal Filename(s)	F220629A_03 & F220629A_19	Extracted	06/24/2022 13:30
Method Blank ID	BLANK-99639	Analyzed	06/29/2022 14:33

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.47		2,3,7,8-TCDF-13C	2.00	73
Total TCDF	ND	-----	0.47		2,3,7,8-TCDD-13C	2.00	76
					1,2,3,7,8-PeCDF-13C	2.00	73
2,3,7,8-TCDD	ND	-----	0.95		2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD	ND	-----	0.95		1,2,3,7,8-PeCDD-13C	2.00	82
					1,2,3,4,7,8-HxCDF-13C	2.00	85
1,2,3,7,8-PeCDF	ND	-----	0.54		1,2,3,6,7,8-HxCDF-13C	2.00	74
2,3,4,7,8-PeCDF	ND	-----	0.28		2,3,4,6,7,8-HxCDF-13C	2.00	81
Total PeCDF	ND	-----	0.28		1,2,3,7,8,9-HxCDF-13C	2.00	73
					1,2,3,4,7,8-HxCDD-13C	2.00	88
1,2,3,7,8-PeCDD	ND	-----	0.51		1,2,3,6,7,8-HxCDD-13C	2.00	87
Total PeCDD	ND	-----	0.51		1,2,3,4,6,7,8-HpCDF-13C	2.00	77
					1,2,3,4,7,8,9-HpCDF-13C	2.00	68
1,2,3,4,7,8-HxCDF	-----	0.51	0.18	IJ	1,2,3,4,6,7,8-HpCDD-13C	2.00	79
1,2,3,6,7,8-HxCDF	ND	-----	0.19		OCDD-13C	4.00	54
2,3,4,6,7,8-HxCDF	ND	-----	0.51				
1,2,3,7,8,9-HxCDF	ND	-----	0.39		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.18		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	-----	1.8	0.80	IJ	2,3,7,8-TCDD-37Cl4	0.20	83
1,2,3,6,7,8-HxCDD	ND	-----	0.62				
1,2,3,7,8,9-HxCDD	ND	-----	0.79				
Total HxCDD	ND	-----	0.62				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.76		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.85		Equivalence: 0.26 pg/L		
Total HpCDF	ND	-----	0.76		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	2.3	0.78	IJ			
Total HpCDD	ND	-----	0.78				
OCDF	-----	2.4	1.4	IJ			
OCDD	-----	16	1.6	IJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
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EDL = Estimated Detection Limit

ND = Not Detected
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NC = Not Calculated

J = Estimated value
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	8-I		
Lab Sample ID	20247389008		
Filename	F220629A_09		
Injected By	SMT		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/22/2022 08:40
ICAL ID	F220529	Received	06/23/2022 09:30
CCal Filename(s)	F220629A_03 & F220629A_19	Extracted	06/24/2022 13:30
Method Blank ID	BLANK-99697	Analyzed	06/29/2022 15:18

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.33		2,3,7,8-TCDF-13C	2.00	88
Total TCDF	ND	-----	0.33		2,3,7,8-TCDD-13C	2.00	88
					1,2,3,7,8-PeCDF-13C	2.00	91
2,3,7,8-TCDD	ND	-----	0.62		2,3,4,7,8-PeCDF-13C	2.00	89
Total TCDD	ND	-----	0.62		1,2,3,7,8-PeCDD-13C	2.00	95
					1,2,3,4,7,8-HxCDF-13C	2.00	99
1,2,3,7,8-PeCDF	ND	-----	0.62		1,2,3,6,7,8-HxCDF-13C	2.00	89
2,3,4,7,8-PeCDF	ND	-----	0.25		2,3,4,6,7,8-HxCDF-13C	2.00	96
Total PeCDF	ND	-----	0.25		1,2,3,7,8,9-HxCDF-13C	2.00	91
					1,2,3,4,7,8-HxCDD-13C	2.00	104
1,2,3,7,8-PeCDD	ND	-----	0.48		1,2,3,6,7,8-HxCDD-13C	2.00	103
Total PeCDD	ND	-----	0.48		1,2,3,4,6,7,8-HpCDF-13C	2.00	94
					1,2,3,4,7,8,9-HpCDF-13C	2.00	82
1,2,3,4,7,8-HxCDF	ND	-----	0.28		1,2,3,4,6,7,8-HpCDD-13C	2.00	100
1,2,3,6,7,8-HxCDF	ND	-----	0.38		OCDD-13C	4.00	67
2,3,4,6,7,8-HxCDF	ND	-----	0.33				
1,2,3,7,8,9-HxCDF	ND	-----	0.44		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.28		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.6	-----	0.97	BJ	2,3,7,8-TCDD-37Cl4	0.20	74
1,2,3,6,7,8-HxCDD	1.4	-----	0.94	J			
1,2,3,7,8,9-HxCDD	ND	-----	0.89				
Total HxCDD	3.1	-----	0.89	BJ			
1,2,3,4,6,7,8-HpCDF	ND	-----	0.44		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.98		Equivalence: 0.31 pg/L		
Total HpCDF	ND	-----	0.44		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.99				
Total HpCDD	2.4	-----	0.99	J			
OCDF	ND	-----	1.5				
OCDD	8.9	-----	1.3	BJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	9-I		
Lab Sample ID	20247389009		
Filename	F220629A_10		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/20/2022 15:50
ICAL ID	F220529	Received	06/22/2022 08:50
CCal Filename(s)	F220629A_03 & F220629A_19	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/29/2022 16:04

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.45		2,3,7,8-TCDF-13C	2.00	81
Total TCDF	ND	-----	0.45		2,3,7,8-TCDD-13C	2.00	84
					1,2,3,7,8-PeCDF-13C	2.00	81
2,3,7,8-TCDD	ND	-----	0.95		2,3,4,7,8-PeCDF-13C	2.00	80
Total TCDD	ND	-----	0.95		1,2,3,7,8-PeCDD-13C	2.00	87
					1,2,3,4,7,8-HxCDF-13C	2.00	98
1,2,3,7,8-PeCDF	ND	-----	0.63		1,2,3,6,7,8-HxCDF-13C	2.00	85
2,3,4,7,8-PeCDF	ND	-----	0.37		2,3,4,6,7,8-HxCDF-13C	2.00	92
Total PeCDF	ND	-----	0.37		1,2,3,7,8,9-HxCDF-13C	2.00	84
					1,2,3,4,7,8-HxCDD-13C	2.00	95
1,2,3,7,8-PeCDD	ND	-----	0.61		1,2,3,6,7,8-HxCDD-13C	2.00	103
Total PeCDD	ND	-----	0.61		1,2,3,4,6,7,8-HpCDF-13C	2.00	91
					1,2,3,4,7,8,9-HpCDF-13C	2.00	77
1,2,3,4,7,8-HxCDF	ND	-----	0.37		1,2,3,4,6,7,8-HpCDD-13C	2.00	87
1,2,3,6,7,8-HxCDF	ND	-----	0.45		OCDD-13C	4.00	64
2,3,4,6,7,8-HxCDF	ND	-----	0.47				
1,2,3,7,8,9-HxCDF	1.2	-----	0.52	BJ	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	1.2	-----	0.37	BJ	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.8	-----	0.79	BJ	2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	ND	-----	1.2				
1,2,3,7,8,9-HxCDD	ND	-----	1.1				
Total HxCDD	1.8	-----	0.79	BJ			
1,2,3,4,6,7,8-HpCDF	ND	-----	1.4		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	1.5		Equivalence: 0.30 pg/L		
Total HpCDF	ND	-----	1.4		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.98				
Total HpCDD	ND	-----	0.98				
OCDF	ND	-----	1.5				
OCDD	-----	5.4	2.9	IJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	8-S		
Lab Sample ID	20247389010		
Filename	F220629A_11		
Injected By	SMT		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 15:00
ICAL ID	F220529	Received	06/23/2022 09:30
CCal Filename(s)	F220629A_03 & F220629A_19	Extracted	06/24/2022 13:30
Method Blank ID	BLANK-99697	Analyzed	06/29/2022 16:49

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.41		2,3,7,8-TCDF-13C	2.00	92
Total TCDF	ND	-----	0.41		2,3,7,8-TCDD-13C	2.00	93
					1,2,3,7,8-PeCDF-13C	2.00	92
2,3,7,8-TCDD	ND	-----	0.63		2,3,4,7,8-PeCDF-13C	2.00	93
Total TCDD	ND	-----	0.63		1,2,3,7,8-PeCDD-13C	2.00	102
					1,2,3,4,7,8-HxCDF-13C	2.00	101
1,2,3,7,8-PeCDF	ND	-----	0.31		1,2,3,6,7,8-HxCDF-13C	2.00	92
2,3,4,7,8-PeCDF	ND	-----	0.19		2,3,4,6,7,8-HxCDF-13C	2.00	98
Total PeCDF	ND	-----	0.19		1,2,3,7,8,9-HxCDF-13C	2.00	88
					1,2,3,4,7,8-HxCDD-13C	2.00	107
1,2,3,7,8-PeCDD	ND	-----	0.54		1,2,3,6,7,8-HxCDD-13C	2.00	103
Total PeCDD	ND	-----	0.54		1,2,3,4,6,7,8-HpCDF-13C	2.00	97
					1,2,3,4,7,8,9-HpCDF-13C	2.00	87
1,2,3,4,7,8-HxCDF	ND	-----	0.44		1,2,3,4,6,7,8-HpCDD-13C	2.00	103
1,2,3,6,7,8-HxCDF	ND	-----	0.20		OCDD-13C	4.00	67
2,3,4,6,7,8-HxCDF	ND	-----	0.19				
1,2,3,7,8,9-HxCDF	-----	0.99	0.31	IJ	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.19		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.3	-----	0.53	BJ	2,3,7,8-TCDD-37Cl4	0.20	81
1,2,3,6,7,8-HxCDD	ND	-----	0.75				
1,2,3,7,8,9-HxCDD	ND	-----	0.74				
Total HxCDD	1.3	-----	0.53	BJ			
1,2,3,4,6,7,8-HpCDF	-----	0.69	0.59	IJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.92		Equivalence: 0.24 pg/L		
Total HpCDF	ND	-----	0.59		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.76				
Total HpCDD	1.4	-----	0.76	J			
OCDF	ND	-----	0.90				
OCDD	5.8	-----	1.2	BJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	15-D		
Lab Sample ID	20247389011		
Filename	F220629A_12		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/20/2022 16:20
ICAL ID	F220529	Received	06/22/2022 08:50
CCal Filename(s)	F220629A_03 & F220629A_19	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/29/2022 17:35

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.50		2,3,7,8-TCDF-13C	2.00	87
Total TCDF	ND	-----	0.50		2,3,7,8-TCDD-13C	2.00	90
					1,2,3,7,8-PeCDF-13C	2.00	88
2,3,7,8-TCDD	ND	-----	1.00		2,3,4,7,8-PeCDF-13C	2.00	89
Total TCDD	ND	-----	1.00		1,2,3,7,8-PeCDD-13C	2.00	97
					1,2,3,4,7,8-HxCDF-13C	2.00	108
1,2,3,7,8-PeCDF	ND	-----	0.43		1,2,3,6,7,8-HxCDF-13C	2.00	91
2,3,4,7,8-PeCDF	ND	-----	0.20		2,3,4,6,7,8-HxCDF-13C	2.00	99
Total PeCDF	ND	-----	0.20		1,2,3,7,8,9-HxCDF-13C	2.00	94
					1,2,3,4,7,8-HxCDD-13C	2.00	107
1,2,3,7,8-PeCDD	ND	-----	0.65		1,2,3,6,7,8-HxCDD-13C	2.00	113
Total PeCDD	ND	-----	0.65		1,2,3,4,6,7,8-HpCDF-13C	2.00	101
					1,2,3,4,7,8,9-HpCDF-13C	2.00	85
1,2,3,4,7,8-HxCDF	ND	-----	0.35		1,2,3,4,6,7,8-HpCDD-13C	2.00	97
1,2,3,6,7,8-HxCDF	ND	-----	0.57		OCDD-13C	4.00	69
2,3,4,6,7,8-HxCDF	ND	-----	0.57				
1,2,3,7,8,9-HxCDF	-----	0.86	0.59	IJ	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.35		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.7	-----	1.3	BJ	2,3,7,8-TCDD-37Cl4	0.20	91
1,2,3,6,7,8-HxCDD	ND	-----	1.3				
1,2,3,7,8,9-HxCDD	ND	-----	1.3				
Total HxCDD	1.7	-----	1.3	BJ			
1,2,3,4,6,7,8-HpCDF	-----	0.78	0.74	IJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	1.2		Equivalence: 0.27 pg/L		
Total HpCDF	ND	-----	0.74		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	2.4				
Total HpCDD	ND	-----	2.4				
OCDF	2.4	-----	1.4	BJ			
OCDD	12	-----	1.3	BJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	15-I		
Lab Sample ID	20247389012		
Filename	F220629A_13		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 16:30
ICAL ID	F220529	Received	06/23/2022 09:30
CCal Filename(s)	F220629A_03 & F220629A_19	Extracted	06/24/2022 13:30
Method Blank ID	BLANK-99697	Analyzed	06/29/2022 18:21

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.30		2,3,7,8-TCDF-13C	2.00	82
Total TCDF	ND	-----	0.30		2,3,7,8-TCDD-13C	2.00	83
					1,2,3,7,8-PeCDF-13C	2.00	83
2,3,7,8-TCDD	ND	-----	1.0		2,3,4,7,8-PeCDF-13C	2.00	83
Total TCDD	ND	-----	1.0		1,2,3,7,8-PeCDD-13C	2.00	89
					1,2,3,4,7,8-HxCDF-13C	2.00	98
1,2,3,7,8-PeCDF	ND	-----	0.42		1,2,3,6,7,8-HxCDF-13C	2.00	83
2,3,4,7,8-PeCDF	ND	-----	0.26		2,3,4,6,7,8-HxCDF-13C	2.00	89
Total PeCDF	ND	-----	0.26		1,2,3,7,8,9-HxCDF-13C	2.00	85
					1,2,3,4,7,8-HxCDD-13C	2.00	97
1,2,3,7,8-PeCDD	ND	-----	0.78		1,2,3,6,7,8-HxCDD-13C	2.00	98
Total PeCDD	ND	-----	0.78		1,2,3,4,6,7,8-HpCDF-13C	2.00	92
					1,2,3,4,7,8,9-HpCDF-13C	2.00	79
1,2,3,4,7,8-HxCDF	ND	-----	0.27		1,2,3,4,6,7,8-HpCDD-13C	2.00	93
1,2,3,6,7,8-HxCDF	ND	-----	0.34		OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	ND	-----	0.36				
1,2,3,7,8,9-HxCDF	ND	-----	0.23		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.23		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	-----	1.1	0.94	IJ	2,3,7,8-TCDD-37Cl4	0.20	82
1,2,3,6,7,8-HxCDD	ND	-----	0.80				
1,2,3,7,8,9-HxCDD	ND	-----	1.1				
Total HxCDD	ND	-----	0.80				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.48		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	1.0		Equivalence: 0.12 pg/L		
Total HpCDF	ND	-----	0.48		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.92				
Total HpCDD	ND	-----	0.92				
OCDF	ND	-----	1.2				
OCDD	7.6	-----	2.7	BJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	15-S		
Lab Sample ID	20247389013		
Filename	F220629A_14		
Injected By	SMT		
Total Amount Extracted	1020 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/20/2022 17:05
ICAL ID	F220529	Received	06/22/2022 08:50
CCal Filename(s)	F220629A_03 & F220629A_19	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/29/2022 19:06

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.38		2,3,7,8-TCDF-13C	2.00	71
Total TCDF	ND	-----	0.38		2,3,7,8-TCDD-13C	2.00	73
					1,2,3,7,8-PeCDF-13C	2.00	72
2,3,7,8-TCDD	ND	-----	0.64		2,3,4,7,8-PeCDF-13C	2.00	72
Total TCDD	1.7	-----	0.64	J	1,2,3,7,8-PeCDD-13C	2.00	80
					1,2,3,4,7,8-HxCDF-13C	2.00	106
1,2,3,7,8-PeCDF	ND	-----	0.46		1,2,3,6,7,8-HxCDF-13C	2.00	84
2,3,4,7,8-PeCDF	ND	-----	0.39		2,3,4,6,7,8-HxCDF-13C	2.00	92
Total PeCDF	ND	-----	0.39		1,2,3,7,8,9-HxCDF-13C	2.00	87
					1,2,3,4,7,8-HxCDD-13C	2.00	97
1,2,3,7,8-PeCDD	ND	-----	1.5		1,2,3,6,7,8-HxCDD-13C	2.00	103
Total PeCDD	ND	-----	1.5		1,2,3,4,6,7,8-HpCDF-13C	2.00	90
					1,2,3,4,7,8,9-HpCDF-13C	2.00	75
1,2,3,4,7,8-HxCDF	ND	-----	0.40		1,2,3,4,6,7,8-HpCDD-13C	2.00	78
1,2,3,6,7,8-HxCDF	ND	-----	0.45		OCDD-13C	4.00	62
2,3,4,6,7,8-HxCDF	ND	-----	0.39				
1,2,3,7,8,9-HxCDF	ND	-----	0.34		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.34		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	-----	1.8	1.1	IJ	2,3,7,8-TCDD-37Cl4	0.20	72
1,2,3,6,7,8-HxCDD	ND	-----	1.2				
1,2,3,7,8,9-HxCDD	ND	-----	1.2				
Total HxCDD	ND	-----	1.1				
1,2,3,4,6,7,8-HpCDF	ND	-----	1.5		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.6		Equivalence: 0.18 pg/L		
Total HpCDF	ND	-----	1.5		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	1.7				
Total HpCDD	ND	-----	1.7				
OCDF	ND	-----	1.9				
OCDD	21	-----	2.3	BJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
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ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	16-D		
Lab Sample ID	20247389014		
Filename	F220629A_15		
Injected By	SMT		
Total Amount Extracted	1000 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/20/2022 13:30
ICAL ID	F220529	Received	06/22/2022 08:50
CCal Filename(s)	F220629A_03 & F220629A_19	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/29/2022 19:52

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.36		2,3,7,8-TCDF-13C	2.00	82
Total TCDF	ND	-----	0.36		2,3,7,8-TCDD-13C	2.00	84
					1,2,3,7,8-PeCDF-13C	2.00	80
2,3,7,8-TCDD	ND	-----	0.80		2,3,4,7,8-PeCDF-13C	2.00	81
Total TCDD	ND	-----	0.80		1,2,3,7,8-PeCDD-13C	2.00	88
					1,2,3,4,7,8-HxCDF-13C	2.00	111
1,2,3,7,8-PeCDF	ND	-----	0.27		1,2,3,6,7,8-HxCDF-13C	2.00	94
2,3,4,7,8-PeCDF	ND	-----	0.22		2,3,4,6,7,8-HxCDF-13C	2.00	101
Total PeCDF	ND	-----	0.22		1,2,3,7,8,9-HxCDF-13C	2.00	93
					1,2,3,4,7,8-HxCDD-13C	2.00	110
1,2,3,7,8-PeCDD	ND	-----	0.60		1,2,3,6,7,8-HxCDD-13C	2.00	113
Total PeCDD	ND	-----	0.60		1,2,3,4,6,7,8-HpCDF-13C	2.00	100
					1,2,3,4,7,8,9-HpCDF-13C	2.00	82
1,2,3,4,7,8-HxCDF	ND	-----	0.32		1,2,3,4,6,7,8-HpCDD-13C	2.00	90
1,2,3,6,7,8-HxCDF	ND	-----	0.43		OCDD-13C	4.00	67
2,3,4,6,7,8-HxCDF	ND	-----	0.49				
1,2,3,7,8,9-HxCDF	ND	-----	0.42		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.32		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	-----	1.6	1.5	IJ	2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	ND	-----	1.3				
1,2,3,7,8,9-HxCDD	ND	-----	1.2				
Total HxCDD	ND	-----	1.2				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.76		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	1.4		Equivalence: 0.18 pg/L		
Total HpCDF	ND	-----	0.76		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	1.7	1.1	IJ			
Total HpCDD	ND	-----	1.1				
OCDF	ND	-----	1.0				
OCDD	19	-----	1.6	BJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	16-I		
Lab Sample ID	20247389015		
Filename	F220629A_16		
Injected By	SMT		
Total Amount Extracted	1010 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/20/2022 14:20
ICAL ID	F220529	Received	06/22/2022 08:50
CCal Filename(s)	F220629A_03 & F220629A_19	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/29/2022 20:38

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.35		2,3,7,8-TCDF-13C	2.00	83
Total TCDF	ND	-----	0.35		2,3,7,8-TCDD-13C	2.00	86
					1,2,3,7,8-PeCDF-13C	2.00	81
2,3,7,8-TCDD	ND	-----	0.84		2,3,4,7,8-PeCDF-13C	2.00	82
Total TCDD	ND	-----	0.84		1,2,3,7,8-PeCDD-13C	2.00	89
					1,2,3,4,7,8-HxCDF-13C	2.00	118
1,2,3,7,8-PeCDF	ND	-----	0.54		1,2,3,6,7,8-HxCDF-13C	2.00	96
2,3,4,7,8-PeCDF	ND	-----	0.20		2,3,4,6,7,8-HxCDF-13C	2.00	107
Total PeCDF	ND	-----	0.20		1,2,3,7,8,9-HxCDF-13C	2.00	96
					1,2,3,4,7,8-HxCDD-13C	2.00	118
1,2,3,7,8-PeCDD	ND	-----	1.6		1,2,3,6,7,8-HxCDD-13C	2.00	115
Total PeCDD	ND	-----	1.6		1,2,3,4,6,7,8-HpCDF-13C	2.00	99
					1,2,3,4,7,8,9-HpCDF-13C	2.00	83
1,2,3,4,7,8-HxCDF	ND	-----	0.47		1,2,3,4,6,7,8-HpCDD-13C	2.00	86
1,2,3,6,7,8-HxCDF	ND	-----	0.48		OCDD-13C	4.00	69
2,3,4,6,7,8-HxCDF	ND	-----	0.50				
1,2,3,7,8,9-HxCDF	ND	-----	0.67		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.47		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.4		2,3,7,8-TCDD-37Cl4	0.20	80
1,2,3,6,7,8-HxCDD	ND	-----	2.0				
1,2,3,7,8,9-HxCDD	ND	-----	1.3				
Total HxCDD	ND	-----	1.3				
1,2,3,4,6,7,8-HpCDF	ND	-----	1.3		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.1		Equivalence: 0.0048 pg/L		
Total HpCDF	ND	-----	1.3		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	1.5				
Total HpCDD	ND	-----	1.5				
OCDF	ND	-----	1.5				
OCDD	16	-----	3.4	BJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	17-D		
Lab Sample ID	20247389016		
Filename	F220629A_17		
Injected By	SMT		
Total Amount Extracted	1010 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/22/2022 11:15
ICAL ID	F220529	Received	06/23/2022 09:30
CCal Filename(s)	F220629A_03 & F220629A_19	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/29/2022 21:23

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.44		2,3,7,8-TCDF-13C	2.00	85
Total TCDF	ND	-----	0.44		2,3,7,8-TCDD-13C	2.00	87
					1,2,3,7,8-PeCDF-13C	2.00	85
2,3,7,8-TCDD	ND	-----	0.93		2,3,4,7,8-PeCDF-13C	2.00	86
Total TCDD	ND	-----	0.93		1,2,3,7,8-PeCDD-13C	2.00	93
					1,2,3,4,7,8-HxCDF-13C	2.00	119
1,2,3,7,8-PeCDF	ND	-----	0.40		1,2,3,6,7,8-HxCDF-13C	2.00	99
2,3,4,7,8-PeCDF	ND	-----	0.38		2,3,4,6,7,8-HxCDF-13C	2.00	109
Total PeCDF	ND	-----	0.38		1,2,3,7,8,9-HxCDF-13C	2.00	99
					1,2,3,4,7,8-HxCDD-13C	2.00	113
1,2,3,7,8-PeCDD	ND	-----	1.3		1,2,3,6,7,8-HxCDD-13C	2.00	117
Total PeCDD	ND	-----	1.3		1,2,3,4,6,7,8-HpCDF-13C	2.00	106
					1,2,3,4,7,8,9-HpCDF-13C	2.00	90
1,2,3,4,7,8-HxCDF	ND	-----	0.22		1,2,3,4,6,7,8-HpCDD-13C	2.00	102
1,2,3,6,7,8-HxCDF	ND	-----	0.44		OCDD-13C	4.00	71
2,3,4,6,7,8-HxCDF	ND	-----	0.34				
1,2,3,7,8,9-HxCDF	ND	-----	0.30		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.22		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	-----	1.6	0.68	IJ	2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	ND	-----	0.81				
1,2,3,7,8,9-HxCDD	ND	-----	1.3				
Total HxCDD	ND	-----	0.68				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.94		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.0		Equivalence: 0.19 pg/L		
Total HpCDF	ND	-----	0.94		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	2.5	-----	1.4	J			
Total HpCDD	2.5	-----	1.4	J			
OCDF	-----	2.0	2.0	IJ			
OCDD	-----	21	0.73	IJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
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NC = Not Calculated

J = Estimated value
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	19-SR		
Lab Sample ID	20247389017		
Filename	F220629A_18		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/20/2022 09:40
ICAL ID	F220529	Received	06/22/2022 08:50
CCal Filename(s)	F220629A_03 & F220629A_19	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/29/2022 22:09

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.37		2,3,7,8-TCDF-13C	2.00	78
Total TCDF	ND	-----	0.37		2,3,7,8-TCDD-13C	2.00	80
					1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	ND	-----	0.95		2,3,4,7,8-PeCDF-13C	2.00	77
Total TCDD	ND	-----	0.95		1,2,3,7,8-PeCDD-13C	2.00	86
					1,2,3,4,7,8-HxCDF-13C	2.00	109
1,2,3,7,8-PeCDF	ND	-----	0.55		1,2,3,6,7,8-HxCDF-13C	2.00	88
2,3,4,7,8-PeCDF	ND	-----	0.43		2,3,4,6,7,8-HxCDF-13C	2.00	98
Total PeCDF	ND	-----	0.43		1,2,3,7,8,9-HxCDF-13C	2.00	91
					1,2,3,4,7,8-HxCDD-13C	2.00	110
1,2,3,7,8-PeCDD	ND	-----	0.61		1,2,3,6,7,8-HxCDD-13C	2.00	102
Total PeCDD	ND	-----	0.61		1,2,3,4,6,7,8-HpCDF-13C	2.00	93
					1,2,3,4,7,8,9-HpCDF-13C	2.00	75
1,2,3,4,7,8-HxCDF	ND	-----	0.33		1,2,3,4,6,7,8-HpCDD-13C	2.00	81
1,2,3,6,7,8-HxCDF	ND	-----	0.54		OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	ND	-----	0.59				
1,2,3,7,8,9-HxCDF	ND	-----	0.63		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.33		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.5		2,3,7,8-TCDD-37Cl4	0.20	80
1,2,3,6,7,8-HxCDD	ND	-----	1.4				
1,2,3,7,8,9-HxCDD	ND	-----	1.1				
Total HxCDD	ND	-----	1.1				
1,2,3,4,6,7,8-HpCDF	ND	-----	2.0		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.4		Equivalence: 0.0022 pg/L		
Total HpCDF	ND	-----	2.0		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	1.5				
Total HpCDD	ND	-----	1.5				
OCDF	ND	-----	1.7				
OCDD	7.4	-----	3.3	BJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	21-I		
Lab Sample ID	20247389018		
Filename	F220629B_03		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 13:30
ICAL ID	F220529	Received	06/23/2022 09:30
CCal Filename(s)	F220629A_19 & F220629B_08	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/30/2022 01:11

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.44		2,3,7,8-TCDF-13C	2.00	91
Total TCDF	ND	-----	0.44		2,3,7,8-TCDD-13C	2.00	92
					1,2,3,7,8-PeCDF-13C	2.00	90
2,3,7,8-TCDD	ND	-----	0.90		2,3,4,7,8-PeCDF-13C	2.00	92
Total TCDD	ND	-----	0.90		1,2,3,7,8-PeCDD-13C	2.00	100
					1,2,3,4,7,8-HxCDF-13C	2.00	123
1,2,3,7,8-PeCDF	ND	-----	0.51		1,2,3,6,7,8-HxCDF-13C	2.00	102
2,3,4,7,8-PeCDF	ND	-----	0.25		2,3,4,6,7,8-HxCDF-13C	2.00	111
Total PeCDF	ND	-----	0.25		1,2,3,7,8,9-HxCDF-13C	2.00	104
					1,2,3,4,7,8-HxCDD-13C	2.00	116
1,2,3,7,8-PeCDD	ND	-----	0.75		1,2,3,6,7,8-HxCDD-13C	2.00	125
Total PeCDD	ND	-----	0.75		1,2,3,4,6,7,8-HpCDF-13C	2.00	110
					1,2,3,4,7,8,9-HpCDF-13C	2.00	92
1,2,3,4,7,8-HxCDF	ND	-----	0.40		1,2,3,4,6,7,8-HpCDD-13C	2.00	101
1,2,3,6,7,8-HxCDF	ND	-----	0.49		OCDD-13C	4.00	104 Y
2,3,4,6,7,8-HxCDF	ND	-----	0.39				
1,2,3,7,8,9-HxCDF	1.1	-----	0.43	BJ	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	1.1	-----	0.39	BJ	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	-----	1.3	0.64	IJ	2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	ND	-----	0.78				
1,2,3,7,8,9-HxCDD	ND	-----	0.61				
Total HxCDD	ND	-----	0.61				
1,2,3,4,6,7,8-HpCDF	ND	-----	1.0		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.1		Equivalence: 0.26 pg/L		
Total HpCDF	ND	-----	1.0		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	1.1	1.1	IJ			
Total HpCDD	ND	-----	1.1				
OCDF	ND	-----	0.51				
OCDD	8.3	-----	1.7	BJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level
I = Isotope ratio out of specification
Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	23-D		
Lab Sample ID	20247389019		
Filename	F220629B_04		
Injected By	SMT		
Total Amount Extracted	1020 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 11:15
ICAL ID	F220529	Received	06/23/2022 09:30
CCal Filename(s)	F220629A_19 & F220629B_08	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/30/2022 01:57

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.39		2,3,7,8-TCDF-13C	2.00	87
Total TCDF	ND	-----	0.39		2,3,7,8-TCDD-13C	2.00	88
					1,2,3,7,8-PeCDF-13C	2.00	86
2,3,7,8-TCDD	ND	-----	0.78		2,3,4,7,8-PeCDF-13C	2.00	87
Total TCDD	ND	-----	0.78		1,2,3,7,8-PeCDD-13C	2.00	93
					1,2,3,4,7,8-HxCDF-13C	2.00	115
1,2,3,7,8-PeCDF	ND	-----	0.48		1,2,3,6,7,8-HxCDF-13C	2.00	100
2,3,4,7,8-PeCDF	ND	-----	0.31		2,3,4,6,7,8-HxCDF-13C	2.00	108
Total PeCDF	ND	-----	0.31		1,2,3,7,8,9-HxCDF-13C	2.00	100
					1,2,3,4,7,8-HxCDD-13C	2.00	116
1,2,3,7,8-PeCDD	ND	-----	0.38		1,2,3,6,7,8-HxCDD-13C	2.00	120
Total PeCDD	ND	-----	0.38		1,2,3,4,6,7,8-HpCDF-13C	2.00	105
					1,2,3,4,7,8,9-HpCDF-13C	2.00	85
1,2,3,4,7,8-HxCDF	ND	-----	0.41		1,2,3,4,6,7,8-HpCDD-13C	2.00	91
1,2,3,6,7,8-HxCDF	ND	-----	0.44		OCDD-13C	4.00	96 Y
2,3,4,6,7,8-HxCDF	ND	-----	0.49				
1,2,3,7,8,9-HxCDF	-----	0.66	0.37	IJ	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	1.1	-----	0.37	BJ	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.93		2,3,7,8-TCDD-37Cl4	0.20	83
1,2,3,6,7,8-HxCDD	ND	-----	0.79				
1,2,3,7,8,9-HxCDD	ND	-----	1.3				
Total HxCDD	ND	-----	0.79				
1,2,3,4,6,7,8-HpCDF	-----	1.3	0.98	IJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.1		Equivalence: 0.13 pg/L		
Total HpCDF	ND	-----	0.98		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	4.0	1.5	IJ			
Total HpCDD	3.0	-----	1.5	J			
OCDF	3.6	-----	1.1	BJ			
OCDD	48	-----	2.9	BJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
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EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level
I = Isotope ratio out of specification
Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	23-I		
Lab Sample ID	20247389020		
Filename	F220629B_05		
Injected By	SMT		
Total Amount Extracted	979 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 12:05
ICAL ID	F220529	Received	06/23/2022 09:30
CCal Filename(s)	F220629A_19 & F220629B_08	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/30/2022 02:42

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.56		2,3,7,8-TCDF-13C	2.00	52
Total TCDF	ND	-----	0.56		2,3,7,8-TCDD-13C	2.00	55
					1,2,3,7,8-PeCDF-13C	2.00	54
2,3,7,8-TCDD	ND	-----	0.93		2,3,4,7,8-PeCDF-13C	2.00	49
Total TCDD	ND	-----	0.93		1,2,3,7,8-PeCDD-13C	2.00	55
					1,2,3,4,7,8-HxCDF-13C	2.00	71
1,2,3,7,8-PeCDF	ND	-----	0.55		1,2,3,6,7,8-HxCDF-13C	2.00	58
2,3,4,7,8-PeCDF	ND	-----	0.29		2,3,4,6,7,8-HxCDF-13C	2.00	60
Total PeCDF	ND	-----	0.29		1,2,3,7,8,9-HxCDF-13C	2.00	61
					1,2,3,4,7,8-HxCDD-13C	2.00	67
1,2,3,7,8-PeCDD	ND	-----	0.69		1,2,3,6,7,8-HxCDD-13C	2.00	68
Total PeCDD	ND	-----	0.69		1,2,3,4,6,7,8-HpCDF-13C	2.00	65
					1,2,3,4,7,8,9-HpCDF-13C	2.00	53
1,2,3,4,7,8-HxCDF	ND	-----	0.68		1,2,3,4,6,7,8-HpCDD-13C	2.00	55
1,2,3,6,7,8-HxCDF	ND	-----	0.67		OCDD-13C	4.00	60 Y
2,3,4,6,7,8-HxCDF	ND	-----	0.64				
1,2,3,7,8,9-HxCDF	ND	-----	1.0		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.64		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.3		2,3,7,8-TCDD-37Cl4	0.20	61
1,2,3,6,7,8-HxCDD	ND	-----	1.6				
1,2,3,7,8,9-HxCDD	ND	-----	1.1				
Total HxCDD	ND	-----	1.1				
1,2,3,4,6,7,8-HpCDF	ND	-----	1.8		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	3.7		Equivalence: 0.0040 pg/L		
Total HpCDF	ND	-----	1.8		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	2.7				
Total HpCDD	ND	-----	2.7				
OCDF	ND	-----	1.2				
OCDD	-----	13	2.6	IJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
I = Isotope ratio out of specification
Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	31-DR		
Lab Sample ID	20247389021		
Filename	F220629B_06		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/20/2022 11:20
ICAL ID	F220529	Received	06/22/2022 08:50
CCal Filename(s)	F220629A_19 & F220629B_08	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/30/2022 03:28

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	0.48		2,3,7,8-TCDF-13C	2.00	76	
Total TCDF	ND	-----	0.48		2,3,7,8-TCDD-13C	2.00	79	
					1,2,3,7,8-PeCDF-13C	2.00	75	
2,3,7,8-TCDD	ND	-----	1.3		2,3,4,7,8-PeCDF-13C	2.00	77	
Total TCDD	ND	-----	1.3		1,2,3,7,8-PeCDD-13C	2.00	83	
					1,2,3,4,7,8-HxCDF-13C	2.00	119	
1,2,3,7,8-PeCDF	ND	-----	0.48		1,2,3,6,7,8-HxCDF-13C	2.00	90	
2,3,4,7,8-PeCDF	ND	-----	0.32		2,3,4,6,7,8-HxCDF-13C	2.00	103	
Total PeCDF	ND	-----	0.32		1,2,3,7,8,9-HxCDF-13C	2.00	92	
					1,2,3,4,7,8-HxCDD-13C	2.00	114	
1,2,3,7,8-PeCDD	ND	-----	1.5		1,2,3,6,7,8-HxCDD-13C	2.00	109	
Total PeCDD	ND	-----	1.5		1,2,3,4,6,7,8-HpCDF-13C	2.00	104	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	84	
1,2,3,4,7,8-HxCDF	ND	-----	0.45		1,2,3,4,6,7,8-HpCDD-13C	2.00	89	
1,2,3,6,7,8-HxCDF	ND	-----	0.50		OCDD-13C	4.00	96	Y
2,3,4,6,7,8-HxCDF	ND	-----	0.30					
1,2,3,7,8,9-HxCDF	-----	0.69	0.44	IJ	1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	ND	-----	0.30		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	-----	1.8	1.3	IJ	2,3,7,8-TCDD-37Cl4	0.20	75	
1,2,3,6,7,8-HxCDD	ND	-----	1.1					
1,2,3,7,8,9-HxCDD	ND	-----	1.3					
Total HxCDD	ND	-----	1.1					
1,2,3,4,6,7,8-HpCDF	ND	-----	1.4		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	3.5		Equivalence: 0.25 pg/L			
Total HpCDF	ND	-----	1.4		(Lower-bound - Using 2005 WHO Factors)			
1,2,3,4,6,7,8-HpCDD	ND	-----	1.7					
Total HpCDD	ND	-----	1.7					
OCDF	2.4	-----	2.2	BJ				
OCDD	9.6	-----	2.6	BJ				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
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EDL = Estimated Detection Limit

ND = Not Detected
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NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level
I = Isotope ratio out of specification
Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	31-IR		
Lab Sample ID	20247389022		
Filename	F220629B_07		
Injected By	SMT		
Total Amount Extracted	1020 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/20/2022 10:00
ICAL ID	F220529	Received	06/22/2022 08:50
CCal Filename(s)	F220629A_19 & F220629B_08	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/30/2022 04:13

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.40		2,3,7,8-TCDF-13C	2.00	80
Total TCDF	ND	-----	0.40		2,3,7,8-TCDD-13C	2.00	85
					1,2,3,7,8-PeCDF-13C	2.00	82
2,3,7,8-TCDD	ND	-----	1.0		2,3,4,7,8-PeCDF-13C	2.00	84
Total TCDD	ND	-----	1.0		1,2,3,7,8-PeCDD-13C	2.00	89
					1,2,3,4,7,8-HxCDF-13C	2.00	91
1,2,3,7,8-PeCDF	ND	-----	0.56		1,2,3,6,7,8-HxCDF-13C	2.00	79
2,3,4,7,8-PeCDF	ND	-----	0.32		2,3,4,6,7,8-HxCDF-13C	2.00	86
Total PeCDF	ND	-----	0.32		1,2,3,7,8,9-HxCDF-13C	2.00	80
					1,2,3,4,7,8-HxCDD-13C	2.00	95
1,2,3,7,8-PeCDD	ND	-----	0.43		1,2,3,6,7,8-HxCDD-13C	2.00	93
Total PeCDD	ND	-----	0.43		1,2,3,4,6,7,8-HpCDF-13C	2.00	81
					1,2,3,4,7,8,9-HpCDF-13C	2.00	71
1,2,3,4,7,8-HxCDF	ND	-----	0.39		1,2,3,4,6,7,8-HpCDD-13C	2.00	88
1,2,3,6,7,8-HxCDF	ND	-----	0.36		OCDD-13C	4.00	78 Y
2,3,4,6,7,8-HxCDF	ND	-----	0.38				
1,2,3,7,8,9-HxCDF	-----	1.1	0.31	IJ	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.31		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	-----	1.1	0.44	IJ	2,3,7,8-TCDD-37Cl4	0.20	77
1,2,3,6,7,8-HxCDD	ND	-----	0.50				
1,2,3,7,8,9-HxCDD	ND	-----	0.65				
Total HxCDD	ND	-----	0.44				
1,2,3,4,6,7,8-HpCDF	1.6	-----	0.75	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	1.2		Equivalence: 0.29 pg/L		
Total HpCDF	1.6	-----	0.75	J	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	4.3	1.2	IJ			
Total HpCDD	5.8	-----	1.2	J			
OCDF	4.4	-----	1.5	BJ			
OCDD	48	-----	2.8	BJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level
I = Isotope ratio out of specification
Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414

Tel: 612-607-1700
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	32-I		
Lab Sample ID	20247389023		
Filename	L220629B_02		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/20/2022 11:45
ICAL ID	L220428	Received	06/22/2022 08:50
CCal Filename(s)	L220629A_18 & L220629B_08	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/29/2022 23:54

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	0.36		2,3,7,8-TCDF-13C	2.00	91	
Total TCDF	ND	-----	0.36		2,3,7,8-TCDD-13C	2.00	82	
					1,2,3,7,8-PeCDF-13C	2.00	66	
2,3,7,8-TCDD	ND	-----	0.51		2,3,4,7,8-PeCDF-13C	2.00	107	
Total TCDD	ND	-----	0.51		1,2,3,7,8-PeCDD-13C	2.00	98	
					1,2,3,4,7,8-HxCDF-13C	2.00	45	
1,2,3,7,8-PeCDF	ND	-----	0.31		1,2,3,6,7,8-HxCDF-13C	2.00	84	
2,3,4,7,8-PeCDF	ND	-----	0.21		2,3,4,6,7,8-HxCDF-13C	2.00	92	
Total PeCDF	ND	-----	0.21		1,2,3,7,8,9-HxCDF-13C	2.00	49	
					1,2,3,4,7,8-HxCDD-13C	2.00	68	
1,2,3,7,8-PeCDD	ND	-----	0.35		1,2,3,6,7,8-HxCDD-13C	2.00	81	
Total PeCDD	ND	-----	0.35		1,2,3,4,6,7,8-HpCDF-13C	2.00	31	R
					1,2,3,4,7,8,9-HpCDF-13C	2.00	25	R
1,2,3,4,7,8-HxCDF	ND	-----	0.56		1,2,3,4,6,7,8-HpCDD-13C	2.00	52	
1,2,3,6,7,8-HxCDF	ND	-----	0.37		OCDD-13C	4.00	62	
2,3,4,6,7,8-HxCDF	ND	-----	0.29					
1,2,3,7,8,9-HxCDF	-----	0.74	0.32	IJ	1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	0.73	-----	0.29	BJ	1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	ND	-----	1.1		2,3,7,8-TCDD-37Cl4	0.20	77	
1,2,3,6,7,8-HxCDD	ND	-----	0.70					
1,2,3,7,8,9-HxCDD	ND	-----	0.75					
Total HxCDD	ND	-----	0.70					
1,2,3,4,6,7,8-HpCDF	ND	-----	4.6		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	9.9		Equivalence: 0.14 pg/L			
Total HpCDF	ND	-----	4.6		(Lower-bound - Using 2005 WHO Factors)			
1,2,3,4,6,7,8-HpCDD	-----	4.9	1.1	IJ				
Total HpCDD	27	-----	1.1	J				
OCDF	2.3	-----	1.4	BJ				
OCDD	53	-----	1.1	BJ				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level
R = Recovery outside target range
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	32-S		
Lab Sample ID	20247389024		
Filename	L220629B_03		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/20/2022 12:52
ICAL ID	L220428	Received	06/22/2022 08:50
CCal Filename(s)	L220629A_18 & L220629B_08	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/30/2022 00:38

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	0.34		2,3,7,8-TCDF-13C	2.00	76	
Total TCDF	ND	-----	0.34		2,3,7,8-TCDD-13C	2.00	69	
					1,2,3,7,8-PeCDF-13C	2.00	65	
2,3,7,8-TCDD	ND	-----	0.35		2,3,4,7,8-PeCDF-13C	2.00	90	
Total TCDD	ND	-----	0.35		1,2,3,7,8-PeCDD-13C	2.00	82	
					1,2,3,4,7,8-HxCDF-13C	2.00	34	R
1,2,3,7,8-PeCDF	ND	-----	0.29		1,2,3,6,7,8-HxCDF-13C	2.00	57	
2,3,4,7,8-PeCDF	ND	-----	0.12		2,3,4,6,7,8-HxCDF-13C	2.00	77	
Total PeCDF	ND	-----	0.12		1,2,3,7,8,9-HxCDF-13C	2.00	41	
					1,2,3,4,7,8-HxCDD-13C	2.00	53	
1,2,3,7,8-PeCDD	ND	-----	0.45		1,2,3,6,7,8-HxCDD-13C	2.00	69	
Total PeCDD	ND	-----	0.45		1,2,3,4,6,7,8-HpCDF-13C	2.00	31	R
					1,2,3,4,7,8,9-HpCDF-13C	2.00	48	
1,2,3,4,7,8-HxCDF	ND	-----	0.55		1,2,3,4,6,7,8-HpCDD-13C	2.00	52	
1,2,3,6,7,8-HxCDF	ND	-----	0.29		OCDD-13C	4.00	57	
2,3,4,6,7,8-HxCDF	ND	-----	0.25					
1,2,3,7,8,9-HxCDF	1.1	-----	0.42	BJ	1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	1.1	-----	0.25	BJ	1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	ND	-----	0.26		2,3,7,8-TCDD-37Cl4	0.20	76	
1,2,3,6,7,8-HxCDD	ND	-----	0.25					
1,2,3,7,8,9-HxCDD	ND	-----	1.00					
Total HxCDD	ND	-----	0.25					
1,2,3,4,6,7,8-HpCDF	ND	-----	3.5		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	2.0		Equivalence: 0.12 pg/L			
Total HpCDF	ND	-----	2.0		(Lower-bound - Using 2005 WHO Factors)			
1,2,3,4,6,7,8-HpCDD	ND	-----	0.76					
Total HpCDD	6.3	-----	0.76	J				
OCDF	ND	-----	1.5					
OCDD	-----	16	1.5	IJ				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level
R = Recovery outside target range
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	Equipment Blank 1		
Lab Sample ID	20247389025		
Filename	L220629B_04		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/20/2022 07:25
ICAL ID	L220428	Received	06/22/2022 08:50
CCal Filename(s)	L220629A_18 & L220629B_08	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/30/2022 01:22

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	0.39		2,3,7,8-TCDF-13C	2.00	83	
Total TCDF	ND	-----	0.39		2,3,7,8-TCDD-13C	2.00	75	
					1,2,3,7,8-PeCDF-13C	2.00	64	
2,3,7,8-TCDD	ND	-----	0.59		2,3,4,7,8-PeCDF-13C	2.00	97	
Total TCDD	ND	-----	0.59		1,2,3,7,8-PeCDD-13C	2.00	88	
					1,2,3,4,7,8-HxCDF-13C	2.00	37	R
1,2,3,7,8-PeCDF	ND	-----	0.34		1,2,3,6,7,8-HxCDF-13C	2.00	51	
2,3,4,7,8-PeCDF	ND	-----	0.11		2,3,4,6,7,8-HxCDF-13C	2.00	83	
Total PeCDF	ND	-----	0.11		1,2,3,7,8,9-HxCDF-13C	2.00	42	
					1,2,3,4,7,8-HxCDD-13C	2.00	63	
1,2,3,7,8-PeCDD	ND	-----	0.40		1,2,3,6,7,8-HxCDD-13C	2.00	67	
Total PeCDD	ND	-----	0.40		1,2,3,4,6,7,8-HpCDF-13C	2.00	35	R
					1,2,3,4,7,8,9-HpCDF-13C	2.00	52	
1,2,3,4,7,8-HxCDF	ND	-----	0.71		1,2,3,4,6,7,8-HpCDD-13C	2.00	54	
1,2,3,6,7,8-HxCDF	ND	-----	0.20		OCDD-13C	4.00	59	
2,3,4,6,7,8-HxCDF	ND	-----	0.27					
1,2,3,7,8,9-HxCDF	0.97	-----	0.47	BJ	1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	0.97	-----	0.20	BJ	1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	-----	1.9	0.76	IJ	2,3,7,8-TCDD-37Cl4	0.20	82	
1,2,3,6,7,8-HxCDD	ND	-----	0.63					
1,2,3,7,8,9-HxCDD	ND	-----	0.58					
Total HxCDD	ND	-----	0.58					
1,2,3,4,6,7,8-HpCDF	ND	-----	2.6		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	1.3		Equivalence: 0.29 pg/L			
Total HpCDF	ND	-----	1.3		(Lower-bound - Using 2005 WHO Factors)			
1,2,3,4,6,7,8-HpCDD	ND	-----	1.1					
Total HpCDD	ND	-----	1.1					
OCDF	ND	-----	1.1					
OCDD	8.0	-----	1.6	BJ				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level
R = Recovery outside target range
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	Equipment Blank 2		
Lab Sample ID	20247389026		
Filename	L220629B_05		
Injected By	SMT		
Total Amount Extracted	1010 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/20/2022 07:45
ICAL ID	L220428	Received	06/22/2022 08:50
CCal Filename(s)	L220629A_18 & L220629B_08	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/30/2022 02:06

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.29		2,3,7,8-TCDF-13C	2.00	87
Total TCDF	ND	-----	0.29		2,3,7,8-TCDD-13C	2.00	80
					1,2,3,7,8-PeCDF-13C	2.00	58
2,3,7,8-TCDD	ND	-----	0.52		2,3,4,7,8-PeCDF-13C	2.00	100
Total TCDD	ND	-----	0.52		1,2,3,7,8-PeCDD-13C	2.00	86
					1,2,3,4,7,8-HxCDF-13C	2.00	49
1,2,3,7,8-PeCDF	ND	-----	0.14		1,2,3,6,7,8-HxCDF-13C	2.00	85
2,3,4,7,8-PeCDF	ND	-----	0.11		2,3,4,6,7,8-HxCDF-13C	2.00	88
Total PeCDF	ND	-----	0.11		1,2,3,7,8,9-HxCDF-13C	2.00	54
					1,2,3,4,7,8-HxCDD-13C	2.00	69
1,2,3,7,8-PeCDD	ND	-----	0.41		1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD	ND	-----	0.41		1,2,3,4,6,7,8-HpCDF-13C	2.00	46
					1,2,3,4,7,8,9-HpCDF-13C	2.00	65
1,2,3,4,7,8-HxCDF	ND	-----	0.37		1,2,3,4,6,7,8-HpCDD-13C	2.00	69
1,2,3,6,7,8-HxCDF	ND	-----	0.19		OCDD-13C	4.00	67
2,3,4,6,7,8-HxCDF	ND	-----	0.18				
1,2,3,7,8,9-HxCDF	1.2	-----	0.27	BJ	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	1.2	-----	0.18	BJ	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	2.1	-----	0.79	BJ	2,3,7,8-TCDD-37Cl4	0.20	73
1,2,3,6,7,8-HxCDD	ND	-----	1.2				
1,2,3,7,8,9-HxCDD	ND	-----	1.1				
Total HxCDD	2.1	-----	0.79	BJ			
1,2,3,4,6,7,8-HpCDF	ND	-----	0.90		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.94		Equivalence: 0.33 pg/L		
Total HpCDF	ND	-----	0.90		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	1.0				
Total HpCDD	ND	-----	1.0				
OCDF	-----	1.0	0.97	IJ			
OCDD	7.2	-----	2.0	BJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	Equipment Blank 3		
Lab Sample ID	20247389027		
Filename	L220629B_06		
Injected By	SMT		
Total Amount Extracted	998 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/20/2022 08:05
ICAL ID	L220428	Received	06/22/2022 08:50
CCal Filename(s)	L220629A_18 & L220629B_08	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/30/2022 02:50

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	0.26		2,3,7,8-TCDF-13C	2.00	86	
Total TCDF	ND	-----	0.26		2,3,7,8-TCDD-13C	2.00	78	
					1,2,3,7,8-PeCDF-13C	2.00	69	
2,3,7,8-TCDD	ND	-----	0.62		2,3,4,7,8-PeCDF-13C	2.00	97	
Total TCDD	ND	-----	0.62		1,2,3,7,8-PeCDD-13C	2.00	92	
					1,2,3,4,7,8-HxCDF-13C	2.00	47	
1,2,3,7,8-PeCDF	ND	-----	0.28		1,2,3,6,7,8-HxCDF-13C	2.00	79	
2,3,4,7,8-PeCDF	ND	-----	0.066		2,3,4,6,7,8-HxCDF-13C	2.00	83	
Total PeCDF	ND	-----	0.066		1,2,3,7,8,9-HxCDF-13C	2.00	45	
					1,2,3,4,7,8-HxCDD-13C	2.00	68	
1,2,3,7,8-PeCDD	ND	-----	0.41		1,2,3,6,7,8-HxCDD-13C	2.00	73	
Total PeCDD	ND	-----	0.41		1,2,3,4,6,7,8-HpCDF-13C	2.00	30	R
					1,2,3,4,7,8,9-HpCDF-13C	2.00	44	
1,2,3,4,7,8-HxCDF	ND	-----	0.12		1,2,3,4,6,7,8-HpCDD-13C	2.00	53	
1,2,3,6,7,8-HxCDF	ND	-----	0.19		OCDD-13C	4.00	53	
2,3,4,6,7,8-HxCDF	ND	-----	0.17					
1,2,3,7,8,9-HxCDF	0.98	-----	0.49	BJ	1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	0.98	-----	0.12	BJ	1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	-----	1.7	0.35	IJ	2,3,7,8-TCDD-37Cl4	0.20	78	
1,2,3,6,7,8-HxCDD	ND	-----	0.35					
1,2,3,7,8,9-HxCDD	ND	-----	0.30					
Total HxCDD	ND	-----	0.30					
1,2,3,4,6,7,8-HpCDF	ND	-----	3.6		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	1.9		Equivalence: 0.27 pg/L			
Total HpCDF	ND	-----	1.9		(Lower-bound - Using 2005 WHO Factors)			
1,2,3,4,6,7,8-HpCDD	ND	-----	1.6					
Total HpCDD	ND	-----	1.6					
OCDF	ND	-----	1.5					
OCDD	-----	5.9	1.1	IJ				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level
R = Recovery outside target range
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	Equipment Blank 4		
Lab Sample ID	20247389028		
Filename	L220629B_07		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 17:05
ICAL ID	L220428	Received	06/23/2022 09:30
CCal Filename(s)	L220629A_18 & L220629B_08	Extracted	06/27/2022 15:00
Method Blank ID	BLANK-99697	Analyzed	06/30/2022 03:34

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.25		2,3,7,8-TCDF-13C	2.00	96
Total TCDF	ND	-----	0.25		2,3,7,8-TCDD-13C	2.00	87
					1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	ND	-----	0.40		2,3,4,7,8-PeCDF-13C	2.00	107
Total TCDD	ND	-----	0.40		1,2,3,7,8-PeCDD-13C	2.00	101
					1,2,3,4,7,8-HxCDF-13C	2.00	53
1,2,3,7,8-PeCDF	ND	-----	0.34		1,2,3,6,7,8-HxCDF-13C	2.00	90
2,3,4,7,8-PeCDF	ND	-----	0.11		2,3,4,6,7,8-HxCDF-13C	2.00	94
Total PeCDF	ND	-----	0.11		1,2,3,7,8,9-HxCDF-13C	2.00	58
					1,2,3,4,7,8-HxCDD-13C	2.00	72
1,2,3,7,8-PeCDD	ND	-----	0.36		1,2,3,6,7,8-HxCDD-13C	2.00	85
Total PeCDD	ND	-----	0.36		1,2,3,4,6,7,8-HpCDF-13C	2.00	49
					1,2,3,4,7,8,9-HpCDF-13C	2.00	66
1,2,3,4,7,8-HxCDF	ND	-----	0.43		1,2,3,4,6,7,8-HpCDD-13C	2.00	73
1,2,3,6,7,8-HxCDF	ND	-----	0.31		OCDD-13C	4.00	69
2,3,4,6,7,8-HxCDF	ND	-----	0.20				
1,2,3,7,8,9-HxCDF	-----	0.96	0.56	IJ	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.20		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	-----	1.7	0.61	IJ	2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	ND	-----	0.50				
1,2,3,7,8,9-HxCDD	ND	-----	0.31				
Total HxCDD	ND	-----	0.31				
1,2,3,4,6,7,8-HpCDF	-----	0.88	0.83	IJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	1.1		Equivalence: 0.27 pg/L		
Total HpCDF	ND	-----	0.83		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.91				
Total HpCDD	ND	-----	0.91				
OCDF	ND	-----	1.7				
OCDD	5.6	-----	0.90	BJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	Equipment Blank 5		
Lab Sample ID	20247389029		
Filename	L220701A_03		
Injected By	JRH		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 17:25
ICAL ID	L220428	Received	06/23/2022 09:30
CCal Filename(s)	L220701A_01 & L220701A_17	Extracted	06/29/2022 13:15
Method Blank ID	BLANK-99727	Analyzed	07/01/2022 14:43

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	0.36		2,3,7,8-TCDF-13C	2.00	77	
Total TCDF	0.70	-----	0.36	J	2,3,7,8-TCDD-13C	2.00	71	
					1,2,3,7,8-PeCDF-13C	2.00	70	
2,3,7,8-TCDD	ND	-----	0.45		2,3,4,7,8-PeCDF-13C	2.00	99	
Total TCDD	ND	-----	0.45		1,2,3,7,8-PeCDD-13C	2.00	93	
					1,2,3,4,7,8-HxCDF-13C	2.00	28	R
1,2,3,7,8-PeCDF	ND	-----	0.14		1,2,3,6,7,8-HxCDF-13C	2.00	75	
2,3,4,7,8-PeCDF	-----	0.15	0.067	IJ	2,3,4,6,7,8-HxCDF-13C	2.00	80	
Total PeCDF	ND	-----	0.067		1,2,3,7,8,9-HxCDF-13C	2.00	29	R
					1,2,3,4,7,8-HxCDD-13C	2.00	58	
1,2,3,7,8-PeCDD	ND	-----	0.35		1,2,3,6,7,8-HxCDD-13C	2.00	80	
Total PeCDD	ND	-----	0.35		1,2,3,4,6,7,8-HpCDF-13C	2.00	20	R
					1,2,3,4,7,8,9-HpCDF-13C	2.00	45	
1,2,3,4,7,8-HxCDF	ND	-----	0.63		1,2,3,4,6,7,8-HpCDD-13C	2.00	57	
1,2,3,6,7,8-HxCDF	ND	-----	0.17		OCDD-13C	4.00	58	
2,3,4,6,7,8-HxCDF	ND	-----	0.16					
1,2,3,7,8,9-HxCDF	-----	1.2	0.50	IJ	1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	ND	-----	0.16		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	2.1	-----	0.26	J	2,3,7,8-TCDD-37Cl4	0.20	72	
1,2,3,6,7,8-HxCDD	ND	-----	0.54					
1,2,3,7,8,9-HxCDD	ND	-----	0.55					
Total HxCDD	2.1	-----	0.26	BJ				
1,2,3,4,6,7,8-HpCDF	ND	-----	1.9		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	0.80		Equivalence: 0.37 pg/L			
Total HpCDF	ND	-----	0.80		(Lower-bound - Using 2005 WHO Factors)			
1,2,3,4,6,7,8-HpCDD	ND	-----	0.80					
Total HpCDD	ND	-----	0.80					
OCDF	-----	1.0	0.65	IJ				
OCDD	5.4	-----	0.49	BJ				

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J = Estimated value
B = Less than 10x higher than method blank level
R = Recovery outside target range
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	Equipment Blank 6		
Lab Sample ID	20247389030		
Filename	L220701A_04		
Injected By	JRH		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 17:45
ICAL ID	L220428	Received	06/23/2022 09:30
CCal Filename(s)	L220701A_01 & L220701A_17	Extracted	06/29/2022 13:15
Method Blank ID	BLANK-99727	Analyzed	07/01/2022 15:27

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	0.31		2,3,7,8-TCDF-13C	2.00	72	
Total TCDF	ND	-----	0.31		2,3,7,8-TCDD-13C	2.00	65	
					1,2,3,7,8-PeCDF-13C	2.00	47	
2,3,7,8-TCDD	ND	-----	0.53		2,3,4,7,8-PeCDF-13C	2.00	89	
Total TCDD	ND	-----	0.53		1,2,3,7,8-PeCDD-13C	2.00	80	
					1,2,3,4,7,8-HxCDF-13C	2.00	20	R
1,2,3,7,8-PeCDF	ND	-----	0.55		1,2,3,6,7,8-HxCDF-13C	2.00	64	
2,3,4,7,8-PeCDF	-----	0.13	0.076	IJ	2,3,4,6,7,8-HxCDF-13C	2.00	75	
Total PeCDF	ND	-----	0.076		1,2,3,7,8,9-HxCDF-13C	2.00	28	R
					1,2,3,4,7,8-HxCDD-13C	2.00	54	
1,2,3,7,8-PeCDD	ND	-----	0.45		1,2,3,6,7,8-HxCDD-13C	2.00	60	
Total PeCDD	ND	-----	0.45		1,2,3,4,6,7,8-HpCDF-13C	2.00	27	R
					1,2,3,4,7,8,9-HpCDF-13C	2.00	48	
1,2,3,4,7,8-HxCDF	ND	-----	0.31		1,2,3,4,6,7,8-HpCDD-13C	2.00	57	
1,2,3,6,7,8-HxCDF	ND	-----	0.24		OCDD-13C	4.00	54	
2,3,4,6,7,8-HxCDF	ND	-----	0.15					
1,2,3,7,8,9-HxCDF	-----	0.97	0.63	IJ	1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	ND	-----	0.15		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	-----	1.8	0.63	IJ	2,3,7,8-TCDD-37Cl4	0.20	77	
1,2,3,6,7,8-HxCDD	ND	-----	0.71					
1,2,3,7,8,9-HxCDD	ND	-----	0.75					
Total HxCDD	ND	-----	0.63					
1,2,3,4,6,7,8-HpCDF	ND	-----	1.8		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	0.67		Equivalence: 0.31 pg/L			
Total HpCDF	ND	-----	0.67		(Lower-bound - Using 2005 WHO Factors)			
1,2,3,4,6,7,8-HpCDD	ND	-----	0.39					
Total HpCDD	1.8	-----	0.39	J				
OCDF	ND	-----	1.0					
OCDD	5.2	-----	1.4	BJ				

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J = Estimated value
B = Less than 10x higher than method blank level
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I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	Field Dup 1		
Lab Sample ID	20247389031		
Filename	L220701A_05		
Injected By	JRH		
Total Amount Extracted	1010 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 08:20
ICAL ID	L220428	Received	06/23/2022 09:30
CCal Filename(s)	L220701A_01 & L220701A_17	Extracted	06/29/2022 13:15
Method Blank ID	BLANK-99727	Analyzed	07/01/2022 16:11

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	0.35		2,3,7,8-TCDF-13C	2.00	85	
Total TCDF	ND	-----	0.35		2,3,7,8-TCDD-13C	2.00	77	
					1,2,3,7,8-PeCDF-13C	2.00	43	
2,3,7,8-TCDD	ND	-----	0.42		2,3,4,7,8-PeCDF-13C	2.00	101	
Total TCDD	ND	-----	0.42		1,2,3,7,8-PeCDD-13C	2.00	90	
					1,2,3,4,7,8-HxCDF-13C	2.00	22	R
1,2,3,7,8-PeCDF	ND	-----	0.41		1,2,3,6,7,8-HxCDF-13C	2.00	75	
2,3,4,7,8-PeCDF	ND	-----	0.14		2,3,4,6,7,8-HxCDF-13C	2.00	88	
Total PeCDF	ND	-----	0.14		1,2,3,7,8,9-HxCDF-13C	2.00	32	R
					1,2,3,4,7,8-HxCDD-13C	2.00	56	
1,2,3,7,8-PeCDD	ND	-----	0.30		1,2,3,6,7,8-HxCDD-13C	2.00	74	
Total PeCDD	ND	-----	0.30		1,2,3,4,6,7,8-HpCDF-13C	2.00	30	R
					1,2,3,4,7,8,9-HpCDF-13C	2.00	61	
1,2,3,4,7,8-HxCDF	ND	-----	0.93		1,2,3,4,6,7,8-HpCDD-13C	2.00	70	
1,2,3,6,7,8-HxCDF	ND	-----	0.25		OCDD-13C	4.00	64	
2,3,4,6,7,8-HxCDF	ND	-----	0.22					
1,2,3,7,8,9-HxCDF	0.95	-----	0.43	J	1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	0.95	-----	0.22	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	2.0	-----	0.57	J	2,3,7,8-TCDD-37Cl4	0.20	77	
1,2,3,6,7,8-HxCDD	ND	-----	0.58					
1,2,3,7,8,9-HxCDD	ND	-----	0.61					
Total HxCDD	2.0	-----	0.57	BJ				
1,2,3,4,6,7,8-HpCDF	ND	-----	1.3		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	0.92		Equivalence: 0.31 pg/L			
Total HpCDF	ND	-----	0.92		(Lower-bound - Using 2005 WHO Factors)			
1,2,3,4,6,7,8-HpCDD	1.2	-----	0.87	J				
Total HpCDD	2.7	-----	0.87	J				
OCDF	-----	0.86	0.76	IJ				
OCDD	5.5	-----	0.65	BJ				

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J = Estimated value
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I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	Field Dup 2		
Lab Sample ID	20247389032		
Filename	L220701A_06		
Injected By	JRH		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/21/2022 09:45
ICAL ID	L220428	Received	06/23/2022 09:30
CCal Filename(s)	L220701A_01 & L220701A_17	Extracted	06/29/2022 13:15
Method Blank ID	BLANK-99727	Analyzed	07/01/2022 16:55

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	0.31		2,3,7,8-TCDF-13C	2.00	78	
Total TCDF	ND	-----	0.31		2,3,7,8-TCDD-13C	2.00	70	
					1,2,3,7,8-PeCDF-13C	2.00	42	
2,3,7,8-TCDD	ND	-----	0.59		2,3,4,7,8-PeCDF-13C	2.00	90	
Total TCDD	ND	-----	0.59		1,2,3,7,8-PeCDD-13C	2.00	80	
					1,2,3,4,7,8-HxCDF-13C	2.00	18	R
1,2,3,7,8-PeCDF	ND	-----	0.47		1,2,3,6,7,8-HxCDF-13C	2.00	19	R
2,3,4,7,8-PeCDF	ND	-----	0.12		2,3,4,6,7,8-HxCDF-13C	2.00	80	
Total PeCDF	ND	-----	0.12		1,2,3,7,8,9-HxCDF-13C	2.00	20	R
					1,2,3,4,7,8-HxCDD-13C	2.00	50	
1,2,3,7,8-PeCDD	ND	-----	0.37		1,2,3,6,7,8-HxCDD-13C	2.00	59	
Total PeCDD	ND	-----	0.37		1,2,3,4,6,7,8-HpCDF-13C	2.00	15	R
					1,2,3,4,7,8,9-HpCDF-13C	2.00	38	R
1,2,3,4,7,8-HxCDF	ND	-----	0.70		1,2,3,4,6,7,8-HpCDD-13C	2.00	45	
1,2,3,6,7,8-HxCDF	ND	-----	1.3		OCDD-13C	4.00	47	
2,3,4,6,7,8-HxCDF	ND	-----	0.21					
1,2,3,7,8,9-HxCDF	ND	-----	0.53		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	ND	-----	0.21		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	-----	1.6	0.55	IJ	2,3,7,8-TCDD-37Cl4	0.20	76	
1,2,3,6,7,8-HxCDD	ND	-----	0.98					
1,2,3,7,8,9-HxCDD	ND	-----	0.89					
Total HxCDD	ND	-----	0.55					
1,2,3,4,6,7,8-HpCDF	ND	-----	4.6		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	1.9		Equivalence: 0.16 pg/L			
Total HpCDF	ND	-----	1.9		(Lower-bound - Using 2005 WHO Factors)			
1,2,3,4,6,7,8-HpCDD	ND	-----	1.0					
Total HpCDD	ND	-----	1.0					
OCDF	ND	-----	0.90					
OCDD	8.2	-----	1.0	BJ				

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J = Estimated value
B = Less than 10x higher than method blank level
R = Recovery outside target range
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

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Method 8290 Blank Analysis Results

Lab Sample Name	DFBLKLK		
Lab Sample ID	BLANK-99697	Matrix	Water
Filename	L220629A_10	Dilution	NA
Total Amount Extracted	1000 mL	Extracted	06/27/2022 15:00
ICAL ID	L220428	Analyzed	06/29/2022 16:33
CCal Filename(s)	L220629A_01 & L220629A_18	Injected By	SMT

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	0.59		2,3,7,8-TCDF-13C	2.00	68	
Total TCDF	ND	-----	0.59		2,3,7,8-TCDD-13C	2.00	58	
					1,2,3,7,8-PeCDF-13C	2.00	64	
2,3,7,8-TCDD	ND	-----	0.69		2,3,4,7,8-PeCDF-13C	2.00	86	
Total TCDD	ND	-----	0.69		1,2,3,7,8-PeCDD-13C	2.00	81	
					1,2,3,4,7,8-HxCDF-13C	2.00	24	R
1,2,3,7,8-PeCDF	-----	0.74	0.55	IJ	1,2,3,6,7,8-HxCDF-13C	2.00	55	
2,3,4,7,8-PeCDF	-----	0.50	0.28	IJ	2,3,4,6,7,8-HxCDF-13C	2.00	68	
Total PeCDF	ND	-----	0.28		1,2,3,7,8,9-HxCDF-13C	2.00	30	R
					1,2,3,4,7,8-HxCDD-13C	2.00	49	
1,2,3,7,8-PeCDD	ND	-----	0.50		1,2,3,6,7,8-HxCDD-13C	2.00	57	
Total PeCDD	ND	-----	0.50		1,2,3,4,6,7,8-HpCDF-13C	2.00	25	R
					1,2,3,4,7,8,9-HpCDF-13C	2.00	44	
1,2,3,4,7,8-HxCDF	ND	-----	0.92		1,2,3,4,6,7,8-HpCDD-13C	2.00	46	
1,2,3,6,7,8-HxCDF	-----	0.59	0.40	IJ	OCDD-13C	4.00	52	
2,3,4,6,7,8-HxCDF	0.35	-----	0.30	J				
1,2,3,7,8,9-HxCDF	1.4	-----	0.72	J	1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	1.7	-----	0.30	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	3.3	-----	0.94	J	2,3,7,8-TCDD-37Cl4	0.20	61	
1,2,3,6,7,8-HxCDD	ND	-----	0.97					
1,2,3,7,8,9-HxCDD	ND	-----	0.95					
Total HxCDD	3.3	-----	0.94	J				
1,2,3,4,6,7,8-HpCDF	-----	3.7	3.1	IJ	Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	2.0		Equivalence: 0.79 pg/L			
Total HpCDF	ND	-----	2.0		(Lower-bound - Using 2005 WHO Factors)			
1,2,3,4,6,7,8-HpCDD	-----	1.4	0.99	IJ				
Total HpCDD	ND	-----	0.99					
OCDF	1.9	-----	1.6	J				
OCDD	8.4	-----	1.2	J				

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REPORT OF LABORATORY ANALYSIS

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Method 8290 Blank Analysis Results

Lab Sample Name	DFBLKKR		
Lab Sample ID	BLANK-99639	Matrix	Water
Filename	L220629A_11	Dilution	NA
Total Amount Extracted	977 mL	Extracted	06/24/2022 13:30
ICAL ID	L220428	Analyzed	06/29/2022 17:18
CCal Filename(s)	L220629A_01 & L220629A_18	Injected By	SMT

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	0.51		2,3,7,8-TCDF-13C	2.00	60	
Total TCDF	ND	-----	0.51		2,3,7,8-TCDD-13C	2.00	51	
					1,2,3,7,8-PeCDF-13C	2.00	56	
2,3,7,8-TCDD	ND	-----	0.87		2,3,4,7,8-PeCDF-13C	2.00	73	
Total TCDD	ND	-----	0.87		1,2,3,7,8-PeCDD-13C	2.00	66	
					1,2,3,4,7,8-HxCDF-13C	2.00	29	R
1,2,3,7,8-PeCDF	-----	0.81	0.51	IJ	1,2,3,6,7,8-HxCDF-13C	2.00	54	
2,3,4,7,8-PeCDF	0.45	-----	0.29	J	2,3,4,6,7,8-HxCDF-13C	2.00	57	
Total PeCDF	0.45	-----	0.29	J	1,2,3,7,8,9-HxCDF-13C	2.00	32	R
					1,2,3,4,7,8-HxCDD-13C	2.00	44	
1,2,3,7,8-PeCDD	ND	-----	0.67		1,2,3,6,7,8-HxCDD-13C	2.00	44	
Total PeCDD	ND	-----	0.67		1,2,3,4,6,7,8-HpCDF-13C	2.00	28	R
					1,2,3,4,7,8,9-HpCDF-13C	2.00	36	R
1,2,3,4,7,8-HxCDF	ND	-----	0.62		1,2,3,4,6,7,8-HpCDD-13C	2.00	38	R
1,2,3,6,7,8-HxCDF	ND	-----	0.49		OCDD-13C	4.00	40	
2,3,4,6,7,8-HxCDF	ND	-----	0.35					
1,2,3,7,8,9-HxCDF	2.2	-----	0.98	J	1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	3.0	-----	0.35	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	2.2	-----	1.3	J	2,3,7,8-TCDD-37Cl4	0.20	80	
1,2,3,6,7,8-HxCDD	ND	-----	0.82					
1,2,3,7,8,9-HxCDD	ND	-----	0.69					
Total HxCDD	2.2	-----	0.69	J				
1,2,3,4,6,7,8-HpCDF	ND	-----	2.6		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	2.1		Equivalence: 0.60 pg/L			
Total HpCDF	ND	-----	2.1		(Lower-bound - Using 2005 WHO Factors)			
1,2,3,4,6,7,8-HpCDD	ND	-----	1.8					
Total HpCDD	ND	-----	1.8					
OCDF	ND	-----	2.6					
OCDD	12	-----	3.1	J				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

J = Estimated value
R = Recovery outside target range
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

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Method 8290 Blank Analysis Results

Lab Sample Name	DFBLKLU		
Lab Sample ID	BLANK-99727	Matrix	Water
Filename	U220705A_09	Dilution	NA
Total Amount Extracted	906 mL	Extracted	06/29/2022 13:15
ICAL ID	U220611	Analyzed	07/05/2022 16:51
CCal Filename(s)	U220705A_01 & U220705A_17	Injected By	MS4

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.63	2,3,7,8-TCDF-13C	2.00	73
Total TCDF	ND	-----	0.63	2,3,7,8-TCDD-13C	2.00	68
				1,2,3,7,8-PeCDF-13C	2.00	84
2,3,7,8-TCDD	ND	-----	0.65	2,3,4,7,8-PeCDF-13C	2.00	87
Total TCDD	ND	-----	0.65	1,2,3,7,8-PeCDD-13C	2.00	89
				1,2,3,4,7,8-HxCDF-13C	2.00	105
1,2,3,7,8-PeCDF	ND	-----	0.39	1,2,3,6,7,8-HxCDF-13C	2.00	81
2,3,4,7,8-PeCDF	ND	-----	0.28	2,3,4,6,7,8-HxCDF-13C	2.00	98
Total PeCDF	ND	-----	0.28	1,2,3,7,8,9-HxCDF-13C	2.00	95
				1,2,3,4,7,8-HxCDD-13C	2.00	100
1,2,3,7,8-PeCDD	ND	-----	0.65	1,2,3,6,7,8-HxCDD-13C	2.00	89
Total PeCDD	ND	-----	0.65	1,2,3,4,6,7,8-HpCDF-13C	2.00	79
				1,2,3,4,7,8,9-HpCDF-13C	2.00	69
1,2,3,4,7,8-HxCDF	ND	-----	0.73	1,2,3,4,6,7,8-HpCDD-13C	2.00	72
1,2,3,6,7,8-HxCDF	ND	-----	0.93	OCDD-13C	4.00	61
2,3,4,6,7,8-HxCDF	ND	-----	0.79			
1,2,3,7,8,9-HxCDF	ND	-----	0.88	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.73	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.2	2,3,7,8-TCDD-37Cl4	0.20	82
1,2,3,6,7,8-HxCDD	ND	-----	1.3			
1,2,3,7,8,9-HxCDD	ND	-----	1.2			
Total HxCDD	1.2	-----	1.2 J			
1,2,3,4,6,7,8-HpCDF	ND	-----	4.2	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	5.2	Equivalence: 0.0078 pg/L		
Total HpCDF	ND	-----	4.2	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	2.1			
Total HpCDD	ND	-----	2.1			
OCDF	ND	-----	2.7			
OCDD	26	-----	3.7 J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

J = Estimated value

REPORT OF LABORATORY ANALYSIS

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-99698		
Filename	L220629A_02	Matrix	Water
Total Amount Extracted	1010 mL	Dilution	NA
ICAL ID	L220428	Extracted	06/27/2022 15:00
CCal Filename(s)	L220629A_01 & L220629A_18	Analyzed	06/29/2022 10:42
Method Blank ID	BLANK-99697	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.22	109	2,3,7,8-TCDF-13C	2.0	84
Total TCDF				2,3,7,8-TCDD-13C	2.0	73
				1,2,3,7,8-PeCDF-13C	2.0	66
2,3,7,8-TCDD	0.20	0.22	109	2,3,4,7,8-PeCDF-13C	2.0	102
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	98
				1,2,3,4,7,8-HxCDF-13C	2.0	42
1,2,3,7,8-PeCDF	1.0	0.99	99	1,2,3,6,7,8-HxCDF-13C	2.0	83
2,3,4,7,8-PeCDF	1.0	0.98	98	2,3,4,6,7,8-HxCDF-13C	2.0	86
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	49
				1,2,3,4,7,8-HxCDD-13C	2.0	70
1,2,3,7,8-PeCDD	1.0	0.94	94	1,2,3,6,7,8-HxCDD-13C	2.0	73
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	47
				1,2,3,4,7,8,9-HpCDF-13C	2.0	60
1,2,3,4,7,8-HxCDF	1.0	1.0	104	1,2,3,4,6,7,8-HpCDD-13C	2.0	62
1,2,3,6,7,8-HxCDF	1.0	0.98	98	OCDD-13C	4.0	57
2,3,4,6,7,8-HxCDF	1.0	0.97	97			
1,2,3,7,8,9-HxCDF	1.0	0.87	87	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.0	100	2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	1.0	0.94	94			
1,2,3,7,8,9-HxCDD	1.0	1.1	114			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	0.93	93			
1,2,3,4,7,8,9-HpCDF	1.0	0.93	93			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.90	90			
Total HpCDD						
OCDF	2.0	1.9	97			
OCDD	2.0	1.8	91			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-99640		
Filename	L220629A_04	Matrix	Water
Total Amount Extracted	956 mL	Dilution	NA
ICAL ID	L220428	Extracted	06/24/2022 13:30
CCal Filename(s)	L220629A_01 & L220629A_18	Analyzed	06/29/2022 12:09
Method Blank ID	BLANK-99639	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.22	109	2,3,7,8-TCDF-13C	2.0	66
Total TCDF				2,3,7,8-TCDD-13C	2.0	57
				1,2,3,7,8-PeCDF-13C	2.0	67
2,3,7,8-TCDD	0.20	0.23	113	2,3,4,7,8-PeCDF-13C	2.0	78
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	73
				1,2,3,4,7,8-HxCDF-13C	2.0	54
1,2,3,7,8-PeCDF	1.0	1.1	107	1,2,3,6,7,8-HxCDF-13C	2.0	64
2,3,4,7,8-PeCDF	1.0	1.0	101	2,3,4,6,7,8-HxCDF-13C	2.0	66
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	32 R
				1,2,3,4,7,8-HxCDD-13C	2.0	55
1,2,3,7,8-PeCDD	1.0	0.97	97	1,2,3,6,7,8-HxCDD-13C	2.0	56
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	26 R
				1,2,3,4,7,8,9-HpCDF-13C	2.0	42
1,2,3,4,7,8-HxCDF	1.0	1.0	103	1,2,3,4,6,7,8-HpCDD-13C	2.0	45
1,2,3,6,7,8-HxCDF	1.0	1.0	101	OCDD-13C	4.0	42
2,3,4,6,7,8-HxCDF	1.0	0.98	98			
1,2,3,7,8,9-HxCDF	1.0	0.88	88	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.1	107	2,3,7,8-TCDD-37Cl4	0.20	80
1,2,3,6,7,8-HxCDD	1.0	0.97	97			
1,2,3,7,8,9-HxCDD	1.0	1.1	113			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	0.89	89			
1,2,3,4,7,8,9-HpCDF	1.0	0.99	99			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.91	91			
Total HpCDD						
OCDF	2.0	2.1	103			
OCDD	2.0	2.0	99			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-99728		
Filename	F220701A_05	Matrix	Water
Total Amount Extracted	970 mL	Dilution	NA
ICAL ID	F220529	Extracted	06/29/2022 13:15
CCal Filename(s)	F220701A_03 & F220701A_19	Analyzed	07/01/2022 13:35
Method Blank ID	BLANK-99727	Injected By	MS4

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.16	79	2,3,7,8-TCDF-13C	2.0	75
Total TCDF				2,3,7,8-TCDD-13C	2.0	73
				1,2,3,7,8-PeCDF-13C	2.0	74
2,3,7,8-TCDD	0.20	0.18	89	2,3,4,7,8-PeCDF-13C	2.0	81
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	80
				1,2,3,4,7,8-HxCDF-13C	2.0	78
1,2,3,7,8-PeCDF	1.0	0.81	81	1,2,3,6,7,8-HxCDF-13C	2.0	74
2,3,4,7,8-PeCDF	1.0	0.79	79	2,3,4,6,7,8-HxCDF-13C	2.0	82
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	76
				1,2,3,4,7,8-HxCDD-13C	2.0	81
1,2,3,7,8-PeCDD	1.0	0.83	83	1,2,3,6,7,8-HxCDD-13C	2.0	88
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	79
				1,2,3,4,7,8,9-HpCDF-13C	2.0	69
1,2,3,4,7,8-HxCDF	1.0	0.85	85	1,2,3,4,6,7,8-HpCDD-13C	2.0	74
1,2,3,6,7,8-HxCDF	1.0	0.86	86	OCDD-13C	4.0	56
2,3,4,6,7,8-HxCDF	1.0	0.87	87			
1,2,3,7,8,9-HxCDF	1.0	0.88	88	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	0.88	88	2,3,7,8-TCDD-37Cl4	0.20	87
1,2,3,6,7,8-HxCDD	1.0	0.89	89			
1,2,3,7,8,9-HxCDD	1.0	0.83	83			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	0.86	86			
1,2,3,4,7,8,9-HpCDF	1.0	0.85	85			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.76	76			
Total HpCDD						
OCDF	2.0	1.9	96			
OCDD	2.0	1.8	90			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCSD-99699		
Filename	L220629A_03	Matrix	Water
Total Amount Extracted	1010 mL	Dilution	NA
ICAL ID	L220428	Extracted	06/27/2022 15:00
CCal Filename(s)	L220629A_01 & L220629A_18	Analyzed	06/29/2022 11:25
Method Blank ID	BLANK-99697	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.22	112	2,3,7,8-TCDF-13C	2.0	103
Total TCDF				2,3,7,8-TCDD-13C	2.0	90
				1,2,3,7,8-PeCDF-13C	2.0	74
2,3,7,8-TCDD	0.20	0.23	116	2,3,4,7,8-PeCDF-13C	2.0	126
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	114
				1,2,3,4,7,8-HxCDF-13C	2.0	30 R
1,2,3,7,8-PeCDF	1.0	1.0	102	1,2,3,6,7,8-HxCDF-13C	2.0	61
2,3,4,7,8-PeCDF	1.0	1.0	103	2,3,4,6,7,8-HxCDF-13C	2.0	105
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	35 R
				1,2,3,4,7,8-HxCDD-13C	2.0	81
1,2,3,7,8-PeCDD	1.0	1.0	101	1,2,3,6,7,8-HxCDD-13C	2.0	88
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	26 R
				1,2,3,4,7,8,9-HpCDF-13C	2.0	45
1,2,3,4,7,8-HxCDF	1.0	0.88	88	1,2,3,4,6,7,8-HpCDD-13C	2.0	67
1,2,3,6,7,8-HxCDF	1.0	1.1	110	OCDD-13C	4.0	74
2,3,4,6,7,8-HxCDF	1.0	1.0	102			
1,2,3,7,8,9-HxCDF	1.0	0.87	87	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.1	106	2,3,7,8-TCDD-37Cl4	0.20	103
1,2,3,6,7,8-HxCDD	1.0	0.95	95			
1,2,3,7,8,9-HxCDD	1.0	1.2	122			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	0.83	83			
1,2,3,4,7,8,9-HpCDF	1.0	0.99	99			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.88	88			
Total HpCDD						
OCDF	2.0	1.8	92			
OCDD	2.0	1.8	91			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCSD-99641		
Filename	L220629A_05	Matrix	Water
Total Amount Extracted	1000 mL	Dilution	NA
ICAL ID	L220428	Extracted	06/24/2022 13:30
CCal Filename(s)	L220629A_01 & L220629A_18	Analyzed	06/29/2022 12:53
Method Blank ID	BLANK-99639	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.22	111	2,3,7,8-TCDF-13C	2.0	68
Total TCDF				2,3,7,8-TCDD-13C	2.0	57
				1,2,3,7,8-PeCDF-13C	2.0	67
2,3,7,8-TCDD	0.20	0.23	115	2,3,4,7,8-PeCDF-13C	2.0	81
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	76
				1,2,3,4,7,8-HxCDF-13C	2.0	43
1,2,3,7,8-PeCDF	1.0	1.1	111	1,2,3,6,7,8-HxCDF-13C	2.0	60
2,3,4,7,8-PeCDF	1.0	1.0	102	2,3,4,6,7,8-HxCDF-13C	2.0	63
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	35 R
				1,2,3,4,7,8-HxCDD-13C	2.0	48
1,2,3,7,8-PeCDD	1.0	1.0	102	1,2,3,6,7,8-HxCDD-13C	2.0	54
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	35 R
				1,2,3,4,7,8,9-HpCDF-13C	2.0	44
1,2,3,4,7,8-HxCDF	1.0	1.1	113	1,2,3,4,6,7,8-HpCDD-13C	2.0	45
1,2,3,6,7,8-HxCDF	1.0	1.1	106	OCDD-13C	4.0	43
2,3,4,6,7,8-HxCDF	1.0	1.0	104			
1,2,3,7,8,9-HxCDF	1.0	0.95	95	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.1	112	2,3,7,8-TCDD-37Cl4	0.20	88
1,2,3,6,7,8-HxCDD	1.0	1.0	103			
1,2,3,7,8,9-HxCDD	1.0	1.2	121			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.0	103			
1,2,3,4,7,8,9-HpCDF	1.0	1.0	102			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.96	96			
Total HpCDD						
OCDF	2.0	2.1	103			
OCDD	2.0	2.0	101			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCSD-99729		
Filename	U220705A_04	Matrix	Water
Total Amount Extracted	1010 mL	Dilution	5
ICAL ID	U220611	Extracted	06/29/2022 13:15
CCal Filename(s)	U220705A_01 & U220705A_17	Analyzed	07/05/2022 12:55
Method Blank ID	BLANK-99727	Injected By	MS4

Native Isomers	Qs (ng)	Qm (ng)	% Rec.		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	0.20	0.19	96	D	2,3,7,8-TCDF-13C	2.0	70	D
Total TCDF					2,3,7,8-TCDD-13C	2.0	71	D
					1,2,3,7,8-PeCDF-13C	2.0	83	D
2,3,7,8-TCDD	0.20	0.20	101	D	2,3,4,7,8-PeCDF-13C	2.0	88	D
Total TCDD					1,2,3,7,8-PeCDD-13C	2.0	92	D
					1,2,3,4,7,8-HxCDF-13C	2.0	97	D
1,2,3,7,8-PeCDF	1.0	0.89	89	D	1,2,3,6,7,8-HxCDF-13C	2.0	80	D
2,3,4,7,8-PeCDF	1.0	0.86	86	D	2,3,4,6,7,8-HxCDF-13C	2.0	89	D
Total PeCDF					1,2,3,7,8,9-HxCDF-13C	2.0	87	D
					1,2,3,4,7,8-HxCDD-13C	2.0	96	D
1,2,3,7,8-PeCDD	1.0	0.81	81	D	1,2,3,6,7,8-HxCDD-13C	2.0	85	D
Total PeCDD					1,2,3,4,6,7,8-HpCDF-13C	2.0	75	D
					1,2,3,4,7,8,9-HpCDF-13C	2.0	68	D
1,2,3,4,7,8-HxCDF	1.0	0.91	91	D	1,2,3,4,6,7,8-HpCDD-13C	2.0	78	D
1,2,3,6,7,8-HxCDF	1.0	0.91	91	D	OCDD-13C	4.0	65	D
2,3,4,6,7,8-HxCDF	1.0	0.93	93	D				
1,2,3,7,8,9-HxCDF	1.0	0.94	94	D	1,2,3,4-TCDD-13C	2.0	NA	D
Total HxCDF					1,2,3,7,8,9-HxCDD-13C	2.0	NA	D
1,2,3,4,7,8-HxCDD	1.0	0.90	90	D	2,3,7,8-TCDD-37Cl4	0.20	91	D
1,2,3,6,7,8-HxCDD	1.0	0.88	88	D				
1,2,3,7,8,9-HxCDD	1.0	0.81	81	D				
Total HxCDD								
1,2,3,4,6,7,8-HpCDF	1.0	0.86	86	D				
1,2,3,4,7,8,9-HpCDF	1.0	0.90	90	D				
Total HpCDF								
1,2,3,4,6,7,8-HpCDD	1.0	0.80	80	D				
Total HpCDD								
OCDF	2.0	1.8	92	D				
OCDD	2.0	1.9	94	D				

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290

Spike Recovery Relative Percent Difference (RPD) Results

Client	PACE New Orleans		
Spike 1 ID	LCS-99698	Spike 2 ID	LCSD-99699
Spike 1 Filename	L220629A_02	Spike 2 Filename	L220629A_03

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDF	109	112	2.7
2,3,7,8-TCDD	109	116	6.2
1,2,3,7,8-PeCDF	99	102	3.0
2,3,4,7,8-PeCDF	98	103	5.0
1,2,3,7,8-PeCDD	94	101	7.2
1,2,3,4,7,8-HxCDF	104	88	16.7
1,2,3,6,7,8-HxCDF	98	110	11.5
2,3,4,6,7,8-HxCDF	97	102	5.0
1,2,3,7,8,9-HxCDF	87	87	0.0
1,2,3,4,7,8-HxCDD	100	106	5.8
1,2,3,6,7,8-HxCDD	94	95	1.1
1,2,3,7,8,9-HxCDD	114	122	6.8
1,2,3,4,6,7,8-HpCDF	93	83	11.4
1,2,3,4,7,8,9-HpCDF	93	99	6.3
1,2,3,4,6,7,8-HpCDD	90	88	2.2
OCDF	97	92	5.3
OCDD	91	91	0.0

%REC = Percent Recovered
RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290

Spike Recovery Relative Percent Difference (RPD) Results

Client	PACE New Orleans		
Spike 1 ID	LCS-99640	Spike 2 ID	LCSD-99641
Spike 1 Filename	L220629A_04	Spike 2 Filename	L220629A_05

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDF	109	111	1.8
2,3,7,8-TCDD	113	115	1.8
1,2,3,7,8-PeCDF	107	111	3.7
2,3,4,7,8-PeCDF	101	102	1.0
1,2,3,7,8-PeCDD	97	102	5.0
1,2,3,4,7,8-HxCDF	103	113	9.3
1,2,3,6,7,8-HxCDF	101	106	4.8
2,3,4,6,7,8-HxCDF	98	104	5.9
1,2,3,7,8,9-HxCDF	88	95	7.7
1,2,3,4,7,8-HxCDD	107	112	4.6
1,2,3,6,7,8-HxCDD	97	103	6.0
1,2,3,7,8,9-HxCDD	113	121	6.8
1,2,3,4,6,7,8-HpCDF	89	103	14.6
1,2,3,4,7,8,9-HpCDF	99	102	3.0
1,2,3,4,6,7,8-HpCDD	91	96	5.3
OCDF	103	103	0.0
OCDD	99	101	2.0

%REC = Percent Recovered
RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
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Method 8290

Spike Recovery Relative Percent Difference (RPD) Results

Client	PACE New Orleans		
Spike 1 ID	LCS-99728	Spike 2 ID	LCSD-99729
Spike 1 Filename	F220701A_05	Spike 2 Filename	U220705A_04

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDF	79	96	19.4
2,3,7,8-TCDD	89	101	12.6
1,2,3,7,8-PeCDF	81	89	9.4
2,3,4,7,8-PeCDF	79	86	8.5
1,2,3,7,8-PeCDD	83	81	2.4
1,2,3,4,7,8-HxCDF	85	91	6.8
1,2,3,6,7,8-HxCDF	86	91	5.6
2,3,4,6,7,8-HxCDF	87	93	6.7
1,2,3,7,8,9-HxCDF	88	94	6.6
1,2,3,4,7,8-HxCDD	88	90	2.2
1,2,3,6,7,8-HxCDD	89	88	1.1
1,2,3,7,8,9-HxCDD	83	81	2.4
1,2,3,4,6,7,8-HpCDF	86	86	0.0
1,2,3,4,7,8,9-HpCDF	85	90	5.7
1,2,3,4,6,7,8-HpCDD	76	80	5.1
OCDF	96	92	4.3
OCDD	90	94	4.3

%REC = Percent Recovered
RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

July 11, 2023

Gretchen Barrera
Alabama State Port Authority
P.O. Box 1588
Mobile, AL 36633

RE: Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Dear Gretchen Barrera:

Enclosed are the analytical results for sample(s) received by the laboratory between June 13, 2023 and June 14, 2023. The results relate only to the samples included in this report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Green Bay
- Pace Analytical Gulf Coast
- Pace Analytical Services - New Orleans

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

MK Brenner

Mary Kathryn Brenner
marykathryn.brenner@pacelabs.com
251-344-9106
Project Manager

Enclosures

cc: Priyahita Hrenko, Wood PLC
Rehman Siddiqui, Alabama State Port Authority

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

CERTIFICATIONS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Pace Analytical Services New Orleans

Florida Department of Health (NELAC): E87595
Illinois Environmental Protection Agency: 0025721
Kansas Department of Health and Environment (NELAC): E-10266
Louisiana Dept. of Environmental Quality (NELAC/LELAP): 02006
Texas Commission on Env. Quality (NELAC): T104704405-09-TX
U.S. Dept. of Agriculture Foreign Soil Import: P330-10-00119

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05
Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Mold Certification #: LAB0152
Texas Certification #: T 104704245-17-14
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: VT2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

CERTIFICATIONS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Pace Analytical Gulf Coast
7979 Innovation Park Drive, Baton Rouge, LA 70820
Arkansas Certification #: 88-0655
DoD ELAP Certification #: 6429-01
Florida Certification #: E87854
Illinois Certification #: 004585
Kansas Certification #: E-10354
Louisiana/LELAP Certification #: 01955
North Carolina Certification #: 618
North Dakota Certification #: R-195
Oklahoma Certification #: 2019-101
South Carolina Certification #: 73006001
Texas Certification #: T104704178-19-11
USDA Soil Permit # P330-19-00209
Virginia Certification #: 460215
Washington Certification #: C929

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

SAMPLE SUMMARY

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20279949001	**7-D**	Water	06/13/23 07:49	06/14/23 07:56
20279949002	**7-IR**	Water	06/13/23 09:10	06/14/23 07:56
20279949003	**7-S**	Water	06/13/23 08:20	06/14/23 07:56
20279949004	**8-D**	Water	06/13/23 12:35	06/14/23 07:56
20279949005	**8-DK**	Water	06/13/23 10:20	06/14/23 07:56
20279949006	**8-I**	Water	06/13/23 11:45	06/14/23 07:56
20279949007	**9-1**	Water	06/13/23 12:30	06/14/23 07:56
20279949008	**8-S**	Water	06/13/23 10:40	06/14/23 07:56
20279949009	**15-D**	Water	06/12/23 14:55	06/13/23 09:11
20279949010	**15-I**	Water	06/12/23 16:30	06/13/23 09:11
20279949011	**15-S**	Water	06/12/23 15:55	06/13/23 09:11
20279949012	**16-D**	Water	06/12/23 13:36	06/13/23 09:11
20279949013	**16-I**	Water	06/12/23 11:35	06/13/23 09:11
20279949014	**19-SR**	Water	06/12/23 16:20	06/13/23 09:11
20279949015	**31-DR**	Water	06/12/23 09:12	06/13/23 09:11
20279949016	**31-IR**	Water	06/12/23 10:00	06/13/23 09:11
20279949017	**32-I**	Water	06/12/23 14:45	06/13/23 09:11
20279949018	**32-S**	Water	06/12/23 13:15	06/13/23 09:11
20279949019	**Equipment Blank 1**	Water	06/12/23 09:15	06/13/23 09:11
20279949020	**Equipment Blank 2**	Water	06/12/23 17:10	06/13/23 09:11
20279949021	**Equipment Blank 3**	Water	06/13/23 06:55	06/14/23 07:56
20279949022	**Equipment Blank 4**	Water	06/13/23 14:00	06/14/23 07:56
20279949025	**Field Dup 1**	Water	06/12/23 09:30	06/13/23 09:11
20279949026	**Field Dup 2**	Water	06/12/23 09:30	06/13/23 09:11
20279949027	**Trip Blank 1**	Water	06/13/23 08:00	06/13/23 09:11
20279949028	**Trip Blank 2**	Water	06/13/23 06:00	06/13/23 09:11
20279949029	**Trip Blank 3**	Water	06/13/23 06:00	06/14/23 07:56
20279949030	**Trip Blank 4**	Water	06/13/23 06:00	06/14/23 07:56

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

SAMPLE ANALYTE COUNT

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
20279949001	**7-D**	EPA 8081	LTB	23	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C Modified	AMG	2	PAN
		EPA 8270C	AGW, DSH	124	PAN
		EPA 8321	JNJ	4	PAN
		EPA 8260B	AV, JHH	59	PAN
		SM 4500-S-2 D	AMP	1	PASI-N
		EPA 335.4	DAW	1	PASI-G
		EPA 420.1	ABW	1	PASI-N
20279949002	**7-IR**	EPA 8081	LTB	23	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C Modified	AMG	2	PAN
		EPA 8270C	AGW, DSH	124	PAN
		EPA 8321	JNJ	4	PAN
		EPA 8260B	AV, JHH	59	PAN
		SM 4500-S-2 D	AMP	1	PASI-N
		EPA 335.4	DAW	1	PASI-G
		EPA 420.1	ABW	1	PASI-N
20279949003	**7-S**	EPA 8081	HLA	21	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C Modified	AMG	2	PAN
		EPA 8270C	AGW, DSH	124	PAN
		EPA 8321	JNJ	4	PAN
		EPA 8260B	AV, JHH	59	PAN
		SM 4500-S-2 D	AMP	1	PASI-N
		EPA 335.4	DAW	1	PASI-G
		EPA 420.1	ABW	1	PASI-N
20279949004	**8-D**	EPA 8081	HLA	21	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C Modified	AMG	2	PAN
		EPA 8270C	DSH	78	PAN
		EPA 8321	JNJ	4	PAN
		EPA 8260B	AV, JHH	59	PAN

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

SAMPLE ANALYTE COUNT

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-S-2 D	AMP	1	PASI-N
		EPA 335.4	DAW	1	PASI-G
		EPA 420.1	ABW	1	PASI-N
20279949005	**8-DK**	EPA 8081	LTB	23	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C Modified	AMG	2	PAN
		EPA 8270C	AGW, DSH	124	PAN
		EPA 8321	JNJ	4	PAN
		EPA 8260B	AV, JHH	59	PAN
		SM 4500-S-2 D	AMP	1	PASI-N
		EPA 335.4	DAW	1	PASI-G
		EPA 420.1	ABW	1	PASI-N
20279949006	**8-I**	EPA 8081	RDH	21	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C Modified	AMG	2	PAN
		EPA 8270C	AGW, DSH	124	PAN
		EPA 8321	JNJ	4	PAN
		EPA 8260B	ACG, AV, JAH	59	PAN
		SM 4500-S-2 D	AMP	1	PASI-N
		EPA 335.4	DAW	1	PASI-G
		EPA 420.1	ABW	1	PASI-N
20279949007	**9-1**	EPA 8011	MFM	2	PAN
		EPA 8081	RDH	21	PAN
		EPA 8141	RDH	27	PAN
		EPA 8082	TLS	12	PASI-GCLA
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C Modified	AMG	2	PAN
		EPA 8270C	AGW, DSH	124	PAN
		EPA 8321	JNJ	4	PAN
		EPA 8260B	ACG, AV, JAH	59	PAN
		SM 4500-S-2 D	AMP	1	PASI-N
		EPA 335.4	DAW	1	PASI-G
		EPA 420.1	ABW	1	PASI-N

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

SAMPLE ANALYTE COUNT

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
20279949008	**8-S**	EPA 8081	LTB	23	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C Modified	AMG	2	PAN
		EPA 8270C	AGW, DSH	124	PAN
		EPA 8321	JNJ	4	PAN
		EPA 8260B	ACG, AV, JAH	59	PAN
		SM 4500-S-2 D	AMP	1	PASI-N
		EPA 335.4	DAW	1	PASI-G
		EPA 420.1	ABW	1	PASI-N
20279949009	**15-D**	EPA 8081	AMM	21	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C Modified	AMG	2	PAN
		EPA 8270C	AGW, AMG	124	PAN
		EPA 8321	JNJ	4	PAN
		EPA 8260B	JBE, JHH	59	PAN
		SM 4500-S-2 D	AMP	1	PASI-N
		EPA 335.4	DAW	1	PASI-G
		EPA 420.1	ABW	1	PASI-N
20279949010	**15-I**	EPA 8081	AMM	21	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C Modified	AMG	2	PAN
		EPA 8270C	AGW, AMG	124	PAN
		EPA 8321	JNJ	4	PAN
		EPA 8260B	JBE, JHH	59	PAN
		SM 4500-S-2 D	AMP	1	PASI-N
		EPA 335.4	DAW	1	PASI-G
		EPA 420.1	ABW	1	PASI-N
20279949011	**15-S**	EPA 8081	AMM	21	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C Modified	AMG	2	PAN
		EPA 8270C	AGW	124	PAN
		EPA 8321	JNJ	4	PAN

Pace Analytical Services, LLC
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SAMPLE ANALYTE COUNT

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260B	JBE, JHH	59	PAN
		SM 4500-S-2 D	AMP	1	PASI-N
		EPA 335.4	DAW	1	PASI-G
		EPA 420.1	ABW	1	PASI-N
20279949012	**16-D**	EPA 8011	MFM	2	PAN
		EPA 8081	AMM	21	PAN
		EPA 8141	DLH	27	PAN
		EPA 8082	TLS	12	PASI-GCLA
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C Modified	AMG	2	PAN
		EPA 8270C	AGW, AMG	124	PAN
		EPA 8321	JNJ	4	PAN
		EPA 8260B	JBE, JHH	59	PAN
		SM 4500-S-2 D	AMP	1	PASI-N
		EPA 335.4	DAW	1	PASI-G
		EPA 420.1	ABW	1	PASI-N
20279949013	**16-I**	EPA 8011	MFM	2	PAN
		EPA 8081	AMM	21	PAN
		EPA 8141	DLH	27	PAN
		EPA 8082	TLS	12	PASI-GCLA
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C Modified	AMG	2	PAN
		EPA 8270C	AGW, AMG	124	PAN
		EPA 8321	JNJ	4	PAN
		EPA 8260B	JBE, JHH	59	PAN
		SM 4500-S-2 D	AMP	1	PASI-N
		EPA 335.4	DAW	1	PASI-G
		EPA 420.1	ABW	1	PASI-N
20279949014	**19-SR**	EPA 8011	MFM	2	PAN
		EPA 8081	AMM	21	PAN
		EPA 8141	HLA	6	PAN
		EPA 8082	TLS	12	PASI-GCLA
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C Modified	AMG	2	PAN

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8270C	AGW, AMG	124	PAN
		EPA 8321	JNJ	4	PAN
		EPA 8260B	JBE, JHH	59	PAN
		SM 4500-S-2 D	AMP	1	PASI-N
		EPA 335.4	DAW	1	PASI-G
		EPA 420.1	ABW	1	PASI-N
20279949015	**31-DR**	EPA 8081	AMM	21	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C Modified	AMG	2	PAN
		EPA 8270C	AGW, AMG	124	PAN
		EPA 8321	JNJ	4	PAN
		EPA 8260B	JBE, JHH	59	PAN
		SM 4500-S-2 D	AMP	1	PASI-N
		EPA 335.4	DAW	1	PASI-G
		EPA 420.1	ABW	1	PASI-N
20279949016	**31-IR**	EPA 8081	AMM	21	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C Modified	AMG	2	PAN
		EPA 8270C	AGW, AMG	124	PAN
		EPA 8321	JNJ	4	PAN
		EPA 8260B	JBE, JHH	59	PAN
		SM 4500-S-2 D	AMP	1	PASI-N
		EPA 335.4	DAW	1	PASI-G
		EPA 420.1	ABW	1	PASI-N
20279949017	**32-I**	EPA 8081	AMM	21	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C Modified	AMG	2	PAN
		EPA 8270C	AGW, AMG	124	PAN
		EPA 8321	JNJ	4	PAN
		EPA 8260B	AV, JHH	59	PAN
		SM 4500-S-2 D	AMP	1	PASI-N
		EPA 335.4	DAW	1	PASI-G
		EPA 420.1	ABW	1	PASI-N
20279949018	**32-S**	EPA 8081	AMM	21	PAN

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SAMPLE ANALYTE COUNT

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C Modified	AMG	2	PAN
		EPA 8270C	AGW	124	PAN
		EPA 8321	JNJ	4	PAN
		EPA 8260B	AV, JHH	59	PAN
		SM 4500-S-2 D	AMP	1	PASI-N
		EPA 335.4	DAW	1	PASI-G
		EPA 420.1	ABW	1	PASI-N
20279949019	**Equipment Blank 1**	EPA 8081	AMM	21	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C Modified	AMG	2	PAN
		EPA 8270C	AGW, AMG	124	PAN
		EPA 8321	JNJ	4	PAN
		EPA 8260B	AV, JHH	59	PAN
		SM 4500-S-2 D	AMP	1	PASI-N
		EPA 335.4	DAW	1	PASI-G
		EPA 420.1	ABW	1	PASI-N
20279949020	**Equipment Blank 2**	EPA 8081	AMM	21	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C Modified	AMG	2	PAN
		EPA 8270C	AGW, AMG	124	PAN
		EPA 8321	JNJ	4	PAN
		EPA 8260B	AV, JHH	59	PAN
		SM 4500-S-2 D	AMP	1	PASI-N
		EPA 335.4	DAW	1	PASI-G
		EPA 420.1	ABW	1	PASI-N
20279949021	**Equipment Blank 3**	EPA 8081	LTB	23	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C Modified	AMG	2	PAN
		EPA 8270C	AGW, DSH	124	PAN
		EPA 8321	JNJ	4	PAN
		EPA 8260B	ACG, AV, JAH	59	PAN

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SAMPLE ANALYTE COUNT

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-S-2 D	AMP	1	PASI-N
		EPA 335.4	DAW	1	PASI-G
		EPA 420.1	ABW	1	PASI-N
20279949022	**Equipment Blank 4**	EPA 8081	LTB	23	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C Modified	AMG	2	PAN
		EPA 8270C	AGW, DSH	124	PAN
		EPA 8321	JNJ	4	PAN
		EPA 8260B	ACG, AV, JAH	59	PAN
		SM 4500-S-2 D	AMP	1	PASI-N
		EPA 335.4	DAW	1	PASI-G
		EPA 420.1	ABW	1	PASI-N
20279949025	**Field Dup 1**	EPA 8081	JMB	23	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C Modified	AMG	2	PAN
		EPA 8270C	AGW, AMG	124	PAN
		EPA 8321	JNJ	4	PAN
		EPA 8260B	AV, JHH	59	PAN
		SM 4500-S-2 D	AMP	1	PASI-N
		EPA 335.4	DAW	1	PASI-G
		EPA 420.1	ABW	1	PASI-N
20279949026	**Field Dup 2**	EPA 8081	LTB	23	PAN
		EPA 6020A	FC1	16	PASI-N
		EPA 7470	LWZ	1	PASI-GCLA
		EPA 8270C Modified	AMG	2	PAN
		EPA 8270C	AGW	124	PAN
		EPA 8321	JNJ	4	PAN
		EPA 8260B	ACG, AV, JAH	59	PAN
		SM 4500-S-2 D	AMP	1	PASI-N
		EPA 335.4	DAW	1	PASI-G
		EPA 420.1	ABW	1	PASI-N
20279949027	**Trip Blank 1**	EPA 8260B	ACG, AV, JAH	59	PAN
20279949028	**Trip Blank 2**	EPA 8260B	ACG, AV, JAH	59	PAN

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
20279949029	**Trip Blank 3**	EPA 8260B	AV, JHH	59	PAN
20279949030	**Trip Blank 4**	EPA 8260B	AV, JHH	59	PAN

PAN = Pace National - Mt. Juliet
PASI-G = Pace Analytical Services - Green Bay
PASI-GCLA = Pace Analytical Gulf Coast
PASI-N = Pace Analytical Services - New Orleans

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ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 7-D **Lab ID: 20279949001** Collected: 06/13/23 07:49 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/16/23 05:32	06/17/23 00:32	309-00-2	
alpha-BHC	ND	ug/L	0.0500	0.0172		1	06/16/23 05:32	06/17/23 00:32	319-84-6	
beta-BHC	ND	ug/L	0.0500	0.0208		1	06/16/23 05:32	06/17/23 00:32	319-85-7	
delta-BHC	ND	ug/L	0.0500	0.0150		1	06/16/23 05:32	06/17/23 00:32	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.0500	0.0209		1	06/16/23 05:32	06/17/23 00:32	58-89-9	
Chlordane (Technical)	ND	ug/L	5.00	0.0198		1	06/16/23 05:32	06/17/23 00:32	57-74-9	
4,4'-DDD	ND	ug/L	0.0500	0.0177		1	06/16/23 05:32	06/17/23 00:32	72-54-8	
4,4'-DDE	ND	ug/L	0.0500	0.0154		1	06/16/23 05:32	06/17/23 00:32	72-55-9	
4,4'-DDT	ND	ug/L	0.0500	0.0198		1	06/16/23 05:32	06/17/23 00:32	50-29-3	
Dieldrin	ND	ug/L	0.0500	0.0162		1	06/16/23 05:32	06/17/23 00:32	60-57-1	
Endosulfan I	ND	ug/L	0.0500	0.0160		1	06/16/23 05:32	06/17/23 00:32	959-98-8	
Endosulfan II	ND	ug/L	0.0500	0.0164		1	06/16/23 05:32	06/17/23 00:32	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.0500	0.0217		1	06/16/23 05:32	06/17/23 00:32	1031-07-8	
Endrin	ND	ug/L	0.0500	0.0161		1	06/16/23 05:32	06/17/23 00:32	72-20-8	
Endrin aldehyde	ND	ug/L	0.0500	0.0237		1	06/16/23 05:32	06/17/23 00:32	7421-93-4	
Endrin ketone	ND	ug/L	0.0500	0.0219		1	06/16/23 05:32	06/17/23 00:32	53494-70-5	
Hexachlorobenzene	ND	ug/L	0.0500	0.0176		1	06/16/23 05:32	06/17/23 00:32	118-74-1	
Heptachlor	ND	ug/L	0.0500	0.0148		1	06/16/23 05:32	06/17/23 00:32	76-44-8	
Heptachlor epoxide	ND	ug/L	0.0500	0.0183		1	06/16/23 05:32	06/17/23 00:32	1024-57-3	
Methoxychlor	ND	ug/L	0.0500	0.0193		1	06/16/23 05:32	06/17/23 00:32	72-43-5	
Toxaphene	ND	ug/L	0.500	0.168		1	06/16/23 05:32	06/17/23 00:32	8001-35-2	
Surrogates										
Decachlorobiphenyl (S)	29.8	%	10.0-128			1	06/16/23 05:32	06/17/23 00:32	2051-24-3	
Tetrachloro-m-xylene (S)	50.6	%	10.0-127			1	06/16/23 05:32	06/17/23 00:32	877-09-8	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0050	0.0017		5	06/19/23 08:18	06/21/23 17:53	7440-36-0	
Arsenic	**0.0023J**	mg/L	0.0050	0.00050		5	06/19/23 08:18	06/21/23 17:53	7440-38-2	
Barium	**0.085**	mg/L	0.0050	0.0032		5	06/19/23 08:18	06/21/23 17:53	7440-39-3	
Beryllium	ND	mg/L	0.0050	0.0010		5	06/19/23 08:18	06/21/23 17:53	7440-41-7	D3
Cadmium	ND	mg/L	0.0050	0.00095		5	06/19/23 08:18	06/21/23 17:53	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0032		5	06/19/23 08:18	06/21/23 17:53	7440-47-3	
Cobalt	**0.0019J**	mg/L	0.0050	0.00060		5	06/19/23 08:18	06/21/23 17:53	7440-48-4	
Copper	ND	mg/L	0.015	0.0084		5	06/19/23 08:18	06/21/23 17:53	7440-50-8	
Lead	ND	mg/L	0.0050	0.0034		5	06/19/23 08:18	06/21/23 17:53	7439-92-1	
Nickel	ND	mg/L	0.0050	0.0031		5	06/19/23 08:18	06/21/23 17:53	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0013		5	06/19/23 08:18	06/21/23 17:53	7782-49-2	
Silver	ND	mg/L	0.0025	0.0010		5	06/19/23 08:18	06/21/23 17:53	7440-22-4	
Thallium	ND	mg/L	0.0025	0.00055		5	06/19/23 08:18	06/21/23 17:53	7440-28-0	
Tin	ND	mg/L	0.030	0.0032		5	06/19/23 08:18	06/21/23 17:53	7440-31-5	
Vanadium	ND	mg/L	0.025	0.0012		5	06/19/23 08:18	06/21/23 17:53	7440-62-2	
Zinc	ND	mg/L	0.050	0.036		5	06/19/23 08:18	06/21/23 17:53	7440-66-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 7-D **Lab ID: 20279949001** Collected: 06/13/23 07:49 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/16/23 06:15	06/26/23 13:51	7439-97-6	
SVOA (GC/MS) 8270 C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	ND	ug/L	0.400	0.0447		1	06/22/23 15:40	06/23/23 19:16	123-91-1	H1
Surrogates										
Nitrobenzene-d5 (S)	64.6	%	10.0-120			1	06/22/23 15:40	06/23/23 19:16	4165-60-0	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	**0.161J**	ug/L	1.00	0.0886		1	06/19/23 15:05	06/20/23 02:24	83-32-9	J
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/19/23 15:05	06/20/23 02:24	208-96-8	
Acetophenone	ND	ug/L	10.0	0.208		1	06/19/23 15:05	06/20/23 02:24	98-86-2	
Aniline	ND	ug/L	10.0	1.65		1	06/19/23 15:05	06/20/23 02:24	62-53-3	R1
Anthracene	ND	ug/L	1.00	0.0804		1	06/19/23 15:05	06/20/23 02:24	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/19/23 15:05	06/20/23 02:24	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/19/23 15:05	06/20/23 02:24	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/19/23 15:05	06/20/23 02:24	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/19/23 15:05	06/20/23 02:24	191-24-2	
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/19/23 15:05	06/20/23 02:24	50-32-8	
Benzyl alcohol	ND	ug/L	10.0	0.563		1	06/19/23 15:05	06/20/23 02:24	100-51-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.116		1	06/19/23 15:05	06/20/23 02:24	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	0.137		1	06/19/23 15:05	06/20/23 02:24	111-44-4	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	0.210		1	06/19/23 15:05	06/20/23 02:24	108-60-1	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.0877		1	06/19/23 15:05	06/20/23 02:24	101-55-3	
4-Chloroaniline	ND	ug/L	10.0	0.234		1	06/19/23 15:05	06/20/23 02:24	106-47-8	
2-Chloronaphthalene	ND	ug/L	1.00	0.0648		1	06/19/23 15:05	06/20/23 02:24	91-58-7	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.0926		1	06/19/23 15:05	06/20/23 02:24	7005-72-3	
Chrysene	ND	ug/L	1.00	0.130		1	06/19/23 15:05	06/20/23 02:24	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.00	0.0644		1	06/19/23 15:05	06/20/23 02:24	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/19/23 15:05	06/20/23 02:24	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.0713		1	06/19/23 15:05	06/20/23 02:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.132		1	06/19/23 15:05	06/20/23 02:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.0942		1	06/19/23 15:05	06/20/23 02:24	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10.0	0.212		1	06/19/23 15:05	06/20/23 02:24	91-94-1	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.0983		1	06/19/23 15:05	06/20/23 02:24	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.250		1	06/19/23 15:05	06/20/23 02:24	606-20-2	
Fluoranthene	**0.249J**	ug/L	1.00	0.102		1	06/19/23 15:05	06/20/23 02:24	206-44-0	J
Fluorene	**0.244J**	ug/L	1.00	0.0844		1	06/19/23 15:05	06/20/23 02:24	86-73-7	J
Hexachlorobenzene	ND	ug/L	1.00	0.0755		1	06/19/23 15:05	06/20/23 02:24	118-74-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.0968		1	06/19/23 15:05	06/20/23 02:24	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 7-D **Lab ID: 20279949001** Collected: 06/13/23 07:49 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.0598		1	06/19/23 15:05	06/20/23 02:24	77-47-4	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/19/23 15:05	06/20/23 02:24	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/19/23 15:05	06/20/23 02:24	193-39-5	
Isophorone	ND	ug/L	10.0	0.143		1	06/19/23 15:05	06/20/23 02:24	78-59-1	
1-Methylnaphthalene	**0.0950J**	ug/L	1.00	0.0790		1	06/19/23 15:05	06/20/23 02:24	90-12-0	J
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/19/23 15:05	06/20/23 02:24	91-57-6	
2-Nitroaniline	ND	ug/L	10.0	0.102		1	06/19/23 15:05	06/20/23 02:24	88-74-4	
3-Nitroaniline	ND	ug/L	10.0	0.0869		1	06/19/23 15:05	06/20/23 02:24	99-09-2	
4-Nitroaniline	ND	ug/L	10.0	0.0910		1	06/19/23 15:05	06/20/23 02:24	100-01-6	
Naphthalene	ND	ug/L	1.00	0.159		1	06/19/23 15:05	06/20/23 02:24	91-20-3	
Nitrobenzene	ND	ug/L	10.0	0.297		1	06/19/23 15:05	06/20/23 02:24	98-95-3	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.998		1	06/19/23 15:05	06/20/23 02:24	62-75-9	
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/19/23 15:05	06/20/23 02:24	86-30-6	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.261		1	06/19/23 15:05	06/20/23 02:24	621-64-7	
Phenanthrene	ND	ug/L	1.00	0.112		1	06/19/23 15:05	06/20/23 02:24	85-01-8	
Pyridine	ND	ug/L	10.0	0.627		1	06/19/23 15:05	06/20/23 02:24	110-86-1	L0,R1
Butylbenzylphthalate	ND	ug/L	3.00	0.765		1	06/19/23 15:05	06/20/23 02:24	85-68-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/19/23 15:05	06/20/23 02:24	117-81-7	
Di-n-butylphthalate	ND	ug/L	3.00	0.453		1	06/19/23 15:05	06/20/23 02:24	84-74-2	
Diethylphthalate	**0.978J**	ug/L	3.00	0.287		1	06/19/23 15:05	06/20/23 02:24	84-66-2	B,J
Dimethylphthalate	ND	ug/L	3.00	0.260		1	06/19/23 15:05	06/20/23 02:24	131-11-3	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/19/23 15:05	06/20/23 02:24	117-84-0	
Pyrene	**0.254J**	ug/L	1.00	0.107		1	06/19/23 15:05	06/20/23 02:24	129-00-0	J
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	0.0647		1	06/19/23 15:05	06/20/23 02:24	95-94-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.0698		1	06/19/23 15:05	06/20/23 02:24	120-82-1	
4-Chloro-3-methylphenol	ND	ug/L	10.0	0.131		1	06/19/23 15:05	06/20/23 02:24	59-50-7	
2-Chlorophenol	ND	ug/L	10.0	0.133		1	06/19/23 15:05	06/20/23 02:24	95-57-8	
2,4-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/19/23 15:05	06/20/23 02:24	120-83-2	
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/19/23 15:05	06/20/23 02:24	105-67-9	
4,6-Dinitro-2-methylphenol	ND	ug/L	10.0	1.12		1	06/19/23 15:05	06/20/23 02:24	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10.0	5.93		1	06/19/23 15:05	06/20/23 02:24	51-28-5	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	0.0929		1	06/19/23 15:05	06/20/23 02:24	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/19/23 15:05	06/20/23 02:24		
2-Nitrophenol	ND	ug/L	10.0	0.117		1	06/19/23 15:05	06/20/23 02:24	88-75-5	
4-Nitrophenol	ND	ug/L	10.0	0.143		1	06/19/23 15:05	06/20/23 02:24	100-02-7	
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/19/23 15:05	06/20/23 02:24	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/19/23 15:05	06/20/23 02:24	108-95-2	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	0.231		1	06/19/23 15:05	06/20/23 02:24	58-90-2	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.109		1	06/19/23 15:05	06/20/23 02:24	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	0.100		1	06/19/23 15:05	06/20/23 02:24	88-06-2	
2-Acetylaminofluorene	ND	ug/L	10.0	0.253		1	06/19/23 15:05	06/26/23 17:59	53-96-3	
4-Aminobiphenyl	ND	ug/L	10.0	0.461		1	06/19/23 15:05	06/26/23 17:59	92-67-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 7-D **Lab ID: 20279949001** Collected: 06/13/23 07:49 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Aramite	ND	ug/L	50.0	16.7		1	06/19/23 15:05	06/26/23 17:59	140-57-8	
Chlorobenzilate	ND	ug/L	50.0	3.84		1	06/19/23 15:05	06/26/23 17:59	510-15-6	
Diallate	ND	ug/L	10.0	0.524		1	06/19/23 15:05	06/26/23 17:59	2303-16-4	
2,6-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/19/23 15:05	06/26/23 17:59	87-65-0	
Dimethoate	ND	ug/L	50.0	5.05		1	06/19/23 15:05	06/26/23 17:59	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	10.0	3.69		1	06/19/23 15:05	06/26/23 17:59	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	1.71		1	06/19/23 15:05	06/26/23 17:59	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.0	3.39		1	06/19/23 15:05	06/26/23 17:59	119-93-7	
a,a-Dimethylphenylethylamine	ND	ug/L	50.0	3.13		1	06/19/23 15:05	06/26/23 17:59	122-09-8	
1,3-Dinitrobenzene	ND	ug/L	10.0	0.359		1	06/19/23 15:05	06/26/23 17:59	99-65-0	
Diphenylamine	ND	ug/L	10.0	2.37		1	06/19/23 15:05	06/20/23 02:24	122-39-4	
Dinoseb	ND	ug/L	50.0	8.01		1	06/19/23 15:05	06/26/23 17:59	88-85-7	
Ethyl methanesulfonate	ND	ug/L	10.0	0.326		1	06/19/23 15:05	06/26/23 17:59	62-50-0	
Famphur	ND	ug/L	20.0	3.92		1	06/19/23 15:05	06/26/23 17:59	52-85-7	
Hexachloropropene	ND	ug/L	50.0	0.149		1	06/19/23 15:05	06/26/23 17:59	1888-71-7	
Hexachlorophene	ND	ug/L	50.0	1.44		1	06/19/23 15:05	06/26/23 17:59	70-30-4	
Isodrin	ND	ug/L	10.0	4.11		1	06/19/23 15:05	06/26/23 17:59	465-73-6	
Isosafrole	ND	ug/L	10.0	3.88		1	06/19/23 15:05	06/26/23 17:59	120-58-1	
Kepone	ND	ug/L	20.0	2.66		1	06/19/23 15:05	06/26/23 17:59	143-50-0	
Methapyrilene	ND	ug/L	50.0	10.0		1	06/19/23 15:05	06/26/23 17:59	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.0	0.164		1	06/19/23 15:05	06/26/23 17:59	56-49-5	
Methyl methanesulfonate	ND	ug/L	50.0	3.40		1	06/19/23 15:05	06/26/23 17:59	66-27-3	
1,4-Naphthoquinone	ND	ug/L	50.0	5.56		1	06/19/23 15:05	06/26/23 17:59	130-15-4	
1-Naphthalenamine	**3.93J**	ug/L	10.0	0.289		1	06/19/23 15:05	06/26/23 17:59	134-32-7	J
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/19/23 15:05	06/26/23 17:59	91-59-8	
5-Nitro-o-toluidine	ND	ug/L	10.0	1.99		1	06/19/23 15:05	06/26/23 17:59	99-55-8	
4-Nitroquinoline-n-oxide	ND	ug/L	10.0	2.03		1	06/19/23 15:05	06/26/23 17:59	56-57-5	
N-Nitrosodiethylamine	ND	ug/L	10.0	3.57		1	06/19/23 15:05	06/26/23 17:59	55-18-5	
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	3.91		1	06/19/23 15:05	06/26/23 17:59	924-16-3	
N-Nitrosomethylethylamine	ND	ug/L	10.0	3.25		1	06/19/23 15:05	06/26/23 17:59	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	10.0	3.25		1	06/19/23 15:05	06/26/23 17:59	59-89-2	
N-Nitrosopiperidine	ND	ug/L	10.0	3.72		1	06/19/23 15:05	06/26/23 17:59	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.0	3.39		1	06/19/23 15:05	06/26/23 17:59	930-55-2	
Pentachlorobenzene	ND	ug/L	10.0	4.15		1	06/19/23 15:05	06/26/23 17:59	608-93-5	
Pentachloronitrobenzene	ND	ug/L	10.0	4.15		1	06/19/23 15:05	06/26/23 17:59	82-68-8	
Phenacetin	ND	ug/L	10.0	4.66		1	06/19/23 15:05	06/26/23 17:59	62-44-2	
p-Phenylenediamine	ND	ug/L	6900	387		1	06/19/23 15:05	06/26/23 17:59	106-50-3	
2-Picoline	ND	ug/L	50.0	6.83		1	06/19/23 15:05	06/26/23 17:59	109-06-8	
Pronamide	ND	ug/L	10.0	4.21		1	06/19/23 15:05	06/26/23 17:59	23950-58-5	
Safrole	ND	ug/L	10.0	3.68		1	06/19/23 15:05	06/26/23 17:59	94-59-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 7-D **Lab ID: 20279949001** Collected: 06/13/23 07:49 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	50.0	3.99		1	06/19/23 15:05	06/26/23 17:59	3689-24-5	
Thionazin	ND	ug/L	10.0	4.07		1	06/19/23 15:05	06/26/23 17:59	297-97-2	
O-Toluidine	ND	ug/L	10.0	3.53		1	06/19/23 15:05	06/26/23 17:59	95-53-4	
1,3,5-Trinitrobenzene	ND	ug/L	10.0	1.32		1	06/19/23 15:05	06/26/23 17:59	99-35-4	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	2.93		1	06/19/23 15:05	06/26/23 17:59	126-68-1	
Surrogates										
2-Fluorophenol (S)	25.6	%	10.0-120			1	06/19/23 15:05	06/20/23 02:24	367-12-4	
Phenol-d5 (S)	20.1	%	10.0-120			1	06/19/23 15:05	06/20/23 02:24	4165-62-2	
Nitrobenzene-d5 (S)	65.1	%	10.0-127			1	06/19/23 15:05	06/20/23 02:24	4165-60-0	
2-Fluorobiphenyl (S)	67.6	%	10.0-130			1	06/19/23 15:05	06/20/23 02:24	321-60-8	
2,4,6-Tribromophenol (S)	58.5	%	10.0-155			1	06/19/23 15:05	06/20/23 02:24	118-79-6	
Terphenyl-d14 (S)	62.7	%	10.0-128			1	06/19/23 15:05	06/20/23 02:24	1718-51-0	
SVOA (LCMS) SW-846 8321	Analytical Method: EPA 8321 Preparation Method: 8321 Pace National - Mt. Juliet									
2,4-D	ND	ug/L	2.00	1.00		1	06/20/23 08:27	06/20/23 14:53	94-75-7	
2,4,5-T	ND	ug/L	2.00	0.573		1	06/20/23 08:27	06/20/23 14:53	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.807		1	06/20/23 08:27	06/20/23 14:53	93-72-1	
Surrogates										
2,4-DB-d3 (S)	98.0	%	70.0-130			1	06/20/23 08:27	06/20/23 14:53	1219802-46-	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	06/17/23 20:25	06/17/23 20:25	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	06/17/23 20:25	06/17/23 20:25	107-02-8	
Acrylonitrile	ND	ug/L	10.0	0.671		1	06/17/23 20:25	06/17/23 20:25	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	06/17/23 20:25	06/17/23 20:25	107-05-1	
Benzene	ND	ug/L	1.00	0.0941		1	06/17/23 20:25	06/17/23 20:25	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	06/17/23 20:25	06/17/23 20:25	75-27-4	
Bromoform	ND	ug/L	1.00	0.129		1	06/17/23 20:25	06/17/23 20:25	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	06/17/23 20:25	06/17/23 20:25	74-83-9	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	06/17/23 20:25	06/17/23 20:25	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	06/17/23 20:25	06/17/23 20:25	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116		1	06/17/23 20:25	06/17/23 20:25	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140		1	06/17/23 20:25	06/17/23 20:25	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192		1	06/17/23 20:25	06/17/23 20:25	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	06/17/23 20:25	06/17/23 20:25	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	06/17/23 20:25	06/17/23 20:25	74-87-3	
Dibromomethane	ND	ug/L	1.00	0.122		1	06/17/23 20:25	06/17/23 20:25	74-95-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 7-D **Lab ID: 20279949001** Collected: 06/13/23 07:49 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	06/17/23 20:25	06/17/23 20:25	95-50-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	06/17/23 20:25	06/17/23 20:25	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	06/17/23 20:25	06/17/23 20:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	06/17/23 20:25	06/17/23 20:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	06/17/23 20:25	06/17/23 20:25	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	06/17/23 20:25	06/17/23 20:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	06/17/23 20:25	06/17/23 20:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	06/17/23 20:25	06/17/23 20:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	06/17/23 20:25	06/17/23 20:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	06/17/23 20:25	06/17/23 20:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	06/17/23 20:25	06/17/23 20:25	10061-02-6	
Ethylbenzene	ND	ug/L	1.00	0.173		1	06/17/23 20:25	06/17/23 20:25	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.787		1	06/17/23 20:25	06/17/23 20:25	591-78-6	
Iodomethane	ND	ug/L	10.0	6.00		1	06/17/23 20:25	06/17/23 20:25	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	06/17/23 20:25	06/17/23 20:25	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430		1	06/17/23 20:25	06/17/23 20:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	06/17/23 20:25	06/17/23 20:25	108-10-1	
Styrene	ND	ug/L	1.00	0.118		1	06/17/23 20:25	06/17/23 20:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	06/17/23 20:25	06/17/23 20:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	06/17/23 20:25	06/17/23 20:25	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	06/17/23 20:25	06/17/23 20:25	127-18-4	
Toluene	ND	ug/L	1.00	0.278		1	06/17/23 20:25	06/17/23 20:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	06/17/23 20:25	06/17/23 20:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	06/17/23 20:25	06/17/23 20:25	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190		1	06/17/23 20:25	06/17/23 20:25	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	06/17/23 20:25	06/17/23 20:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	06/17/23 20:25	06/17/23 20:25	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	06/17/23 20:25	06/17/23 20:25	108-05-4	
Vinyl chloride	ND	ug/L	1.00	0.234		1	06/17/23 20:25	06/17/23 20:25	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	06/17/23 20:25	06/17/23 20:25	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	06/17/23 20:25	06/17/23 20:25	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	06/17/23 20:25	06/17/23 20:25	1330-20-7	
Acetonitrile	ND	ug/L	50.0	24.0		1	06/22/23 18:18	06/22/23 18:18	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	06/22/23 18:18	06/22/23 18:18	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	06/22/23 18:18	06/22/23 18:18	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	06/22/23 18:18	06/22/23 18:18	78-83-1	
Methacrylonitrile	ND	ug/L	50.0	14.2		1	06/22/23 18:18	06/22/23 18:18	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	06/22/23 18:18	06/22/23 18:18	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	06/22/23 18:18	06/22/23 18:18	76-01-7	
Propionitrile	ND	ug/L	50.0	16.2		1	06/22/23 18:18	06/22/23 18:18	107-12-0	
Surrogates										
Toluene-d8 (S)	98.9	%	80.0-120			1	06/22/23 18:18	06/22/23 18:18	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 7-D **Lab ID: 20279949001** Collected: 06/13/23 07:49 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Surrogates										
Toluene-d8 (S)	97.3	%	80.0-120			1	06/17/23 20:25	06/17/23 20:25	2037-26-5	
1,2-Dichloroethane-d4 (S)	101	%	70.0-130			1	06/22/23 18:18	06/22/23 18:18	17060-07-0	
1,2-Dichloroethane-d4 (S)	107	%	70.0-130			1	06/17/23 20:25	06/17/23 20:25	17060-07-0	
4-Bromofluorobenzene (S)	85.9	%	77.0-126			1	06/22/23 18:18	06/22/23 18:18	460-00-4	
4-Bromofluorobenzene (S)	94.3	%	77.0-126			1	06/17/23 20:25	06/17/23 20:25	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012		1		06/20/23 09:23	18496-25-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay									
Cyanide	ND	mg/L	0.023	0.0069		1	06/26/23 08:00	06/26/23 10:12	57-12-5	
420.1 Phenolics, Total	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - New Orleans									
Phenolics, Total Recoverable	**0.036**	mg/L	0.020	0.0093		1	07/06/23 13:13	07/07/23 10:33	64743-03-9	B

Sample: 7-IR **Lab ID: 20279949002** Collected: 06/13/23 09:10 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/16/23 05:32	06/17/23 00:41	309-00-2	
alpha-BHC	ND	ug/L	0.0500	0.0172		1	06/16/23 05:32	06/17/23 00:41	319-84-6	
beta-BHC	ND	ug/L	0.0500	0.0208		1	06/16/23 05:32	06/17/23 00:41	319-85-7	
delta-BHC	ND	ug/L	0.0500	0.0150		1	06/16/23 05:32	06/17/23 00:41	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.0500	0.0209		1	06/16/23 05:32	06/17/23 00:41	58-89-9	
Chlordane (Technical)	ND	ug/L	5.00	0.0198		1	06/16/23 05:32	06/17/23 00:41	57-74-9	
4,4'-DDD	ND	ug/L	0.0500	0.0177		1	06/16/23 05:32	06/17/23 00:41	72-54-8	
4,4'-DDE	ND	ug/L	0.0500	0.0154		1	06/16/23 05:32	06/17/23 00:41	72-55-9	
4,4'-DDT	ND	ug/L	0.0500	0.0198		1	06/16/23 05:32	06/17/23 00:41	50-29-3	
Dieldrin	ND	ug/L	0.0500	0.0162		1	06/16/23 05:32	06/17/23 00:41	60-57-1	
Endosulfan I	ND	ug/L	0.0500	0.0160		1	06/16/23 05:32	06/17/23 00:41	959-98-8	
Endosulfan II	ND	ug/L	0.0500	0.0164		1	06/16/23 05:32	06/17/23 00:41	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.0500	0.0217		1	06/16/23 05:32	06/17/23 00:41	1031-07-8	
Endrin	ND	ug/L	0.0500	0.0161		1	06/16/23 05:32	06/17/23 00:41	72-20-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 7-IR **Lab ID: 20279949002** Collected: 06/13/23 09:10 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Endrin aldehyde	ND	ug/L	0.0500	0.0237		1	06/16/23 05:32	06/17/23 00:41	7421-93-4	
Endrin ketone	ND	ug/L	0.0500	0.0219		1	06/16/23 05:32	06/17/23 00:41	53494-70-5	
Hexachlorobenzene	ND	ug/L	0.0500	0.0176		1	06/16/23 05:32	06/17/23 00:41	118-74-1	
Heptachlor	ND	ug/L	0.0500	0.0148		1	06/16/23 05:32	06/17/23 00:41	76-44-8	
Heptachlor epoxide	ND	ug/L	0.0500	0.0183		1	06/16/23 05:32	06/17/23 00:41	1024-57-3	
Methoxychlor	ND	ug/L	0.0500	0.0193		1	06/16/23 05:32	06/17/23 00:41	72-43-5	
Toxaphene	ND	ug/L	0.500	0.168		1	06/16/23 05:32	06/17/23 00:41	8001-35-2	
Surrogates										
Decachlorobiphenyl (S)	16.7	%	10.0-128			1	06/16/23 05:32	06/17/23 00:41	2051-24-3	
Tetrachloro-m-xylene (S)	48.7	%	10.0-127			1	06/16/23 05:32	06/17/23 00:41	877-09-8	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00034		1	06/19/23 08:18	06/20/23 19:47	7440-36-0	
Arsenic	**0.079**	mg/L	0.0010	0.00010		1	06/19/23 08:18	06/20/23 19:47	7440-38-2	
Barium	**0.090**	mg/L	0.0010	0.00064		1	06/19/23 08:18	06/20/23 19:47	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00021		1	06/19/23 08:18	06/20/23 19:47	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.00019		1	06/19/23 08:18	06/20/23 19:47	7440-43-9	
Chromium	**0.00099J**	mg/L	0.0010	0.00063		1	06/19/23 08:18	06/20/23 19:47	7440-47-3	
Cobalt	**0.00026J**	mg/L	0.0010	0.00012		1	06/19/23 08:18	06/20/23 19:47	7440-48-4	
Copper	ND	mg/L	0.0030	0.0017		1	06/19/23 08:18	06/20/23 19:47	7440-50-8	
Lead	ND	mg/L	0.0010	0.00069		1	06/19/23 08:18	06/20/23 19:47	7439-92-1	
Nickel	ND	mg/L	0.0010	0.00062		1	06/19/23 08:18	06/20/23 19:47	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00026		1	06/19/23 08:18	06/20/23 19:47	7782-49-2	
Silver	ND	mg/L	0.00050	0.00020		1	06/19/23 08:18	06/20/23 19:47	7440-22-4	
Thallium	ND	mg/L	0.00050	0.00011		1	06/19/23 08:18	06/20/23 19:47	7440-28-0	
Tin	ND	mg/L	0.0060	0.00065		1	06/19/23 08:18	06/20/23 19:47	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.00023		1	06/19/23 08:18	06/20/23 19:47	7440-62-2	
Zinc	ND	mg/L	0.010	0.0072		1	06/19/23 08:18	06/20/23 19:47	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/16/23 06:15	06/26/23 13:57	7439-97-6	
SVOA (GC/MS) 8270 C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.202J**	ug/L	0.400	0.0447		1	06/22/23 15:40	06/23/23 19:35	123-91-1	B,H1,J
Surrogates										
Nitrobenzene-d5 (S)	67.0	%	10.0-120			1	06/22/23 15:40	06/23/23 19:35	4165-60-0	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	**98.2**	ug/L	1.00	0.0886		1	06/19/23 15:05	06/20/23 02:45	83-32-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 7-IR **Lab ID: 20279949002** Collected: 06/13/23 09:10 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/19/23 15:05	06/20/23 02:45	208-96-8	
Acetophenone	ND	ug/L	10.0	0.208		1	06/19/23 15:05	06/20/23 02:45	98-86-2	
Aniline	ND	ug/L	10.0	1.65		1	06/19/23 15:05	06/20/23 02:45	62-53-3	R1
Anthracene	**0.921J**	ug/L	1.00	0.0804		1	06/19/23 15:05	06/20/23 02:45	120-12-7	J
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/19/23 15:05	06/20/23 02:45	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/19/23 15:05	06/20/23 02:45	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/19/23 15:05	06/20/23 02:45	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/19/23 15:05	06/20/23 02:45	191-24-2	
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/19/23 15:05	06/20/23 02:45	50-32-8	
Benzyl alcohol	ND	ug/L	10.0	0.563		1	06/19/23 15:05	06/20/23 02:45	100-51-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.116		1	06/19/23 15:05	06/20/23 02:45	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	0.137		1	06/19/23 15:05	06/20/23 02:45	111-44-4	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	0.210		1	06/19/23 15:05	06/20/23 02:45	108-60-1	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.0877		1	06/19/23 15:05	06/20/23 02:45	101-55-3	
4-Chloroaniline	ND	ug/L	10.0	0.234		1	06/19/23 15:05	06/20/23 02:45	106-47-8	
2-Chloronaphthalene	ND	ug/L	1.00	0.0648		1	06/19/23 15:05	06/20/23 02:45	91-58-7	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.0926		1	06/19/23 15:05	06/20/23 02:45	7005-72-3	
Chrysene	ND	ug/L	1.00	0.130		1	06/19/23 15:05	06/20/23 02:45	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.00	0.0644		1	06/19/23 15:05	06/20/23 02:45	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/19/23 15:05	06/20/23 02:45	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.0713		1	06/19/23 15:05	06/20/23 02:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.132		1	06/19/23 15:05	06/20/23 02:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.0942		1	06/19/23 15:05	06/20/23 02:45	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10.0	0.212		1	06/19/23 15:05	06/20/23 02:45	91-94-1	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.0983		1	06/19/23 15:05	06/20/23 02:45	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.250		1	06/19/23 15:05	06/20/23 02:45	606-20-2	
Fluoranthene	**0.829J**	ug/L	1.00	0.102		1	06/19/23 15:05	06/20/23 02:45	206-44-0	J
Fluorene	**4.77**	ug/L	1.00	0.0844		1	06/19/23 15:05	06/20/23 02:45	86-73-7	
Hexachlorobenzene	ND	ug/L	1.00	0.0755		1	06/19/23 15:05	06/20/23 02:45	118-74-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.0968		1	06/19/23 15:05	06/20/23 02:45	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.0598		1	06/19/23 15:05	06/20/23 02:45	77-47-4	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/19/23 15:05	06/20/23 02:45	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/19/23 15:05	06/20/23 02:45	193-39-5	
Isophorone	ND	ug/L	10.0	0.143		1	06/19/23 15:05	06/20/23 02:45	78-59-1	
1-Methylnaphthalene	**41.2**	ug/L	1.00	0.0790		1	06/19/23 15:05	06/20/23 02:45	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/19/23 15:05	06/20/23 02:45	91-57-6	
2-Nitroaniline	ND	ug/L	10.0	0.102		1	06/19/23 15:05	06/20/23 02:45	88-74-4	
3-Nitroaniline	ND	ug/L	10.0	0.0869		1	06/19/23 15:05	06/20/23 02:45	99-09-2	
4-Nitroaniline	ND	ug/L	10.0	0.0910		1	06/19/23 15:05	06/20/23 02:45	100-01-6	
Naphthalene	**0.591J**	ug/L	1.00	0.159		1	06/19/23 15:05	06/20/23 02:45	91-20-3	J
Nitrobenzene	ND	ug/L	10.0	0.297		1	06/19/23 15:05	06/20/23 02:45	98-95-3	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.998		1	06/19/23 15:05	06/20/23 02:45	62-75-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 7-IR **Lab ID: 20279949002** Collected: 06/13/23 09:10 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/19/23 15:05	06/20/23 02:45	86-30-6	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.261		1	06/19/23 15:05	06/20/23 02:45	621-64-7	
Phenanthrene	**20.1**	ug/L	1.00	0.112		1	06/19/23 15:05	06/20/23 02:45	85-01-8	
Pyridine	ND	ug/L	10.0	0.627		1	06/19/23 15:05	06/20/23 02:45	110-86-1	L0,R1
Butylbenzylphthalate	ND	ug/L	3.00	0.765		1	06/19/23 15:05	06/20/23 02:45	85-68-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/19/23 15:05	06/20/23 02:45	117-81-7	
Di-n-butylphthalate	ND	ug/L	3.00	0.453		1	06/19/23 15:05	06/20/23 02:45	84-74-2	
Diethylphthalate	**0.812J**	ug/L	3.00	0.287		1	06/19/23 15:05	06/20/23 02:45	84-66-2	B,J
Dimethylphthalate	ND	ug/L	3.00	0.260		1	06/19/23 15:05	06/20/23 02:45	131-11-3	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/19/23 15:05	06/20/23 02:45	117-84-0	
Pyrene	**0.400J**	ug/L	1.00	0.107		1	06/19/23 15:05	06/20/23 02:45	129-00-0	J
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	0.0647		1	06/19/23 15:05	06/20/23 02:45	95-94-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.0698		1	06/19/23 15:05	06/20/23 02:45	120-82-1	
4-Chloro-3-methylphenol	ND	ug/L	10.0	0.131		1	06/19/23 15:05	06/20/23 02:45	59-50-7	
2-Chlorophenol	ND	ug/L	10.0	0.133		1	06/19/23 15:05	06/20/23 02:45	95-57-8	
2,4-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/19/23 15:05	06/20/23 02:45	120-83-2	
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/19/23 15:05	06/20/23 02:45	105-67-9	
4,6-Dinitro-2-methylphenol	ND	ug/L	10.0	1.12		1	06/19/23 15:05	06/20/23 02:45	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10.0	5.93		1	06/19/23 15:05	06/20/23 02:45	51-28-5	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	0.0929		1	06/19/23 15:05	06/20/23 02:45	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/19/23 15:05	06/20/23 02:45		
2-Nitrophenol	ND	ug/L	10.0	0.117		1	06/19/23 15:05	06/20/23 02:45	88-75-5	
4-Nitrophenol	ND	ug/L	10.0	0.143		1	06/19/23 15:05	06/20/23 02:45	100-02-7	
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/19/23 15:05	06/20/23 02:45	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/19/23 15:05	06/20/23 02:45	108-95-2	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	0.231		1	06/19/23 15:05	06/20/23 02:45	58-90-2	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.109		1	06/19/23 15:05	06/20/23 02:45	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	0.100		1	06/19/23 15:05	06/20/23 02:45	88-06-2	
2-Acetylaminofluorene	ND	ug/L	10.0	0.253		1	06/27/23 19:40	06/28/23 16:51	53-96-3	H1
4-Aminobiphenyl	ND	ug/L	10.0	0.461		1	06/27/23 19:40	06/28/23 16:51	92-67-1	H1
Aramite	ND	ug/L	50.0	16.7		1	06/27/23 19:40	06/28/23 16:51	140-57-8	H1
Chlorobenzilate	ND	ug/L	50.0	3.84		1	06/27/23 19:40	06/28/23 16:51	510-15-6	H1
Diallate	ND	ug/L	10.0	0.524		1	06/27/23 19:40	06/28/23 16:51	2303-16-4	H1
2,6-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/27/23 19:40	06/28/23 16:51	87-65-0	H1
Dimethoate	ND	ug/L	50.0	5.05		1	06/27/23 19:40	06/28/23 16:51	60-51-5	H1
P-Dimethylaminoazobenzene	ND	ug/L	10.0	3.69		1	06/27/23 19:40	06/28/23 16:51	60-11-7	H1
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	1.71		1	06/27/23 19:40	06/28/23 16:51	57-97-6	H1
3,3'-Dimethylbenzidine	ND	ug/L	10.0	3.39		1	06/27/23 19:40	06/28/23 16:51	119-93-7	H1,L0
a,a-Dimethylphenylethylamine	ND	ug/L	50.0	3.13		1	06/27/23 19:40	06/28/23 16:51	122-09-8	H1,L0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 7-IR **Lab ID: 20279949002** Collected: 06/13/23 09:10 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
1,3-Dinitrobenzene	ND	ug/L	10.0	0.359		1	06/27/23 19:40	06/28/23 16:51	99-65-0	H1
Diphenylamine	ND	ug/L	10.0	2.37		1	06/19/23 15:05	06/20/23 02:45	122-39-4	
Dinoseb	ND	ug/L	50.0	8.01		1	06/27/23 19:40	06/28/23 16:51	88-85-7	H1
Ethyl methanesulfonate	ND	ug/L	10.0	0.326		1	06/27/23 19:40	06/28/23 16:51	62-50-0	H1
Famphur	ND	ug/L	20.0	3.92		1	06/27/23 19:40	06/28/23 16:51	52-85-7	H1
Hexachloropropene	ND	ug/L	50.0	0.149		1	06/27/23 19:40	06/28/23 16:51	1888-71-7	H1
Hexachlorophene	ND	ug/L	50.0	1.44		1	06/27/23 19:40	06/28/23 16:51	70-30-4	H1
Isodrin	ND	ug/L	10.0	4.11		1	06/27/23 19:40	06/28/23 16:51	465-73-6	H1
Isosafrole	ND	ug/L	10.0	3.88		1	06/27/23 19:40	06/28/23 16:51	120-58-1	H1
Kepone	ND	ug/L	20.0	2.66		1	06/27/23 19:40	06/28/23 16:51	143-50-0	H1
Methapyrilene	ND	ug/L	50.0	10.0		1	06/27/23 19:40	06/28/23 16:51	91-80-5	H1,L0
3-Methylcholanthrene	ND	ug/L	10.0	0.164		1	06/27/23 19:40	06/28/23 16:51	56-49-5	H1
Methyl methanesulfonate	ND	ug/L	50.0	3.40		1	06/27/23 19:40	06/28/23 16:51	66-27-3	H1
1,4-Naphthoquinone	ND	ug/L	50.0	5.56		1	06/27/23 19:40	06/28/23 16:51	130-15-4	H1,L0
1-Naphthalenamine	**1.88J**	ug/L	10.0	0.289		1	06/27/23 19:40	06/28/23 16:51	134-32-7	H1,J
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/27/23 19:40	06/28/23 16:51	91-59-8	H1
5-Nitro-o-toluidine	ND	ug/L	10.0	1.99		1	06/27/23 19:40	06/28/23 16:51	99-55-8	H1
4-Nitroquinoline-n-oxide	ND	ug/L	10.0	2.03		1	06/27/23 19:40	06/28/23 16:51	56-57-5	H1
N-Nitrosodiethylamine	ND	ug/L	10.0	3.57		1	06/27/23 19:40	06/28/23 16:51	55-18-5	H1
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	3.91		1	06/27/23 19:40	06/28/23 16:51	924-16-3	H1
N-Nitrosomethylethylamine	ND	ug/L	10.0	3.25		1	06/27/23 19:40	06/28/23 16:51	10595-95-6	H1
N-Nitrosomorpholine	ND	ug/L	10.0	3.25		1	06/27/23 19:40	06/28/23 16:51	59-89-2	H1
N-Nitrosopiperidine	ND	ug/L	10.0	3.72		1	06/27/23 19:40	06/28/23 16:51	100-75-4	H1
N-Nitrosopyrrolidine	ND	ug/L	10.0	3.39		1	06/27/23 19:40	06/28/23 16:51	930-55-2	H1
Pentachlorobenzene	ND	ug/L	10.0	4.15		1	06/27/23 19:40	06/28/23 16:51	608-93-5	H1
Pentachloronitrobenzene	ND	ug/L	10.0	4.15		1	06/27/23 19:40	06/28/23 16:51	82-68-8	H1
Phenacetin	ND	ug/L	10.0	4.66		1	06/27/23 19:40	06/28/23 16:51	62-44-2	H1
p-Phenylenediamine	ND	ug/L	6900	387		1	06/27/23 19:40	06/28/23 16:51	106-50-3	H1,L0
2-Picoline	ND	ug/L	50.0	6.83		1	06/27/23 19:40	06/28/23 16:51	109-06-8	H1,L0
Pronamide	ND	ug/L	10.0	4.21		1	06/27/23 19:40	06/28/23 16:51	23950-58-5	H1
Safrole	ND	ug/L	10.0	3.68		1	06/27/23 19:40	06/28/23 16:51	94-59-7	H1
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	50.0	3.99		1	06/27/23 19:40	06/28/23 16:51	3689-24-5	H1
Thionazin	ND	ug/L	10.0	4.07		1	06/27/23 19:40	06/28/23 16:51	297-97-2	H1
O-Toluidine	ND	ug/L	10.0	3.53		1	06/27/23 19:40	06/28/23 16:51	95-53-4	H1
1,3,5-Trinitrobenzene	ND	ug/L	10.0	1.32		1	06/27/23 19:40	06/28/23 16:51	99-35-4	H1
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	2.93		1	06/27/23 19:40	06/28/23 16:51	126-68-1	H1
Surrogates										
2-Fluorophenol (S)	24.7	%	10.0-120			1	06/19/23 15:05	06/20/23 02:45	367-12-4	
Phenol-d5 (S)	19.4	%	10.0-120			1	06/19/23 15:05	06/20/23 02:45	4165-62-2	
Nitrobenzene-d5 (S)	69.1	%	10.0-127			1	06/19/23 15:05	06/20/23 02:45	4165-60-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 7-IR **Lab ID: 20279949002** Collected: 06/13/23 09:10 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Surrogates										
2-Fluorobiphenyl (S)	70.1	%	10.0-130			1	06/19/23 15:05	06/20/23 02:45	321-60-8	
2,4,6-Tribromophenol (S)	52.0	%	10.0-155			1	06/19/23 15:05	06/20/23 02:45	118-79-6	
Terphenyl-d14 (S)	68.4	%	10.0-128			1	06/19/23 15:05	06/20/23 02:45	1718-51-0	
SVOA (LCMS) SW-846 8321	Analytical Method: EPA 8321 Preparation Method: 8321 Pace National - Mt. Juliet									
2,4-D	ND	ug/L	2.00	1.00		1	06/20/23 08:27	06/20/23 15:11	94-75-7	
2,4,5-T	ND	ug/L	2.00	0.573		1	06/20/23 08:27	06/20/23 15:11	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.807		1	06/20/23 08:27	06/20/23 15:11	93-72-1	
Surrogates										
2,4-DB-d3 (S)	95.0	%	70.0-130			1	06/20/23 08:27	06/20/23 15:11	1219802-46-	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	06/17/23 20:44	06/17/23 20:44	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	06/17/23 20:44	06/17/23 20:44	107-02-8	
Acrylonitrile	ND	ug/L	10.0	0.671		1	06/17/23 20:44	06/17/23 20:44	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	06/17/23 20:44	06/17/23 20:44	107-05-1	
Benzene	ND	ug/L	1.00	0.0941		1	06/17/23 20:44	06/17/23 20:44	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	06/17/23 20:44	06/17/23 20:44	75-27-4	
Bromoform	ND	ug/L	1.00	0.129		1	06/17/23 20:44	06/17/23 20:44	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	06/17/23 20:44	06/17/23 20:44	74-83-9	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	06/17/23 20:44	06/17/23 20:44	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	06/17/23 20:44	06/17/23 20:44	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116		1	06/17/23 20:44	06/17/23 20:44	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140		1	06/17/23 20:44	06/17/23 20:44	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192		1	06/17/23 20:44	06/17/23 20:44	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	06/17/23 20:44	06/17/23 20:44	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	06/17/23 20:44	06/17/23 20:44	74-87-3	
Dibromomethane	ND	ug/L	1.00	0.122		1	06/17/23 20:44	06/17/23 20:44	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	06/17/23 20:44	06/17/23 20:44	95-50-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	06/17/23 20:44	06/17/23 20:44	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	06/17/23 20:44	06/17/23 20:44	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	06/17/23 20:44	06/17/23 20:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	06/17/23 20:44	06/17/23 20:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	06/17/23 20:44	06/17/23 20:44	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	06/17/23 20:44	06/17/23 20:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	06/17/23 20:44	06/17/23 20:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	06/17/23 20:44	06/17/23 20:44	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	06/17/23 20:44	06/17/23 20:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	06/17/23 20:44	06/17/23 20:44	10061-02-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 7-IR **Lab ID: 20279949002** Collected: 06/13/23 09:10 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Ethylbenzene	ND	ug/L	1.00	0.173		1	06/17/23 20:44	06/17/23 20:44	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.787		1	06/17/23 20:44	06/17/23 20:44	591-78-6	
Iodomethane	ND	ug/L	10.0	6.00		1	06/17/23 20:44	06/17/23 20:44	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	06/17/23 20:44	06/17/23 20:44	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430		1	06/17/23 20:44	06/17/23 20:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	06/17/23 20:44	06/17/23 20:44	108-10-1	
Styrene	ND	ug/L	1.00	0.118		1	06/17/23 20:44	06/17/23 20:44	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	06/17/23 20:44	06/17/23 20:44	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	06/17/23 20:44	06/17/23 20:44	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	06/17/23 20:44	06/17/23 20:44	127-18-4	
Toluene	ND	ug/L	1.00	0.278		1	06/17/23 20:44	06/17/23 20:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	06/17/23 20:44	06/17/23 20:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	06/17/23 20:44	06/17/23 20:44	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190		1	06/17/23 20:44	06/17/23 20:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	06/17/23 20:44	06/17/23 20:44	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	06/17/23 20:44	06/17/23 20:44	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	06/17/23 20:44	06/17/23 20:44	108-05-4	
Vinyl chloride	ND	ug/L	1.00	0.234		1	06/17/23 20:44	06/17/23 20:44	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	06/17/23 20:44	06/17/23 20:44	95-47-6	
m&p-Xylene	**0.648J**	ug/L	2.00	0.430		1	06/17/23 20:44	06/17/23 20:44	179601-23-1	J
Xylene (Total)	**0.648J**	ug/L	3.00	0.174		1	06/17/23 20:44	06/17/23 20:44	1330-20-7	J
Acetonitrile	ND	ug/L	50.0	24.0		1	06/22/23 18:39	06/22/23 18:39	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	06/22/23 18:39	06/22/23 18:39	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	06/22/23 18:39	06/22/23 18:39	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	06/22/23 18:39	06/22/23 18:39	78-83-1	
Methacrylonitrile	ND	ug/L	50.0	14.2		1	06/22/23 18:39	06/22/23 18:39	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	06/22/23 18:39	06/22/23 18:39	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	06/22/23 18:39	06/22/23 18:39	76-01-7	
Propionitrile	ND	ug/L	50.0	16.2		1	06/22/23 18:39	06/22/23 18:39	107-12-0	
Surrogates										
Toluene-d8 (S)	95.6	%	80.0-120			1	06/22/23 18:39	06/22/23 18:39	2037-26-5	
Toluene-d8 (S)	99.5	%	80.0-120			1	06/17/23 20:44	06/17/23 20:44	2037-26-5	
1,2-Dichloroethane-d4 (S)	100	%	70.0-130			1	06/22/23 18:39	06/22/23 18:39	17060-07-0	
1,2-Dichloroethane-d4 (S)	110	%	70.0-130			1	06/17/23 20:44	06/17/23 20:44	17060-07-0	
4-Bromofluorobenzene (S)	86.1	%	77.0-126			1	06/22/23 18:39	06/22/23 18:39	460-00-4	
4-Bromofluorobenzene (S)	96.9	%	77.0-126			1	06/17/23 20:44	06/17/23 20:44	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012		1		06/20/23 09:24	18496-25-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 7-IR **Lab ID: 20279949002** Collected: 06/13/23 09:10 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay									
Cyanide	ND	mg/L	0.023	0.0069		1	06/26/23 08:00	06/26/23 10:12	57-12-5	
420.1 Phenolics, Total	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - New Orleans									
Phenolics, Total Recoverable	ND	mg/L	0.020	0.0093		1	07/06/23 13:13	07/07/23 10:33	64743-03-9	

Sample: 7-S **Lab ID: 20279949003** Collected: 06/13/23 08:20 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/16/23 05:32	06/21/23 13:11	309-00-2	
alpha-BHC	ND	ug/L	0.0500	0.0172		1	06/16/23 05:32	06/21/23 13:11	319-84-6	
beta-BHC	ND	ug/L	0.0500	0.0208		1	06/16/23 05:32	06/21/23 13:11	319-85-7	
delta-BHC	ND	ug/L	0.0500	0.0150		1	06/16/23 05:32	06/21/23 13:11	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.0500	0.0209		1	06/16/23 05:32	06/21/23 13:11	58-89-9	
Chlordane (Technical)	ND	ug/L	5.00	0.0198		1	06/16/23 05:32	06/21/23 13:11	57-74-9	
4,4'-DDD	ND	ug/L	0.0500	0.0177		1	06/16/23 05:32	06/21/23 13:11	72-54-8	
4,4'-DDE	ND	ug/L	0.0500	0.0154		1	06/16/23 05:32	06/21/23 13:11	72-55-9	
4,4'-DDT	ND	ug/L	0.0500	0.0198		1	06/16/23 05:32	06/21/23 13:11	50-29-3	
Dieldrin	ND	ug/L	0.0500	0.0162		1	06/16/23 05:32	06/21/23 13:11	60-57-1	
Endosulfan I	ND	ug/L	0.0500	0.0160		1	06/16/23 05:32	06/21/23 13:11	959-98-8	
Endosulfan II	ND	ug/L	0.0500	0.0164		1	06/16/23 05:32	06/21/23 13:11	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.0500	0.0217		1	06/16/23 05:32	06/21/23 13:11	1031-07-8	
Endrin	ND	ug/L	0.0500	0.0161		1	06/16/23 05:32	06/21/23 13:11	72-20-8	
Endrin aldehyde	ND	ug/L	0.0500	0.0237		1	06/16/23 05:32	06/21/23 13:11	7421-93-4	
Heptachlor	ND	ug/L	0.0500	0.0148		1	06/16/23 05:32	06/21/23 13:11	76-44-8	
Heptachlor epoxide	ND	ug/L	0.0500	0.0183		1	06/16/23 05:32	06/21/23 13:11	1024-57-3	
Methoxychlor	ND	ug/L	0.0500	0.0193		1	06/16/23 05:32	06/21/23 13:11	72-43-5	
Toxaphene	ND	ug/L	0.500	0.168		1	06/16/23 05:32	06/21/23 13:11	8001-35-2	
Surrogates										
Decachlorobiphenyl (S)	9.07	%	10.0-128			1	06/16/23 05:32	06/21/23 13:11	2051-24-3	SR
Tetrachloro-m-xylene (S)	33.2	%	10.0-127			1	06/16/23 05:32	06/21/23 13:11	877-09-8	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00034		1	06/19/23 08:18	06/20/23 19:53	7440-36-0	
Arsenic	**0.089**	mg/L	0.0010	0.00010		1	06/19/23 08:18	06/20/23 19:53	7440-38-2	
Barium	**0.31**	mg/L	0.0010	0.00064		1	06/19/23 08:18	06/20/23 19:53	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00021		1	06/19/23 08:18	06/20/23 19:53	7440-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 7-S **Lab ID: 20279949003** Collected: 06/13/23 08:20 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Cadmium	ND	mg/L	0.0010	0.00019		1	06/19/23 08:18	06/20/23 19:53	7440-43-9	
Chromium	ND	mg/L	0.0010	0.00063		1	06/19/23 08:18	06/20/23 19:53	7440-47-3	
Cobalt	**0.00028J**	mg/L	0.0010	0.00012		1	06/19/23 08:18	06/20/23 19:53	7440-48-4	
Copper	ND	mg/L	0.0030	0.0017		1	06/19/23 08:18	06/20/23 19:53	7440-50-8	
Lead	ND	mg/L	0.0010	0.00069		1	06/19/23 08:18	06/20/23 19:53	7439-92-1	
Nickel	ND	mg/L	0.0010	0.00062		1	06/19/23 08:18	06/20/23 19:53	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00026		1	06/19/23 08:18	06/20/23 19:53	7782-49-2	
Silver	ND	mg/L	0.00050	0.00020		1	06/19/23 08:18	06/20/23 19:53	7440-22-4	
Thallium	ND	mg/L	0.00050	0.00011		1	06/19/23 08:18	06/20/23 19:53	7440-28-0	
Tin	ND	mg/L	0.0060	0.00065		1	06/19/23 08:18	06/20/23 19:53	7440-31-5	
Vanadium	**0.00025J**	mg/L	0.0050	0.00023		1	06/19/23 08:18	06/20/23 19:53	7440-62-2	
Zinc	ND	mg/L	0.010	0.0072		1	06/19/23 08:18	06/20/23 19:53	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/16/23 06:15	06/26/23 14:08	7439-97-6	
SVOA (GC/MS) 8270 C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	ND	ug/L	0.400	0.0447		1	06/22/23 15:40	06/23/23 19:55	123-91-1	H1
Surrogates										
Nitrobenzene-d5 (S)	62.5	%	10.0-120			1	06/22/23 15:40	06/23/23 19:55	4165-60-0	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	**32.2**	ug/L	1.00	0.0886		1	06/19/23 15:05	06/20/23 03:07	83-32-9	
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/19/23 15:05	06/20/23 03:07	208-96-8	
Acetophenone	ND	ug/L	10.0	0.208		1	06/19/23 15:05	06/20/23 03:07	98-86-2	
Aniline	ND	ug/L	10.0	1.65		1	06/19/23 15:05	06/20/23 03:07	62-53-3	R1
Anthracene	**1.55**	ug/L	1.00	0.0804		1	06/19/23 15:05	06/20/23 03:07	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/19/23 15:05	06/20/23 03:07	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/19/23 15:05	06/20/23 03:07	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/19/23 15:05	06/20/23 03:07	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/19/23 15:05	06/20/23 03:07	191-24-2	
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/19/23 15:05	06/20/23 03:07	50-32-8	
Benzyl alcohol	ND	ug/L	10.0	0.563		1	06/19/23 15:05	06/20/23 03:07	100-51-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.116		1	06/19/23 15:05	06/20/23 03:07	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	0.137		1	06/19/23 15:05	06/20/23 03:07	111-44-4	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	0.210		1	06/19/23 15:05	06/20/23 03:07	108-60-1	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.0877		1	06/19/23 15:05	06/20/23 03:07	101-55-3	
4-Chloroaniline	ND	ug/L	10.0	0.234		1	06/19/23 15:05	06/20/23 03:07	106-47-8	
2-Chloronaphthalene	ND	ug/L	1.00	0.0648		1	06/19/23 15:05	06/20/23 03:07	91-58-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 7-S **Lab ID: 20279949003** Collected: 06/13/23 08:20 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.0926		1	06/19/23 15:05	06/20/23 03:07	7005-72-3	
Chrysene	ND	ug/L	1.00	0.130		1	06/19/23 15:05	06/20/23 03:07	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.00	0.0644		1	06/19/23 15:05	06/20/23 03:07	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/19/23 15:05	06/20/23 03:07	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.0713		1	06/19/23 15:05	06/20/23 03:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.132		1	06/19/23 15:05	06/20/23 03:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.0942		1	06/19/23 15:05	06/20/23 03:07	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10.0	0.212		1	06/19/23 15:05	06/20/23 03:07	91-94-1	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.0983		1	06/19/23 15:05	06/20/23 03:07	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.250		1	06/19/23 15:05	06/20/23 03:07	606-20-2	
Fluoranthene	**1.71**	ug/L	1.00	0.102		1	06/19/23 15:05	06/20/23 03:07	206-44-0	
Fluorene	**14.1**	ug/L	1.00	0.0844		1	06/19/23 15:05	06/20/23 03:07	86-73-7	
Hexachlorobenzene	ND	ug/L	1.00	0.0755		1	06/19/23 15:05	06/20/23 03:07	118-74-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.0968		1	06/19/23 15:05	06/20/23 03:07	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.0598		1	06/19/23 15:05	06/20/23 03:07	77-47-4	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/19/23 15:05	06/20/23 03:07	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/19/23 15:05	06/20/23 03:07	193-39-5	
Isophorone	ND	ug/L	10.0	0.143		1	06/19/23 15:05	06/20/23 03:07	78-59-1	
1-Methylnaphthalene	**12.4**	ug/L	1.00	0.0790		1	06/19/23 15:05	06/20/23 03:07	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/19/23 15:05	06/20/23 03:07	91-57-6	
2-Nitroaniline	ND	ug/L	10.0	0.102		1	06/19/23 15:05	06/20/23 03:07	88-74-4	
3-Nitroaniline	ND	ug/L	10.0	0.0869		1	06/19/23 15:05	06/20/23 03:07	99-09-2	
4-Nitroaniline	ND	ug/L	10.0	0.0910		1	06/19/23 15:05	06/20/23 03:07	100-01-6	
Naphthalene	ND	ug/L	1.00	0.159		1	06/19/23 15:05	06/20/23 03:07	91-20-3	
Nitrobenzene	ND	ug/L	10.0	0.297		1	06/19/23 15:05	06/20/23 03:07	98-95-3	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.998		1	06/19/23 15:05	06/20/23 03:07	62-75-9	
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/19/23 15:05	06/20/23 03:07	86-30-6	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.261		1	06/19/23 15:05	06/20/23 03:07	621-64-7	
Phenanthrene	**11.7**	ug/L	1.00	0.112		1	06/19/23 15:05	06/20/23 03:07	85-01-8	
Pyridine	ND	ug/L	10.0	0.627		1	06/19/23 15:05	06/20/23 03:07	110-86-1	L0,R1
Butylbenzylphthalate	ND	ug/L	3.00	0.765		1	06/19/23 15:05	06/20/23 03:07	85-68-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/19/23 15:05	06/20/23 03:07	117-81-7	
Di-n-butylphthalate	ND	ug/L	3.00	0.453		1	06/19/23 15:05	06/20/23 03:07	84-74-2	
Diethylphthalate	**0.753J**	ug/L	3.00	0.287		1	06/19/23 15:05	06/20/23 03:07	84-66-2	B,J
Dimethylphthalate	ND	ug/L	3.00	0.260		1	06/19/23 15:05	06/20/23 03:07	131-11-3	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/19/23 15:05	06/20/23 03:07	117-84-0	
Pyrene	**0.976J**	ug/L	1.00	0.107		1	06/19/23 15:05	06/20/23 03:07	129-00-0	J
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	0.0647		1	06/19/23 15:05	06/20/23 03:07	95-94-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.0698		1	06/19/23 15:05	06/20/23 03:07	120-82-1	
4-Chloro-3-methylphenol	ND	ug/L	10.0	0.131		1	06/19/23 15:05	06/20/23 03:07	59-50-7	
2-Chlorophenol	ND	ug/L	10.0	0.133		1	06/19/23 15:05	06/20/23 03:07	95-57-8	
2,4-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/19/23 15:05	06/20/23 03:07	120-83-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 7-S **Lab ID: 20279949003** Collected: 06/13/23 08:20 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/19/23 15:05	06/20/23 03:07	105-67-9	
4,6-Dinitro-2-methylphenol	ND	ug/L	10.0	1.12		1	06/19/23 15:05	06/20/23 03:07	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10.0	5.93		1	06/19/23 15:05	06/20/23 03:07	51-28-5	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	0.0929		1	06/19/23 15:05	06/20/23 03:07	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/19/23 15:05	06/20/23 03:07		
2-Nitrophenol	ND	ug/L	10.0	0.117		1	06/19/23 15:05	06/20/23 03:07	88-75-5	
4-Nitrophenol	ND	ug/L	10.0	0.143		1	06/19/23 15:05	06/20/23 03:07	100-02-7	
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/19/23 15:05	06/20/23 03:07	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/19/23 15:05	06/20/23 03:07	108-95-2	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	0.231		1	06/19/23 15:05	06/20/23 03:07	58-90-2	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.109		1	06/19/23 15:05	06/20/23 03:07	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	0.100		1	06/19/23 15:05	06/20/23 03:07	88-06-2	
2-Acetylaminofluorene	ND	ug/L	10.0	0.253		1	06/19/23 15:05	06/26/23 18:21	53-96-3	
4-Aminobiphenyl	ND	ug/L	10.0	0.461		1	06/19/23 15:05	06/26/23 18:21	92-67-1	
Aramite	ND	ug/L	50.0	16.7		1	06/19/23 15:05	06/26/23 18:21	140-57-8	
Chlorobenzilate	ND	ug/L	50.0	3.84		1	06/19/23 15:05	06/26/23 18:21	510-15-6	
Diallate	ND	ug/L	10.0	0.524		1	06/19/23 15:05	06/26/23 18:21	2303-16-4	
2,6-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/19/23 15:05	06/26/23 18:21	87-65-0	
Dimethoate	ND	ug/L	50.0	5.05		1	06/19/23 15:05	06/26/23 18:21	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	10.0	3.69		1	06/19/23 15:05	06/26/23 18:21	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	1.71		1	06/19/23 15:05	06/26/23 18:21	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.0	3.39		1	06/19/23 15:05	06/26/23 18:21	119-93-7	
a,a-Dimethylphenylethylamine	ND	ug/L	50.0	3.13		1	06/19/23 15:05	06/26/23 18:21	122-09-8	
1,3-Dinitrobenzene	ND	ug/L	10.0	0.359		1	06/19/23 15:05	06/26/23 18:21	99-65-0	
Diphenylamine	ND	ug/L	10.0	2.37		1	06/19/23 15:05	06/20/23 03:07	122-39-4	
Dinoseb	ND	ug/L	50.0	8.01		1	06/19/23 15:05	06/26/23 18:21	88-85-7	
Ethyl methanesulfonate	ND	ug/L	10.0	0.326		1	06/19/23 15:05	06/26/23 18:21	62-50-0	
Famphur	ND	ug/L	20.0	3.92		1	06/19/23 15:05	06/26/23 18:21	52-85-7	
Hexachloropropene	ND	ug/L	50.0	0.149		1	06/19/23 15:05	06/26/23 18:21	1888-71-7	
Hexachlorophene	ND	ug/L	50.0	1.44		1	06/19/23 15:05	06/26/23 18:21	70-30-4	
Isodrin	ND	ug/L	10.0	4.11		1	06/19/23 15:05	06/26/23 18:21	465-73-6	
Isosafrole	ND	ug/L	10.0	3.88		1	06/19/23 15:05	06/26/23 18:21	120-58-1	
Kepone	ND	ug/L	20.0	2.66		1	06/19/23 15:05	06/26/23 18:21	143-50-0	
Methapyrilene	ND	ug/L	50.0	10.0		1	06/19/23 15:05	06/26/23 18:21	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.0	0.164		1	06/19/23 15:05	06/26/23 18:21	56-49-5	
Methyl methanesulfonate	ND	ug/L	50.0	3.40		1	06/19/23 15:05	06/26/23 18:21	66-27-3	
1,4-Naphthoquinone	ND	ug/L	50.0	5.56		1	06/19/23 15:05	06/26/23 18:21	130-15-4	
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/19/23 15:05	06/26/23 18:21	134-32-7	
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/19/23 15:05	06/26/23 18:21	91-59-8	
5-Nitro-o-toluidine	ND	ug/L	10.0	1.99		1	06/19/23 15:05	06/26/23 18:21	99-55-8	
4-Nitroquinoline-n-oxide	ND	ug/L	10.0	2.03		1	06/19/23 15:05	06/26/23 18:21	56-57-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
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251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 7-S **Lab ID: 20279949003** Collected: 06/13/23 08:20 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
N-Nitrosodiethylamine	ND	ug/L	10.0	3.57		1	06/19/23 15:05	06/26/23 18:21	55-18-5	
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	3.91		1	06/19/23 15:05	06/26/23 18:21	924-16-3	
N-Nitrosomethylethylamine	ND	ug/L	10.0	3.25		1	06/19/23 15:05	06/26/23 18:21	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	10.0	3.25		1	06/19/23 15:05	06/26/23 18:21	59-89-2	
N-Nitrosopiperidine	ND	ug/L	10.0	3.72		1	06/19/23 15:05	06/26/23 18:21	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.0	3.39		1	06/19/23 15:05	06/26/23 18:21	930-55-2	
Pentachlorobenzene	ND	ug/L	10.0	4.15		1	06/19/23 15:05	06/26/23 18:21	608-93-5	
Pentachloronitrobenzene	ND	ug/L	10.0	4.15		1	06/19/23 15:05	06/26/23 18:21	82-68-8	
Phenacetin	ND	ug/L	10.0	4.66		1	06/19/23 15:05	06/26/23 18:21	62-44-2	
p-Phenylenediamine	ND	ug/L	6900	387		1	06/19/23 15:05	06/26/23 18:21	106-50-3	
2-Picoline	ND	ug/L	50.0	6.83		1	06/19/23 15:05	06/26/23 18:21	109-06-8	
Pronamide	ND	ug/L	10.0	4.21		1	06/19/23 15:05	06/26/23 18:21	23950-58-5	
Safrole	ND	ug/L	10.0	3.68		1	06/19/23 15:05	06/26/23 18:21	94-59-7	
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	50.0	3.99		1	06/19/23 15:05	06/26/23 18:21	3689-24-5	
Thionazin	ND	ug/L	10.0	4.07		1	06/19/23 15:05	06/26/23 18:21	297-97-2	
O-Toluidine	ND	ug/L	10.0	3.53		1	06/19/23 15:05	06/26/23 18:21	95-53-4	
1,3,5-Trinitrobenzene	ND	ug/L	10.0	1.32		1	06/19/23 15:05	06/26/23 18:21	99-35-4	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	2.93		1	06/19/23 15:05	06/26/23 18:21	126-68-1	
Surrogates										
2-Fluorophenol (S)	30.6	%	10.0-120			1	06/19/23 15:05	06/20/23 03:07	367-12-4	
Phenol-d5 (S)	22.8	%	10.0-120			1	06/19/23 15:05	06/20/23 03:07	4165-62-2	
Nitrobenzene-d5 (S)	71.0	%	10.0-127			1	06/19/23 15:05	06/20/23 03:07	4165-60-0	
2-Fluorobiphenyl (S)	72.5	%	10.0-130			1	06/19/23 15:05	06/20/23 03:07	321-60-8	
2,4,6-Tribromophenol (S)	66.0	%	10.0-155			1	06/19/23 15:05	06/20/23 03:07	118-79-6	
Terphenyl-d14 (S)	72.7	%	10.0-128			1	06/19/23 15:05	06/20/23 03:07	1718-51-0	
SVOA (LCMS) SW-846 8321	Analytical Method: EPA 8321 Preparation Method: 8321 Pace National - Mt. Juliet									
2,4-D	ND	ug/L	2.00	1.00		1	06/20/23 08:27	06/20/23 15:29	94-75-7	
2,4,5-T	ND	ug/L	2.00	0.573		1	06/20/23 08:27	06/20/23 15:29	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.807		1	06/20/23 08:27	06/20/23 15:29	93-72-1	
Surrogates										
2,4-DB-d3 (S)	97.0	%	70.0-130			1	06/20/23 08:27	06/20/23 15:29	1219802-46-	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	06/17/23 21:04	06/17/23 21:04	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	06/17/23 21:04	06/17/23 21:04	107-02-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 7-S **Lab ID: 20279949003** Collected: 06/13/23 08:20 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acrylonitrile	ND	ug/L	10.0	0.671		1	06/17/23 21:04	06/17/23 21:04	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	06/17/23 21:04	06/17/23 21:04	107-05-1	
Benzene	ND	ug/L	1.00	0.0941		1	06/17/23 21:04	06/17/23 21:04	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	06/17/23 21:04	06/17/23 21:04	75-27-4	
Bromoform	ND	ug/L	1.00	0.129		1	06/17/23 21:04	06/17/23 21:04	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	06/17/23 21:04	06/17/23 21:04	74-83-9	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	06/17/23 21:04	06/17/23 21:04	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	06/17/23 21:04	06/17/23 21:04	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116		1	06/17/23 21:04	06/17/23 21:04	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140		1	06/17/23 21:04	06/17/23 21:04	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192		1	06/17/23 21:04	06/17/23 21:04	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	06/17/23 21:04	06/17/23 21:04	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	06/17/23 21:04	06/17/23 21:04	74-87-3	
Dibromomethane	ND	ug/L	1.00	0.122		1	06/17/23 21:04	06/17/23 21:04	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	06/17/23 21:04	06/17/23 21:04	95-50-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	06/17/23 21:04	06/17/23 21:04	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	06/17/23 21:04	06/17/23 21:04	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	06/17/23 21:04	06/17/23 21:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	06/17/23 21:04	06/17/23 21:04	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	06/17/23 21:04	06/17/23 21:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	06/17/23 21:04	06/17/23 21:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	06/17/23 21:04	06/17/23 21:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	06/17/23 21:04	06/17/23 21:04	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	06/17/23 21:04	06/17/23 21:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	06/17/23 21:04	06/17/23 21:04	10061-02-6	
Ethylbenzene	ND	ug/L	1.00	0.173		1	06/17/23 21:04	06/17/23 21:04	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.787		1	06/17/23 21:04	06/17/23 21:04	591-78-6	
Iodomethane	ND	ug/L	10.0	6.00		1	06/17/23 21:04	06/17/23 21:04	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	06/17/23 21:04	06/17/23 21:04	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430		1	06/17/23 21:04	06/17/23 21:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	06/17/23 21:04	06/17/23 21:04	108-10-1	
Styrene	ND	ug/L	1.00	0.118		1	06/17/23 21:04	06/17/23 21:04	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	06/17/23 21:04	06/17/23 21:04	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	06/17/23 21:04	06/17/23 21:04	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	06/17/23 21:04	06/17/23 21:04	127-18-4	
Toluene	ND	ug/L	1.00	0.278		1	06/17/23 21:04	06/17/23 21:04	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	06/17/23 21:04	06/17/23 21:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	06/17/23 21:04	06/17/23 21:04	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190		1	06/17/23 21:04	06/17/23 21:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	06/17/23 21:04	06/17/23 21:04	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	06/17/23 21:04	06/17/23 21:04	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	06/17/23 21:04	06/17/23 21:04	108-05-4	
Vinyl chloride	ND	ug/L	1.00	0.234		1	06/17/23 21:04	06/17/23 21:04	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	06/17/23 21:04	06/17/23 21:04	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 7-S **Lab ID: 20279949003** Collected: 06/13/23 08:20 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
m&p-Xylene	ND	ug/L	2.00	0.430		1	06/17/23 21:04	06/17/23 21:04	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	06/17/23 21:04	06/17/23 21:04	1330-20-7	
Acetonitrile	ND	ug/L	50.0	24.0		1	06/22/23 19:01	06/22/23 19:01	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	06/22/23 19:01	06/22/23 19:01	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	06/22/23 19:01	06/22/23 19:01	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	06/22/23 19:01	06/22/23 19:01	78-83-1	
Methacrylonitrile	ND	ug/L	50.0	14.2		1	06/22/23 19:01	06/22/23 19:01	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	06/22/23 19:01	06/22/23 19:01	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	06/22/23 19:01	06/22/23 19:01	76-01-7	
Propionitrile	ND	ug/L	50.0	16.2		1	06/22/23 19:01	06/22/23 19:01	107-12-0	
Surrogates										
Toluene-d8 (S)	96.2	%	80.0-120			1	06/22/23 19:01	06/22/23 19:01	2037-26-5	
Toluene-d8 (S)	97.8	%	80.0-120			1	06/17/23 21:04	06/17/23 21:04	2037-26-5	
1,2-Dichloroethane-d4 (S)	101	%	70.0-130			1	06/22/23 19:01	06/22/23 19:01	17060-07-0	
1,2-Dichloroethane-d4 (S)	108	%	70.0-130			1	06/17/23 21:04	06/17/23 21:04	17060-07-0	
4-Bromofluorobenzene (S)	85.9	%	77.0-126			1	06/22/23 19:01	06/22/23 19:01	460-00-4	
4-Bromofluorobenzene (S)	89.1	%	77.0-126			1	06/17/23 21:04	06/17/23 21:04	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012		1		06/20/23 09:25	18496-25-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay									
Cyanide	ND	mg/L	0.023	0.0069		1	06/26/23 08:00	06/26/23 10:13	57-12-5	
420.1 Phenolics, Total	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - New Orleans									
Phenolics, Total Recoverable	**0.019J**	mg/L	0.020	0.0093		1	07/06/23 13:13	07/07/23 10:33	64743-03-9	B

Sample: 8-D **Lab ID: 20279949004** Collected: 06/13/23 12:35 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/16/23 05:32	06/21/23 13:21	309-00-2	
alpha-BHC	ND	ug/L	0.0500	0.0172		1	06/16/23 05:32	06/21/23 13:21	319-84-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 8-D **Lab ID: 20279949004** Collected: 06/13/23 12:35 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
beta-BHC	ND	ug/L	0.0500	0.0208		1	06/16/23 05:32	06/21/23 13:21	319-85-7	
delta-BHC	ND	ug/L	0.0500	0.0150		1	06/16/23 05:32	06/21/23 13:21	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.0500	0.0209		1	06/16/23 05:32	06/21/23 13:21	58-89-9	
Chlordane (Technical)	ND	ug/L	5.00	0.0198		1	06/16/23 05:32	06/21/23 13:21	57-74-9	
4,4'-DDD	ND	ug/L	0.0500	0.0177		1	06/16/23 05:32	06/21/23 13:21	72-54-8	
4,4'-DDE	ND	ug/L	0.0500	0.0154		1	06/16/23 05:32	06/21/23 13:21	72-55-9	
4,4'-DDT	ND	ug/L	0.0500	0.0198		1	06/16/23 05:32	06/21/23 13:21	50-29-3	
Dieldrin	ND	ug/L	0.0500	0.0162		1	06/16/23 05:32	06/21/23 13:21	60-57-1	
Endosulfan I	ND	ug/L	0.0500	0.0160		1	06/16/23 05:32	06/21/23 13:21	959-98-8	
Endosulfan II	ND	ug/L	0.0500	0.0164		1	06/16/23 05:32	06/21/23 13:21	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.0500	0.0217		1	06/16/23 05:32	06/21/23 13:21	1031-07-8	
Endrin	ND	ug/L	0.0500	0.0161		1	06/16/23 05:32	06/21/23 13:21	72-20-8	
Endrin aldehyde	ND	ug/L	0.0500	0.0237		1	06/16/23 05:32	06/21/23 13:21	7421-93-4	
Heptachlor	ND	ug/L	0.0500	0.0148		1	06/16/23 05:32	06/21/23 13:21	76-44-8	
Heptachlor epoxide	ND	ug/L	0.0500	0.0183		1	06/16/23 05:32	06/21/23 13:21	1024-57-3	
Methoxychlor	ND	ug/L	0.0500	0.0193		1	06/16/23 05:32	06/21/23 13:21	72-43-5	
Toxaphene	ND	ug/L	0.500	0.168		1	06/16/23 05:32	06/21/23 13:21	8001-35-2	
Surrogates										
Decachlorobiphenyl (S)	7.05	%	10.0-128			1	06/16/23 05:32	06/21/23 13:21	2051-24-3	SR
Tetrachloro-m-xylene (S)	28.4	%	10.0-127			1	06/16/23 05:32	06/21/23 13:21	877-09-8	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0020	0.00068		2	06/19/23 08:18	06/20/23 19:59	7440-36-0	
Arsenic	**0.010**	mg/L	0.0020	0.00020		2	06/19/23 08:18	06/20/23 19:59	7440-38-2	
Barium	**0.13**	mg/L	0.0020	0.0013		2	06/19/23 08:18	06/20/23 19:59	7440-39-3	
Beryllium	ND	mg/L	0.0020	0.00042		2	06/19/23 08:18	06/20/23 19:59	7440-41-7	D3
Cadmium	ND	mg/L	0.0020	0.00038		2	06/19/23 08:18	06/20/23 19:59	7440-43-9	
Chromium	ND	mg/L	0.0020	0.0013		2	06/19/23 08:18	06/20/23 19:59	7440-47-3	
Cobalt	**0.0010J**	mg/L	0.0020	0.00024		2	06/19/23 08:18	06/20/23 19:59	7440-48-4	
Copper	ND	mg/L	0.0060	0.0034		2	06/19/23 08:18	06/20/23 19:59	7440-50-8	
Lead	ND	mg/L	0.0020	0.0014		2	06/19/23 08:18	06/20/23 19:59	7439-92-1	
Nickel	ND	mg/L	0.0020	0.0012		2	06/19/23 08:18	06/20/23 19:59	7440-02-0	
Selenium	**0.00055J**	mg/L	0.0020	0.00052		2	06/19/23 08:18	06/20/23 19:59	7782-49-2	
Silver	ND	mg/L	0.0010	0.00040		2	06/19/23 08:18	06/20/23 19:59	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00022		2	06/19/23 08:18	06/20/23 19:59	7440-28-0	
Tin	**0.0038J**	mg/L	0.012	0.0013		2	06/19/23 08:18	06/20/23 19:59	7440-31-5	
Vanadium	ND	mg/L	0.010	0.00046		2	06/19/23 08:18	06/20/23 19:59	7440-62-2	
Zinc	**0.12**	mg/L	0.020	0.014		2	06/19/23 08:18	06/20/23 19:59	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/16/23 06:15	06/26/23 14:10	7439-97-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 8-D **Lab ID: 20279949004** Collected: 06/13/23 12:35 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270 C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	ND	ug/L	0.400	0.0447		1	06/22/23 15:40	06/23/23 20:14	123-91-1	H1
Surrogates										
Nitrobenzene-d5 (S)	56.9	%	10.0-120			1	06/22/23 15:40	06/23/23 20:14	4165-60-0	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	**0.0918J**	ug/L	1.00	0.0886		1	06/19/23 15:05	06/20/23 03:29	83-32-9	J
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/19/23 15:05	06/20/23 03:29	208-96-8	
Acetophenone	ND	ug/L	10.0	0.208		1	06/19/23 15:05	06/20/23 03:29	98-86-2	
Aniline	ND	ug/L	10.0	1.65		1	06/19/23 15:05	06/20/23 03:29	62-53-3	R1
Anthracene	ND	ug/L	1.00	0.0804		1	06/19/23 15:05	06/20/23 03:29	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/19/23 15:05	06/20/23 03:29	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/19/23 15:05	06/20/23 03:29	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/19/23 15:05	06/20/23 03:29	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/19/23 15:05	06/20/23 03:29	191-24-2	
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/19/23 15:05	06/20/23 03:29	50-32-8	
Benzyl alcohol	ND	ug/L	10.0	0.563		1	06/19/23 15:05	06/20/23 03:29	100-51-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.116		1	06/19/23 15:05	06/20/23 03:29	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	0.137		1	06/19/23 15:05	06/20/23 03:29	111-44-4	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	0.210		1	06/19/23 15:05	06/20/23 03:29	108-60-1	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.0877		1	06/19/23 15:05	06/20/23 03:29	101-55-3	
4-Chloroaniline	ND	ug/L	10.0	0.234		1	06/19/23 15:05	06/20/23 03:29	106-47-8	
2-Chloronaphthalene	ND	ug/L	1.00	0.0648		1	06/19/23 15:05	06/20/23 03:29	91-58-7	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.0926		1	06/19/23 15:05	06/20/23 03:29	7005-72-3	
Chrysene	ND	ug/L	1.00	0.130		1	06/19/23 15:05	06/20/23 03:29	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.00	0.0644		1	06/19/23 15:05	06/20/23 03:29	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/19/23 15:05	06/20/23 03:29	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.0713		1	06/19/23 15:05	06/20/23 03:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.132		1	06/19/23 15:05	06/20/23 03:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.0942		1	06/19/23 15:05	06/20/23 03:29	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10.0	0.212		1	06/19/23 15:05	06/20/23 03:29	91-94-1	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.0983		1	06/19/23 15:05	06/20/23 03:29	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.250		1	06/19/23 15:05	06/20/23 03:29	606-20-2	
Fluoranthene	ND	ug/L	1.00	0.102		1	06/19/23 15:05	06/20/23 03:29	206-44-0	
Fluorene	ND	ug/L	1.00	0.0844		1	06/19/23 15:05	06/20/23 03:29	86-73-7	
Hexachlorobenzene	ND	ug/L	1.00	0.0755		1	06/19/23 15:05	06/20/23 03:29	118-74-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.0968		1	06/19/23 15:05	06/20/23 03:29	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.0598		1	06/19/23 15:05	06/20/23 03:29	77-47-4	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/19/23 15:05	06/20/23 03:29	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/19/23 15:05	06/20/23 03:29	193-39-5	
Isophorone	ND	ug/L	10.0	0.143		1	06/19/23 15:05	06/20/23 03:29	78-59-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 8-D **Lab ID: 20279949004** Collected: 06/13/23 12:35 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/19/23 15:05	06/20/23 03:29	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/19/23 15:05	06/20/23 03:29	91-57-6	
2-Nitroaniline	ND	ug/L	10.0	0.102		1	06/19/23 15:05	06/20/23 03:29	88-74-4	
3-Nitroaniline	ND	ug/L	10.0	0.0869		1	06/19/23 15:05	06/20/23 03:29	99-09-2	
4-Nitroaniline	ND	ug/L	10.0	0.0910		1	06/19/23 15:05	06/20/23 03:29	100-01-6	
Naphthalene	ND	ug/L	1.00	0.159		1	06/19/23 15:05	06/20/23 03:29	91-20-3	
Nitrobenzene	ND	ug/L	10.0	0.297		1	06/19/23 15:05	06/20/23 03:29	98-95-3	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.998		1	06/19/23 15:05	06/20/23 03:29	62-75-9	
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/19/23 15:05	06/20/23 03:29	86-30-6	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.261		1	06/19/23 15:05	06/20/23 03:29	621-64-7	
Phenanthrene	**0.128J**	ug/L	1.00	0.112		1	06/19/23 15:05	06/20/23 03:29	85-01-8	J
Pyridine	ND	ug/L	10.0	0.627		1	06/19/23 15:05	06/20/23 03:29	110-86-1	L0,R1
Butylbenzylphthalate	ND	ug/L	3.00	0.765		1	06/19/23 15:05	06/20/23 03:29	85-68-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/19/23 15:05	06/20/23 03:29	117-81-7	
Di-n-butylphthalate	ND	ug/L	3.00	0.453		1	06/19/23 15:05	06/20/23 03:29	84-74-2	
Diethylphthalate	**0.824J**	ug/L	3.00	0.287		1	06/19/23 15:05	06/20/23 03:29	84-66-2	B,J
Dimethylphthalate	ND	ug/L	3.00	0.260		1	06/19/23 15:05	06/20/23 03:29	131-11-3	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/19/23 15:05	06/20/23 03:29	117-84-0	
Pyrene	ND	ug/L	1.00	0.107		1	06/19/23 15:05	06/20/23 03:29	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	0.0647		1	06/19/23 15:05	06/20/23 03:29	95-94-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.0698		1	06/19/23 15:05	06/20/23 03:29	120-82-1	
4-Chloro-3-methylphenol	ND	ug/L	10.0	0.131		1	06/19/23 15:05	06/20/23 03:29	59-50-7	
2-Chlorophenol	ND	ug/L	10.0	0.133		1	06/19/23 15:05	06/20/23 03:29	95-57-8	
2,4-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/19/23 15:05	06/20/23 03:29	120-83-2	
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/19/23 15:05	06/20/23 03:29	105-67-9	
4,6-Dinitro-2-methylphenol	ND	ug/L	10.0	1.12		1	06/19/23 15:05	06/20/23 03:29	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10.0	5.93		1	06/19/23 15:05	06/20/23 03:29	51-28-5	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	0.0929		1	06/19/23 15:05	06/20/23 03:29	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/19/23 15:05	06/20/23 03:29		
2-Nitrophenol	ND	ug/L	10.0	0.117		1	06/19/23 15:05	06/20/23 03:29	88-75-5	
4-Nitrophenol	ND	ug/L	10.0	0.143		1	06/19/23 15:05	06/20/23 03:29	100-02-7	
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/19/23 15:05	06/20/23 03:29	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/19/23 15:05	06/20/23 03:29	108-95-2	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	0.231		1	06/19/23 15:05	06/20/23 03:29	58-90-2	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.109		1	06/19/23 15:05	06/20/23 03:29	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	0.100		1	06/19/23 15:05	06/20/23 03:29	88-06-2	
Diphenylamine	ND	ug/L	10.0	2.37		1	06/19/23 15:05	06/20/23 03:29	122-39-4	
Surrogates										
2-Fluorophenol (S)	26.8	%	10.0-120			1	06/19/23 15:05	06/20/23 03:29	367-12-4	
Phenol-d5 (S)	20.3	%	10.0-120			1	06/19/23 15:05	06/20/23 03:29	4165-62-2	
Nitrobenzene-d5 (S)	66.5	%	10.0-127			1	06/19/23 15:05	06/20/23 03:29	4165-60-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 8-D **Lab ID: 20279949004** Collected: 06/13/23 12:35 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Surrogates										
2-Fluorobiphenyl (S)	67.6	%	10.0-130			1	06/19/23 15:05	06/20/23 03:29	321-60-8	
2,4,6-Tribromophenol (S)	57.5	%	10.0-155			1	06/19/23 15:05	06/20/23 03:29	118-79-6	
Terphenyl-d14 (S)	61.5	%	10.0-128			1	06/19/23 15:05	06/20/23 03:29	1718-51-0	
SVOA (LCMS) SW-846 8321	Analytical Method: EPA 8321 Preparation Method: 8321 Pace National - Mt. Juliet									
2,4-D	ND	ug/L	2.00	1.00		1	06/20/23 08:27	06/20/23 15:47	94-75-7	
2,4,5-T	ND	ug/L	2.00	0.573		1	06/20/23 08:27	06/20/23 15:47	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.807		1	06/20/23 08:27	06/20/23 15:47	93-72-1	
Surrogates										
2,4-DB-d3 (S)	101	%	70.0-130			1	06/20/23 08:27	06/20/23 15:47	1219802-46-	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	06/17/23 21:24	06/17/23 21:24	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	06/17/23 21:24	06/17/23 21:24	107-02-8	
Acrylonitrile	ND	ug/L	10.0	0.671		1	06/17/23 21:24	06/17/23 21:24	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	06/17/23 21:24	06/17/23 21:24	107-05-1	
Benzene	ND	ug/L	1.00	0.0941		1	06/17/23 21:24	06/17/23 21:24	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	06/17/23 21:24	06/17/23 21:24	75-27-4	
Bromoform	ND	ug/L	1.00	0.129		1	06/17/23 21:24	06/17/23 21:24	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	06/17/23 21:24	06/17/23 21:24	74-83-9	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	06/17/23 21:24	06/17/23 21:24	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	06/17/23 21:24	06/17/23 21:24	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116		1	06/17/23 21:24	06/17/23 21:24	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140		1	06/17/23 21:24	06/17/23 21:24	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192		1	06/17/23 21:24	06/17/23 21:24	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	06/17/23 21:24	06/17/23 21:24	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	06/17/23 21:24	06/17/23 21:24	74-87-3	
Dibromomethane	ND	ug/L	1.00	0.122		1	06/17/23 21:24	06/17/23 21:24	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	06/17/23 21:24	06/17/23 21:24	95-50-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	06/17/23 21:24	06/17/23 21:24	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	06/17/23 21:24	06/17/23 21:24	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	06/17/23 21:24	06/17/23 21:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	06/17/23 21:24	06/17/23 21:24	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	06/17/23 21:24	06/17/23 21:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	06/17/23 21:24	06/17/23 21:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	06/17/23 21:24	06/17/23 21:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	06/17/23 21:24	06/17/23 21:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	06/17/23 21:24	06/17/23 21:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	06/17/23 21:24	06/17/23 21:24	10061-02-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 8-D **Lab ID: 20279949004** Collected: 06/13/23 12:35 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Ethylbenzene	ND	ug/L	1.00	0.173		1	06/17/23 21:24	06/17/23 21:24	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.787		1	06/17/23 21:24	06/17/23 21:24	591-78-6	
Iodomethane	ND	ug/L	10.0	6.00		1	06/17/23 21:24	06/17/23 21:24	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	06/17/23 21:24	06/17/23 21:24	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430		1	06/17/23 21:24	06/17/23 21:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	06/17/23 21:24	06/17/23 21:24	108-10-1	
Styrene	ND	ug/L	1.00	0.118		1	06/17/23 21:24	06/17/23 21:24	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	06/17/23 21:24	06/17/23 21:24	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	06/17/23 21:24	06/17/23 21:24	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	06/17/23 21:24	06/17/23 21:24	127-18-4	
Toluene	ND	ug/L	1.00	0.278		1	06/17/23 21:24	06/17/23 21:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	06/17/23 21:24	06/17/23 21:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	06/17/23 21:24	06/17/23 21:24	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190		1	06/17/23 21:24	06/17/23 21:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	06/17/23 21:24	06/17/23 21:24	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	06/17/23 21:24	06/17/23 21:24	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	06/17/23 21:24	06/17/23 21:24	108-05-4	
Vinyl chloride	ND	ug/L	1.00	0.234		1	06/17/23 21:24	06/17/23 21:24	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	06/17/23 21:24	06/17/23 21:24	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	06/17/23 21:24	06/17/23 21:24	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	06/17/23 21:24	06/17/23 21:24	1330-20-7	
Acetonitrile	ND	ug/L	50.0	24.0		1	06/22/23 19:23	06/22/23 19:23	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	06/22/23 19:23	06/22/23 19:23	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	06/22/23 19:23	06/22/23 19:23	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	06/22/23 19:23	06/22/23 19:23	78-83-1	
Methacrylonitrile	ND	ug/L	50.0	14.2		1	06/22/23 19:23	06/22/23 19:23	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	06/22/23 19:23	06/22/23 19:23	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	06/22/23 19:23	06/22/23 19:23	76-01-7	
Propionitrile	ND	ug/L	50.0	16.2		1	06/22/23 19:23	06/22/23 19:23	107-12-0	
Surrogates										
Toluene-d8 (S)	98.3	%	80.0-120			1	06/22/23 19:23	06/22/23 19:23	2037-26-5	
Toluene-d8 (S)	105	%	80.0-120			1	06/17/23 21:24	06/17/23 21:24	2037-26-5	
1,2-Dichloroethane-d4 (S)	103	%	70.0-130			1	06/22/23 19:23	06/22/23 19:23	17060-07-0	
1,2-Dichloroethane-d4 (S)	103	%	70.0-130			1	06/17/23 21:24	06/17/23 21:24	17060-07-0	
4-Bromofluorobenzene (S)	88.4	%	77.0-126			1	06/22/23 19:23	06/22/23 19:23	460-00-4	
4-Bromofluorobenzene (S)	98.2	%	77.0-126			1	06/17/23 21:24	06/17/23 21:24	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012		1		06/20/23 09:25	18496-25-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 8-D **Lab ID: 20279949004** Collected: 06/13/23 12:35 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
335.4 Cyanide, Total		Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay								
Cyanide	ND	mg/L	0.023	0.0069		1	06/26/23 08:00	06/26/23 10:14	57-12-5	
420.1 Phenolics, Total		Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - New Orleans								
Phenolics, Total Recoverable	ND	mg/L	0.020	0.0093		1	07/06/23 13:13	07/07/23 10:37	64743-03-9	

Sample: 8-DK **Lab ID: 20279949005** Collected: 06/13/23 10:20 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081		Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet								
Aldrin	ND	ug/L	0.0500	0.0198		1	06/16/23 05:32	06/17/23 01:07	309-00-2	
alpha-BHC	ND	ug/L	0.0500	0.0172		1	06/16/23 05:32	06/17/23 01:07	319-84-6	
beta-BHC	ND	ug/L	0.0500	0.0208		1	06/16/23 05:32	06/17/23 01:07	319-85-7	
delta-BHC	ND	ug/L	0.0500	0.0150		1	06/16/23 05:32	06/17/23 01:07	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.0500	0.0209		1	06/16/23 05:32	06/17/23 01:07	58-89-9	
Chlordane (Technical)	ND	ug/L	5.00	0.0198		1	06/16/23 05:32	06/17/23 01:07	57-74-9	
4,4'-DDD	ND	ug/L	0.0500	0.0177		1	06/16/23 05:32	06/17/23 01:07	72-54-8	
4,4'-DDE	ND	ug/L	0.0500	0.0154		1	06/16/23 05:32	06/17/23 01:07	72-55-9	
4,4'-DDT	ND	ug/L	0.0500	0.0198		1	06/16/23 05:32	06/17/23 01:07	50-29-3	
Dieldrin	ND	ug/L	0.0500	0.0162		1	06/16/23 05:32	06/17/23 01:07	60-57-1	
Endosulfan I	ND	ug/L	0.0500	0.0160		1	06/16/23 05:32	06/17/23 01:07	959-98-8	
Endosulfan II	ND	ug/L	0.0500	0.0164		1	06/16/23 05:32	06/17/23 01:07	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.0500	0.0217		1	06/16/23 05:32	06/17/23 01:07	1031-07-8	
Endrin	ND	ug/L	0.0500	0.0161		1	06/16/23 05:32	06/17/23 01:07	72-20-8	
Endrin aldehyde	ND	ug/L	0.0500	0.0237		1	06/16/23 05:32	06/17/23 01:07	7421-93-4	
Endrin ketone	ND	ug/L	0.0500	0.0219		1	06/16/23 05:32	06/17/23 01:07	53494-70-5	
Hexachlorobenzene	ND	ug/L	0.0500	0.0176		1	06/16/23 05:32	06/17/23 01:07	118-74-1	
Heptachlor	ND	ug/L	0.0500	0.0148		1	06/16/23 05:32	06/17/23 01:07	76-44-8	
Heptachlor epoxide	ND	ug/L	0.0500	0.0183		1	06/16/23 05:32	06/17/23 01:07	1024-57-3	
Methoxychlor	ND	ug/L	0.0500	0.0193		1	06/16/23 05:32	06/17/23 01:07	72-43-5	
Toxaphene	ND	ug/L	0.500	0.168		1	06/16/23 05:32	06/17/23 01:07	8001-35-2	
Surrogates										
Decachlorobiphenyl (S)	18.2	%	10.0-128			1	06/16/23 05:32	06/17/23 01:07	2051-24-3	
Tetrachloro-m-xylene (S)	48.7	%	10.0-127			1	06/16/23 05:32	06/17/23 01:07	877-09-8	
6020 MET ICPMS		Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans								
Antimony	ND	mg/L	0.0050	0.0017		5	06/19/23 08:18	06/21/23 17:58	7440-36-0	
Arsenic	**0.0032J**	mg/L	0.0050	0.00050		5	06/19/23 08:18	06/21/23 17:58	7440-38-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 8-DK **Lab ID: 20279949005** Collected: 06/13/23 10:20 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Barium	**0.17**	mg/L	0.0050	0.0032		5	06/19/23 08:18	06/21/23 17:58	7440-39-3	
Beryllium	ND	mg/L	0.0050	0.0010		5	06/19/23 08:18	06/21/23 17:58	7440-41-7	D3
Cadmium	ND	mg/L	0.0050	0.00095		5	06/19/23 08:18	06/21/23 17:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0032		5	06/19/23 08:18	06/21/23 17:58	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00060		5	06/19/23 08:18	06/21/23 17:58	7440-48-4	
Copper	ND	mg/L	0.015	0.0084		5	06/19/23 08:18	06/21/23 17:58	7440-50-8	
Lead	ND	mg/L	0.0050	0.0034		5	06/19/23 08:18	06/21/23 17:58	7439-92-1	
Nickel	ND	mg/L	0.0050	0.0031		5	06/19/23 08:18	06/21/23 17:58	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0013		5	06/19/23 08:18	06/21/23 17:58	7782-49-2	
Silver	ND	mg/L	0.0025	0.0010		5	06/19/23 08:18	06/21/23 17:58	7440-22-4	
Thallium	ND	mg/L	0.0025	0.00055		5	06/19/23 08:18	06/21/23 17:58	7440-28-0	
Tin	ND	mg/L	0.030	0.0032		5	06/19/23 08:18	06/21/23 17:58	7440-31-5	
Vanadium	ND	mg/L	0.025	0.0012		5	06/19/23 08:18	06/21/23 17:58	7440-62-2	
Zinc	ND	mg/L	0.050	0.036		5	06/19/23 08:18	06/21/23 17:58	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/16/23 06:15	06/26/23 14:19	7439-97-6	
SVOA (GC/MS) 8270 C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	ND	ug/L	0.400	0.0447		1	06/22/23 15:40	06/23/23 20:33	123-91-1	H1
Surrogates										
Nitrobenzene-d5 (S)	56.5	%	10.0-120			1	06/22/23 15:40	06/23/23 20:33	4165-60-0	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	ND	ug/L	1.00	0.0886		1	06/19/23 15:05	06/20/23 03:50	83-32-9	
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/19/23 15:05	06/20/23 03:50	208-96-8	
Acetophenone	ND	ug/L	10.0	0.208		1	06/19/23 15:05	06/20/23 03:50	98-86-2	
Aniline	ND	ug/L	10.0	1.65		1	06/19/23 15:05	06/20/23 03:50	62-53-3	R1
Anthracene	ND	ug/L	1.00	0.0804		1	06/19/23 15:05	06/20/23 03:50	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/19/23 15:05	06/20/23 03:50	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/19/23 15:05	06/20/23 03:50	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/19/23 15:05	06/20/23 03:50	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/19/23 15:05	06/20/23 03:50	191-24-2	
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/19/23 15:05	06/20/23 03:50	50-32-8	
Benzyl alcohol	ND	ug/L	10.0	0.563		1	06/19/23 15:05	06/20/23 03:50	100-51-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.116		1	06/19/23 15:05	06/20/23 03:50	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	0.137		1	06/19/23 15:05	06/20/23 03:50	111-44-4	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	0.210		1	06/19/23 15:05	06/20/23 03:50	108-60-1	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.0877		1	06/19/23 15:05	06/20/23 03:50	101-55-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 8-DK **Lab ID: 20279949005** Collected: 06/13/23 10:20 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
4-Chloroaniline	ND	ug/L	10.0	0.234		1	06/19/23 15:05	06/20/23 03:50	106-47-8	
2-Chloronaphthalene	ND	ug/L	1.00	0.0648		1	06/19/23 15:05	06/20/23 03:50	91-58-7	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.0926		1	06/19/23 15:05	06/20/23 03:50	7005-72-3	
Chrysene	ND	ug/L	1.00	0.130		1	06/19/23 15:05	06/20/23 03:50	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.00	0.0644		1	06/19/23 15:05	06/20/23 03:50	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/19/23 15:05	06/20/23 03:50	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.0713		1	06/19/23 15:05	06/20/23 03:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.132		1	06/19/23 15:05	06/20/23 03:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.0942		1	06/19/23 15:05	06/20/23 03:50	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10.0	0.212		1	06/19/23 15:05	06/20/23 03:50	91-94-1	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.0983		1	06/19/23 15:05	06/20/23 03:50	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.250		1	06/19/23 15:05	06/20/23 03:50	606-20-2	
Fluoranthene	ND	ug/L	1.00	0.102		1	06/19/23 15:05	06/20/23 03:50	206-44-0	
Fluorene	ND	ug/L	1.00	0.0844		1	06/19/23 15:05	06/20/23 03:50	86-73-7	
Hexachlorobenzene	ND	ug/L	1.00	0.0755		1	06/19/23 15:05	06/20/23 03:50	118-74-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.0968		1	06/19/23 15:05	06/20/23 03:50	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.0598		1	06/19/23 15:05	06/20/23 03:50	77-47-4	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/19/23 15:05	06/20/23 03:50	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/19/23 15:05	06/20/23 03:50	193-39-5	
Isophorone	ND	ug/L	10.0	0.143		1	06/19/23 15:05	06/20/23 03:50	78-59-1	
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/19/23 15:05	06/20/23 03:50	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/19/23 15:05	06/20/23 03:50	91-57-6	
2-Nitroaniline	ND	ug/L	10.0	0.102		1	06/19/23 15:05	06/20/23 03:50	88-74-4	
3-Nitroaniline	ND	ug/L	10.0	0.0869		1	06/19/23 15:05	06/20/23 03:50	99-09-2	
4-Nitroaniline	ND	ug/L	10.0	0.0910		1	06/19/23 15:05	06/20/23 03:50	100-01-6	
Naphthalene	ND	ug/L	1.00	0.159		1	06/19/23 15:05	06/20/23 03:50	91-20-3	
Nitrobenzene	ND	ug/L	10.0	0.297		1	06/19/23 15:05	06/20/23 03:50	98-95-3	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.998		1	06/19/23 15:05	06/20/23 03:50	62-75-9	
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/19/23 15:05	06/20/23 03:50	86-30-6	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.261		1	06/19/23 15:05	06/20/23 03:50	621-64-7	
Phenanthrene	ND	ug/L	1.00	0.112		1	06/19/23 15:05	06/20/23 03:50	85-01-8	
Pyridine	ND	ug/L	10.0	0.627		1	06/19/23 15:05	06/20/23 03:50	110-86-1	L0,R1
Butylbenzylphthalate	ND	ug/L	3.00	0.765		1	06/19/23 15:05	06/20/23 03:50	85-68-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/19/23 15:05	06/20/23 03:50	117-81-7	
Di-n-butylphthalate	ND	ug/L	3.00	0.453		1	06/19/23 15:05	06/20/23 03:50	84-74-2	
Diethylphthalate	**1.02J**	ug/L	3.00	0.287		1	06/19/23 15:05	06/20/23 03:50	84-66-2	B,J
Dimethylphthalate	ND	ug/L	3.00	0.260		1	06/19/23 15:05	06/20/23 03:50	131-11-3	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/19/23 15:05	06/20/23 03:50	117-84-0	
Pyrene	ND	ug/L	1.00	0.107		1	06/19/23 15:05	06/20/23 03:50	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	0.0647		1	06/19/23 15:05	06/20/23 03:50	95-94-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.0698		1	06/19/23 15:05	06/20/23 03:50	120-82-1	
4-Chloro-3-methylphenol	ND	ug/L	10.0	0.131		1	06/19/23 15:05	06/20/23 03:50	59-50-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 8-DK **Lab ID: 20279949005** Collected: 06/13/23 10:20 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
2-Chlorophenol	ND	ug/L	10.0	0.133		1	06/19/23 15:05	06/20/23 03:50	95-57-8	
2,4-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/19/23 15:05	06/20/23 03:50	120-83-2	
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/19/23 15:05	06/20/23 03:50	105-67-9	
4,6-Dinitro-2-methylphenol	ND	ug/L	10.0	1.12		1	06/19/23 15:05	06/20/23 03:50	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10.0	5.93		1	06/19/23 15:05	06/20/23 03:50	51-28-5	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	0.0929		1	06/19/23 15:05	06/20/23 03:50	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/19/23 15:05	06/20/23 03:50		
2-Nitrophenol	ND	ug/L	10.0	0.117		1	06/19/23 15:05	06/20/23 03:50	88-75-5	
4-Nitrophenol	ND	ug/L	10.0	0.143		1	06/19/23 15:05	06/20/23 03:50	100-02-7	
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/19/23 15:05	06/20/23 03:50	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/19/23 15:05	06/20/23 03:50	108-95-2	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	0.231		1	06/19/23 15:05	06/20/23 03:50	58-90-2	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.109		1	06/19/23 15:05	06/20/23 03:50	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	0.100		1	06/19/23 15:05	06/20/23 03:50	88-06-2	
2-Acetylaminofluorene	ND	ug/L	10.0	0.253		1	06/27/23 19:40	06/28/23 17:12	53-96-3	H1
4-Aminobiphenyl	ND	ug/L	10.0	0.461		1	06/27/23 19:40	06/28/23 17:12	92-67-1	H1
Aramite	ND	ug/L	50.0	16.7		1	06/27/23 19:40	06/28/23 17:12	140-57-8	H1
Chlorobenzilate	ND	ug/L	50.0	3.84		1	06/27/23 19:40	06/28/23 17:12	510-15-6	H1
Diallate	ND	ug/L	10.0	0.524		1	06/27/23 19:40	06/28/23 17:12	2303-16-4	H1
2,6-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/27/23 19:40	06/28/23 17:12	87-65-0	H1
Dimethoate	ND	ug/L	50.0	5.05		1	06/27/23 19:40	06/28/23 17:12	60-51-5	H1
P-Dimethylaminoazobenzene	ND	ug/L	10.0	3.69		1	06/27/23 19:40	06/28/23 17:12	60-11-7	H1
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	1.71		1	06/27/23 19:40	06/28/23 17:12	57-97-6	H1
3,3'-Dimethylbenzidine	ND	ug/L	10.0	3.39		1	06/27/23 19:40	06/28/23 17:12	119-93-7	H1,L0
a,a-Dimethylphenylethylamine	ND	ug/L	50.0	3.13		1	06/27/23 19:40	06/28/23 17:12	122-09-8	H1,L0
1,3-Dinitrobenzene	ND	ug/L	10.0	0.359		1	06/27/23 19:40	06/28/23 17:12	99-65-0	H1
Diphenylamine	ND	ug/L	10.0	2.37		1	06/19/23 15:05	06/20/23 03:50	122-39-4	
Dinoseb	ND	ug/L	50.0	8.01		1	06/27/23 19:40	06/28/23 17:12	88-85-7	H1
Ethyl methanesulfonate	ND	ug/L	10.0	0.326		1	06/27/23 19:40	06/28/23 17:12	62-50-0	H1
Famphur	ND	ug/L	20.0	3.92		1	06/27/23 19:40	06/28/23 17:12	52-85-7	H1
Hexachloropropene	ND	ug/L	50.0	0.149		1	06/27/23 19:40	06/28/23 17:12	1888-71-7	H1
Hexachlorophene	ND	ug/L	50.0	1.44		1	06/27/23 19:40	06/28/23 17:12	70-30-4	H1
Isodrin	ND	ug/L	10.0	4.11		1	06/27/23 19:40	06/28/23 17:12	465-73-6	H1
Isosafrole	ND	ug/L	10.0	3.88		1	06/27/23 19:40	06/28/23 17:12	120-58-1	H1
Kepone	ND	ug/L	20.0	2.66		1	06/27/23 19:40	06/28/23 17:12	143-50-0	H1
Methapyrilene	ND	ug/L	50.0	10.0		1	06/27/23 19:40	06/28/23 17:12	91-80-5	H1,L0
3-Methylcholanthrene	ND	ug/L	10.0	0.164		1	06/27/23 19:40	06/28/23 17:12	56-49-5	H1
Methyl methanesulfonate	ND	ug/L	50.0	3.40		1	06/27/23 19:40	06/28/23 17:12	66-27-3	H1
1,4-Naphthoquinone	ND	ug/L	50.0	5.56		1	06/27/23 19:40	06/28/23 17:12	130-15-4	H1,L0
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/27/23 19:40	06/28/23 17:12	134-32-7	H1
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/27/23 19:40	06/28/23 17:12	91-59-8	H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 8-DK **Lab ID: 20279949005** Collected: 06/13/23 10:20 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
5-Nitro-o-toluidine	ND	ug/L	10.0	1.99		1	06/27/23 19:40	06/28/23 17:12	99-55-8	H1
4-Nitroquinoline-n-oxide	ND	ug/L	10.0	2.03		1	06/27/23 19:40	06/28/23 17:12	56-57-5	H1
N-Nitrosodiethylamine	ND	ug/L	10.0	3.57		1	06/27/23 19:40	06/28/23 17:12	55-18-5	H1
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	3.91		1	06/27/23 19:40	06/28/23 17:12	924-16-3	H1
N-Nitrosomethylethylamine	ND	ug/L	10.0	3.25		1	06/27/23 19:40	06/28/23 17:12	10595-95-6	H1
N-Nitrosomorpholine	ND	ug/L	10.0	3.25		1	06/27/23 19:40	06/28/23 17:12	59-89-2	H1
N-Nitrosopiperidine	ND	ug/L	10.0	3.72		1	06/27/23 19:40	06/28/23 17:12	100-75-4	H1
N-Nitrosopyrrolidine	ND	ug/L	10.0	3.39		1	06/27/23 19:40	06/28/23 17:12	930-55-2	H1
Pentachlorobenzene	ND	ug/L	10.0	4.15		1	06/27/23 19:40	06/28/23 17:12	608-93-5	H1
Pentachloronitrobenzene	ND	ug/L	10.0	4.15		1	06/27/23 19:40	06/28/23 17:12	82-68-8	H1
Phenacetin	ND	ug/L	10.0	4.66		1	06/27/23 19:40	06/28/23 17:12	62-44-2	H1
p-Phenylenediamine	ND	ug/L	6900	387		1	06/27/23 19:40	06/28/23 17:12	106-50-3	H1,L0
2-Picoline	ND	ug/L	50.0	6.83		1	06/27/23 19:40	06/28/23 17:12	109-06-8	H1,L0
Pronamide	ND	ug/L	10.0	4.21		1	06/27/23 19:40	06/28/23 17:12	23950-58-5	H1
Safrole	ND	ug/L	10.0	3.68		1	06/27/23 19:40	06/28/23 17:12	94-59-7	H1
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	50.0	3.99		1	06/27/23 19:40	06/28/23 17:12	3689-24-5	H1
Thionazin	ND	ug/L	10.0	4.07		1	06/27/23 19:40	06/28/23 17:12	297-97-2	H1
O-Toluidine	ND	ug/L	10.0	3.53		1	06/27/23 19:40	06/28/23 17:12	95-53-4	H1
1,3,5-Trinitrobenzene	ND	ug/L	10.0	1.32		1	06/27/23 19:40	06/28/23 17:12	99-35-4	H1
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	2.93		1	06/27/23 19:40	06/28/23 17:12	126-68-1	H1
Surrogates										
2-Fluorophenol (S)	23.8	%	10.0-120			1	06/19/23 15:05	06/20/23 03:50	367-12-4	
Phenol-d5 (S)	18.6	%	10.0-120			1	06/19/23 15:05	06/20/23 03:50	4165-62-2	
Nitrobenzene-d5 (S)	70.4	%	10.0-127			1	06/19/23 15:05	06/20/23 03:50	4165-60-0	
2-Fluorobiphenyl (S)	72.7	%	10.0-130			1	06/19/23 15:05	06/20/23 03:50	321-60-8	
2,4,6-Tribromophenol (S)	51.0	%	10.0-155			1	06/19/23 15:05	06/20/23 03:50	118-79-6	
Terphenyl-d14 (S)	71.6	%	10.0-128			1	06/19/23 15:05	06/20/23 03:50	1718-51-0	
SVOA (LCMS) SW-846 8321	Analytical Method: EPA 8321 Preparation Method: 8321 Pace National - Mt. Juliet									
2,4-D	ND	ug/L	2.00	1.00		1	06/20/23 08:27	06/20/23 16:04	94-75-7	
2,4,5-T	ND	ug/L	2.00	0.573		1	06/20/23 08:27	06/20/23 16:04	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.807		1	06/20/23 08:27	06/20/23 16:04	93-72-1	
Surrogates										
2,4-DB-d3 (S)	99.5	%	70.0-130			1	06/20/23 08:27	06/20/23 16:04	1219802-46-	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 8-DK **Lab ID: 20279949005** Collected: 06/13/23 10:20 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	06/17/23 21:43	06/17/23 21:43	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	06/17/23 21:43	06/17/23 21:43	107-02-8	
Acrylonitrile	ND	ug/L	10.0	0.671		1	06/17/23 21:43	06/17/23 21:43	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	06/17/23 21:43	06/17/23 21:43	107-05-1	
Benzene	ND	ug/L	1.00	0.0941		1	06/17/23 21:43	06/17/23 21:43	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	06/17/23 21:43	06/17/23 21:43	75-27-4	
Bromoform	ND	ug/L	1.00	0.129		1	06/17/23 21:43	06/17/23 21:43	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	06/17/23 21:43	06/17/23 21:43	74-83-9	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	06/17/23 21:43	06/17/23 21:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	06/17/23 21:43	06/17/23 21:43	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116		1	06/17/23 21:43	06/17/23 21:43	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140		1	06/17/23 21:43	06/17/23 21:43	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192		1	06/17/23 21:43	06/17/23 21:43	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	06/17/23 21:43	06/17/23 21:43	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	06/17/23 21:43	06/17/23 21:43	74-87-3	
Dibromomethane	ND	ug/L	1.00	0.122		1	06/17/23 21:43	06/17/23 21:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	06/17/23 21:43	06/17/23 21:43	95-50-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	06/17/23 21:43	06/17/23 21:43	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	06/17/23 21:43	06/17/23 21:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	06/17/23 21:43	06/17/23 21:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	06/17/23 21:43	06/17/23 21:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	06/17/23 21:43	06/17/23 21:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	06/17/23 21:43	06/17/23 21:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	06/17/23 21:43	06/17/23 21:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	06/17/23 21:43	06/17/23 21:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	06/17/23 21:43	06/17/23 21:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	06/17/23 21:43	06/17/23 21:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.00	0.173		1	06/17/23 21:43	06/17/23 21:43	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.787		1	06/17/23 21:43	06/17/23 21:43	591-78-6	
Iodomethane	ND	ug/L	10.0	6.00		1	06/17/23 21:43	06/17/23 21:43	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	06/17/23 21:43	06/17/23 21:43	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430		1	06/17/23 21:43	06/17/23 21:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	06/17/23 21:43	06/17/23 21:43	108-10-1	
Styrene	ND	ug/L	1.00	0.118		1	06/17/23 21:43	06/17/23 21:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	06/17/23 21:43	06/17/23 21:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	06/17/23 21:43	06/17/23 21:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	06/17/23 21:43	06/17/23 21:43	127-18-4	
Toluene	ND	ug/L	1.00	0.278		1	06/17/23 21:43	06/17/23 21:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	06/17/23 21:43	06/17/23 21:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	06/17/23 21:43	06/17/23 21:43	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190		1	06/17/23 21:43	06/17/23 21:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	06/17/23 21:43	06/17/23 21:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	06/17/23 21:43	06/17/23 21:43	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	06/17/23 21:43	06/17/23 21:43	108-05-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 8-DK **Lab ID: 20279949005** Collected: 06/13/23 10:20 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Vinyl chloride	ND	ug/L	1.00	0.234		1	06/17/23 21:43	06/17/23 21:43	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	06/17/23 21:43	06/17/23 21:43	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	06/17/23 21:43	06/17/23 21:43	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	06/17/23 21:43	06/17/23 21:43	1330-20-7	
Acetonitrile	ND	ug/L	50.0	24.0		1	06/22/23 19:44	06/22/23 19:44	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	06/22/23 19:44	06/22/23 19:44	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	06/22/23 19:44	06/22/23 19:44	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	06/22/23 19:44	06/22/23 19:44	78-83-1	
Methacrylonitrile	ND	ug/L	50.0	14.2		1	06/22/23 19:44	06/22/23 19:44	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	06/22/23 19:44	06/22/23 19:44	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	06/22/23 19:44	06/22/23 19:44	76-01-7	
Propionitrile	ND	ug/L	50.0	16.2		1	06/22/23 19:44	06/22/23 19:44	107-12-0	
Surrogates										
Toluene-d8 (S)	99.6	%	80.0-120			1	06/22/23 19:44	06/22/23 19:44	2037-26-5	
Toluene-d8 (S)	104	%	80.0-120			1	06/17/23 21:43	06/17/23 21:43	2037-26-5	
1,2-Dichloroethane-d4 (S)	106	%	70.0-130			1	06/22/23 19:44	06/22/23 19:44	17060-07-0	
1,2-Dichloroethane-d4 (S)	108	%	70.0-130			1	06/17/23 21:43	06/17/23 21:43	17060-07-0	
4-Bromofluorobenzene (S)	84.3	%	77.0-126			1	06/22/23 19:44	06/22/23 19:44	460-00-4	
4-Bromofluorobenzene (S)	96.7	%	77.0-126			1	06/17/23 21:43	06/17/23 21:43	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	**0.028**	mg/L	0.020	0.012		1		06/20/23 09:26	18496-25-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay									
Cyanide	ND	mg/L	0.023	0.0069		1	06/26/23 08:00	06/26/23 10:15	57-12-5	
420.1 Phenolics, Total	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - New Orleans									
Phenolics, Total Recoverable	ND	mg/L	0.020	0.0093		1	07/06/23 13:13	07/07/23 10:37	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 8-I **Lab ID: 20279949006** Collected: 06/13/23 11:45 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/16/23 05:32	06/21/23 14:41	309-00-2	
alpha-BHC	ND	ug/L	0.0500	0.0172		1	06/16/23 05:32	06/21/23 14:41	319-84-6	
beta-BHC	ND	ug/L	0.0500	0.0208		1	06/16/23 05:32	06/21/23 14:41	319-85-7	
delta-BHC	ND	ug/L	0.0500	0.0150		1	06/16/23 05:32	06/21/23 14:41	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.0500	0.0209		1	06/16/23 05:32	06/21/23 14:41	58-89-9	
Chlordane (Technical)	ND	ug/L	5.00	0.0198		1	06/16/23 05:32	06/21/23 14:41	57-74-9	
4,4'-DDD	ND	ug/L	0.0500	0.0177		1	06/16/23 05:32	06/21/23 14:41	72-54-8	
4,4'-DDE	ND	ug/L	0.0500	0.0154		1	06/16/23 05:32	06/21/23 14:41	72-55-9	
4,4'-DDT	ND	ug/L	0.0500	0.0198		1	06/16/23 05:32	06/21/23 14:41	50-29-3	
Dieldrin	ND	ug/L	0.0500	0.0162		1	06/16/23 05:32	06/21/23 14:41	60-57-1	
Endosulfan I	ND	ug/L	0.0500	0.0160		1	06/16/23 05:32	06/21/23 14:41	959-98-8	
Endosulfan II	ND	ug/L	0.0500	0.0164		1	06/16/23 05:32	06/21/23 14:41	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.0500	0.0217		1	06/16/23 05:32	06/21/23 14:41	1031-07-8	
Endrin	ND	ug/L	0.0500	0.0161		1	06/16/23 05:32	06/21/23 14:41	72-20-8	
Endrin aldehyde	ND	ug/L	0.0500	0.0237		1	06/16/23 05:32	06/21/23 14:41	7421-93-4	
Heptachlor	ND	ug/L	0.0500	0.0148		1	06/16/23 05:32	06/21/23 14:41	76-44-8	
Heptachlor epoxide	ND	ug/L	0.0500	0.0183		1	06/16/23 05:32	06/21/23 14:41	1024-57-3	
Methoxychlor	ND	ug/L	0.0500	0.0193		1	06/16/23 05:32	06/21/23 14:41	72-43-5	
Toxaphene	ND	ug/L	0.500	0.168		1	06/16/23 05:32	06/21/23 14:41	8001-35-2	
Surrogates										
Decachlorobiphenyl (S)	10.9	%	10.0-128			1	06/16/23 05:32	06/21/23 14:41	2051-24-3	
Tetrachloro-m-xylene (S)	47.1	%	10.0-127			1	06/16/23 05:32	06/21/23 14:41	877-09-8	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00034		1	06/19/23 08:18	06/20/23 20:22	7440-36-0	
Arsenic	**0.022**	mg/L	0.0010	0.00010		1	06/19/23 08:18	06/20/23 20:22	7440-38-2	
Barium	**0.052**	mg/L	0.0010	0.00064		1	06/19/23 08:18	06/20/23 20:22	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00021		1	06/19/23 08:18	06/20/23 20:22	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.00019		1	06/19/23 08:18	06/20/23 20:22	7440-43-9	
Chromium	**0.00067J**	mg/L	0.0010	0.00063		1	06/19/23 08:18	06/20/23 20:22	7440-47-3	
Cobalt	**0.00025J**	mg/L	0.0010	0.00012		1	06/19/23 08:18	06/20/23 20:22	7440-48-4	
Copper	ND	mg/L	0.0030	0.0017		1	06/19/23 08:18	06/20/23 20:22	7440-50-8	
Lead	ND	mg/L	0.0010	0.00069		1	06/19/23 08:18	06/20/23 20:22	7439-92-1	
Nickel	**0.0010**	mg/L	0.0010	0.00062		1	06/19/23 08:18	06/20/23 20:22	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00026		1	06/19/23 08:18	06/20/23 20:22	7782-49-2	
Silver	ND	mg/L	0.00050	0.00020		1	06/19/23 08:18	06/20/23 20:22	7440-22-4	
Thallium	ND	mg/L	0.00050	0.00011		1	06/19/23 08:18	06/20/23 20:22	7440-28-0	
Tin	ND	mg/L	0.0060	0.00065		1	06/19/23 08:18	06/20/23 20:22	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.00023		1	06/19/23 08:18	06/20/23 20:22	7440-62-2	
Zinc	ND	mg/L	0.010	0.0072		1	06/19/23 08:18	06/20/23 20:22	7440-66-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 8-I **Lab ID: 20279949006** Collected: 06/13/23 11:45 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/16/23 06:15	06/26/23 14:21	7439-97-6	
SVOA (GC/MS) 8270 C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.363J**	ug/L	0.400	0.0447		1	06/20/23 20:51	06/21/23 04:40	123-91-1	B,J
Surrogates										
Nitrobenzene-d5 (S)	40.0	%	10.0-120			1	06/20/23 20:51	06/21/23 04:40	4165-60-0	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	**109**	ug/L	1.00	0.0886		1	06/19/23 15:05	06/20/23 07:50	83-32-9	
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/19/23 15:05	06/20/23 07:50	208-96-8	
Acetophenone	ND	ug/L	10.0	0.208		1	06/19/23 15:05	06/20/23 07:50	98-86-2	
Aniline	ND	ug/L	10.0	1.65		1	06/19/23 15:05	06/20/23 07:50	62-53-3	R1
Anthracene	**2.81**	ug/L	1.00	0.0804		1	06/19/23 15:05	06/20/23 07:50	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/19/23 15:05	06/20/23 07:50	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/19/23 15:05	06/20/23 07:50	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/19/23 15:05	06/20/23 07:50	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/19/23 15:05	06/20/23 07:50	191-24-2	
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/19/23 15:05	06/20/23 07:50	50-32-8	
Benzyl alcohol	ND	ug/L	10.0	0.563		1	06/19/23 15:05	06/20/23 07:50	100-51-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.116		1	06/19/23 15:05	06/20/23 07:50	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	0.137		1	06/19/23 15:05	06/20/23 07:50	111-44-4	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	0.210		1	06/19/23 15:05	06/20/23 07:50	108-60-1	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.0877		1	06/19/23 15:05	06/20/23 07:50	101-55-3	
4-Chloroaniline	ND	ug/L	10.0	0.234		1	06/19/23 15:05	06/20/23 07:50	106-47-8	
2-Chloronaphthalene	ND	ug/L	1.00	0.0648		1	06/19/23 15:05	06/20/23 07:50	91-58-7	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.0926		1	06/19/23 15:05	06/20/23 07:50	7005-72-3	
Chrysene	ND	ug/L	1.00	0.130		1	06/19/23 15:05	06/20/23 07:50	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.00	0.0644		1	06/19/23 15:05	06/20/23 07:50	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/19/23 15:05	06/20/23 07:50	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.0713		1	06/19/23 15:05	06/20/23 07:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.132		1	06/19/23 15:05	06/20/23 07:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.0942		1	06/19/23 15:05	06/20/23 07:50	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10.0	0.212		1	06/19/23 15:05	06/20/23 07:50	91-94-1	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.0983		1	06/19/23 15:05	06/20/23 07:50	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.250		1	06/19/23 15:05	06/20/23 07:50	606-20-2	
Fluoranthene	**1.64**	ug/L	1.00	0.102		1	06/19/23 15:05	06/20/23 07:50	206-44-0	
Fluorene	**53.1**	ug/L	1.00	0.0844		1	06/19/23 15:05	06/20/23 07:50	86-73-7	
Hexachlorobenzene	ND	ug/L	1.00	0.0755		1	06/19/23 15:05	06/20/23 07:50	118-74-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.0968		1	06/19/23 15:05	06/20/23 07:50	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 8-I **Lab ID: 20279949006** Collected: 06/13/23 11:45 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.0598		1	06/19/23 15:05	06/20/23 07:50	77-47-4	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/19/23 15:05	06/20/23 07:50	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/19/23 15:05	06/20/23 07:50	193-39-5	
Isophorone	ND	ug/L	10.0	0.143		1	06/19/23 15:05	06/20/23 07:50	78-59-1	
1-Methylnaphthalene	**124**	ug/L	1.00	0.0790		1	06/19/23 15:05	06/20/23 07:50	90-12-0	
2-Methylnaphthalene	**134**	ug/L	1.00	0.117		1	06/19/23 15:05	06/20/23 07:50	91-57-6	
2-Nitroaniline	ND	ug/L	10.0	0.102		1	06/19/23 15:05	06/20/23 07:50	88-74-4	
3-Nitroaniline	ND	ug/L	10.0	0.0869		1	06/19/23 15:05	06/20/23 07:50	99-09-2	
4-Nitroaniline	ND	ug/L	10.0	0.0910		1	06/19/23 15:05	06/20/23 07:50	100-01-6	
Naphthalene	**1.53**	ug/L	1.00	0.159		1	06/19/23 15:05	06/20/23 07:50	91-20-3	
Nitrobenzene	ND	ug/L	10.0	0.297		1	06/19/23 15:05	06/20/23 07:50	98-95-3	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.998		1	06/19/23 15:05	06/20/23 07:50	62-75-9	
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/19/23 15:05	06/20/23 07:50	86-30-6	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.261		1	06/19/23 15:05	06/20/23 07:50	621-64-7	
Phenanthrene	**43.1**	ug/L	1.00	0.112		1	06/19/23 15:05	06/20/23 07:50	85-01-8	
Pyridine	ND	ug/L	10.0	0.627		1	06/19/23 15:05	06/20/23 07:50	110-86-1	L0,R1
Butylbenzylphthalate	ND	ug/L	3.00	0.765		1	06/19/23 15:05	06/20/23 07:50	85-68-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/19/23 15:05	06/20/23 07:50	117-81-7	
Di-n-butylphthalate	ND	ug/L	3.00	0.453		1	06/19/23 15:05	06/20/23 07:50	84-74-2	
Diethylphthalate	ND	ug/L	3.00	0.287		1	06/19/23 15:05	06/20/23 07:50	84-66-2	
Dimethylphthalate	ND	ug/L	3.00	0.260		1	06/19/23 15:05	06/20/23 07:50	131-11-3	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/19/23 15:05	06/20/23 07:50	117-84-0	
Pyrene	ND	ug/L	1.00	0.107		1	06/19/23 15:05	06/20/23 07:50	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	0.0647		1	06/19/23 15:05	06/20/23 07:50	95-94-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.0698		1	06/19/23 15:05	06/20/23 07:50	120-82-1	
4-Chloro-3-methylphenol	ND	ug/L	10.0	0.131		1	06/19/23 15:05	06/20/23 07:50	59-50-7	
2-Chlorophenol	ND	ug/L	10.0	0.133		1	06/19/23 15:05	06/20/23 07:50	95-57-8	
2,4-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/19/23 15:05	06/20/23 07:50	120-83-2	
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/19/23 15:05	06/20/23 07:50	105-67-9	
4,6-Dinitro-2-methylphenol	ND	ug/L	10.0	1.12		1	06/19/23 15:05	06/20/23 07:50	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10.0	5.93		1	06/19/23 15:05	06/20/23 07:50	51-28-5	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	0.0929		1	06/19/23 15:05	06/20/23 07:50	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/19/23 15:05	06/20/23 07:50		
2-Nitrophenol	ND	ug/L	10.0	0.117		1	06/19/23 15:05	06/20/23 07:50	88-75-5	
4-Nitrophenol	ND	ug/L	10.0	0.143		1	06/19/23 15:05	06/20/23 07:50	100-02-7	
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/19/23 15:05	06/20/23 07:50	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/19/23 15:05	06/20/23 07:50	108-95-2	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	0.231		1	06/19/23 15:05	06/20/23 07:50	58-90-2	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.109		1	06/19/23 15:05	06/20/23 07:50	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	0.100		1	06/19/23 15:05	06/20/23 07:50	88-06-2	
2-Acetylaminofluorene	ND	ug/L	10.0	0.253		1	06/19/23 15:05	06/26/23 19:46	53-96-3	
4-Aminobiphenyl	ND	ug/L	10.0	0.461		1	06/19/23 15:05	06/26/23 19:46	92-67-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 8-I **Lab ID: 20279949006** Collected: 06/13/23 11:45 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Aramite	ND	ug/L	50.0	16.7		1	06/19/23 15:05	06/26/23 19:46	140-57-8	
Chlorobenzilate	ND	ug/L	50.0	3.84		1	06/19/23 15:05	06/26/23 19:46	510-15-6	
Diallate	ND	ug/L	10.0	0.524		1	06/19/23 15:05	06/26/23 19:46	2303-16-4	
2,6-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/19/23 15:05	06/26/23 19:46	87-65-0	
Dimethoate	ND	ug/L	50.0	5.05		1	06/19/23 15:05	06/26/23 19:46	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	10.0	3.69		1	06/19/23 15:05	06/26/23 19:46	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	1.71		1	06/19/23 15:05	06/26/23 19:46	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.0	3.39		1	06/19/23 15:05	06/26/23 19:46	119-93-7	
a,a-Dimethylphenylethylamine	ND	ug/L	50.0	3.13		1	06/19/23 15:05	06/26/23 19:46	122-09-8	
1,3-Dinitrobenzene	ND	ug/L	10.0	0.359		1	06/19/23 15:05	06/26/23 19:46	99-65-0	
Diphenylamine	ND	ug/L	10.0	2.37		1	06/19/23 15:05	06/20/23 07:50	122-39-4	
Dinoseb	ND	ug/L	50.0	8.01		1	06/19/23 15:05	06/26/23 19:46	88-85-7	
Ethyl methanesulfonate	ND	ug/L	10.0	0.326		1	06/19/23 15:05	06/26/23 19:46	62-50-0	
Famphur	ND	ug/L	20.0	3.92		1	06/19/23 15:05	06/26/23 19:46	52-85-7	
Hexachloropropene	ND	ug/L	50.0	0.149		1	06/19/23 15:05	06/26/23 19:46	1888-71-7	
Hexachlorophene	ND	ug/L	50.0	1.44		1	06/19/23 15:05	06/26/23 19:46	70-30-4	
Isodrin	ND	ug/L	10.0	4.11		1	06/19/23 15:05	06/26/23 19:46	465-73-6	
Isosafrole	ND	ug/L	10.0	3.88		1	06/19/23 15:05	06/26/23 19:46	120-58-1	
Kepone	ND	ug/L	20.0	2.66		1	06/19/23 15:05	06/26/23 19:46	143-50-0	
Methapyrilene	ND	ug/L	50.0	10.0		1	06/19/23 15:05	06/26/23 19:46	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.0	0.164		1	06/19/23 15:05	06/26/23 19:46	56-49-5	
Methyl methanesulfonate	ND	ug/L	50.0	3.40		1	06/19/23 15:05	06/26/23 19:46	66-27-3	
1,4-Naphthoquinone	ND	ug/L	50.0	5.56		1	06/19/23 15:05	06/26/23 19:46	130-15-4	
1-Naphthalenamine	**12.2**	ug/L	10.0	0.289		1	06/19/23 15:05	06/26/23 19:46	134-32-7	
2-Naphthalenamine	**10.9**	ug/L	10.0	4.48		1	06/19/23 15:05	06/26/23 19:46	91-59-8	
5-Nitro-o-toluidine	ND	ug/L	10.0	1.99		1	06/19/23 15:05	06/26/23 19:46	99-55-8	
4-Nitroquinoline-n-oxide	ND	ug/L	10.0	2.03		1	06/19/23 15:05	06/26/23 19:46	56-57-5	
N-Nitrosodiethylamine	ND	ug/L	10.0	3.57		1	06/19/23 15:05	06/26/23 19:46	55-18-5	
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	3.91		1	06/19/23 15:05	06/26/23 19:46	924-16-3	
N-Nitrosomethylethylamine	ND	ug/L	10.0	3.25		1	06/19/23 15:05	06/26/23 19:46	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	10.0	3.25		1	06/19/23 15:05	06/26/23 19:46	59-89-2	
N-Nitrosopiperidine	ND	ug/L	10.0	3.72		1	06/19/23 15:05	06/26/23 19:46	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.0	3.39		1	06/19/23 15:05	06/26/23 19:46	930-55-2	
Pentachlorobenzene	ND	ug/L	10.0	4.15		1	06/19/23 15:05	06/26/23 19:46	608-93-5	
Pentachloronitrobenzene	ND	ug/L	10.0	4.15		1	06/19/23 15:05	06/26/23 19:46	82-68-8	
Phenacetin	ND	ug/L	10.0	4.66		1	06/19/23 15:05	06/26/23 19:46	62-44-2	
p-Phenylenediamine	ND	ug/L	6900	387		1	06/19/23 15:05	06/26/23 19:46	106-50-3	
2-Picoline	ND	ug/L	50.0	6.83		1	06/19/23 15:05	06/26/23 19:46	109-06-8	
Pronamide	ND	ug/L	10.0	4.21		1	06/19/23 15:05	06/26/23 19:46	23950-58-5	
Safrole	ND	ug/L	10.0	3.68		1	06/19/23 15:05	06/26/23 19:46	94-59-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 8-I **Lab ID: 20279949006** Collected: 06/13/23 11:45 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	50.0	3.99		1	06/19/23 15:05	06/26/23 19:46	3689-24-5	
Thionazin	ND	ug/L	10.0	4.07		1	06/19/23 15:05	06/26/23 19:46	297-97-2	
O-Toluidine	**20.6**	ug/L	10.0	3.53		1	06/19/23 15:05	06/26/23 19:46	95-53-4	
1,3,5-Trinitrobenzene	ND	ug/L	10.0	1.32		1	06/19/23 15:05	06/26/23 19:46	99-35-4	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	2.93		1	06/19/23 15:05	06/26/23 19:46	126-68-1	
Surrogates										
2-Fluorophenol (S)	25.8	%	10.0-120			1	06/19/23 15:05	06/20/23 07:50	367-12-4	
Phenol-d5 (S)	20.3	%	10.0-120			1	06/19/23 15:05	06/20/23 07:50	4165-62-2	
Nitrobenzene-d5 (S)	60.8	%	10.0-127			1	06/19/23 15:05	06/20/23 07:50	4165-60-0	
2-Fluorobiphenyl (S)	63.4	%	10.0-130			1	06/19/23 15:05	06/20/23 07:50	321-60-8	
2,4,6-Tribromophenol (S)	54.2	%	10.0-155			1	06/19/23 15:05	06/20/23 07:50	118-79-6	
Terphenyl-d14 (S)	67.4	%	10.0-128			1	06/19/23 15:05	06/20/23 07:50	1718-51-0	
SVOA (LCMS) SW-846 8321	Analytical Method: EPA 8321 Preparation Method: 8321 Pace National - Mt. Juliet									
2,4-D	ND	ug/L	2.00	1.00		1	06/20/23 08:27	06/20/23 16:22	94-75-7	
2,4,5-T	ND	ug/L	2.00	0.573		1	06/20/23 08:27	06/20/23 16:22	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.807		1	06/20/23 08:27	06/20/23 16:22	93-72-1	
Surrogates										
2,4-DB-d3 (S)	97.0	%	70.0-130			1	06/20/23 08:27	06/20/23 16:22	1219802-46-	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	06/17/23 22:03	06/17/23 22:03	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	06/17/23 22:03	06/17/23 22:03	107-02-8	
Acrylonitrile	ND	ug/L	10.0	0.671		1	06/17/23 22:03	06/17/23 22:03	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	06/17/23 22:03	06/17/23 22:03	107-05-1	
Benzene	**1.76**	ug/L	1.00	0.0941		1	06/17/23 22:03	06/17/23 22:03	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	06/17/23 22:03	06/17/23 22:03	75-27-4	
Bromoform	ND	ug/L	1.00	0.129		1	06/17/23 22:03	06/17/23 22:03	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	06/17/23 22:03	06/17/23 22:03	74-83-9	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	06/17/23 22:03	06/17/23 22:03	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	06/17/23 22:03	06/17/23 22:03	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116		1	06/17/23 22:03	06/17/23 22:03	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140		1	06/17/23 22:03	06/17/23 22:03	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192		1	06/17/23 22:03	06/17/23 22:03	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	06/17/23 22:03	06/17/23 22:03	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	06/17/23 22:03	06/17/23 22:03	74-87-3	
Dibromomethane	ND	ug/L	1.00	0.122		1	06/17/23 22:03	06/17/23 22:03	74-95-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 8-I **Lab ID: 20279949006** Collected: 06/13/23 11:45 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	06/17/23 22:03	06/17/23 22:03	95-50-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	06/17/23 22:03	06/17/23 22:03	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	06/17/23 22:03	06/17/23 22:03	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	06/17/23 22:03	06/17/23 22:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	06/17/23 22:03	06/17/23 22:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	06/17/23 22:03	06/17/23 22:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	06/17/23 22:03	06/17/23 22:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	06/17/23 22:03	06/17/23 22:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	06/17/23 22:03	06/17/23 22:03	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	06/17/23 22:03	06/17/23 22:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	06/17/23 22:03	06/17/23 22:03	10061-02-6	
Ethylbenzene	ND	ug/L	1.00	0.173		1	06/17/23 22:03	06/17/23 22:03	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.787		1	06/17/23 22:03	06/17/23 22:03	591-78-6	
Iodomethane	ND	ug/L	10.0	6.00		1	06/17/23 22:03	06/17/23 22:03	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	06/17/23 22:03	06/17/23 22:03	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430		1	06/17/23 22:03	06/17/23 22:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	06/17/23 22:03	06/17/23 22:03	108-10-1	
Styrene	ND	ug/L	1.00	0.118		1	06/17/23 22:03	06/17/23 22:03	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	06/17/23 22:03	06/17/23 22:03	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	06/17/23 22:03	06/17/23 22:03	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	06/17/23 22:03	06/17/23 22:03	127-18-4	
Toluene	**0.345J**	ug/L	1.00	0.278		1	06/17/23 22:03	06/17/23 22:03	108-88-3	J
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	06/17/23 22:03	06/17/23 22:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	06/17/23 22:03	06/17/23 22:03	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190		1	06/17/23 22:03	06/17/23 22:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	06/17/23 22:03	06/17/23 22:03	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	06/17/23 22:03	06/17/23 22:03	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	06/17/23 22:03	06/17/23 22:03	108-05-4	
Vinyl chloride	ND	ug/L	1.00	0.234		1	06/17/23 22:03	06/17/23 22:03	75-01-4	
o-Xylene	**0.550J**	ug/L	1.00	0.174		1	06/17/23 22:03	06/17/23 22:03	95-47-6	J
m&p-Xylene	**13.2**	ug/L	2.00	0.430		1	06/17/23 22:03	06/17/23 22:03	179601-23-1	
Xylene (Total)	**13.8**	ug/L	3.00	0.174		1	06/17/23 22:03	06/17/23 22:03	1330-20-7	
Acetonitrile	ND	ug/L	50.0	24.0		1	06/21/23 17:27	06/21/23 17:27	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	06/21/23 17:27	06/21/23 17:27	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	06/21/23 17:27	06/21/23 17:27	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	06/22/23 19:54	06/22/23 19:54	78-83-1	
Methacrylonitrile	ND	ug/L	50.0	14.2		1	06/21/23 17:27	06/21/23 17:27	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	06/21/23 17:27	06/21/23 17:27	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	06/21/23 17:27	06/21/23 17:27	76-01-7	
Propionitrile	ND	ug/L	50.0	16.2		1	06/21/23 17:27	06/21/23 17:27	107-12-0	
Surrogates										
Toluene-d8 (S)	95.5	%	80.0-120			1	06/17/23 22:03	06/17/23 22:03	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 8-I **Lab ID: 20279949006** Collected: 06/13/23 11:45 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Surrogates										
Toluene-d8 (S)	94.1	%	80.0-120			1	06/21/23 17:27	06/21/23 17:27	2037-26-5	
Toluene-d8 (S)	107	%	80.0-120			1	06/22/23 19:54	06/22/23 19:54	2037-26-5	
1,2-Dichloroethane-d4 (S)	111	%	70.0-130			1	06/17/23 22:03	06/17/23 22:03	17060-07-0	
1,2-Dichloroethane-d4 (S)	128	%	70.0-130			1	06/21/23 17:27	06/21/23 17:27	17060-07-0	
1,2-Dichloroethane-d4 (S)	111	%	70.0-130			1	06/22/23 19:54	06/22/23 19:54	17060-07-0	
4-Bromofluorobenzene (S)	96.6	%	77.0-126			1	06/17/23 22:03	06/17/23 22:03	460-00-4	
4-Bromofluorobenzene (S)	91.4	%	77.0-126			1	06/21/23 17:27	06/21/23 17:27	460-00-4	
4-Bromofluorobenzene (S)	109	%	77.0-126			1	06/22/23 19:54	06/22/23 19:54	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012		1		06/20/23 09:29	18496-25-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay									
Cyanide	ND	mg/L	0.023	0.0069		1	06/26/23 08:00	06/26/23 10:15	57-12-5	
420.1 Phenolics, Total	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - New Orleans									
Phenolics, Total Recoverable	**0.22**	mg/L	0.020	0.0093		1	07/06/23 13:13	07/07/23 10:37	64743-03-9	

Sample: 9-1 **Lab ID: 20279949007** Collected: 06/13/23 12:30 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
EDB / DBCP 8011	Analytical Method: EPA 8011 Preparation Method: 8011/504.1 Pace National - Mt. Juliet									
1,2-Dibromoethane (EDB)	ND	ug/L	0.0202	0.00541		1.01	06/20/23 06:55	06/20/23 16:16	106-93-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	0.0202	0.00755		1.01	06/20/23 06:55	06/20/23 16:16	96-12-8	
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/16/23 05:32	06/21/23 14:50	309-00-2	
alpha-BHC	ND	ug/L	0.0500	0.0172		1	06/16/23 05:32	06/21/23 14:50	319-84-6	
beta-BHC	ND	ug/L	0.0500	0.0208		1	06/16/23 05:32	06/21/23 14:50	319-85-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 9-1 **Lab ID: 20279949007** Collected: 06/13/23 12:30 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
delta-BHC	ND	ug/L	0.0500	0.0150		1	06/16/23 05:32	06/21/23 14:50	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.0500	0.0209		1	06/16/23 05:32	06/21/23 14:50	58-89-9	
Chlordane (Technical)	ND	ug/L	5.00	0.0198		1	06/16/23 05:32	06/21/23 14:50	57-74-9	
4,4'-DDD	ND	ug/L	0.0500	0.0177		1	06/16/23 05:32	06/21/23 14:50	72-54-8	
4,4'-DDE	ND	ug/L	0.0500	0.0154		1	06/16/23 05:32	06/21/23 14:50	72-55-9	
4,4'-DDT	ND	ug/L	0.0500	0.0198		1	06/16/23 05:32	06/21/23 14:50	50-29-3	
Dieldrin	ND	ug/L	0.0500	0.0162		1	06/16/23 05:32	06/21/23 14:50	60-57-1	
Endosulfan I	**0.0187J**	ug/L	0.0500	0.0160		1	06/16/23 05:32	06/21/23 14:50	959-98-8	J,P9
Endosulfan II	ND	ug/L	0.0500	0.0164		1	06/16/23 05:32	06/21/23 14:50	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.0500	0.0217		1	06/16/23 05:32	06/21/23 14:50	1031-07-8	
Endrin	ND	ug/L	0.0500	0.0161		1	06/16/23 05:32	06/21/23 14:50	72-20-8	
Endrin aldehyde	ND	ug/L	0.0500	0.0237		1	06/16/23 05:32	06/21/23 14:50	7421-93-4	
Heptachlor	ND	ug/L	0.0500	0.0148		1	06/16/23 05:32	06/21/23 14:50	76-44-8	
Heptachlor epoxide	ND	ug/L	0.0500	0.0183		1	06/16/23 05:32	06/21/23 14:50	1024-57-3	
Methoxychlor	ND	ug/L	0.0500	0.0193		1	06/16/23 05:32	06/21/23 14:50	72-43-5	
Toxaphene	ND	ug/L	0.500	0.168		1	06/16/23 05:32	06/21/23 14:50	8001-35-2	
Surrogates										
Decachlorobiphenyl (S)	6.12	%	10.0-128			1	06/16/23 05:32	06/21/23 14:50	2051-24-3	SR
Tetrachloro-m-xylene (S)	29.4	%	10.0-127			1	06/16/23 05:32	06/21/23 14:50	877-09-8	
OP Pesticides 8141	Analytical Method: EPA 8141 Preparation Method: 3510C Pace National - Mt. Juliet									
Azinphos, methyl (Guthion)	ND	ug/L	1.00	0.534		1	06/18/23 08:29	06/19/23 14:12	86-50-0	
Bolstar	ND	ug/L	1.00	0.214		1	06/18/23 08:29	06/19/23 14:12	35400-43-2	
Chlorpyrifos	ND	ug/L	1.00	0.320		1	06/18/23 08:29	06/19/23 14:12	2921-88-2	
Coumaphos	ND	ug/L	1.00	0.410		1	06/18/23 08:29	06/19/23 14:12	56-72-4	
Total Demeton	ND	ug/L	2.00	0.626		1	06/18/23 08:29	06/19/23 14:12	8065-48-3	
Diazinon	ND	ug/L	1.00	0.302		1	06/18/23 08:29	06/19/23 14:12	333-41-5	
Dichlorvos	ND	ug/L	2.00	0.196		1	06/18/23 08:29	06/19/23 14:12	62-73-7	
Dimethoate	ND	ug/L	1.00	0.327		1	06/18/23 08:29	06/19/23 14:12	60-51-5	
Disulfoton	ND	ug/L	1.00	0.227		1	06/18/23 08:29	06/19/23 14:12	298-04-4	
EPN (ENT)	ND	ug/L	1.00	0.129		1	06/18/23 08:29	06/19/23 14:12	2104-64-5	
Ethoprop	ND	ug/L	1.00	0.293		1	06/18/23 08:29	06/19/23 14:12	13194-48-4	
Parathion (Ethyl parathion)	ND	ug/L	1.00	0.454		1	06/18/23 08:29	06/19/23 14:12	56-38-2	
Fensulfothion	ND	ug/L	2.00	0.405		1	06/18/23 08:29	06/19/23 14:12	115-90-2	
Fenthion	ND	ug/L	1.00	0.213		1	06/18/23 08:29	06/19/23 14:12	55-38-9	
Malathion	ND	ug/L	1.00	0.354		1	06/18/23 08:29	06/19/23 14:12	121-75-5	
Merphos	ND	ug/L	2.00	1.32		1	06/18/23 08:29	06/19/23 14:12	150-50-5	
Methyl parathion	ND	ug/L	1.00	0.383		1	06/18/23 08:29	06/19/23 14:12	298-00-0	
Mevinphos	ND	ug/L	1.00	0.275		1	06/18/23 08:29	06/19/23 14:12	7786-34-7	
Naled	ND	ug/L	1.00	0.594		1	06/18/23 08:29	06/19/23 14:12	300-76-5	
Phorate	ND	ug/L	1.00	0.276		1	06/18/23 08:29	06/19/23 14:12	298-02-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 9-1 **Lab ID: 20279949007** Collected: 06/13/23 12:30 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
OP Pesticides 8141	Analytical Method: EPA 8141 Preparation Method: 3510C Pace National - Mt. Juliet									
Ronnel	ND	ug/L	1.00	0.277		1	06/18/23 08:29	06/19/23 14:12	299-84-3	
Stirophos (Tetrachlorvinphos)	ND	ug/L	1.00	0.277		1	06/18/23 08:29	06/19/23 14:12	22248-79-9	
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	1.00	0.181		1	06/18/23 08:29	06/19/23 14:12	3689-24-5	
TEPP	ND	ug/L	10.0	3.11		1	06/18/23 08:29	06/19/23 14:12	107-49-3	
Tokuthion (Prothiofos)	ND	ug/L	1.00	0.241		1	06/18/23 08:29	06/19/23 14:12	34643-46-4	
Trichloronate	ND	ug/L	1.00	0.306		1	06/18/23 08:29	06/19/23 14:12	327-98-0	
Surrogates										
Triphenylphosphate (S)	75.2	%	42.0-129			1	06/18/23 08:29	06/19/23 14:12	115-86-6	
EPA 8082A	Analytical Method: EPA 8082 Preparation Method: EPA 3510C Pace Analytical Gulf Coast									
PCB-1016 (Aroclor 1016)	ND	ug/L	0.505	0.202		1	06/16/23 05:00	06/23/23 21:30	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	1.01	0.404		1	06/16/23 05:00	06/23/23 21:30	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.505	0.202		1	06/16/23 05:00	06/23/23 21:30	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.505	0.202		1	06/16/23 05:00	06/23/23 21:30	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.505	0.202		1	06/16/23 05:00	06/23/23 21:30	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.505	0.202		1	06/16/23 05:00	06/23/23 21:30	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.505	0.202		1	06/16/23 05:00	06/23/23 21:30	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/L	0.505	0.202		1	06/16/23 05:00	06/23/23 21:30	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/L	1.01	0.303		1	06/16/23 05:00	06/23/23 21:30	11100-14-4	
PCB, Total	ND	ug/L	1.01	0.404		1	06/16/23 05:00	06/23/23 21:30	1336-36-3	
Surrogates										
Decachlorobiphenyl (S)	66	%	30-139			1	06/16/23 05:00	06/23/23 21:30	2051-24-3	
Tetrachloro-m-xylene (S)	53	%	48-137			1	06/16/23 05:00	06/23/23 21:30	877-09-8	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	**0.0011**	mg/L	0.0010	0.00034		1	06/19/23 08:18	06/20/23 20:28	7440-36-0	
Arsenic	**0.0014**	mg/L	0.0010	0.00010		1	06/19/23 08:18	06/20/23 20:28	7440-38-2	
Barium	**0.016**	mg/L	0.0010	0.00064		1	06/19/23 08:18	06/20/23 20:28	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00021		1	06/19/23 08:18	06/20/23 20:28	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.00019		1	06/19/23 08:18	06/20/23 20:28	7440-43-9	
Chromium	**0.00095J**	mg/L	0.0010	0.00063		1	06/19/23 08:18	06/20/23 20:28	7440-47-3	
Cobalt	**0.00023J**	mg/L	0.0010	0.00012		1	06/19/23 08:18	06/20/23 20:28	7440-48-4	
Copper	**0.0040**	mg/L	0.0030	0.0017		1	06/19/23 08:18	06/20/23 20:28	7440-50-8	
Lead	ND	mg/L	0.0010	0.00069		1	06/19/23 08:18	06/20/23 20:28	7439-92-1	
Nickel	**0.0044**	mg/L	0.0010	0.00062		1	06/19/23 08:18	06/20/23 20:28	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00026		1	06/19/23 08:18	06/20/23 20:28	7782-49-2	
Silver	ND	mg/L	0.00050	0.00020		1	06/19/23 08:18	06/20/23 20:28	7440-22-4	
Thallium	ND	mg/L	0.00050	0.00011		1	06/19/23 08:18	06/20/23 20:28	7440-28-0	
Tin	ND	mg/L	0.0060	0.00065		1	06/19/23 08:18	06/20/23 20:28	7440-31-5	
Vanadium	**0.0027J**	mg/L	0.0050	0.00023		1	06/19/23 08:18	06/20/23 20:28	7440-62-2	
Zinc	**0.014**	mg/L	0.010	0.0072		1	06/19/23 08:18	06/20/23 20:28	7440-66-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
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ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 9-1 **Lab ID: 20279949007** Collected: 06/13/23 12:30 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/16/23 06:15	06/26/23 14:23	7439-97-6	
SVOA (GC/MS) 8270 C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.230J**	ug/L	0.400	0.0447		1	06/20/23 20:51	06/21/23 05:00	123-91-1	B,J
Surrogates										
Nitrobenzene-d5 (S)	29.2	%	10.0-120			1	06/20/23 20:51	06/21/23 05:00	4165-60-0	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	ND	ug/L	1.00	0.0886		1	06/19/23 15:05	06/20/23 04:12	83-32-9	
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/19/23 15:05	06/20/23 04:12	208-96-8	
Acetophenone	**0.224J**	ug/L	10.0	0.208		1	06/19/23 15:05	06/20/23 04:12	98-86-2	J
Aniline	ND	ug/L	10.0	1.65		1	06/19/23 15:05	06/20/23 04:12	62-53-3	R1
Anthracene	ND	ug/L	1.00	0.0804		1	06/19/23 15:05	06/20/23 04:12	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/19/23 15:05	06/20/23 04:12	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/19/23 15:05	06/20/23 04:12	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/19/23 15:05	06/20/23 04:12	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/19/23 15:05	06/20/23 04:12	191-24-2	
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/19/23 15:05	06/20/23 04:12	50-32-8	
Benzyl alcohol	ND	ug/L	10.0	0.563		1	06/19/23 15:05	06/20/23 04:12	100-51-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.116		1	06/19/23 15:05	06/20/23 04:12	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	0.137		1	06/19/23 15:05	06/20/23 04:12	111-44-4	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	0.210		1	06/19/23 15:05	06/20/23 04:12	108-60-1	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.0877		1	06/19/23 15:05	06/20/23 04:12	101-55-3	
4-Chloroaniline	ND	ug/L	10.0	0.234		1	06/19/23 15:05	06/20/23 04:12	106-47-8	
2-Chloronaphthalene	ND	ug/L	1.00	0.0648		1	06/19/23 15:05	06/20/23 04:12	91-58-7	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.0926		1	06/19/23 15:05	06/20/23 04:12	7005-72-3	
Chrysene	ND	ug/L	1.00	0.130		1	06/19/23 15:05	06/20/23 04:12	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.00	0.0644		1	06/19/23 15:05	06/20/23 04:12	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/19/23 15:05	06/20/23 04:12	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.0713		1	06/19/23 15:05	06/20/23 04:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.132		1	06/19/23 15:05	06/20/23 04:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.0942		1	06/19/23 15:05	06/20/23 04:12	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10.0	0.212		1	06/19/23 15:05	06/20/23 04:12	91-94-1	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.0983		1	06/19/23 15:05	06/20/23 04:12	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.250		1	06/19/23 15:05	06/20/23 04:12	606-20-2	
Fluoranthene	ND	ug/L	1.00	0.102		1	06/19/23 15:05	06/20/23 04:12	206-44-0	
Fluorene	ND	ug/L	1.00	0.0844		1	06/19/23 15:05	06/20/23 04:12	86-73-7	
Hexachlorobenzene	ND	ug/L	1.00	0.0755		1	06/19/23 15:05	06/20/23 04:12	118-74-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.0968		1	06/19/23 15:05	06/20/23 04:12	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 9-1 **Lab ID: 20279949007** Collected: 06/13/23 12:30 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.0598		1	06/19/23 15:05	06/20/23 04:12	77-47-4	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/19/23 15:05	06/20/23 04:12	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/19/23 15:05	06/20/23 04:12	193-39-5	
Isophorone	ND	ug/L	10.0	0.143		1	06/19/23 15:05	06/20/23 04:12	78-59-1	
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/19/23 15:05	06/20/23 04:12	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/19/23 15:05	06/20/23 04:12	91-57-6	
2-Nitroaniline	ND	ug/L	10.0	0.102		1	06/19/23 15:05	06/20/23 04:12	88-74-4	
3-Nitroaniline	ND	ug/L	10.0	0.0869		1	06/19/23 15:05	06/20/23 04:12	99-09-2	
4-Nitroaniline	ND	ug/L	10.0	0.0910		1	06/19/23 15:05	06/20/23 04:12	100-01-6	
Naphthalene	ND	ug/L	1.00	0.159		1	06/19/23 15:05	06/20/23 04:12	91-20-3	
Nitrobenzene	ND	ug/L	10.0	0.297		1	06/19/23 15:05	06/20/23 04:12	98-95-3	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.998		1	06/19/23 15:05	06/20/23 04:12	62-75-9	
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/19/23 15:05	06/20/23 04:12	86-30-6	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.261		1	06/19/23 15:05	06/20/23 04:12	621-64-7	
Phenanthrene	ND	ug/L	1.00	0.112		1	06/19/23 15:05	06/20/23 04:12	85-01-8	
Pyridine	ND	ug/L	10.0	0.627		1	06/19/23 15:05	06/20/23 04:12	110-86-1	L0,R1
Butylbenzylphthalate	ND	ug/L	3.00	0.765		1	06/19/23 15:05	06/20/23 04:12	85-68-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/19/23 15:05	06/20/23 04:12	117-81-7	
Di-n-butylphthalate	ND	ug/L	3.00	0.453		1	06/19/23 15:05	06/20/23 04:12	84-74-2	
Diethylphthalate	**0.721J**	ug/L	3.00	0.287		1	06/19/23 15:05	06/20/23 04:12	84-66-2	B,J
Dimethylphthalate	ND	ug/L	3.00	0.260		1	06/19/23 15:05	06/20/23 04:12	131-11-3	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/19/23 15:05	06/20/23 04:12	117-84-0	
Pyrene	ND	ug/L	1.00	0.107		1	06/19/23 15:05	06/20/23 04:12	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	0.0647		1	06/19/23 15:05	06/20/23 04:12	95-94-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.0698		1	06/19/23 15:05	06/20/23 04:12	120-82-1	
4-Chloro-3-methylphenol	ND	ug/L	10.0	0.131		1	06/19/23 15:05	06/20/23 04:12	59-50-7	
2-Chlorophenol	ND	ug/L	10.0	0.133		1	06/19/23 15:05	06/20/23 04:12	95-57-8	
2,4-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/19/23 15:05	06/20/23 04:12	120-83-2	
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/19/23 15:05	06/20/23 04:12	105-67-9	
4,6-Dinitro-2-methylphenol	ND	ug/L	10.0	1.12		1	06/19/23 15:05	06/20/23 04:12	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10.0	5.93		1	06/19/23 15:05	06/20/23 04:12	51-28-5	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	0.0929		1	06/19/23 15:05	06/20/23 04:12	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/19/23 15:05	06/20/23 04:12		
2-Nitrophenol	ND	ug/L	10.0	0.117		1	06/19/23 15:05	06/20/23 04:12	88-75-5	
4-Nitrophenol	ND	ug/L	10.0	0.143		1	06/19/23 15:05	06/20/23 04:12	100-02-7	
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/19/23 15:05	06/20/23 04:12	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/19/23 15:05	06/20/23 04:12	108-95-2	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	0.231		1	06/19/23 15:05	06/20/23 04:12	58-90-2	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.109		1	06/19/23 15:05	06/20/23 04:12	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	0.100		1	06/19/23 15:05	06/20/23 04:12	88-06-2	
2-Acetylaminofluorene	ND	ug/L	10.0	0.253		1	06/27/23 19:40	06/28/23 17:33	53-96-3	H1
4-Aminobiphenyl	ND	ug/L	10.0	0.461		1	06/27/23 19:40	06/28/23 17:33	92-67-1	H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 9-1 **Lab ID: 20279949007** Collected: 06/13/23 12:30 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Aramite	ND	ug/L	50.0	16.7		1	06/27/23 19:40	06/28/23 17:33	140-57-8	H1
Chlorobenzilate	ND	ug/L	50.0	3.84		1	06/27/23 19:40	06/28/23 17:33	510-15-6	H1
Diallate	ND	ug/L	10.0	0.524		1	06/27/23 19:40	06/28/23 17:33	2303-16-4	H1
2,6-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/27/23 19:40	06/28/23 17:33	87-65-0	H1
Dimethoate	ND	ug/L	50.0	5.05		1	06/27/23 19:40	06/28/23 17:33	60-51-5	H1
P-Dimethylaminoazobenzene	ND	ug/L	10.0	3.69		1	06/27/23 19:40	06/28/23 17:33	60-11-7	H1
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	1.71		1	06/27/23 19:40	06/28/23 17:33	57-97-6	H1
3,3'-Dimethylbenzidine	ND	ug/L	10.0	3.39		1	06/27/23 19:40	06/28/23 17:33	119-93-7	H1,L0
a,a-Dimethylphenylethylamine	ND	ug/L	50.0	3.13		1	06/27/23 19:40	06/28/23 17:33	122-09-8	H1,L0
1,3-Dinitrobenzene	ND	ug/L	10.0	0.359		1	06/27/23 19:40	06/28/23 17:33	99-65-0	H1
Diphenylamine	ND	ug/L	10.0	2.37		1	06/19/23 15:05	06/20/23 04:12	122-39-4	
Dinoseb	ND	ug/L	50.0	8.01		1	06/27/23 19:40	06/28/23 17:33	88-85-7	H1
Ethyl methanesulfonate	ND	ug/L	10.0	0.326		1	06/27/23 19:40	06/28/23 17:33	62-50-0	H1
Famphur	ND	ug/L	20.0	3.92		1	06/27/23 19:40	06/28/23 17:33	52-85-7	H1
Hexachloropropene	ND	ug/L	50.0	0.149		1	06/27/23 19:40	06/28/23 17:33	1888-71-7	H1
Hexachlorophene	ND	ug/L	50.0	1.44		1	06/27/23 19:40	06/28/23 17:33	70-30-4	H1
Isodrin	ND	ug/L	10.0	4.11		1	06/27/23 19:40	06/28/23 17:33	465-73-6	H1
Isosafrole	ND	ug/L	10.0	3.88		1	06/27/23 19:40	06/28/23 17:33	120-58-1	H1
Kepone	ND	ug/L	20.0	2.66		1	06/27/23 19:40	06/28/23 17:33	143-50-0	H1
Methapyrilene	ND	ug/L	50.0	10.0		1	06/27/23 19:40	06/28/23 17:33	91-80-5	H1,L0
3-Methylcholanthrene	ND	ug/L	10.0	0.164		1	06/27/23 19:40	06/28/23 17:33	56-49-5	H1
Methyl methanesulfonate	ND	ug/L	50.0	3.40		1	06/27/23 19:40	06/28/23 17:33	66-27-3	H1
1,4-Naphthoquinone	ND	ug/L	50.0	5.56		1	06/27/23 19:40	06/28/23 17:33	130-15-4	H1,L0
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/27/23 19:40	06/28/23 17:33	134-32-7	H1
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/27/23 19:40	06/28/23 17:33	91-59-8	H1
5-Nitro-o-toluidine	ND	ug/L	10.0	1.99		1	06/27/23 19:40	06/28/23 17:33	99-55-8	H1
4-Nitroquinoline-n-oxide	ND	ug/L	10.0	2.03		1	06/27/23 19:40	06/28/23 17:33	56-57-5	H1
N-Nitrosodiethylamine	ND	ug/L	10.0	3.57		1	06/27/23 19:40	06/28/23 17:33	55-18-5	H1
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	3.91		1	06/27/23 19:40	06/28/23 17:33	924-16-3	H1
N-Nitrosomethylethylamine	ND	ug/L	10.0	3.25		1	06/27/23 19:40	06/28/23 17:33	10595-95-6	H1
N-Nitrosomorpholine	ND	ug/L	10.0	3.25		1	06/27/23 19:40	06/28/23 17:33	59-89-2	H1
N-Nitrosopiperidine	ND	ug/L	10.0	3.72		1	06/27/23 19:40	06/28/23 17:33	100-75-4	H1
N-Nitrosopyrrolidine	ND	ug/L	10.0	3.39		1	06/27/23 19:40	06/28/23 17:33	930-55-2	H1
Pentachlorobenzene	ND	ug/L	10.0	4.15		1	06/27/23 19:40	06/28/23 17:33	608-93-5	H1
Pentachloronitrobenzene	ND	ug/L	10.0	4.15		1	06/27/23 19:40	06/28/23 17:33	82-68-8	H1
Phenacetin	ND	ug/L	10.0	4.66		1	06/27/23 19:40	06/28/23 17:33	62-44-2	H1
p-Phenylenediamine	ND	ug/L	6900	387		1	06/27/23 19:40	06/28/23 17:33	106-50-3	H1,L0
2-Picoline	ND	ug/L	50.0	6.83		1	06/27/23 19:40	06/28/23 17:33	109-06-8	H1,L0
Pronamide	ND	ug/L	10.0	4.21		1	06/27/23 19:40	06/28/23 17:33	23950-58-5	H1
Safrole	ND	ug/L	10.0	3.68		1	06/27/23 19:40	06/28/23 17:33	94-59-7	H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 9-1 **Lab ID: 20279949007** Collected: 06/13/23 12:30 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	50.0	3.99		1	06/27/23 19:40	06/28/23 17:33	3689-24-5	H1
Thionazin	ND	ug/L	10.0	4.07		1	06/27/23 19:40	06/28/23 17:33	297-97-2	H1
O-Toluidine	ND	ug/L	10.0	3.53		1	06/27/23 19:40	06/28/23 17:33	95-53-4	H1
1,3,5-Trinitrobenzene	ND	ug/L	10.0	1.32		1	06/27/23 19:40	06/28/23 17:33	99-35-4	H1
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	2.93		1	06/27/23 19:40	06/28/23 17:33	126-68-1	H1
Surrogates										
2-Fluorophenol (S)	24.9	%	10.0-120			1	06/19/23 15:05	06/20/23 04:12	367-12-4	
Phenol-d5 (S)	19.8	%	10.0-120			1	06/19/23 15:05	06/20/23 04:12	4165-62-2	
Nitrobenzene-d5 (S)	64.3	%	10.0-127			1	06/19/23 15:05	06/20/23 04:12	4165-60-0	
2-Fluorobiphenyl (S)	62.9	%	10.0-130			1	06/19/23 15:05	06/20/23 04:12	321-60-8	
2,4,6-Tribromophenol (S)	43.1	%	10.0-155			1	06/19/23 15:05	06/20/23 04:12	118-79-6	
Terphenyl-d14 (S)	61.0	%	10.0-128			1	06/19/23 15:05	06/20/23 04:12	1718-51-0	
SVOA (LCMS) SW-846 8321	Analytical Method: EPA 8321 Preparation Method: 8321 Pace National - Mt. Juliet									
2,4-D	ND	ug/L	2.00	1.00		1	06/20/23 08:27	06/20/23 16:40	94-75-7	
2,4,5-T	ND	ug/L	2.00	0.573		1	06/20/23 08:27	06/20/23 16:40	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.807		1	06/20/23 08:27	06/20/23 16:40	93-72-1	
Surrogates										
2,4-DB-d3 (S)	100	%	70.0-130			1	06/20/23 08:27	06/20/23 16:40	1219802-46-	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	**71.6**	ug/L	50.0	11.3		1	06/17/23 22:23	06/17/23 22:23	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	06/17/23 22:23	06/17/23 22:23	107-02-8	
Acrylonitrile	ND	ug/L	10.0	0.671		1	06/17/23 22:23	06/17/23 22:23	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	06/17/23 22:23	06/17/23 22:23	107-05-1	
Benzene	ND	ug/L	1.00	0.0941		1	06/17/23 22:23	06/17/23 22:23	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	06/17/23 22:23	06/17/23 22:23	75-27-4	
Bromoform	ND	ug/L	1.00	0.129		1	06/17/23 22:23	06/17/23 22:23	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	06/17/23 22:23	06/17/23 22:23	74-83-9	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	06/17/23 22:23	06/17/23 22:23	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	06/17/23 22:23	06/17/23 22:23	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116		1	06/17/23 22:23	06/17/23 22:23	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140		1	06/17/23 22:23	06/17/23 22:23	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192		1	06/17/23 22:23	06/17/23 22:23	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	06/17/23 22:23	06/17/23 22:23	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	06/17/23 22:23	06/17/23 22:23	74-87-3	
Dibromomethane	ND	ug/L	1.00	0.122		1	06/17/23 22:23	06/17/23 22:23	74-95-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 9-1 **Lab ID: 20279949007** Collected: 06/13/23 12:30 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	06/17/23 22:23	06/17/23 22:23	95-50-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	06/17/23 22:23	06/17/23 22:23	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	06/17/23 22:23	06/17/23 22:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	06/17/23 22:23	06/17/23 22:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	06/17/23 22:23	06/17/23 22:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	06/17/23 22:23	06/17/23 22:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	06/17/23 22:23	06/17/23 22:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	06/17/23 22:23	06/17/23 22:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	06/17/23 22:23	06/17/23 22:23	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	06/17/23 22:23	06/17/23 22:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	06/17/23 22:23	06/17/23 22:23	10061-02-6	
Ethylbenzene	ND	ug/L	1.00	0.173		1	06/17/23 22:23	06/17/23 22:23	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.787		1	06/17/23 22:23	06/17/23 22:23	591-78-6	
Iodomethane	ND	ug/L	10.0	6.00		1	06/17/23 22:23	06/17/23 22:23	74-88-4	
2-Butanone (MEK)	**6.11J**	ug/L	10.0	1.19		1	06/17/23 22:23	06/17/23 22:23	78-93-3	J
Methylene Chloride	ND	ug/L	5.00	0.430		1	06/17/23 22:23	06/17/23 22:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	**5.22J**	ug/L	10.0	0.478		1	06/17/23 22:23	06/17/23 22:23	108-10-1	J
Styrene	ND	ug/L	1.00	0.118		1	06/17/23 22:23	06/17/23 22:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	06/17/23 22:23	06/17/23 22:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	06/17/23 22:23	06/17/23 22:23	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	06/17/23 22:23	06/17/23 22:23	127-18-4	
Toluene	ND	ug/L	1.00	0.278		1	06/17/23 22:23	06/17/23 22:23	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	06/17/23 22:23	06/17/23 22:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	06/17/23 22:23	06/17/23 22:23	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190		1	06/17/23 22:23	06/17/23 22:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	06/17/23 22:23	06/17/23 22:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	06/17/23 22:23	06/17/23 22:23	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	06/17/23 22:23	06/17/23 22:23	108-05-4	
Vinyl chloride	ND	ug/L	1.00	0.234		1	06/17/23 22:23	06/17/23 22:23	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	06/17/23 22:23	06/17/23 22:23	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	06/17/23 22:23	06/17/23 22:23	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	06/17/23 22:23	06/17/23 22:23	1330-20-7	
Acetonitrile	ND	ug/L	50.0	24.0		1	06/21/23 20:05	06/21/23 20:05	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	06/21/23 20:05	06/21/23 20:05	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	06/21/23 20:05	06/21/23 20:05	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	06/22/23 20:14	06/22/23 20:14	78-83-1	G3
Methacrylonitrile	ND	ug/L	50.0	14.2		1	06/21/23 20:05	06/21/23 20:05	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	06/21/23 20:05	06/21/23 20:05	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	06/21/23 20:05	06/21/23 20:05	76-01-7	
Propionitrile	ND	ug/L	50.0	16.2		1	06/21/23 20:05	06/21/23 20:05	107-12-0	
Surrogates										
Toluene-d8 (S)	99.9	%	80.0-120			1	06/17/23 22:23	06/17/23 22:23	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 9-1 **Lab ID: 20279949007** Collected: 06/13/23 12:30 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B		Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet								
Surrogates										
Toluene-d8 (S)	96.7	%	80.0-120			1	06/21/23 20:05	06/21/23 20:05	2037-26-5	
Toluene-d8 (S)	106	%	80.0-120			1	06/22/23 20:14	06/22/23 20:14	2037-26-5	
1,2-Dichloroethane-d4 (S)	105	%	70.0-130			1	06/17/23 22:23	06/17/23 22:23	17060-07-0	
1,2-Dichloroethane-d4 (S)	128	%	70.0-130			1	06/21/23 20:05	06/21/23 20:05	17060-07-0	
1,2-Dichloroethane-d4 (S)	111	%	70.0-130			1	06/22/23 20:14	06/22/23 20:14	17060-07-0	
4-Bromofluorobenzene (S)	95.8	%	77.0-126			1	06/17/23 22:23	06/17/23 22:23	460-00-4	
4-Bromofluorobenzene (S)	87.8	%	77.0-126			1	06/21/23 20:05	06/21/23 20:05	460-00-4	
4-Bromofluorobenzene (S)	105	%	77.0-126			1	06/22/23 20:14	06/22/23 20:14	460-00-4	
4500S2D Sulfide, Total		Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans								
Sulfide, Total	**0.018J**	mg/L	0.020	0.012		1		06/20/23 09:29	18496-25-8	
335.4 Cyanide, Total		Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay								
Cyanide	ND	mg/L	0.023	0.0069		1	06/26/23 08:00	06/26/23 10:16	57-12-5	
420.1 Phenolics, Total		Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - New Orleans								
Phenolics, Total Recoverable	**0.031**	mg/L	0.020	0.0093		1	07/06/23 10:15	07/06/23 14:43	64743-03-9	

Sample: 8-S **Lab ID: 20279949008** Collected: 06/13/23 10:40 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081		Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet								
Aldrin	ND	ug/L	0.0500	0.0198		1	06/16/23 05:32	06/17/23 01:34	309-00-2	
alpha-BHC	ND	ug/L	0.0500	0.0172		1	06/16/23 05:32	06/17/23 01:34	319-84-6	
beta-BHC	ND	ug/L	0.0500	0.0208		1	06/16/23 05:32	06/17/23 01:34	319-85-7	
delta-BHC	ND	ug/L	0.0500	0.0150		1	06/16/23 05:32	06/17/23 01:34	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.0500	0.0209		1	06/16/23 05:32	06/17/23 01:34	58-89-9	
Chlordane (Technical)	ND	ug/L	5.00	0.0198		1	06/16/23 05:32	06/17/23 01:34	57-74-9	
4,4'-DDD	ND	ug/L	0.0500	0.0177		1	06/16/23 05:32	06/17/23 01:34	72-54-8	
4,4'-DDE	ND	ug/L	0.0500	0.0154		1	06/16/23 05:32	06/17/23 01:34	72-55-9	
4,4'-DDT	ND	ug/L	0.0500	0.0198		1	06/16/23 05:32	06/17/23 01:34	50-29-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 8-S **Lab ID: 20279949008** Collected: 06/13/23 10:40 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Dieldrin	ND	ug/L	0.0500	0.0162		1	06/16/23 05:32	06/17/23 01:34	60-57-1	
Endosulfan I	ND	ug/L	0.0500	0.0160		1	06/16/23 05:32	06/17/23 01:34	959-98-8	
Endosulfan II	ND	ug/L	0.0500	0.0164		1	06/16/23 05:32	06/17/23 01:34	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.0500	0.0217		1	06/16/23 05:32	06/17/23 01:34	1031-07-8	
Endrin	ND	ug/L	0.0500	0.0161		1	06/16/23 05:32	06/17/23 01:34	72-20-8	
Endrin aldehyde	ND	ug/L	0.0500	0.0237		1	06/16/23 05:32	06/17/23 01:34	7421-93-4	
Endrin ketone	ND	ug/L	0.0500	0.0219		1	06/16/23 05:32	06/17/23 01:34	53494-70-5	
Hexachlorobenzene	ND	ug/L	0.0500	0.0176		1	06/16/23 05:32	06/17/23 01:34	118-74-1	
Heptachlor	ND	ug/L	0.0500	0.0148		1	06/16/23 05:32	06/17/23 01:34	76-44-8	
Heptachlor epoxide	ND	ug/L	0.0500	0.0183		1	06/16/23 05:32	06/17/23 01:34	1024-57-3	
Methoxychlor	ND	ug/L	0.0500	0.0193		1	06/16/23 05:32	06/17/23 01:34	72-43-5	
Toxaphene	ND	ug/L	0.500	0.168		1	06/16/23 05:32	06/17/23 01:34	8001-35-2	
Surrogates										
Decachlorobiphenyl (S)	33.2	%	10.0-128			1	06/16/23 05:32	06/17/23 01:34	2051-24-3	
Tetrachloro-m-xylene (S)	49.3	%	10.0-127			1	06/16/23 05:32	06/17/23 01:34	877-09-8	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	**0.00042J**	mg/L	0.0010	0.00034		1	06/19/23 08:18	06/20/23 20:34	7440-36-0	
Arsenic	**0.00046J**	mg/L	0.0010	0.00010		1	06/19/23 08:18	06/20/23 20:34	7440-38-2	
Barium	**0.072**	mg/L	0.0010	0.00064		1	06/19/23 08:18	06/20/23 20:34	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00021		1	06/19/23 08:18	06/20/23 20:34	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.00019		1	06/19/23 08:18	06/20/23 20:34	7440-43-9	
Chromium	ND	mg/L	0.0010	0.00063		1	06/19/23 08:18	06/20/23 20:34	7440-47-3	
Cobalt	**0.00014J**	mg/L	0.0010	0.00012		1	06/19/23 08:18	06/20/23 20:34	7440-48-4	
Copper	ND	mg/L	0.0030	0.0017		1	06/19/23 08:18	06/20/23 20:34	7440-50-8	
Lead	ND	mg/L	0.0010	0.00069		1	06/19/23 08:18	06/20/23 20:34	7439-92-1	
Nickel	ND	mg/L	0.0010	0.00062		1	06/19/23 08:18	06/20/23 20:34	7440-02-0	
Selenium	**0.0054**	mg/L	0.0010	0.00026		1	06/19/23 08:18	06/20/23 20:34	7782-49-2	
Silver	ND	mg/L	0.00050	0.00020		1	06/19/23 08:18	06/20/23 20:34	7440-22-4	
Thallium	ND	mg/L	0.00050	0.00011		1	06/19/23 08:18	06/20/23 20:34	7440-28-0	
Tin	ND	mg/L	0.0060	0.00065		1	06/19/23 08:18	06/20/23 20:34	7440-31-5	
Vanadium	**0.00066J**	mg/L	0.0050	0.00023		1	06/19/23 08:18	06/20/23 20:34	7440-62-2	
Zinc	ND	mg/L	0.010	0.0072		1	06/19/23 08:18	06/20/23 20:34	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/16/23 06:15	06/26/23 14:25	7439-97-6	
SVOA (GC/MS) 8270 C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.238J**	ug/L	0.400	0.0447		1	06/20/23 20:51	06/21/23 05:19	123-91-1	B,J

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 8-S **Lab ID: 20279949008** Collected: 06/13/23 10:40 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270 C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
Surrogates										
Nitrobenzene-d5 (S)	38.2	%	10.0-120			1	06/20/23 20:51	06/21/23 05:19	4165-60-0	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	ND	ug/L	1.00	0.0886		1	06/19/23 15:05	06/20/23 04:34	83-32-9	
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/19/23 15:05	06/20/23 04:34	208-96-8	
Acetophenone	ND	ug/L	10.0	0.208		1	06/19/23 15:05	06/20/23 04:34	98-86-2	
Aniline	ND	ug/L	10.0	1.65		1	06/19/23 15:05	06/20/23 04:34	62-53-3	R1
Anthracene	**0.153J**	ug/L	1.00	0.0804		1	06/19/23 15:05	06/20/23 04:34	120-12-7	J
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/19/23 15:05	06/20/23 04:34	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/19/23 15:05	06/20/23 04:34	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/19/23 15:05	06/20/23 04:34	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/19/23 15:05	06/20/23 04:34	191-24-2	
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/19/23 15:05	06/20/23 04:34	50-32-8	
Benzyl alcohol	ND	ug/L	10.0	0.563		1	06/19/23 15:05	06/20/23 04:34	100-51-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.116		1	06/19/23 15:05	06/20/23 04:34	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	0.137		1	06/19/23 15:05	06/20/23 04:34	111-44-4	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	0.210		1	06/19/23 15:05	06/20/23 04:34	108-60-1	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.0877		1	06/19/23 15:05	06/20/23 04:34	101-55-3	
4-Chloroaniline	ND	ug/L	10.0	0.234		1	06/19/23 15:05	06/20/23 04:34	106-47-8	
2-Chloronaphthalene	ND	ug/L	1.00	0.0648		1	06/19/23 15:05	06/20/23 04:34	91-58-7	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.0926		1	06/19/23 15:05	06/20/23 04:34	7005-72-3	
Chrysene	ND	ug/L	1.00	0.130		1	06/19/23 15:05	06/20/23 04:34	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.00	0.0644		1	06/19/23 15:05	06/20/23 04:34	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/19/23 15:05	06/20/23 04:34	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.0713		1	06/19/23 15:05	06/20/23 04:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.132		1	06/19/23 15:05	06/20/23 04:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.0942		1	06/19/23 15:05	06/20/23 04:34	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10.0	0.212		1	06/19/23 15:05	06/20/23 04:34	91-94-1	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.0983		1	06/19/23 15:05	06/20/23 04:34	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.250		1	06/19/23 15:05	06/20/23 04:34	606-20-2	
Fluoranthene	ND	ug/L	1.00	0.102		1	06/19/23 15:05	06/20/23 04:34	206-44-0	
Fluorene	ND	ug/L	1.00	0.0844		1	06/19/23 15:05	06/20/23 04:34	86-73-7	
Hexachlorobenzene	ND	ug/L	1.00	0.0755		1	06/19/23 15:05	06/20/23 04:34	118-74-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.0968		1	06/19/23 15:05	06/20/23 04:34	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.0598		1	06/19/23 15:05	06/20/23 04:34	77-47-4	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/19/23 15:05	06/20/23 04:34	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/19/23 15:05	06/20/23 04:34	193-39-5	
Isophorone	ND	ug/L	10.0	0.143		1	06/19/23 15:05	06/20/23 04:34	78-59-1	
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/19/23 15:05	06/20/23 04:34	90-12-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 8-S **Lab ID: 20279949008** Collected: 06/13/23 10:40 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/19/23 15:05	06/20/23 04:34	91-57-6	
2-Nitroaniline	ND	ug/L	10.0	0.102		1	06/19/23 15:05	06/20/23 04:34	88-74-4	
3-Nitroaniline	ND	ug/L	10.0	0.0869		1	06/19/23 15:05	06/20/23 04:34	99-09-2	
4-Nitroaniline	ND	ug/L	10.0	0.0910		1	06/19/23 15:05	06/20/23 04:34	100-01-6	
Naphthalene	ND	ug/L	1.00	0.159		1	06/19/23 15:05	06/20/23 04:34	91-20-3	
Nitrobenzene	ND	ug/L	10.0	0.297		1	06/19/23 15:05	06/20/23 04:34	98-95-3	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.998		1	06/19/23 15:05	06/20/23 04:34	62-75-9	
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/19/23 15:05	06/20/23 04:34	86-30-6	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.261		1	06/19/23 15:05	06/20/23 04:34	621-64-7	
Phenanthrene	ND	ug/L	1.00	0.112		1	06/19/23 15:05	06/20/23 04:34	85-01-8	
Pyridine	ND	ug/L	10.0	0.627		1	06/19/23 15:05	06/20/23 04:34	110-86-1	L0,R1
Butylbenzylphthalate	ND	ug/L	3.00	0.765		1	06/19/23 15:05	06/20/23 04:34	85-68-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/19/23 15:05	06/20/23 04:34	117-81-7	
Di-n-butylphthalate	ND	ug/L	3.00	0.453		1	06/19/23 15:05	06/20/23 04:34	84-74-2	
Diethylphthalate	**0.700J**	ug/L	3.00	0.287		1	06/19/23 15:05	06/20/23 04:34	84-66-2	B,J
Dimethylphthalate	ND	ug/L	3.00	0.260		1	06/19/23 15:05	06/20/23 04:34	131-11-3	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/19/23 15:05	06/20/23 04:34	117-84-0	
Pyrene	ND	ug/L	1.00	0.107		1	06/19/23 15:05	06/20/23 04:34	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	0.0647		1	06/19/23 15:05	06/20/23 04:34	95-94-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.0698		1	06/19/23 15:05	06/20/23 04:34	120-82-1	
4-Chloro-3-methylphenol	ND	ug/L	10.0	0.131		1	06/19/23 15:05	06/20/23 04:34	59-50-7	
2-Chlorophenol	ND	ug/L	10.0	0.133		1	06/19/23 15:05	06/20/23 04:34	95-57-8	
2,4-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/19/23 15:05	06/20/23 04:34	120-83-2	
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/19/23 15:05	06/20/23 04:34	105-67-9	
4,6-Dinitro-2-methylphenol	ND	ug/L	10.0	1.12		1	06/19/23 15:05	06/20/23 04:34	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10.0	5.93		1	06/19/23 15:05	06/20/23 04:34	51-28-5	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	0.0929		1	06/19/23 15:05	06/20/23 04:34	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/19/23 15:05	06/20/23 04:34		
2-Nitrophenol	ND	ug/L	10.0	0.117		1	06/19/23 15:05	06/20/23 04:34	88-75-5	
4-Nitrophenol	ND	ug/L	10.0	0.143		1	06/19/23 15:05	06/20/23 04:34	100-02-7	
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/19/23 15:05	06/20/23 04:34	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/19/23 15:05	06/20/23 04:34	108-95-2	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	0.231		1	06/19/23 15:05	06/20/23 04:34	58-90-2	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.109		1	06/19/23 15:05	06/20/23 04:34	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	0.100		1	06/19/23 15:05	06/20/23 04:34	88-06-2	
2-Acetylaminofluorene	ND	ug/L	10.0	0.253		1	06/19/23 15:05	06/26/23 18:42	53-96-3	
4-Aminobiphenyl	ND	ug/L	10.0	0.461		1	06/19/23 15:05	06/26/23 18:42	92-67-1	
Aramite	ND	ug/L	50.0	16.7		1	06/19/23 15:05	06/26/23 18:42	140-57-8	
Chlorobenzilate	ND	ug/L	50.0	3.84		1	06/19/23 15:05	06/26/23 18:42	510-15-6	
Diallate	ND	ug/L	10.0	0.524		1	06/19/23 15:05	06/26/23 18:42	2303-16-4	
2,6-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/19/23 15:05	06/26/23 18:42	87-65-0	
Dimethoate	ND	ug/L	50.0	5.05		1	06/19/23 15:05	06/26/23 18:42	60-51-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 8-S **Lab ID: 20279949008** Collected: 06/13/23 10:40 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
P-Dimethylaminoazobenzene	ND	ug/L	10.0	3.69		1	06/19/23 15:05	06/26/23 18:42	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	1.71		1	06/19/23 15:05	06/26/23 18:42	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.0	3.39		1	06/19/23 15:05	06/26/23 18:42	119-93-7	
a,a-Dimethylphenylethylamine	ND	ug/L	50.0	3.13		1	06/19/23 15:05	06/26/23 18:42	122-09-8	
1,3-Dinitrobenzene	ND	ug/L	10.0	0.359		1	06/19/23 15:05	06/26/23 18:42	99-65-0	
Diphenylamine	ND	ug/L	10.0	2.37		1	06/19/23 15:05	06/20/23 04:34	122-39-4	
Dinoseb	ND	ug/L	50.0	8.01		1	06/19/23 15:05	06/26/23 18:42	88-85-7	
Ethyl methanesulfonate	ND	ug/L	10.0	0.326		1	06/19/23 15:05	06/26/23 18:42	62-50-0	
Famphur	ND	ug/L	20.0	3.92		1	06/19/23 15:05	06/26/23 18:42	52-85-7	
Hexachloropropene	ND	ug/L	50.0	0.149		1	06/19/23 15:05	06/26/23 18:42	1888-71-7	
Hexachlorophene	ND	ug/L	50.0	1.44		1	06/19/23 15:05	06/26/23 18:42	70-30-4	
Isodrin	ND	ug/L	10.0	4.11		1	06/19/23 15:05	06/26/23 18:42	465-73-6	
Isosafrole	ND	ug/L	10.0	3.88		1	06/19/23 15:05	06/26/23 18:42	120-58-1	
Kepone	ND	ug/L	20.0	2.66		1	06/19/23 15:05	06/26/23 18:42	143-50-0	
Methapyrilene	ND	ug/L	50.0	10.0		1	06/19/23 15:05	06/26/23 18:42	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.0	0.164		1	06/19/23 15:05	06/26/23 18:42	56-49-5	
Methyl methanesulfonate	ND	ug/L	50.0	3.40		1	06/19/23 15:05	06/26/23 18:42	66-27-3	
1,4-Naphthoquinone	ND	ug/L	50.0	5.56		1	06/19/23 15:05	06/26/23 18:42	130-15-4	
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/19/23 15:05	06/26/23 18:42	134-32-7	
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/19/23 15:05	06/26/23 18:42	91-59-8	
5-Nitro-o-toluidine	ND	ug/L	10.0	1.99		1	06/19/23 15:05	06/26/23 18:42	99-55-8	
4-Nitroquinoline-n-oxide	ND	ug/L	10.0	2.03		1	06/19/23 15:05	06/26/23 18:42	56-57-5	
N-Nitrosodiethylamine	ND	ug/L	10.0	3.57		1	06/19/23 15:05	06/26/23 18:42	55-18-5	
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	3.91		1	06/19/23 15:05	06/26/23 18:42	924-16-3	
N-Nitrosomethylethylamine	ND	ug/L	10.0	3.25		1	06/19/23 15:05	06/26/23 18:42	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	10.0	3.25		1	06/19/23 15:05	06/26/23 18:42	59-89-2	
N-Nitrosopiperidine	ND	ug/L	10.0	3.72		1	06/19/23 15:05	06/26/23 18:42	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.0	3.39		1	06/19/23 15:05	06/26/23 18:42	930-55-2	
Pentachlorobenzene	ND	ug/L	10.0	4.15		1	06/19/23 15:05	06/26/23 18:42	608-93-5	
Pentachloronitrobenzene	ND	ug/L	10.0	4.15		1	06/19/23 15:05	06/26/23 18:42	82-68-8	
Phenacetin	ND	ug/L	10.0	4.66		1	06/19/23 15:05	06/26/23 18:42	62-44-2	
p-Phenylenediamine	ND	ug/L	6900	387		1	06/19/23 15:05	06/26/23 18:42	106-50-3	
2-Picoline	ND	ug/L	50.0	6.83		1	06/19/23 15:05	06/26/23 18:42	109-06-8	
Pronamide	ND	ug/L	10.0	4.21		1	06/19/23 15:05	06/26/23 18:42	23950-58-5	
Safrole	ND	ug/L	10.0	3.68		1	06/19/23 15:05	06/26/23 18:42	94-59-7	
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	50.0	3.99		1	06/19/23 15:05	06/26/23 18:42	3689-24-5	
Thionazin	ND	ug/L	10.0	4.07		1	06/19/23 15:05	06/26/23 18:42	297-97-2	
O-Toluidine	ND	ug/L	10.0	3.53		1	06/19/23 15:05	06/26/23 18:42	95-53-4	
1,3,5-Trinitrobenzene	ND	ug/L	10.0	1.32		1	06/19/23 15:05	06/26/23 18:42	99-35-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 8-S **Lab ID: 20279949008** Collected: 06/13/23 10:40 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	2.93		1	06/19/23 15:05	06/26/23 18:42	126-68-1	
Surrogates										
2-Fluorophenol (S)	22.4	%	10.0-120			1	06/19/23 15:05	06/20/23 04:34	367-12-4	
Phenol-d5 (S)	16.7	%	10.0-120			1	06/19/23 15:05	06/20/23 04:34	4165-62-2	
Nitrobenzene-d5 (S)	58.3	%	10.0-127			1	06/19/23 15:05	06/20/23 04:34	4165-60-0	
2-Fluorobiphenyl (S)	61.6	%	10.0-130			1	06/19/23 15:05	06/20/23 04:34	321-60-8	
2,4,6-Tribromophenol (S)	53.0	%	10.0-155			1	06/19/23 15:05	06/20/23 04:34	118-79-6	
Terphenyl-d14 (S)	68.6	%	10.0-128			1	06/19/23 15:05	06/20/23 04:34	1718-51-0	
SVOA (LCMS) SW-846 8321	Analytical Method: EPA 8321 Preparation Method: 8321 Pace National - Mt. Juliet									
2,4-D	ND	ug/L	2.00	1.00		1	06/20/23 08:27	06/20/23 16:58	94-75-7	
2,4,5-T	ND	ug/L	2.00	0.573		1	06/20/23 08:27	06/20/23 16:58	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.807		1	06/20/23 08:27	06/20/23 16:58	93-72-1	
Surrogates										
2,4-DB-d3 (S)	98.0	%	70.0-130			1	06/20/23 08:27	06/20/23 16:58	1219802-46-	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	06/17/23 22:43	06/17/23 22:43	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	06/17/23 22:43	06/17/23 22:43	107-02-8	
Acrylonitrile	ND	ug/L	10.0	0.671		1	06/17/23 22:43	06/17/23 22:43	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	06/17/23 22:43	06/17/23 22:43	107-05-1	
Benzene	ND	ug/L	1.00	0.0941		1	06/17/23 22:43	06/17/23 22:43	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	06/17/23 22:43	06/17/23 22:43	75-27-4	
Bromoform	ND	ug/L	1.00	0.129		1	06/17/23 22:43	06/17/23 22:43	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	06/17/23 22:43	06/17/23 22:43	74-83-9	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	06/17/23 22:43	06/17/23 22:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	06/17/23 22:43	06/17/23 22:43	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116		1	06/17/23 22:43	06/17/23 22:43	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140		1	06/17/23 22:43	06/17/23 22:43	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192		1	06/17/23 22:43	06/17/23 22:43	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	06/17/23 22:43	06/17/23 22:43	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	06/17/23 22:43	06/17/23 22:43	74-87-3	
Dibromomethane	ND	ug/L	1.00	0.122		1	06/17/23 22:43	06/17/23 22:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	06/17/23 22:43	06/17/23 22:43	95-50-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	06/17/23 22:43	06/17/23 22:43	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	06/17/23 22:43	06/17/23 22:43	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	06/17/23 22:43	06/17/23 22:43	75-34-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 8-S **Lab ID: 20279949008** Collected: 06/13/23 10:40 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	06/17/23 22:43	06/17/23 22:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	06/17/23 22:43	06/17/23 22:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	06/17/23 22:43	06/17/23 22:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	06/17/23 22:43	06/17/23 22:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	06/17/23 22:43	06/17/23 22:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	06/17/23 22:43	06/17/23 22:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	06/17/23 22:43	06/17/23 22:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.00	0.173		1	06/17/23 22:43	06/17/23 22:43	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.787		1	06/17/23 22:43	06/17/23 22:43	591-78-6	
Iodomethane	ND	ug/L	10.0	6.00		1	06/17/23 22:43	06/17/23 22:43	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	06/17/23 22:43	06/17/23 22:43	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430		1	06/17/23 22:43	06/17/23 22:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	06/17/23 22:43	06/17/23 22:43	108-10-1	
Styrene	ND	ug/L	1.00	0.118		1	06/17/23 22:43	06/17/23 22:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	06/17/23 22:43	06/17/23 22:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	06/17/23 22:43	06/17/23 22:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	06/17/23 22:43	06/17/23 22:43	127-18-4	
Toluene	ND	ug/L	1.00	0.278		1	06/17/23 22:43	06/17/23 22:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	06/17/23 22:43	06/17/23 22:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	06/17/23 22:43	06/17/23 22:43	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190		1	06/17/23 22:43	06/17/23 22:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	06/17/23 22:43	06/17/23 22:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	06/17/23 22:43	06/17/23 22:43	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	06/17/23 22:43	06/17/23 22:43	108-05-4	
Vinyl chloride	ND	ug/L	1.00	0.234		1	06/17/23 22:43	06/17/23 22:43	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	06/17/23 22:43	06/17/23 22:43	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	06/17/23 22:43	06/17/23 22:43	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	06/17/23 22:43	06/17/23 22:43	1330-20-7	
Acetonitrile	ND	ug/L	50.0	24.0		1	06/21/23 20:27	06/21/23 20:27	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	06/21/23 20:27	06/21/23 20:27	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	06/21/23 20:27	06/21/23 20:27	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	06/22/23 20:34	06/22/23 20:34	78-83-1	
Methacrylonitrile	ND	ug/L	50.0	14.2		1	06/21/23 20:27	06/21/23 20:27	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	06/21/23 20:27	06/21/23 20:27	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	06/21/23 20:27	06/21/23 20:27	76-01-7	
Propionitrile	ND	ug/L	50.0	16.2		1	06/21/23 20:27	06/21/23 20:27	107-12-0	
Surrogates										
Toluene-d8 (S)	98.1	%	80.0-120			1	06/17/23 22:43	06/17/23 22:43	2037-26-5	
Toluene-d8 (S)	94.6	%	80.0-120			1	06/21/23 20:27	06/21/23 20:27	2037-26-5	
Toluene-d8 (S)	106	%	80.0-120			1	06/22/23 20:34	06/22/23 20:34	2037-26-5	
1,2-Dichloroethane-d4 (S)	106	%	70.0-130			1	06/17/23 22:43	06/17/23 22:43	17060-07-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 8-S **Lab ID: 20279949008** Collected: 06/13/23 10:40 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Surrogates										
1,2-Dichloroethane-d4 (S)	131	%	70.0-130			1	06/21/23 20:27	06/21/23 20:27	17060-07-0	ST
1,2-Dichloroethane-d4 (S)	110	%	70.0-130			1	06/22/23 20:34	06/22/23 20:34	17060-07-0	
4-Bromofluorobenzene (S)	91.8	%	77.0-126			1	06/17/23 22:43	06/17/23 22:43	460-00-4	
4-Bromofluorobenzene (S)	88.9	%	77.0-126			1	06/21/23 20:27	06/21/23 20:27	460-00-4	
4-Bromofluorobenzene (S)	104	%	77.0-126			1	06/22/23 20:34	06/22/23 20:34	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012		1		06/20/23 09:30	18496-25-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay									
Cyanide	ND	mg/L	0.023	0.0069		1	06/26/23 08:00	06/26/23 10:19	57-12-5	
420.1 Phenolics, Total	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - New Orleans									
Phenolics, Total Recoverable	**0.030**	mg/L	0.020	0.0093		1	07/06/23 10:15	07/06/23 14:43	64743-03-9	

Sample: 15-D **Lab ID: 20279949009** Collected: 06/12/23 14:55 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0555	0.0220		1.11	06/18/23 08:33	06/18/23 18:28	309-00-2	
alpha-BHC	ND	ug/L	0.0555	0.0191		1.11	06/18/23 08:33	06/18/23 18:28	319-84-6	
beta-BHC	ND	ug/L	0.0555	0.0231		1.11	06/18/23 08:33	06/18/23 18:28	319-85-7	
delta-BHC	ND	ug/L	0.0555	0.0167		1.11	06/18/23 08:33	06/18/23 18:28	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.0555	0.0232		1.11	06/18/23 08:33	06/18/23 18:28	58-89-9	
Chlordane (Technical)	ND	ug/L	5.55	0.0220		1.11	06/18/23 08:33	06/18/23 18:28	57-74-9	
4,4'-DDD	ND	ug/L	0.0555	0.0196		1.11	06/18/23 08:33	06/18/23 18:28	72-54-8	
4,4'-DDE	ND	ug/L	0.0555	0.0171		1.11	06/18/23 08:33	06/18/23 18:28	72-55-9	
4,4'-DDT	ND	ug/L	0.0555	0.0220		1.11	06/18/23 08:33	06/18/23 18:28	50-29-3	
Dieldrin	ND	ug/L	0.0555	0.0180		1.11	06/18/23 08:33	06/18/23 18:28	60-57-1	
Endosulfan I	ND	ug/L	0.0555	0.0178		1.11	06/18/23 08:33	06/18/23 18:28	959-98-8	
Endosulfan II	ND	ug/L	0.0555	0.0182		1.11	06/18/23 08:33	06/18/23 18:28	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.0555	0.0241		1.11	06/18/23 08:33	06/18/23 18:28	1031-07-8	
Endrin	ND	ug/L	0.0555	0.0179		1.11	06/18/23 08:33	06/18/23 18:28	72-20-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 15-D **Lab ID: 20279949009** Collected: 06/12/23 14:55 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Endrin aldehyde	ND	ug/L	0.0555	0.0263		1.11	06/18/23 08:33	06/18/23 18:28	7421-93-4	
Heptachlor	ND	ug/L	0.0555	0.0164		1.11	06/18/23 08:33	06/18/23 18:28	76-44-8	
Heptachlor epoxide	ND	ug/L	0.0555	0.0203		1.11	06/18/23 08:33	06/18/23 18:28	1024-57-3	
Methoxychlor	ND	ug/L	0.0555	0.0214		1.11	06/18/23 08:33	06/18/23 18:28	72-43-5	
Toxaphene	ND	ug/L	0.555	0.186		1.11	06/18/23 08:33	06/18/23 18:28	8001-35-2	
Surrogates										
Decachlorobiphenyl (S)	38.1	%	10.0-128			1.11	06/18/23 08:33	06/18/23 18:28	2051-24-3	
Tetrachloro-m-xylene (S)	82.0	%	10.0-127			1.11	06/18/23 08:33	06/18/23 18:28	877-09-8	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00034		1	06/15/23 06:33	06/20/23 17:22	7440-36-0	
Arsenic	**0.0044**	mg/L	0.0010	0.00010		1	06/15/23 06:33	06/20/23 17:22	7440-38-2	
Barium	**0.073**	mg/L	0.0010	0.00064		1	06/15/23 06:33	06/20/23 17:22	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00021		1	06/15/23 06:33	06/20/23 17:22	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.00019		1	06/15/23 06:33	06/20/23 17:22	7440-43-9	
Chromium	ND	mg/L	0.0010	0.00063		1	06/15/23 06:33	06/20/23 17:22	7440-47-3	
Cobalt	**0.0011**	mg/L	0.0010	0.00012		1	06/15/23 06:33	06/20/23 17:22	7440-48-4	
Copper	ND	mg/L	0.0030	0.0017		1	06/15/23 06:33	06/20/23 17:22	7440-50-8	
Lead	ND	mg/L	0.0010	0.00069		1	06/15/23 06:33	06/20/23 17:22	7439-92-1	
Nickel	**0.00069J**	mg/L	0.0010	0.00062		1	06/15/23 06:33	06/20/23 17:22	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00026		1	06/15/23 06:33	06/20/23 17:22	7782-49-2	
Silver	ND	mg/L	0.00050	0.00020		1	06/15/23 06:33	06/20/23 17:22	7440-22-4	
Thallium	ND	mg/L	0.00050	0.00011		1	06/15/23 06:33	06/20/23 17:22	7440-28-0	
Tin	ND	mg/L	0.0060	0.00065		1	06/15/23 06:33	06/20/23 17:22	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.00023		1	06/15/23 06:33	06/20/23 17:22	7440-62-2	
Zinc	ND	mg/L	0.010	0.0072		1	06/15/23 06:33	06/20/23 17:22	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/16/23 06:15	06/26/23 14:27	7439-97-6	
SVOA (GC/MS) 8270 C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.175J**	ug/L	0.400	0.0447		1	06/22/23 15:40	06/23/23 15:04	123-91-1	B,H1,J
Surrogates										
Nitrobenzene-d5 (S)	39.9	%	10.0-120			1	06/22/23 15:40	06/23/23 15:04	4165-60-0	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	ND	ug/L	1.00	0.0886		1	06/17/23 06:33	06/17/23 21:32	83-32-9	
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/17/23 06:33	06/17/23 21:32	208-96-8	
Acetophenone	ND	ug/L	10.0	0.208		1	06/17/23 06:33	06/17/23 21:32	98-86-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 15-D **Lab ID: 20279949009** Collected: 06/12/23 14:55 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Aniline	ND	ug/L	10.0	1.65		1	06/17/23 06:33	06/17/23 21:32	62-53-3	R1
Anthracene	ND	ug/L	1.00	0.0804		1	06/17/23 06:33	06/17/23 21:32	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/17/23 06:33	06/17/23 21:32	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/17/23 06:33	06/17/23 21:32	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/17/23 06:33	06/17/23 21:32	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/17/23 06:33	06/17/23 21:32	191-24-2	
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/17/23 06:33	06/17/23 21:32	50-32-8	
Benzyl alcohol	ND	ug/L	10.0	0.563		1	06/17/23 06:33	06/17/23 21:32	100-51-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.116		1	06/17/23 06:33	06/17/23 21:32	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	0.137		1	06/17/23 06:33	06/17/23 21:32	111-44-4	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	0.210		1	06/17/23 06:33	06/17/23 21:32	108-60-1	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.0877		1	06/17/23 06:33	06/17/23 21:32	101-55-3	
4-Chloroaniline	ND	ug/L	10.0	0.234		1	06/17/23 06:33	06/17/23 21:32	106-47-8	
2-Chloronaphthalene	ND	ug/L	1.00	0.0648		1	06/17/23 06:33	06/17/23 21:32	91-58-7	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.0926		1	06/17/23 06:33	06/17/23 21:32	7005-72-3	
Chrysene	ND	ug/L	1.00	0.130		1	06/17/23 06:33	06/17/23 21:32	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.00	0.0644		1	06/17/23 06:33	06/17/23 21:32	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/17/23 06:33	06/17/23 21:32	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.0713		1	06/17/23 06:33	06/17/23 21:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.132		1	06/17/23 06:33	06/17/23 21:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.0942		1	06/17/23 06:33	06/17/23 21:32	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10.0	0.212		1	06/17/23 06:33	06/17/23 21:32	91-94-1	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.0983		1	06/17/23 06:33	06/17/23 21:32	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.250		1	06/17/23 06:33	06/17/23 21:32	606-20-2	
Fluoranthene	ND	ug/L	1.00	0.102		1	06/17/23 06:33	06/17/23 21:32	206-44-0	
Fluorene	ND	ug/L	1.00	0.0844		1	06/17/23 06:33	06/17/23 21:32	86-73-7	
Hexachlorobenzene	ND	ug/L	1.00	0.0755		1	06/17/23 06:33	06/17/23 21:32	118-74-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.0968		1	06/17/23 06:33	06/17/23 21:32	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.0598		1	06/17/23 06:33	06/17/23 21:32	77-47-4	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/17/23 06:33	06/17/23 21:32	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/17/23 06:33	06/17/23 21:32	193-39-5	
Isophorone	ND	ug/L	10.0	0.143		1	06/17/23 06:33	06/17/23 21:32	78-59-1	
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/17/23 06:33	06/17/23 21:32	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/17/23 06:33	06/17/23 21:32	91-57-6	
2-Nitroaniline	ND	ug/L	10.0	0.102		1	06/17/23 06:33	06/17/23 21:32	88-74-4	
3-Nitroaniline	ND	ug/L	10.0	0.0869		1	06/17/23 06:33	06/17/23 21:32	99-09-2	
4-Nitroaniline	ND	ug/L	10.0	0.0910		1	06/17/23 06:33	06/17/23 21:32	100-01-6	
Naphthalene	ND	ug/L	1.00	0.159		1	06/17/23 06:33	06/17/23 21:32	91-20-3	
Nitrobenzene	ND	ug/L	10.0	0.297		1	06/17/23 06:33	06/17/23 21:32	98-95-3	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.998		1	06/17/23 06:33	06/17/23 21:32	62-75-9	
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/17/23 06:33	06/17/23 21:32	86-30-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 15-D **Lab ID: 20279949009** Collected: 06/12/23 14:55 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.261		1	06/17/23 06:33	06/17/23 21:32	621-64-7	
Phenanthrene	ND	ug/L	1.00	0.112		1	06/17/23 06:33	06/17/23 21:32	85-01-8	
Pyridine	ND	ug/L	10.0	0.627		1	06/17/23 06:33	06/17/23 21:32	110-86-1	L0,R1
Butylbenzylphthalate	ND	ug/L	3.00	0.765		1	06/17/23 06:33	06/17/23 21:32	85-68-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/17/23 06:33	06/17/23 21:32	117-81-7	
Di-n-butylphthalate	ND	ug/L	3.00	0.453		1	06/17/23 06:33	06/17/23 21:32	84-74-2	
Diethylphthalate	ND	ug/L	3.00	0.287		1	06/17/23 06:33	06/17/23 21:32	84-66-2	
Dimethylphthalate	ND	ug/L	3.00	0.260		1	06/17/23 06:33	06/17/23 21:32	131-11-3	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/17/23 06:33	06/17/23 21:32	117-84-0	
Pyrene	ND	ug/L	1.00	0.107		1	06/17/23 06:33	06/17/23 21:32	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	0.0647		1	06/17/23 06:33	06/17/23 21:32	95-94-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.0698		1	06/17/23 06:33	06/17/23 21:32	120-82-1	
4-Chloro-3-methylphenol	ND	ug/L	10.0	0.131		1	06/17/23 06:33	06/17/23 21:32	59-50-7	
2-Chlorophenol	ND	ug/L	10.0	0.133		1	06/17/23 06:33	06/17/23 21:32	95-57-8	
2,4-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/17/23 06:33	06/17/23 21:32	120-83-2	
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/17/23 06:33	06/17/23 21:32	105-67-9	
4,6-Dinitro-2-methylphenol	ND	ug/L	10.0	1.12		1	06/17/23 06:33	06/17/23 21:32	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10.0	5.93		1	06/17/23 06:33	06/17/23 21:32	51-28-5	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	0.0929		1	06/17/23 06:33	06/17/23 21:32	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/17/23 06:33	06/17/23 21:32		
2-Nitrophenol	ND	ug/L	10.0	0.117		1	06/17/23 06:33	06/17/23 21:32	88-75-5	
4-Nitrophenol	ND	ug/L	10.0	0.143		1	06/17/23 06:33	06/17/23 21:32	100-02-7	
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/17/23 06:33	06/17/23 21:32	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/17/23 06:33	06/17/23 21:32	108-95-2	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	0.231		1	06/17/23 06:33	06/17/23 21:32	58-90-2	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.109		1	06/17/23 06:33	06/17/23 21:32	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	0.100		1	06/17/23 06:33	06/17/23 21:32	88-06-2	
2-Acetylaminofluorene	ND	ug/L	10.0	0.253		1	06/17/23 06:33	06/22/23 18:35	53-96-3	
4-Aminobiphenyl	ND	ug/L	10.0	0.461		1	06/17/23 06:33	06/22/23 18:35	92-67-1	
Aramite	ND	ug/L	50.0	16.7		1	06/17/23 06:33	06/22/23 18:35	140-57-8	
Chlorobenzilate	ND	ug/L	50.0	3.84		1	06/17/23 06:33	06/22/23 18:35	510-15-6	
Diallate	ND	ug/L	10.0	0.524		1	06/17/23 06:33	06/22/23 18:35	2303-16-4	
2,6-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/17/23 06:33	06/22/23 18:35	87-65-0	
Dimethoate	ND	ug/L	50.0	5.05		1	06/17/23 06:33	06/22/23 18:35	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	10.0	3.69		1	06/17/23 06:33	06/22/23 18:35	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	1.71		1	06/17/23 06:33	06/22/23 18:35	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.0	3.39		1	06/17/23 06:33	06/22/23 18:35	119-93-7	
a,a-Dimethylphenylethylamine	ND	ug/L	50.0	3.13		1	06/17/23 06:33	06/22/23 18:35	122-09-8	
1,3-Dinitrobenzene	ND	ug/L	10.0	0.359		1	06/17/23 06:33	06/22/23 18:35	99-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 15-D **Lab ID: 20279949009** Collected: 06/12/23 14:55 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Diphenylamine	ND	ug/L	10.0	2.37		1	06/17/23 06:33	06/17/23 21:32	122-39-4	
Dinoseb	ND	ug/L	50.0	8.01		1	06/17/23 06:33	06/22/23 18:35	88-85-7	
Ethyl methanesulfonate	ND	ug/L	10.0	0.326		1	06/17/23 06:33	06/22/23 18:35	62-50-0	
Famphur	ND	ug/L	20.0	3.92		1	06/17/23 06:33	06/22/23 18:35	52-85-7	
Hexachloropropene	ND	ug/L	50.0	0.149		1	06/17/23 06:33	06/22/23 18:35	1888-71-7	
Hexachlorophene	ND	ug/L	50.0	1.44		1	06/17/23 06:33	06/22/23 18:35	70-30-4	
Isodrin	ND	ug/L	10.0	4.11		1	06/17/23 06:33	06/22/23 18:35	465-73-6	
Isosafrole	ND	ug/L	10.0	3.88		1	06/17/23 06:33	06/22/23 18:35	120-58-1	
Kepone	ND	ug/L	20.0	2.66		1	06/17/23 06:33	06/22/23 18:35	143-50-0	
Methapyrilene	ND	ug/L	50.0	10.0		1	06/17/23 06:33	06/22/23 18:35	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.0	0.164		1	06/17/23 06:33	06/22/23 18:35	56-49-5	
Methyl methanesulfonate	ND	ug/L	50.0	3.40		1	06/17/23 06:33	06/22/23 18:35	66-27-3	
1,4-Naphthoquinone	ND	ug/L	50.0	5.56		1	06/17/23 06:33	06/22/23 18:35	130-15-4	
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/17/23 06:33	06/22/23 18:35	134-32-7	
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/17/23 06:33	06/22/23 18:35	91-59-8	
5-Nitro-o-toluidine	ND	ug/L	10.0	1.99		1	06/17/23 06:33	06/22/23 18:35	99-55-8	
4-Nitroquinoline-n-oxide	ND	ug/L	10.0	2.03		1	06/17/23 06:33	06/22/23 18:35	56-57-5	
N-Nitrosodiethylamine	ND	ug/L	10.0	3.57		1	06/17/23 06:33	06/22/23 18:35	55-18-5	
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	3.91		1	06/17/23 06:33	06/22/23 18:35	924-16-3	
N-Nitrosomethylethylamine	ND	ug/L	10.0	3.25		1	06/17/23 06:33	06/22/23 18:35	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	10.0	3.25		1	06/17/23 06:33	06/22/23 18:35	59-89-2	
N-Nitrosopiperidine	ND	ug/L	10.0	3.72		1	06/17/23 06:33	06/22/23 18:35	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.0	3.39		1	06/17/23 06:33	06/22/23 18:35	930-55-2	
Pentachlorobenzene	ND	ug/L	10.0	4.15		1	06/17/23 06:33	06/22/23 18:35	608-93-5	
Pentachloronitrobenzene	ND	ug/L	10.0	4.15		1	06/17/23 06:33	06/22/23 18:35	82-68-8	
Phenacetin	ND	ug/L	10.0	4.66		1	06/17/23 06:33	06/22/23 18:35	62-44-2	
p-Phenylenediamine	ND	ug/L	6900	387		1	06/17/23 06:33	06/22/23 18:35	106-50-3	
2-Picoline	ND	ug/L	50.0	6.83		1	06/17/23 06:33	06/22/23 18:35	109-06-8	
Pronamide	ND	ug/L	10.0	4.21		1	06/17/23 06:33	06/22/23 18:35	23950-58-5	
Safrole	ND	ug/L	10.0	3.68		1	06/17/23 06:33	06/22/23 18:35	94-59-7	
Sulfotepp	ND	ug/L	50.0	3.99		1	06/17/23 06:33	06/22/23 18:35	3689-24-5	
(Thiodiphosphoric Ac										
Thionazin	ND	ug/L	10.0	4.07		1	06/17/23 06:33	06/22/23 18:35	297-97-2	
O-Toluidine	ND	ug/L	10.0	3.53		1	06/17/23 06:33	06/22/23 18:35	95-53-4	
1,3,5-Trinitrobenzene	ND	ug/L	10.0	1.32		1	06/17/23 06:33	06/22/23 18:35	99-35-4	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	2.93		1	06/17/23 06:33	06/22/23 18:35	126-68-1	
Surrogates										
2-Fluorophenol (S)	34.2	%	10.0-120			1	06/17/23 06:33	06/17/23 21:32	367-12-4	
Phenol-d5 (S)	23.5	%	10.0-120			1	06/17/23 06:33	06/17/23 21:32	4165-62-2	
Nitrobenzene-d5 (S)	63.8	%	10.0-127			1	06/17/23 06:33	06/17/23 21:32	4165-60-0	
2-Fluorobiphenyl (S)	75.2	%	10.0-130			1	06/17/23 06:33	06/17/23 21:32	321-60-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 15-D **Lab ID: 20279949009** Collected: 06/12/23 14:55 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Surrogates										
2,4,6-Tribromophenol (S)	73.5	%	10.0-155			1	06/17/23 06:33	06/17/23 21:32	118-79-6	
Terphenyl-d14 (S)	80.5	%	10.0-128			1	06/17/23 06:33	06/17/23 21:32	1718-51-0	
SVOA (LCMS) SW-846 8321	Analytical Method: EPA 8321 Preparation Method: 8321 Pace National - Mt. Juliet									
2,4-D	ND	ug/L	2.00	1.00		1	06/15/23 15:07	06/19/23 01:48	94-75-7	
2,4,5-T	ND	ug/L	2.00	0.573		1	06/15/23 15:07	06/19/23 01:48	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.807		1	06/15/23 15:07	06/19/23 01:48	93-72-1	
Surrogates										
2,4-DB-d3 (S)	100	%	70.0-130			1	06/15/23 15:07	06/19/23 01:48	1219802-46-	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	06/18/23 08:38	06/18/23 08:38	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	06/18/23 08:38	06/18/23 08:38	107-02-8	
Acrylonitrile	ND	ug/L	10.0	0.671		1	06/18/23 08:38	06/18/23 08:38	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	06/18/23 08:38	06/18/23 08:38	107-05-1	
Benzene	ND	ug/L	1.00	0.0941		1	06/18/23 08:38	06/18/23 08:38	71-43-2	R1
Bromodichloromethane	ND	ug/L	1.00	0.136		1	06/18/23 08:38	06/18/23 08:38	75-27-4	L0,R1
Bromoform	ND	ug/L	1.00	0.129		1	06/18/23 08:38	06/18/23 08:38	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	06/18/23 08:38	06/18/23 08:38	74-83-9	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	06/18/23 08:38	06/18/23 08:38	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	06/18/23 08:38	06/18/23 08:38	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116		1	06/18/23 08:38	06/18/23 08:38	108-90-7	L0,R1
Dibromochloromethane	ND	ug/L	1.00	0.140		1	06/18/23 08:38	06/18/23 08:38	124-48-1	L0,R1
Chloroethane	ND	ug/L	5.00	0.192		1	06/18/23 08:38	06/18/23 08:38	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	06/18/23 08:38	06/18/23 08:38	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	06/18/23 08:38	06/18/23 08:38	74-87-3	R1
Dibromomethane	ND	ug/L	1.00	0.122		1	06/18/23 08:38	06/18/23 08:38	74-95-3	L0
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	06/18/23 08:38	06/18/23 08:38	95-50-1	L0
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	06/18/23 08:38	06/18/23 08:38	110-57-6	R1
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	06/18/23 08:38	06/18/23 08:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	06/18/23 08:38	06/18/23 08:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	06/18/23 08:38	06/18/23 08:38	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	06/18/23 08:38	06/18/23 08:38	75-35-4	L0
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	06/18/23 08:38	06/18/23 08:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	06/18/23 08:38	06/18/23 08:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	06/18/23 08:38	06/18/23 08:38	78-87-5	L0,R1
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	06/18/23 08:38	06/18/23 08:38	10061-01-5	R1
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	06/18/23 08:38	06/18/23 08:38	10061-02-6	L0,R1
Ethylbenzene	ND	ug/L	1.00	0.173		1	06/18/23 08:38	06/18/23 08:38	100-41-4	L0,R1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 15-D **Lab ID: 20279949009** Collected: 06/12/23 14:55 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Pace National - Mt. Juliet									
2-Hexanone	ND	ug/L	10.0	0.787		1	06/18/23 08:38	06/18/23 08:38	591-78-6	L0,R1
Iodomethane	ND	ug/L	10.0	6.00		1	06/18/23 08:38	06/18/23 08:38	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	06/18/23 08:38	06/18/23 08:38	78-93-3	R1
Methylene Chloride	ND	ug/L	5.00	0.430		1	06/18/23 08:38	06/18/23 08:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	06/18/23 08:38	06/18/23 08:38	108-10-1	
Styrene	ND	ug/L	1.00	0.118		1	06/18/23 08:38	06/18/23 08:38	100-42-5	R1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	06/18/23 08:38	06/18/23 08:38	630-20-6	L0,R1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	06/18/23 08:38	06/18/23 08:38	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	06/18/23 08:38	06/18/23 08:38	127-18-4	R1
Toluene	ND	ug/L	1.00	0.278		1	06/18/23 08:38	06/18/23 08:38	108-88-3	L0,R1
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	06/18/23 08:38	06/18/23 08:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	06/18/23 08:38	06/18/23 08:38	79-00-5	L0
Trichloroethene	ND	ug/L	1.00	0.190		1	06/18/23 08:38	06/18/23 08:38	79-01-6	R1
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	06/18/23 08:38	06/18/23 08:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	06/18/23 08:38	06/18/23 08:38	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	06/18/23 08:38	06/18/23 08:38	108-05-4	
Vinyl chloride	ND	ug/L	1.00	0.234		1	06/18/23 08:38	06/18/23 08:38	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	06/18/23 08:38	06/18/23 08:38	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	06/18/23 08:38	06/18/23 08:38	179601-23-1	L0,R1
Xylene (Total)	ND	ug/L	3.00	0.174		1	06/18/23 08:38	06/18/23 08:38	1330-20-7	L0,R1
Acetonitrile	ND	ug/L	50.0	24.0		1	06/22/23 12:52	06/22/23 12:52	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	06/22/23 12:52	06/22/23 12:52	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	06/22/23 12:52	06/22/23 12:52	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	06/22/23 12:52	06/22/23 12:52	78-83-1	
Methacrylonitrile	ND	ug/L	50.0	14.2		1	06/22/23 12:52	06/22/23 12:52	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	06/22/23 12:52	06/22/23 12:52	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	06/22/23 12:52	06/22/23 12:52	76-01-7	
Propionitrile	ND	ug/L	50.0	16.2		1	06/22/23 12:52	06/22/23 12:52	107-12-0	
Surrogates										
Toluene-d8 (S)	97.5	%	80.0-120			1	06/18/23 08:38	06/18/23 08:38	2037-26-5	
Toluene-d8 (S)	97.7	%	80.0-120			1	06/22/23 12:52	06/22/23 12:52	2037-26-5	
1,2-Dichloroethane-d4 (S)	98.6	%	70.0-130			1	06/18/23 08:38	06/18/23 08:38	17060-07-0	
1,2-Dichloroethane-d4 (S)	99.0	%	70.0-130			1	06/22/23 12:52	06/22/23 12:52	17060-07-0	
4-Bromofluorobenzene (S)	99.5	%	77.0-126			1	06/18/23 08:38	06/18/23 08:38	460-00-4	
4-Bromofluorobenzene (S)	86.6	%	77.0-126			1	06/22/23 12:52	06/22/23 12:52	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012		1		06/15/23 08:32	18496-25-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 15-D **Lab ID: 20279949009** Collected: 06/12/23 14:55 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
335.4 Cyanide, Total		Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay								
Cyanide	ND	mg/L	0.023	0.0069		1	06/26/23 08:00	06/26/23 10:58	57-12-5	
420.1 Phenolics, Total		Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - New Orleans								
Phenolics, Total Recoverable	**0.010J**	mg/L	0.020	0.0093		1	07/06/23 13:13	07/07/23 10:25	64743-03-9	B

Sample: 15-I **Lab ID: 20279949010** Collected: 06/12/23 16:30 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081		Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet								
Aldrin	ND	ug/L	0.0500	0.0198		1	06/18/23 08:33	06/18/23 18:36	309-00-2	
alpha-BHC	ND	ug/L	0.0500	0.0172		1	06/18/23 08:33	06/18/23 18:36	319-84-6	
beta-BHC	ND	ug/L	0.0500	0.0208		1	06/18/23 08:33	06/18/23 18:36	319-85-7	
delta-BHC	ND	ug/L	0.0500	0.0150		1	06/18/23 08:33	06/18/23 18:36	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.0500	0.0209		1	06/18/23 08:33	06/18/23 18:36	58-89-9	
Chlordane (Technical)	ND	ug/L	5.00	0.0198		1	06/18/23 08:33	06/18/23 18:36	57-74-9	
4,4'-DDD	ND	ug/L	0.0500	0.0177		1	06/18/23 08:33	06/18/23 18:36	72-54-8	
4,4'-DDE	ND	ug/L	0.0500	0.0154		1	06/18/23 08:33	06/18/23 18:36	72-55-9	
4,4'-DDT	ND	ug/L	0.0500	0.0198		1	06/18/23 08:33	06/18/23 18:36	50-29-3	
Dieldrin	ND	ug/L	0.0500	0.0162		1	06/18/23 08:33	06/18/23 18:36	60-57-1	
Endosulfan I	ND	ug/L	0.0500	0.0160		1	06/18/23 08:33	06/18/23 18:36	959-98-8	
Endosulfan II	ND	ug/L	0.0500	0.0164		1	06/18/23 08:33	06/18/23 18:36	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.0500	0.0217		1	06/18/23 08:33	06/18/23 18:36	1031-07-8	
Endrin	ND	ug/L	0.0500	0.0161		1	06/18/23 08:33	06/18/23 18:36	72-20-8	
Endrin aldehyde	ND	ug/L	0.0500	0.0237		1	06/18/23 08:33	06/18/23 18:36	7421-93-4	
Heptachlor	ND	ug/L	0.0500	0.0148		1	06/18/23 08:33	06/18/23 18:36	76-44-8	
Heptachlor epoxide	ND	ug/L	0.0500	0.0183		1	06/18/23 08:33	06/18/23 18:36	1024-57-3	
Methoxychlor	ND	ug/L	0.0500	0.0193		1	06/18/23 08:33	06/18/23 18:36	72-43-5	
Toxaphene	ND	ug/L	0.500	0.168		1	06/18/23 08:33	06/18/23 18:36	8001-35-2	
Surrogates										
Decachlorobiphenyl (S)	34.8	%	10.0-128			1	06/18/23 08:33	06/18/23 18:36	2051-24-3	
Tetrachloro-m-xylene (S)	61.2	%	10.0-127			1	06/18/23 08:33	06/18/23 18:36	877-09-8	
6020 MET ICPMS		Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans								
Antimony	ND	mg/L	0.0020	0.00068		2	06/15/23 06:33	06/21/23 17:41	7440-36-0	
Arsenic	**0.0039**	mg/L	0.0020	0.00020		2	06/15/23 06:33	06/21/23 17:41	7440-38-2	
Barium	**0.081**	mg/L	0.0020	0.0013		2	06/15/23 06:33	06/21/23 17:41	7440-39-3	
Beryllium	ND	mg/L	0.0020	0.00042		2	06/15/23 06:33	06/21/23 17:41	7440-41-7	D3

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 15-I **Lab ID: 20279949010** Collected: 06/12/23 16:30 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Cadmium	**0.0012J**	mg/L	0.0020	0.00038		2	06/15/23 06:33	06/21/23 17:41	7440-43-9	
Chromium	**0.0020J**	mg/L	0.0020	0.0013		2	06/15/23 06:33	06/21/23 17:41	7440-47-3	
Cobalt	**0.00079J**	mg/L	0.0020	0.00024		2	06/15/23 06:33	06/21/23 17:41	7440-48-4	
Copper	**0.0067**	mg/L	0.0060	0.0034		2	06/15/23 06:33	06/21/23 17:41	7440-50-8	
Lead	ND	mg/L	0.0020	0.0014		2	06/15/23 06:33	06/21/23 17:41	7439-92-1	
Nickel	**0.0027**	mg/L	0.0020	0.0012		2	06/15/23 06:33	06/21/23 17:41	7440-02-0	
Selenium	ND	mg/L	0.0020	0.00052		2	06/15/23 06:33	06/21/23 17:41	7782-49-2	
Silver	ND	mg/L	0.0010	0.00040		2	06/15/23 06:33	06/21/23 17:41	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00022		2	06/15/23 06:33	06/21/23 17:41	7440-28-0	
Tin	**0.0014J**	mg/L	0.012	0.0013		2	06/15/23 06:33	06/21/23 17:41	7440-31-5	
Vanadium	**0.0021J**	mg/L	0.010	0.00046		2	06/15/23 06:33	06/21/23 17:41	7440-62-2	
Zinc	**0.045**	mg/L	0.020	0.014		2	06/15/23 06:33	06/21/23 17:41	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/16/23 06:15	06/26/23 14:43	7439-97-6	
SVOA (GC/MS) 8270 C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.167J**	ug/L	0.400	0.0447		1	06/22/23 15:40	06/23/23 15:24	123-91-1	B,H1,J
Surrogates										
Nitrobenzene-d5 (S)	51.8	%	10.0-120			1	06/22/23 15:40	06/23/23 15:24	4165-60-0	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	**0.192J**	ug/L	1.00	0.0886		1	06/17/23 06:33	06/17/23 21:54	83-32-9	J
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/17/23 06:33	06/17/23 21:54	208-96-8	
Acetophenone	ND	ug/L	10.0	0.208		1	06/17/23 06:33	06/17/23 21:54	98-86-2	
Aniline	ND	ug/L	10.0	1.65		1	06/17/23 06:33	06/17/23 21:54	62-53-3	R1
Anthracene	ND	ug/L	1.00	0.0804		1	06/17/23 06:33	06/17/23 21:54	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/17/23 06:33	06/17/23 21:54	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/17/23 06:33	06/17/23 21:54	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/17/23 06:33	06/17/23 21:54	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/17/23 06:33	06/17/23 21:54	191-24-2	
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/17/23 06:33	06/17/23 21:54	50-32-8	
Benzyl alcohol	ND	ug/L	10.0	0.563		1	06/17/23 06:33	06/17/23 21:54	100-51-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.116		1	06/17/23 06:33	06/17/23 21:54	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	0.137		1	06/17/23 06:33	06/17/23 21:54	111-44-4	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	0.210		1	06/17/23 06:33	06/17/23 21:54	108-60-1	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.0877		1	06/17/23 06:33	06/17/23 21:54	101-55-3	
4-Chloroaniline	ND	ug/L	10.0	0.234		1	06/17/23 06:33	06/17/23 21:54	106-47-8	
2-Chloronaphthalene	ND	ug/L	1.00	0.0648		1	06/17/23 06:33	06/17/23 21:54	91-58-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 15-I **Lab ID: 20279949010** Collected: 06/12/23 16:30 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.0926		1	06/17/23 06:33	06/17/23 21:54	7005-72-3	
Chrysene	ND	ug/L	1.00	0.130		1	06/17/23 06:33	06/17/23 21:54	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.00	0.0644		1	06/17/23 06:33	06/17/23 21:54	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/17/23 06:33	06/17/23 21:54	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.0713		1	06/17/23 06:33	06/17/23 21:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.132		1	06/17/23 06:33	06/17/23 21:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.0942		1	06/17/23 06:33	06/17/23 21:54	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10.0	0.212		1	06/17/23 06:33	06/17/23 21:54	91-94-1	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.0983		1	06/17/23 06:33	06/17/23 21:54	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.250		1	06/17/23 06:33	06/17/23 21:54	606-20-2	
Fluoranthene	ND	ug/L	1.00	0.102		1	06/17/23 06:33	06/17/23 21:54	206-44-0	
Fluorene	ND	ug/L	1.00	0.0844		1	06/17/23 06:33	06/17/23 21:54	86-73-7	
Hexachlorobenzene	ND	ug/L	1.00	0.0755		1	06/17/23 06:33	06/17/23 21:54	118-74-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.0968		1	06/17/23 06:33	06/17/23 21:54	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.0598		1	06/17/23 06:33	06/17/23 21:54	77-47-4	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/17/23 06:33	06/17/23 21:54	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/17/23 06:33	06/17/23 21:54	193-39-5	
Isophorone	ND	ug/L	10.0	0.143		1	06/17/23 06:33	06/17/23 21:54	78-59-1	
1-Methylnaphthalene	**0.0880J**	ug/L	1.00	0.0790		1	06/17/23 06:33	06/17/23 21:54	90-12-0	J
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/17/23 06:33	06/17/23 21:54	91-57-6	
2-Nitroaniline	ND	ug/L	10.0	0.102		1	06/17/23 06:33	06/17/23 21:54	88-74-4	
3-Nitroaniline	ND	ug/L	10.0	0.0869		1	06/17/23 06:33	06/17/23 21:54	99-09-2	
4-Nitroaniline	ND	ug/L	10.0	0.0910		1	06/17/23 06:33	06/17/23 21:54	100-01-6	
Naphthalene	ND	ug/L	1.00	0.159		1	06/17/23 06:33	06/17/23 21:54	91-20-3	
Nitrobenzene	ND	ug/L	10.0	0.297		1	06/17/23 06:33	06/17/23 21:54	98-95-3	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.998		1	06/17/23 06:33	06/17/23 21:54	62-75-9	
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/17/23 06:33	06/17/23 21:54	86-30-6	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.261		1	06/17/23 06:33	06/17/23 21:54	621-64-7	
Phenanthrene	ND	ug/L	1.00	0.112		1	06/17/23 06:33	06/17/23 21:54	85-01-8	
Pyridine	ND	ug/L	10.0	0.627		1	06/17/23 06:33	06/17/23 21:54	110-86-1	L0,R1
Butylbenzylphthalate	ND	ug/L	3.00	0.765		1	06/17/23 06:33	06/17/23 21:54	85-68-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/17/23 06:33	06/17/23 21:54	117-81-7	
Di-n-butylphthalate	ND	ug/L	3.00	0.453		1	06/17/23 06:33	06/17/23 21:54	84-74-2	
Diethylphthalate	**0.576J**	ug/L	3.00	0.287		1	06/17/23 06:33	06/17/23 21:54	84-66-2	J
Dimethylphthalate	ND	ug/L	3.00	0.260		1	06/17/23 06:33	06/17/23 21:54	131-11-3	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/17/23 06:33	06/17/23 21:54	117-84-0	
Pyrene	ND	ug/L	1.00	0.107		1	06/17/23 06:33	06/17/23 21:54	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	0.0647		1	06/17/23 06:33	06/17/23 21:54	95-94-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.0698		1	06/17/23 06:33	06/17/23 21:54	120-82-1	
4-Chloro-3-methylphenol	ND	ug/L	10.0	0.131		1	06/17/23 06:33	06/17/23 21:54	59-50-7	
2-Chlorophenol	ND	ug/L	10.0	0.133		1	06/17/23 06:33	06/17/23 21:54	95-57-8	
2,4-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/17/23 06:33	06/17/23 21:54	120-83-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 15-I **Lab ID: 20279949010** Collected: 06/12/23 16:30 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/17/23 06:33	06/17/23 21:54	105-67-9	
4,6-Dinitro-2-methylphenol	ND	ug/L	10.0	1.12		1	06/17/23 06:33	06/17/23 21:54	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10.0	5.93		1	06/17/23 06:33	06/17/23 21:54	51-28-5	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	0.0929		1	06/17/23 06:33	06/17/23 21:54	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/17/23 06:33	06/17/23 21:54		
2-Nitrophenol	ND	ug/L	10.0	0.117		1	06/17/23 06:33	06/17/23 21:54	88-75-5	
4-Nitrophenol	ND	ug/L	10.0	0.143		1	06/17/23 06:33	06/17/23 21:54	100-02-7	
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/17/23 06:33	06/17/23 21:54	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/17/23 06:33	06/17/23 21:54	108-95-2	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	0.231		1	06/17/23 06:33	06/17/23 21:54	58-90-2	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.109		1	06/17/23 06:33	06/17/23 21:54	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	0.100		1	06/17/23 06:33	06/17/23 21:54	88-06-2	
2-Acetylaminofluorene	ND	ug/L	10.0	0.253		1	06/17/23 06:33	06/22/23 18:56	53-96-3	
4-Aminobiphenyl	ND	ug/L	10.0	0.461		1	06/17/23 06:33	06/22/23 18:56	92-67-1	
Aramite	ND	ug/L	50.0	16.7		1	06/17/23 06:33	06/22/23 18:56	140-57-8	
Chlorobenzilate	ND	ug/L	50.0	3.84		1	06/17/23 06:33	06/22/23 18:56	510-15-6	
Diallate	ND	ug/L	10.0	0.524		1	06/17/23 06:33	06/22/23 18:56	2303-16-4	
2,6-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/17/23 06:33	06/22/23 18:56	87-65-0	
Dimethoate	ND	ug/L	50.0	5.05		1	06/17/23 06:33	06/22/23 18:56	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	10.0	3.69		1	06/17/23 06:33	06/22/23 18:56	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	1.71		1	06/17/23 06:33	06/22/23 18:56	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.0	3.39		1	06/17/23 06:33	06/22/23 18:56	119-93-7	
a,a-Dimethylphenylethylamine	ND	ug/L	50.0	3.13		1	06/17/23 06:33	06/22/23 18:56	122-09-8	
1,3-Dinitrobenzene	ND	ug/L	10.0	0.359		1	06/17/23 06:33	06/22/23 18:56	99-65-0	
Diphenylamine	ND	ug/L	10.0	2.37		1	06/17/23 06:33	06/17/23 21:54	122-39-4	
Dinoseb	ND	ug/L	50.0	8.01		1	06/17/23 06:33	06/22/23 18:56	88-85-7	
Ethyl methanesulfonate	ND	ug/L	10.0	0.326		1	06/17/23 06:33	06/22/23 18:56	62-50-0	
Famphur	ND	ug/L	20.0	3.92		1	06/17/23 06:33	06/22/23 18:56	52-85-7	
Hexachloropropene	ND	ug/L	50.0	0.149		1	06/17/23 06:33	06/22/23 18:56	1888-71-7	
Hexachlorophene	ND	ug/L	50.0	1.44		1	06/17/23 06:33	06/22/23 18:56	70-30-4	
Isodrin	ND	ug/L	10.0	4.11		1	06/17/23 06:33	06/22/23 18:56	465-73-6	
Isosafrole	ND	ug/L	10.0	3.88		1	06/17/23 06:33	06/22/23 18:56	120-58-1	
Kepone	ND	ug/L	20.0	2.66		1	06/17/23 06:33	06/22/23 18:56	143-50-0	
Methapyrilene	ND	ug/L	50.0	10.0		1	06/17/23 06:33	06/22/23 18:56	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.0	0.164		1	06/17/23 06:33	06/22/23 18:56	56-49-5	
Methyl methanesulfonate	ND	ug/L	50.0	3.40		1	06/17/23 06:33	06/22/23 18:56	66-27-3	
1,4-Naphthoquinone	ND	ug/L	50.0	5.56		1	06/17/23 06:33	06/22/23 18:56	130-15-4	
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/17/23 06:33	06/22/23 18:56	134-32-7	
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/17/23 06:33	06/22/23 18:56	91-59-8	
5-Nitro-o-toluidine	ND	ug/L	10.0	1.99		1	06/17/23 06:33	06/22/23 18:56	99-55-8	
4-Nitroquinoline-n-oxide	ND	ug/L	10.0	2.03		1	06/17/23 06:33	06/22/23 18:56	56-57-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 15-I **Lab ID: 20279949010** Collected: 06/12/23 16:30 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
N-Nitrosodiethylamine	ND	ug/L	10.0	3.57		1	06/17/23 06:33	06/22/23 18:56	55-18-5	
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	3.91		1	06/17/23 06:33	06/22/23 18:56	924-16-3	
N-Nitrosomethylethylamine	ND	ug/L	10.0	3.25		1	06/17/23 06:33	06/22/23 18:56	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	10.0	3.25		1	06/17/23 06:33	06/22/23 18:56	59-89-2	
N-Nitrosopiperidine	ND	ug/L	10.0	3.72		1	06/17/23 06:33	06/22/23 18:56	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.0	3.39		1	06/17/23 06:33	06/22/23 18:56	930-55-2	
Pentachlorobenzene	ND	ug/L	10.0	4.15		1	06/17/23 06:33	06/22/23 18:56	608-93-5	
Pentachloronitrobenzene	ND	ug/L	10.0	4.15		1	06/17/23 06:33	06/22/23 18:56	82-68-8	
Phenacetin	ND	ug/L	10.0	4.66		1	06/17/23 06:33	06/22/23 18:56	62-44-2	
p-Phenylenediamine	ND	ug/L	6900	387		1	06/17/23 06:33	06/22/23 18:56	106-50-3	
2-Picoline	ND	ug/L	50.0	6.83		1	06/17/23 06:33	06/22/23 18:56	109-06-8	
Pronamide	ND	ug/L	10.0	4.21		1	06/17/23 06:33	06/22/23 18:56	23950-58-5	
Safrole	ND	ug/L	10.0	3.68		1	06/17/23 06:33	06/22/23 18:56	94-59-7	
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	50.0	3.99		1	06/17/23 06:33	06/22/23 18:56	3689-24-5	
Thionazin	ND	ug/L	10.0	4.07		1	06/17/23 06:33	06/22/23 18:56	297-97-2	
O-Toluidine	ND	ug/L	10.0	3.53		1	06/17/23 06:33	06/22/23 18:56	95-53-4	
1,3,5-Trinitrobenzene	ND	ug/L	10.0	1.32		1	06/17/23 06:33	06/22/23 18:56	99-35-4	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	2.93		1	06/17/23 06:33	06/22/23 18:56	126-68-1	
Surrogates										
2-Fluorophenol (S)	32.6	%	10.0-120			1	06/17/23 06:33	06/17/23 21:54	367-12-4	
Phenol-d5 (S)	21.9	%	10.0-120			1	06/17/23 06:33	06/17/23 21:54	4165-62-2	
Nitrobenzene-d5 (S)	57.9	%	10.0-127			1	06/17/23 06:33	06/17/23 21:54	4165-60-0	
2-Fluorobiphenyl (S)	68.8	%	10.0-130			1	06/17/23 06:33	06/17/23 21:54	321-60-8	
2,4,6-Tribromophenol (S)	68.5	%	10.0-155			1	06/17/23 06:33	06/17/23 21:54	118-79-6	
Terphenyl-d14 (S)	77.2	%	10.0-128			1	06/17/23 06:33	06/17/23 21:54	1718-51-0	
SVOA (LCMS) SW-846 8321	Analytical Method: EPA 8321 Preparation Method: 8321 Pace National - Mt. Juliet									
2,4-D	ND	ug/L	2.00	1.00		1	06/15/23 15:07	06/19/23 02:06	94-75-7	
2,4,5-T	ND	ug/L	2.00	0.573		1	06/15/23 15:07	06/19/23 02:06	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.807		1	06/15/23 15:07	06/19/23 02:06	93-72-1	
Surrogates										
2,4-DB-d3 (S)	89.5	%	70.0-130			1	06/15/23 15:07	06/19/23 02:06	1219802-46-	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	06/18/23 08:57	06/18/23 08:57	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	06/18/23 08:57	06/18/23 08:57	107-02-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 15-I **Lab ID: 20279949010** Collected: 06/12/23 16:30 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B		Analytical Method: EPA 8260B Pace National - Mt. Juliet								
Acrylonitrile	ND	ug/L	10.0	0.671		1	06/18/23 08:57	06/18/23 08:57	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	06/18/23 08:57	06/18/23 08:57	107-05-1	
Benzene	ND	ug/L	1.00	0.0941		1	06/18/23 08:57	06/18/23 08:57	71-43-2	R1
Bromodichloromethane	ND	ug/L	1.00	0.136		1	06/18/23 08:57	06/18/23 08:57	75-27-4	L0,R1
Bromoform	ND	ug/L	1.00	0.129		1	06/18/23 08:57	06/18/23 08:57	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	06/18/23 08:57	06/18/23 08:57	74-83-9	
Carbon disulfide	**0.135J**	ug/L	1.00	0.0962		1	06/18/23 08:57	06/18/23 08:57	75-15-0	J
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	06/18/23 08:57	06/18/23 08:57	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116		1	06/18/23 08:57	06/18/23 08:57	108-90-7	L0,R1
Dibromochloromethane	ND	ug/L	1.00	0.140		1	06/18/23 08:57	06/18/23 08:57	124-48-1	L0,R1
Chloroethane	ND	ug/L	5.00	0.192		1	06/18/23 08:57	06/18/23 08:57	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	06/18/23 08:57	06/18/23 08:57	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	06/18/23 08:57	06/18/23 08:57	74-87-3	R1
Dibromomethane	ND	ug/L	1.00	0.122		1	06/18/23 08:57	06/18/23 08:57	74-95-3	L0
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	06/18/23 08:57	06/18/23 08:57	95-50-1	L0
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	06/18/23 08:57	06/18/23 08:57	110-57-6	R1
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	06/18/23 08:57	06/18/23 08:57	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	06/18/23 08:57	06/18/23 08:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	06/18/23 08:57	06/18/23 08:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	06/18/23 08:57	06/18/23 08:57	75-35-4	L0
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	06/18/23 08:57	06/18/23 08:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	06/18/23 08:57	06/18/23 08:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	06/18/23 08:57	06/18/23 08:57	78-87-5	L0,R1
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	06/18/23 08:57	06/18/23 08:57	10061-01-5	R1
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	06/18/23 08:57	06/18/23 08:57	10061-02-6	L0,R1
Ethylbenzene	ND	ug/L	1.00	0.173		1	06/18/23 08:57	06/18/23 08:57	100-41-4	L0,R1
2-Hexanone	ND	ug/L	10.0	0.787		1	06/18/23 08:57	06/18/23 08:57	591-78-6	L0,R1
Iodomethane	ND	ug/L	10.0	6.00		1	06/18/23 08:57	06/18/23 08:57	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	06/18/23 08:57	06/18/23 08:57	78-93-3	R1
Methylene Chloride	ND	ug/L	5.00	0.430		1	06/18/23 08:57	06/18/23 08:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	06/18/23 08:57	06/18/23 08:57	108-10-1	
Styrene	ND	ug/L	1.00	0.118		1	06/18/23 08:57	06/18/23 08:57	100-42-5	R1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	06/18/23 08:57	06/18/23 08:57	630-20-6	L0,R1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	06/18/23 08:57	06/18/23 08:57	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	06/18/23 08:57	06/18/23 08:57	127-18-4	R1
Toluene	ND	ug/L	1.00	0.278		1	06/18/23 08:57	06/18/23 08:57	108-88-3	L0,R1
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	06/18/23 08:57	06/18/23 08:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	06/18/23 08:57	06/18/23 08:57	79-00-5	L0
Trichloroethene	ND	ug/L	1.00	0.190		1	06/18/23 08:57	06/18/23 08:57	79-01-6	R1
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	06/18/23 08:57	06/18/23 08:57	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	06/18/23 08:57	06/18/23 08:57	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	06/18/23 08:57	06/18/23 08:57	108-05-4	
Vinyl chloride	ND	ug/L	1.00	0.234		1	06/18/23 08:57	06/18/23 08:57	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	06/18/23 08:57	06/18/23 08:57	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 15-I **Lab ID: 20279949010** Collected: 06/12/23 16:30 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Pace National - Mt. Juliet									
m&p-Xylene	ND	ug/L	2.00	0.430		1	06/18/23 08:57	06/18/23 08:57	179601-23-1	L0,R1
Xylene (Total)	ND	ug/L	3.00	0.174		1	06/18/23 08:57	06/18/23 08:57	1330-20-7	L0,R1
Acetonitrile	ND	ug/L	50.0	24.0		1	06/22/23 13:14	06/22/23 13:14	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	06/22/23 13:14	06/22/23 13:14	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	06/22/23 13:14	06/22/23 13:14	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	06/22/23 13:14	06/22/23 13:14	78-83-1	
Methacrylonitrile	ND	ug/L	50.0	14.2		1	06/22/23 13:14	06/22/23 13:14	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	06/22/23 13:14	06/22/23 13:14	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	06/22/23 13:14	06/22/23 13:14	76-01-7	
Propionitrile	ND	ug/L	50.0	16.2		1	06/22/23 13:14	06/22/23 13:14	107-12-0	
Surrogates										
Toluene-d8 (S)	100	%	80.0-120			1	06/18/23 08:57	06/18/23 08:57	2037-26-5	
Toluene-d8 (S)	97.0	%	80.0-120			1	06/22/23 13:14	06/22/23 13:14	2037-26-5	
1,2-Dichloroethane-d4 (S)	94.4	%	70.0-130			1	06/18/23 08:57	06/18/23 08:57	17060-07-0	
1,2-Dichloroethane-d4 (S)	102	%	70.0-130			1	06/22/23 13:14	06/22/23 13:14	17060-07-0	
4-Bromofluorobenzene (S)	95.3	%	77.0-126			1	06/18/23 08:57	06/18/23 08:57	460-00-4	
4-Bromofluorobenzene (S)	88.3	%	77.0-126			1	06/22/23 13:14	06/22/23 13:14	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012		1		06/15/23 08:32	18496-25-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay									
Cyanide	ND	mg/L	0.023	0.0069		1	06/26/23 08:00	06/26/23 10:22	57-12-5	
420.1 Phenolics, Total	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - New Orleans									
Phenolics, Total Recoverable	ND	mg/L	0.020	0.0093		1	07/06/23 13:13	07/07/23 10:25	64743-03-9	

Sample: 15-S **Lab ID: 20279949011** Collected: 06/12/23 15:55 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/18/23 08:33	06/18/23 18:45	309-00-2	
alpha-BHC	ND	ug/L	0.0500	0.0172		1	06/18/23 08:33	06/18/23 18:45	319-84-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 15-S **Lab ID: 20279949011** Collected: 06/12/23 15:55 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
beta-BHC	ND	ug/L	0.0500	0.0208		1	06/18/23 08:33	06/18/23 18:45	319-85-7	
delta-BHC	ND	ug/L	0.0500	0.0150		1	06/18/23 08:33	06/18/23 18:45	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.0500	0.0209		1	06/18/23 08:33	06/18/23 18:45	58-89-9	
Chlordane (Technical)	ND	ug/L	5.00	0.0198		1	06/18/23 08:33	06/18/23 18:45	57-74-9	
4,4'-DDD	ND	ug/L	0.0500	0.0177		1	06/18/23 08:33	06/18/23 18:45	72-54-8	
4,4'-DDE	ND	ug/L	0.0500	0.0154		1	06/18/23 08:33	06/18/23 18:45	72-55-9	
4,4'-DDT	ND	ug/L	0.0500	0.0198		1	06/18/23 08:33	06/18/23 18:45	50-29-3	
Dieldrin	ND	ug/L	0.0500	0.0162		1	06/18/23 08:33	06/18/23 18:45	60-57-1	
Endosulfan I	ND	ug/L	0.0500	0.0160		1	06/18/23 08:33	06/18/23 18:45	959-98-8	
Endosulfan II	ND	ug/L	0.0500	0.0164		1	06/18/23 08:33	06/18/23 18:45	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.0500	0.0217		1	06/18/23 08:33	06/18/23 18:45	1031-07-8	
Endrin	ND	ug/L	0.0500	0.0161		1	06/18/23 08:33	06/18/23 18:45	72-20-8	
Endrin aldehyde	ND	ug/L	0.0500	0.0237		1	06/18/23 08:33	06/18/23 18:45	7421-93-4	
Heptachlor	ND	ug/L	0.0500	0.0148		1	06/18/23 08:33	06/18/23 18:45	76-44-8	
Heptachlor epoxide	ND	ug/L	0.0500	0.0183		1	06/18/23 08:33	06/18/23 18:45	1024-57-3	
Methoxychlor	ND	ug/L	0.0500	0.0193		1	06/18/23 08:33	06/18/23 18:45	72-43-5	
Toxaphene	ND	ug/L	0.500	0.168		1	06/18/23 08:33	06/18/23 18:45	8001-35-2	
Surrogates										
Decachlorobiphenyl (S)	38.0	%	10.0-128			1	06/18/23 08:33	06/18/23 18:45	2051-24-3	
Tetrachloro-m-xylene (S)	67.0	%	10.0-127			1	06/18/23 08:33	06/18/23 18:45	877-09-8	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0050	0.0017		5	06/15/23 06:33	06/21/23 17:47	7440-36-0	
Arsenic	**0.0039J**	mg/L	0.0050	0.00050		5	06/15/23 06:33	06/21/23 17:47	7440-38-2	
Barium	**0.083**	mg/L	0.0050	0.0032		5	06/15/23 06:33	06/21/23 17:47	7440-39-3	
Beryllium	ND	mg/L	0.0050	0.0010		5	06/15/23 06:33	06/21/23 17:47	7440-41-7	D3
Cadmium	ND	mg/L	0.0050	0.00095		5	06/15/23 06:33	06/21/23 17:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0032		5	06/15/23 06:33	06/21/23 17:47	7440-47-3	
Cobalt	**0.0014J**	mg/L	0.0050	0.00060		5	06/15/23 06:33	06/21/23 17:47	7440-48-4	
Copper	ND	mg/L	0.015	0.0084		5	06/15/23 06:33	06/21/23 17:47	7440-50-8	
Lead	ND	mg/L	0.0050	0.0034		5	06/15/23 06:33	06/21/23 17:47	7439-92-1	
Nickel	ND	mg/L	0.0050	0.0031		5	06/15/23 06:33	06/21/23 17:47	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0013		5	06/15/23 06:33	06/21/23 17:47	7782-49-2	
Silver	ND	mg/L	0.0025	0.0010		5	06/15/23 06:33	06/21/23 17:47	7440-22-4	
Thallium	ND	mg/L	0.0025	0.00055		5	06/15/23 06:33	06/21/23 17:47	7440-28-0	
Tin	ND	mg/L	0.030	0.0032		5	06/15/23 06:33	06/21/23 17:47	7440-31-5	
Vanadium	ND	mg/L	0.025	0.0012		5	06/15/23 06:33	06/21/23 17:47	7440-62-2	
Zinc	**0.036J**	mg/L	0.050	0.036		5	06/15/23 06:33	06/21/23 17:47	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/16/23 06:15	06/26/23 15:07	7439-97-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 15-S **Lab ID: 20279949011** Collected: 06/12/23 15:55 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270 C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.0858J**	ug/L	0.400	0.0447		1	06/22/23 15:40	06/23/23 15:43	123-91-1	B,H1,J
Surrogates										
Nitrobenzene-d5 (S)	43.0	%	10.0-120			1	06/22/23 15:40	06/23/23 15:43	4165-60-0	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	**0.115J**	ug/L	1.05	0.0930		1.05	06/17/23 06:33	06/17/23 22:16	83-32-9	J
Acenaphthylene	ND	ug/L	1.05	0.0967		1.05	06/17/23 06:33	06/17/23 22:16	208-96-8	
Acetophenone	ND	ug/L	10.5	0.218		1.05	06/17/23 06:33	06/17/23 22:16	98-86-2	
Aniline	ND	ug/L	10.5	1.73		1.05	06/17/23 06:33	06/17/23 22:16	62-53-3	R1
Anthracene	ND	ug/L	1.05	0.0844		1.05	06/17/23 06:33	06/17/23 22:16	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.05	0.209		1.05	06/17/23 06:33	06/17/23 22:16	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.05	0.136		1.05	06/17/23 06:33	06/17/23 22:16	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.05	0.126		1.05	06/17/23 06:33	06/17/23 22:16	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.05	0.127		1.05	06/17/23 06:33	06/17/23 22:16	191-24-2	
Benzo(a)pyrene	ND	ug/L	1.05	0.0400		1.05	06/17/23 06:33	06/17/23 22:16	50-32-8	
Benzyl alcohol	ND	ug/L	10.5	0.591		1.05	06/17/23 06:33	06/17/23 22:16	100-51-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.5	0.122		1.05	06/17/23 06:33	06/17/23 22:16	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.5	0.144		1.05	06/17/23 06:33	06/17/23 22:16	111-44-4	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.5	0.221		1.05	06/17/23 06:33	06/17/23 22:16	108-60-1	
4-Bromophenylphenyl ether	ND	ug/L	10.5	0.0921		1.05	06/17/23 06:33	06/17/23 22:16	101-55-3	
4-Chloroaniline	ND	ug/L	10.5	0.246		1.05	06/17/23 06:33	06/17/23 22:16	106-47-8	
2-Chloronaphthalene	ND	ug/L	1.05	0.0680		1.05	06/17/23 06:33	06/17/23 22:16	91-58-7	
4-Chlorophenylphenyl ether	ND	ug/L	10.5	0.0972		1.05	06/17/23 06:33	06/17/23 22:16	7005-72-3	
Chrysene	ND	ug/L	1.05	0.136		1.05	06/17/23 06:33	06/17/23 22:16	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.05	0.0676		1.05	06/17/23 06:33	06/17/23 22:16	53-70-3	
Dibenzofuran	ND	ug/L	10.5	0.102		1.05	06/17/23 06:33	06/17/23 22:16	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.5	0.0749		1.05	06/17/23 06:33	06/17/23 22:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.5	0.139		1.05	06/17/23 06:33	06/17/23 22:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.5	0.0989		1.05	06/17/23 06:33	06/17/23 22:16	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10.5	0.223		1.05	06/17/23 06:33	06/17/23 22:16	91-94-1	
2,4-Dinitrotoluene	ND	ug/L	10.5	0.103		1.05	06/17/23 06:33	06/17/23 22:16	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.5	0.263		1.05	06/17/23 06:33	06/17/23 22:16	606-20-2	
Fluoranthene	ND	ug/L	1.05	0.107		1.05	06/17/23 06:33	06/17/23 22:16	206-44-0	
Fluorene	ND	ug/L	1.05	0.0886		1.05	06/17/23 06:33	06/17/23 22:16	86-73-7	
Hexachlorobenzene	ND	ug/L	1.05	0.0793		1.05	06/17/23 06:33	06/17/23 22:16	118-74-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.5	0.102		1.05	06/17/23 06:33	06/17/23 22:16	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	10.5	0.0628		1.05	06/17/23 06:33	06/17/23 22:16	77-47-4	
Hexachloroethane	ND	ug/L	10.5	0.133		1.05	06/17/23 06:33	06/17/23 22:16	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.05	0.293		1.05	06/17/23 06:33	06/17/23 22:16	193-39-5	
Isophorone	ND	ug/L	10.5	0.150		1.05	06/17/23 06:33	06/17/23 22:16	78-59-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 15-S **Lab ID: 20279949011** Collected: 06/12/23 15:55 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
1-Methylnaphthalene	ND	ug/L	1.05	0.0829		1.05	06/17/23 06:33	06/17/23 22:16	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.05	0.123		1.05	06/17/23 06:33	06/17/23 22:16	91-57-6	
2-Nitroaniline	ND	ug/L	10.5	0.107		1.05	06/17/23 06:33	06/17/23 22:16	88-74-4	
3-Nitroaniline	ND	ug/L	10.5	0.0912		1.05	06/17/23 06:33	06/17/23 22:16	99-09-2	
4-Nitroaniline	ND	ug/L	10.5	0.0956		1.05	06/17/23 06:33	06/17/23 22:16	100-01-6	
Naphthalene	ND	ug/L	1.05	0.167		1.05	06/17/23 06:33	06/17/23 22:16	91-20-3	
Nitrobenzene	ND	ug/L	10.5	0.312		1.05	06/17/23 06:33	06/17/23 22:16	98-95-3	
N-Nitrosodimethylamine	ND	ug/L	10.5	1.05		1.05	06/17/23 06:33	06/17/23 22:16	62-75-9	
N-Nitrosodiphenylamine	ND	ug/L	10.5	2.49		1.05	06/17/23 06:33	06/17/23 22:16	86-30-6	
N-Nitroso-di-n-propylamine	ND	ug/L	10.5	0.274		1.05	06/17/23 06:33	06/17/23 22:16	621-64-7	
Phenanthrene	ND	ug/L	1.05	0.118		1.05	06/17/23 06:33	06/17/23 22:16	85-01-8	
Pyridine	ND	ug/L	10.5	0.658		1.05	06/17/23 06:33	06/17/23 22:16	110-86-1	L0,R1
Butylbenzylphthalate	ND	ug/L	3.15	0.803		1.05	06/17/23 06:33	06/17/23 22:16	85-68-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.15	0.940		1.05	06/17/23 06:33	06/17/23 22:16	117-81-7	
Di-n-butylphthalate	ND	ug/L	3.15	0.476		1.05	06/17/23 06:33	06/17/23 22:16	84-74-2	
Diethylphthalate	**0.393J**	ug/L	3.15	0.301		1.05	06/17/23 06:33	06/17/23 22:16	84-66-2	J
Dimethylphthalate	ND	ug/L	3.15	0.273		1.05	06/17/23 06:33	06/17/23 22:16	131-11-3	
Di-n-octylphthalate	ND	ug/L	3.15	0.979		1.05	06/17/23 06:33	06/17/23 22:16	117-84-0	
Pyrene	ND	ug/L	1.05	0.112		1.05	06/17/23 06:33	06/17/23 22:16	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.5	0.0679		1.05	06/17/23 06:33	06/17/23 22:16	95-94-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.5	0.0733		1.05	06/17/23 06:33	06/17/23 22:16	120-82-1	
4-Chloro-3-methylphenol	ND	ug/L	10.5	0.138		1.05	06/17/23 06:33	06/17/23 22:16	59-50-7	
2-Chlorophenol	ND	ug/L	10.5	0.140		1.05	06/17/23 06:33	06/17/23 22:16	95-57-8	
2,4-Dichlorophenol	ND	ug/L	10.5	0.107		1.05	06/17/23 06:33	06/17/23 22:16	120-83-2	
2,4-Dimethylphenol	ND	ug/L	10.5	0.0668		1.05	06/17/23 06:33	06/17/23 22:16	105-67-9	
4,6-Dinitro-2-methylphenol	ND	ug/L	10.5	1.18		1.05	06/17/23 06:33	06/17/23 22:16	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10.5	6.23		1.05	06/17/23 06:33	06/17/23 22:16	51-28-5	
2-Methylphenol(o-Cresol)	ND	ug/L	10.5	0.0975		1.05	06/17/23 06:33	06/17/23 22:16	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.5	0.176		1.05	06/17/23 06:33	06/17/23 22:16		
2-Nitrophenol	ND	ug/L	10.5	0.123		1.05	06/17/23 06:33	06/17/23 22:16	88-75-5	
4-Nitrophenol	ND	ug/L	10.5	0.150		1.05	06/17/23 06:33	06/17/23 22:16	100-02-7	
Pentachlorophenol	ND	ug/L	10.5	0.329		1.05	06/17/23 06:33	06/17/23 22:16	87-86-5	
Phenol	ND	ug/L	10.5	4.55		1.05	06/17/23 06:33	06/17/23 22:16	108-95-2	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.5	0.243		1.05	06/17/23 06:33	06/17/23 22:16	58-90-2	
2,4,5-Trichlorophenol	ND	ug/L	10.5	0.114		1.05	06/17/23 06:33	06/17/23 22:16	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.5	0.105		1.05	06/17/23 06:33	06/17/23 22:16	88-06-2	
2-Acetylaminofluorene	ND	ug/L	10.0	0.253		1	06/23/23 06:40	06/24/23 03:14	53-96-3	H1
4-Aminobiphenyl	ND	ug/L	10.0	0.461		1	06/23/23 06:40	06/24/23 03:14	92-67-1	H1
Aramite	ND	ug/L	50.0	16.7		1	06/23/23 06:40	06/24/23 03:14	140-57-8	H1
Chlorobenzilate	ND	ug/L	50.0	3.84		1	06/23/23 06:40	06/24/23 03:14	510-15-6	H1
Diallate	ND	ug/L	10.0	0.524		1	06/23/23 06:40	06/24/23 03:14	2303-16-4	H1
2,6-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/23/23 06:40	06/24/23 03:14	87-65-0	H1
Dimethoate	ND	ug/L	50.0	5.05		1	06/23/23 06:40	06/24/23 03:14	60-51-5	H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 15-S **Lab ID: 20279949011** Collected: 06/12/23 15:55 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
P-Dimethylaminoazobenzene	ND	ug/L	10.0	3.69		1	06/23/23 06:40	06/24/23 03:14	60-11-7	H1
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	1.71		1	06/23/23 06:40	06/24/23 03:14	57-97-6	H1
3,3'-Dimethylbenzidine	ND	ug/L	10.0	3.39		1	06/23/23 06:40	06/24/23 03:14	119-93-7	H1
a,a-Dimethylphenylethylamine	ND	ug/L	50.0	3.13		1	06/23/23 06:40	06/24/23 03:14	122-09-8	H1
1,3-Dinitrobenzene	ND	ug/L	10.0	0.359		1	06/23/23 06:40	06/24/23 03:14	99-65-0	H1
Diphenylamine	ND	ug/L	10.5	2.49		1.05	06/17/23 06:33	06/17/23 22:16	122-39-4	
Dinoseb	ND	ug/L	50.0	8.01		1	06/23/23 06:40	06/24/23 03:14	88-85-7	H1
Ethyl methanesulfonate	ND	ug/L	10.0	0.326		1	06/23/23 06:40	06/24/23 03:14	62-50-0	H1
Famphur	ND	ug/L	20.0	3.92		1	06/23/23 06:40	06/24/23 03:14	52-85-7	H1
Hexachloropropene	ND	ug/L	50.0	0.149		1	06/23/23 06:40	06/24/23 03:14	1888-71-7	H1
Hexachlorophene	ND	ug/L	50.0	1.44		1	06/23/23 06:40	06/24/23 03:14	70-30-4	H1
Isodrin	ND	ug/L	10.0	4.11		1	06/23/23 06:40	06/24/23 03:14	465-73-6	H1
Isosafrole	ND	ug/L	10.0	3.88		1	06/23/23 06:40	06/24/23 03:14	120-58-1	H1
Kepone	ND	ug/L	20.0	2.66		1	06/23/23 06:40	06/24/23 03:14	143-50-0	H1
Methapyrilene	ND	ug/L	50.0	10.0		1	06/23/23 06:40	06/24/23 03:14	91-80-5	H1
3-Methylcholanthrene	ND	ug/L	10.0	0.164		1	06/23/23 06:40	06/24/23 03:14	56-49-5	H1
Methyl methanesulfonate	ND	ug/L	50.0	3.40		1	06/23/23 06:40	06/24/23 03:14	66-27-3	H1
1,4-Naphthoquinone	ND	ug/L	50.0	5.56		1	06/23/23 06:40	06/24/23 03:14	130-15-4	H1,L0
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/23/23 06:40	06/24/23 03:14	134-32-7	H1
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/23/23 06:40	06/24/23 03:14	91-59-8	H1
5-Nitro-o-toluidine	ND	ug/L	10.0	1.99		1	06/23/23 06:40	06/24/23 03:14	99-55-8	H1
4-Nitroquinoline-n-oxide	ND	ug/L	10.0	2.03		1	06/23/23 06:40	06/24/23 03:14	56-57-5	H1
N-Nitrosodiethylamine	ND	ug/L	10.0	3.57		1	06/23/23 06:40	06/24/23 03:14	55-18-5	H1
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	3.91		1	06/23/23 06:40	06/24/23 03:14	924-16-3	H1
N-Nitrosomethylethylamine	ND	ug/L	10.0	3.25		1	06/23/23 06:40	06/24/23 03:14	10595-95-6	H1
N-Nitrosomorpholine	ND	ug/L	10.0	3.25		1	06/23/23 06:40	06/24/23 03:14	59-89-2	H1
N-Nitrosopiperidine	ND	ug/L	10.0	3.72		1	06/23/23 06:40	06/24/23 03:14	100-75-4	H1
N-Nitrosopyrrolidine	ND	ug/L	10.0	3.39		1	06/23/23 06:40	06/24/23 03:14	930-55-2	H1
Pentachlorobenzene	ND	ug/L	10.0	4.15		1	06/23/23 06:40	06/24/23 03:14	608-93-5	H1
Pentachloronitrobenzene	ND	ug/L	10.0	4.15		1	06/23/23 06:40	06/24/23 03:14	82-68-8	H1
Phenacetin	ND	ug/L	10.0	4.66		1	06/23/23 06:40	06/24/23 03:14	62-44-2	H1
p-Phenylenediamine	ND	ug/L	6900	387		1	06/23/23 06:40	06/24/23 03:14	106-50-3	H1,L0
2-Picoline	ND	ug/L	50.0	6.83		1	06/23/23 06:40	06/24/23 03:14	109-06-8	H1
Pronamide	ND	ug/L	10.0	4.21		1	06/23/23 06:40	06/24/23 03:14	23950-58-5	H1
Safrole	ND	ug/L	10.0	3.68		1	06/23/23 06:40	06/24/23 03:14	94-59-7	H1
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	50.0	3.99		1	06/23/23 06:40	06/24/23 03:14	3689-24-5	H1
Thionazin	ND	ug/L	10.0	4.07		1	06/23/23 06:40	06/24/23 03:14	297-97-2	H1
O-Toluidine	ND	ug/L	10.0	3.53		1	06/23/23 06:40	06/24/23 03:14	95-53-4	H1
1,3,5-Trinitrobenzene	ND	ug/L	10.0	1.32		1	06/23/23 06:40	06/24/23 03:14	99-35-4	H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 15-S **Lab ID: 20279949011** Collected: 06/12/23 15:55 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	2.93		1	06/23/23 06:40	06/24/23 03:14	126-68-1	H1
Surrogates										
2-Fluorophenol (S)	35.4	%	10.0-120			1.05	06/17/23 06:33	06/17/23 22:16	367-12-4	
Phenol-d5 (S)	23.2	%	10.0-120			1.05	06/17/23 06:33	06/17/23 22:16	4165-62-2	
Nitrobenzene-d5 (S)	60.1	%	10.0-127			1.05	06/17/23 06:33	06/17/23 22:16	4165-60-0	
2-Fluorobiphenyl (S)	70.2	%	10.0-130			1.05	06/17/23 06:33	06/17/23 22:16	321-60-8	
2,4,6-Tribromophenol (S)	64.8	%	10.0-155			1.05	06/17/23 06:33	06/17/23 22:16	118-79-6	
Terphenyl-d14 (S)	78.4	%	10.0-128			1.05	06/17/23 06:33	06/17/23 22:16	1718-51-0	
SVOA (LCMS) SW-846 8321	Analytical Method: EPA 8321 Preparation Method: 8321 Pace National - Mt. Juliet									
2,4-D	ND	ug/L	2.00	1.00		1	06/15/23 15:07	06/19/23 02:24	94-75-7	
2,4,5-T	ND	ug/L	2.00	0.573		1	06/15/23 15:07	06/19/23 02:24	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.807		1	06/15/23 15:07	06/19/23 02:24	93-72-1	
Surrogates										
2,4-DB-d3 (S)	93.5	%	70.0-130			1	06/15/23 15:07	06/19/23 02:24	1219802-46-	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	06/18/23 09:17	06/18/23 09:17	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	06/18/23 09:17	06/18/23 09:17	107-02-8	
Acrylonitrile	ND	ug/L	10.0	0.671		1	06/18/23 09:17	06/18/23 09:17	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	06/18/23 09:17	06/18/23 09:17	107-05-1	
Benzene	ND	ug/L	1.00	0.0941		1	06/18/23 09:17	06/18/23 09:17	71-43-2	R1
Bromodichloromethane	ND	ug/L	1.00	0.136		1	06/18/23 09:17	06/18/23 09:17	75-27-4	L0,R1
Bromoform	ND	ug/L	1.00	0.129		1	06/18/23 09:17	06/18/23 09:17	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	06/18/23 09:17	06/18/23 09:17	74-83-9	
Carbon disulfide	**0.187J**	ug/L	1.00	0.0962		1	06/18/23 09:17	06/18/23 09:17	75-15-0	J
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	06/18/23 09:17	06/18/23 09:17	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116		1	06/18/23 09:17	06/18/23 09:17	108-90-7	L0,R1
Dibromochloromethane	ND	ug/L	1.00	0.140		1	06/18/23 09:17	06/18/23 09:17	124-48-1	L0,R1
Chloroethane	ND	ug/L	5.00	0.192		1	06/18/23 09:17	06/18/23 09:17	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	06/18/23 09:17	06/18/23 09:17	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	06/18/23 09:17	06/18/23 09:17	74-87-3	R1
Dibromomethane	ND	ug/L	1.00	0.122		1	06/18/23 09:17	06/18/23 09:17	74-95-3	L0
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	06/18/23 09:17	06/18/23 09:17	95-50-1	L0
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	06/18/23 09:17	06/18/23 09:17	110-57-6	R1
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	06/18/23 09:17	06/18/23 09:17	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	06/18/23 09:17	06/18/23 09:17	75-34-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 15-S **Lab ID: 20279949011** Collected: 06/12/23 15:55 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B		Analytical Method: EPA 8260B Pace National - Mt. Juliet								
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	06/18/23 09:17	06/18/23 09:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	06/18/23 09:17	06/18/23 09:17	75-35-4	L0
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	06/18/23 09:17	06/18/23 09:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	06/18/23 09:17	06/18/23 09:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	06/18/23 09:17	06/18/23 09:17	78-87-5	L0,R1
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	06/18/23 09:17	06/18/23 09:17	10061-01-5	R1
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	06/18/23 09:17	06/18/23 09:17	10061-02-6	L0,R1
Ethylbenzene	ND	ug/L	1.00	0.173		1	06/18/23 09:17	06/18/23 09:17	100-41-4	L0,R1
2-Hexanone	ND	ug/L	10.0	0.787		1	06/18/23 09:17	06/18/23 09:17	591-78-6	L0,R1
Iodomethane	ND	ug/L	10.0	6.00		1	06/18/23 09:17	06/18/23 09:17	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	06/18/23 09:17	06/18/23 09:17	78-93-3	R1
Methylene Chloride	ND	ug/L	5.00	0.430		1	06/18/23 09:17	06/18/23 09:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	06/18/23 09:17	06/18/23 09:17	108-10-1	
Styrene	ND	ug/L	1.00	0.118		1	06/18/23 09:17	06/18/23 09:17	100-42-5	R1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	06/18/23 09:17	06/18/23 09:17	630-20-6	L0,R1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	06/18/23 09:17	06/18/23 09:17	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	06/18/23 09:17	06/18/23 09:17	127-18-4	R1
Toluene	ND	ug/L	1.00	0.278		1	06/18/23 09:17	06/18/23 09:17	108-88-3	L0,R1
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	06/18/23 09:17	06/18/23 09:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	06/18/23 09:17	06/18/23 09:17	79-00-5	L0
Trichloroethene	ND	ug/L	1.00	0.190		1	06/18/23 09:17	06/18/23 09:17	79-01-6	R1
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	06/18/23 09:17	06/18/23 09:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	06/18/23 09:17	06/18/23 09:17	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	06/18/23 09:17	06/18/23 09:17	108-05-4	
Vinyl chloride	ND	ug/L	1.00	0.234		1	06/18/23 09:17	06/18/23 09:17	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	06/18/23 09:17	06/18/23 09:17	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	06/18/23 09:17	06/18/23 09:17	179601-23-1	L0,R1
Xylene (Total)	ND	ug/L	3.00	0.174		1	06/18/23 09:17	06/18/23 09:17	1330-20-7	L0,R1
Acetonitrile	ND	ug/L	50.0	24.0		1	06/22/23 13:35	06/22/23 13:35	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	06/22/23 13:35	06/22/23 13:35	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	06/22/23 13:35	06/22/23 13:35	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	06/22/23 13:35	06/22/23 13:35	78-83-1	
Methacrylonitrile	ND	ug/L	50.0	14.2		1	06/22/23 13:35	06/22/23 13:35	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	06/22/23 13:35	06/22/23 13:35	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	06/22/23 13:35	06/22/23 13:35	76-01-7	
Propionitrile	ND	ug/L	50.0	16.2		1	06/22/23 13:35	06/22/23 13:35	107-12-0	
Surrogates										
Toluene-d8 (S)	97.0	%	80.0-120			1	06/18/23 09:17	06/18/23 09:17	2037-26-5	
Toluene-d8 (S)	98.4	%	80.0-120			1	06/22/23 13:35	06/22/23 13:35	2037-26-5	
1,2-Dichloroethane-d4 (S)	96.6	%	70.0-130			1	06/18/23 09:17	06/18/23 09:17	17060-07-0	
1,2-Dichloroethane-d4 (S)	102	%	70.0-130			1	06/22/23 13:35	06/22/23 13:35	17060-07-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 15-S **Lab ID: 20279949011** Collected: 06/12/23 15:55 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B		Analytical Method: EPA 8260B Pace National - Mt. Juliet								
Surrogates										
4-Bromofluorobenzene (S)	94.1	%	77.0-126			1	06/18/23 09:17	06/18/23 09:17	460-00-4	
4-Bromofluorobenzene (S)	87.0	%	77.0-126			1	06/22/23 13:35	06/22/23 13:35	460-00-4	
4500S2D Sulfide, Total		Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans								
Sulfide, Total	ND	mg/L	0.020	0.012		1		06/15/23 15:28	18496-25-8	
335.4 Cyanide, Total		Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay								
Cyanide	ND	mg/L	0.023	0.0069		1	06/26/23 08:00	06/26/23 10:22	57-12-5	
420.1 Phenolics, Total		Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - New Orleans								
Phenolics, Total Recoverable	**0.024**	mg/L	0.020	0.0093		1	07/06/23 13:13	07/07/23 10:25	64743-03-9	B

Sample: 16-D **Lab ID: 20279949012** Collected: 06/12/23 13:36 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
EDB / DBCP 8011		Analytical Method: EPA 8011 Preparation Method: 8011/504.1 Pace National - Mt. Juliet								
1,2-Dibromoethane (EDB)	ND	ug/L	0.0212	0.00568		1.06	06/20/23 06:55	06/20/23 14:25	106-93-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	0.0212	0.00793		1.06	06/20/23 06:55	06/20/23 14:25	96-12-8	
Pesticides (GC) 8081		Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet								
Aldrin	ND	ug/L	0.0500	0.0198		1	06/18/23 08:33	06/18/23 18:54	309-00-2	
alpha-BHC	ND	ug/L	0.0500	0.0172		1	06/18/23 08:33	06/18/23 18:54	319-84-6	
beta-BHC	ND	ug/L	0.0500	0.0208		1	06/18/23 08:33	06/18/23 18:54	319-85-7	
delta-BHC	ND	ug/L	0.0500	0.0150		1	06/18/23 08:33	06/18/23 18:54	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.0500	0.0209		1	06/18/23 08:33	06/18/23 18:54	58-89-9	
Chlordane (Technical)	ND	ug/L	5.00	0.0198		1	06/18/23 08:33	06/18/23 18:54	57-74-9	
4,4'-DDD	ND	ug/L	0.0500	0.0177		1	06/18/23 08:33	06/18/23 18:54	72-54-8	
4,4'-DDE	ND	ug/L	0.0500	0.0154		1	06/18/23 08:33	06/18/23 18:54	72-55-9	
4,4'-DDT	ND	ug/L	0.0500	0.0198		1	06/18/23 08:33	06/18/23 18:54	50-29-3	
Dieldrin	ND	ug/L	0.0500	0.0162		1	06/18/23 08:33	06/18/23 18:54	60-57-1	
Endosulfan I	ND	ug/L	0.0500	0.0160		1	06/18/23 08:33	06/18/23 18:54	959-98-8	
Endosulfan II	ND	ug/L	0.0500	0.0164		1	06/18/23 08:33	06/18/23 18:54	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.0500	0.0217		1	06/18/23 08:33	06/18/23 18:54	1031-07-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 16-D **Lab ID: 20279949012** Collected: 06/12/23 13:36 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Endrin	ND	ug/L	0.0500	0.0161		1	06/18/23 08:33	06/18/23 18:54	72-20-8	
Endrin aldehyde	ND	ug/L	0.0500	0.0237		1	06/18/23 08:33	06/18/23 18:54	7421-93-4	
Heptachlor	ND	ug/L	0.0500	0.0148		1	06/18/23 08:33	06/18/23 18:54	76-44-8	
Heptachlor epoxide	ND	ug/L	0.0500	0.0183		1	06/18/23 08:33	06/18/23 18:54	1024-57-3	
Methoxychlor	ND	ug/L	0.0500	0.0193		1	06/18/23 08:33	06/18/23 18:54	72-43-5	
Toxaphene	ND	ug/L	0.500	0.168		1	06/18/23 08:33	06/18/23 18:54	8001-35-2	
Surrogates										
Decachlorobiphenyl (S)	32.6	%	10.0-128			1	06/18/23 08:33	06/18/23 18:54	2051-24-3	
Tetrachloro-m-xylene (S)	61.4	%	10.0-127			1	06/18/23 08:33	06/18/23 18:54	877-09-8	
OP Pesticides 8141	Analytical Method: EPA 8141 Preparation Method: 3510C Pace National - Mt. Juliet									
Azinphos, methyl (Guthion)	ND	ug/L	1.00	0.534		1	06/15/23 07:46	06/16/23 21:05	86-50-0	
Bolstar	ND	ug/L	1.00	0.214		1	06/15/23 07:46	06/16/23 21:05	35400-43-2	
Chlorpyrifos	ND	ug/L	1.00	0.320		1	06/15/23 07:46	06/16/23 21:05	2921-88-2	
Coumaphos	ND	ug/L	1.00	0.410		1	06/15/23 07:46	06/16/23 21:05	56-72-4	
Total Demeton	ND	ug/L	2.00	0.626		1	06/15/23 07:46	06/16/23 21:05	8065-48-3	
Diazinon	ND	ug/L	1.00	0.302		1	06/15/23 07:46	06/16/23 21:05	333-41-5	
Dichlorvos	ND	ug/L	2.00	0.196		1	06/15/23 07:46	06/16/23 21:05	62-73-7	
Dimethoate	ND	ug/L	1.00	0.327		1	06/15/23 07:46	06/16/23 21:05	60-51-5	
Disulfoton	ND	ug/L	1.00	0.227		1	06/15/23 07:46	06/16/23 21:05	298-04-4	
EPN (ENT)	ND	ug/L	1.00	0.129		1	06/15/23 07:46	06/16/23 21:05	2104-64-5	
Ethoprop	ND	ug/L	1.00	0.293		1	06/15/23 07:46	06/16/23 21:05	13194-48-4	
Parathion (Ethyl parathion)	ND	ug/L	1.00	0.454		1	06/15/23 07:46	06/16/23 21:05	56-38-2	
Fensulfothion	ND	ug/L	2.00	0.405		1	06/15/23 07:46	06/16/23 21:05	115-90-2	
Fenthion	ND	ug/L	1.00	0.213		1	06/15/23 07:46	06/16/23 21:05	55-38-9	
Malathion	ND	ug/L	1.00	0.354		1	06/15/23 07:46	06/16/23 21:05	121-75-5	
Merphos	ND	ug/L	2.00	1.32		1	06/15/23 07:46	06/16/23 21:05	150-50-5	
Methyl parathion	ND	ug/L	1.00	0.383		1	06/15/23 07:46	06/16/23 21:05	298-00-0	
Mevinphos	ND	ug/L	1.00	0.275		1	06/15/23 07:46	06/16/23 21:05	7786-34-7	
Naled	ND	ug/L	1.00	0.594		1	06/15/23 07:46	06/16/23 21:05	300-76-5	
Phorate	ND	ug/L	1.00	0.276		1	06/15/23 07:46	06/16/23 21:05	298-02-2	
Ronnel	ND	ug/L	1.00	0.277		1	06/15/23 07:46	06/16/23 21:05	299-84-3	
Stirophos (Tetrachlorvinphos)	ND	ug/L	1.00	0.277		1	06/15/23 07:46	06/16/23 21:05	22248-79-9	
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	1.00	0.181		1	06/15/23 07:46	06/16/23 21:05	3689-24-5	
TEPP	ND	ug/L	10.0	3.11		1	06/15/23 07:46	06/16/23 21:05	107-49-3	
Tokuthion (Prothiofos)	ND	ug/L	1.00	0.241		1	06/15/23 07:46	06/16/23 21:05	34643-46-4	
Trichloronate	ND	ug/L	1.00	0.306		1	06/15/23 07:46	06/16/23 21:05	327-98-0	
Surrogates										
Triphenylphosphate (S)	52.6	%	42.0-129			1	06/15/23 07:46	06/16/23 21:05	115-86-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 16-D **Lab ID: 20279949012** Collected: 06/12/23 13:36 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 8082A	Analytical Method: EPA 8082 Preparation Method: EPA 3510C Pace Analytical Gulf Coast									
PCB-1016 (Aroclor 1016)	ND	ug/L	0.510	0.204		1	06/16/23 05:00	06/17/23 16:11	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	1.02	0.408		1	06/16/23 05:00	06/17/23 16:11	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.510	0.204		1	06/16/23 05:00	06/17/23 16:11	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.510	0.204		1	06/16/23 05:00	06/17/23 16:11	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.510	0.204		1	06/16/23 05:00	06/17/23 16:11	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.510	0.204		1	06/16/23 05:00	06/17/23 16:11	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.510	0.204		1	06/16/23 05:00	06/17/23 16:11	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/L	0.510	0.204		1	06/16/23 05:00	06/17/23 16:11	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/L	1.02	0.306		1	06/16/23 05:00	06/17/23 16:11	11100-14-4	
PCB, Total	ND	ug/L	1.02	0.408		1	06/16/23 05:00	06/17/23 16:11	1336-36-3	
Surrogates										
Decachlorobiphenyl (S)	74	%	30-139			1	06/16/23 05:00	06/17/23 16:11	2051-24-3	
Tetrachloro-m-xylene (S)	70	%	48-137			1	06/16/23 05:00	06/17/23 16:11	877-09-8	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	**0.00058J**	mg/L	0.0010	0.00034		1	06/15/23 06:33	06/20/23 17:56	7440-36-0	
Arsenic	**0.00055J**	mg/L	0.0010	0.00010		1	06/15/23 06:33	06/20/23 17:56	7440-38-2	
Barium	**0.046**	mg/L	0.0010	0.00064		1	06/15/23 06:33	06/20/23 17:56	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00021		1	06/15/23 06:33	06/20/23 17:56	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.00019		1	06/15/23 06:33	06/20/23 17:56	7440-43-9	
Chromium	**0.0025**	mg/L	0.0010	0.00063		1	06/15/23 06:33	06/20/23 17:56	7440-47-3	
Cobalt	**0.00019J**	mg/L	0.0010	0.00012		1	06/15/23 06:33	06/20/23 17:56	7440-48-4	
Copper	ND	mg/L	0.0030	0.0017		1	06/15/23 06:33	06/20/23 17:56	7440-50-8	
Lead	**0.00091J**	mg/L	0.0010	0.00069		1	06/15/23 06:33	06/20/23 17:56	7439-92-1	
Nickel	**0.0017**	mg/L	0.0010	0.00062		1	06/15/23 06:33	06/20/23 17:56	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00026		1	06/15/23 06:33	06/20/23 17:56	7782-49-2	
Silver	ND	mg/L	0.00050	0.00020		1	06/15/23 06:33	06/20/23 17:56	7440-22-4	
Thallium	ND	mg/L	0.00050	0.00011		1	06/15/23 06:33	06/20/23 17:56	7440-28-0	
Tin	**0.00066J**	mg/L	0.0060	0.00065		1	06/15/23 06:33	06/20/23 17:56	7440-31-5	
Vanadium	**0.0013J**	mg/L	0.0050	0.00023		1	06/15/23 06:33	06/20/23 17:56	7440-62-2	
Zinc	**0.014**	mg/L	0.010	0.0072		1	06/15/23 06:33	06/20/23 17:56	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	**0.00020**	mg/L	0.00020	0.00010		1	06/16/23 06:15	06/26/23 14:49	7439-97-6	
SVOA (GC/MS) 8270 C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.273J**	ug/L	0.400	0.0447		1	06/22/23 15:40	06/23/23 16:02	123-91-1	B,H1,J
Surrogates										
Nitrobenzene-d5 (S)	82.3	%	10.0-120			1	06/22/23 15:40	06/23/23 16:02	4165-60-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 16-D **Lab ID: 20279949012** Collected: 06/12/23 13:36 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	**0.180J**	ug/L	1.05	0.0930		1.05	06/17/23 06:33	06/17/23 22:38	83-32-9	J
Acenaphthylene	ND	ug/L	1.05	0.0967		1.05	06/17/23 06:33	06/17/23 22:38	208-96-8	
Acetophenone	ND	ug/L	10.5	0.218		1.05	06/17/23 06:33	06/17/23 22:38	98-86-2	
Aniline	ND	ug/L	10.5	1.73		1.05	06/17/23 06:33	06/17/23 22:38	62-53-3	R1
Anthracene	ND	ug/L	1.05	0.0844		1.05	06/17/23 06:33	06/17/23 22:38	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.05	0.209		1.05	06/17/23 06:33	06/17/23 22:38	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.05	0.136		1.05	06/17/23 06:33	06/17/23 22:38	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.05	0.126		1.05	06/17/23 06:33	06/17/23 22:38	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.05	0.127		1.05	06/17/23 06:33	06/17/23 22:38	191-24-2	
Benzo(a)pyrene	ND	ug/L	1.05	0.0400		1.05	06/17/23 06:33	06/17/23 22:38	50-32-8	
Benzyl alcohol	ND	ug/L	10.5	0.591		1.05	06/17/23 06:33	06/17/23 22:38	100-51-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.5	0.122		1.05	06/17/23 06:33	06/17/23 22:38	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.5	0.144		1.05	06/17/23 06:33	06/17/23 22:38	111-44-4	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.5	0.221		1.05	06/17/23 06:33	06/17/23 22:38	108-60-1	
4-Bromophenylphenyl ether	ND	ug/L	10.5	0.0921		1.05	06/17/23 06:33	06/17/23 22:38	101-55-3	
4-Chloroaniline	ND	ug/L	10.5	0.246		1.05	06/17/23 06:33	06/17/23 22:38	106-47-8	
2-Chloronaphthalene	ND	ug/L	1.05	0.0680		1.05	06/17/23 06:33	06/17/23 22:38	91-58-7	
4-Chlorophenylphenyl ether	ND	ug/L	10.5	0.0972		1.05	06/17/23 06:33	06/17/23 22:38	7005-72-3	
Chrysene	ND	ug/L	1.05	0.136		1.05	06/17/23 06:33	06/17/23 22:38	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.05	0.0676		1.05	06/17/23 06:33	06/17/23 22:38	53-70-3	
Dibenzofuran	ND	ug/L	10.5	0.102		1.05	06/17/23 06:33	06/17/23 22:38	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.5	0.0749		1.05	06/17/23 06:33	06/17/23 22:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.5	0.139		1.05	06/17/23 06:33	06/17/23 22:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.5	0.0989		1.05	06/17/23 06:33	06/17/23 22:38	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10.5	0.223		1.05	06/17/23 06:33	06/17/23 22:38	91-94-1	
2,4-Dinitrotoluene	ND	ug/L	10.5	0.103		1.05	06/17/23 06:33	06/17/23 22:38	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.5	0.263		1.05	06/17/23 06:33	06/17/23 22:38	606-20-2	
Fluoranthene	ND	ug/L	1.05	0.107		1.05	06/17/23 06:33	06/17/23 22:38	206-44-0	
Fluorene	ND	ug/L	1.05	0.0886		1.05	06/17/23 06:33	06/17/23 22:38	86-73-7	
Hexachlorobenzene	ND	ug/L	1.05	0.0793		1.05	06/17/23 06:33	06/17/23 22:38	118-74-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.5	0.102		1.05	06/17/23 06:33	06/17/23 22:38	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	10.5	0.0628		1.05	06/17/23 06:33	06/17/23 22:38	77-47-4	
Hexachloroethane	ND	ug/L	10.5	0.133		1.05	06/17/23 06:33	06/17/23 22:38	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.05	0.293		1.05	06/17/23 06:33	06/17/23 22:38	193-39-5	
Isophorone	ND	ug/L	10.5	0.150		1.05	06/17/23 06:33	06/17/23 22:38	78-59-1	
1-Methylnaphthalene	**0.118J**	ug/L	1.05	0.0829		1.05	06/17/23 06:33	06/17/23 22:38	90-12-0	J
2-Methylnaphthalene	ND	ug/L	1.05	0.123		1.05	06/17/23 06:33	06/17/23 22:38	91-57-6	
2-Nitroaniline	ND	ug/L	10.5	0.107		1.05	06/17/23 06:33	06/17/23 22:38	88-74-4	
3-Nitroaniline	ND	ug/L	10.5	0.0912		1.05	06/17/23 06:33	06/17/23 22:38	99-09-2	
4-Nitroaniline	ND	ug/L	10.5	0.0956		1.05	06/17/23 06:33	06/17/23 22:38	100-01-6	
Naphthalene	ND	ug/L	1.05	0.167		1.05	06/17/23 06:33	06/17/23 22:38	91-20-3	
Nitrobenzene	ND	ug/L	10.5	0.312		1.05	06/17/23 06:33	06/17/23 22:38	98-95-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 16-D **Lab ID: 20279949012** Collected: 06/12/23 13:36 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
N-Nitrosodimethylamine	ND	ug/L	10.5	1.05		1.05	06/17/23 06:33	06/17/23 22:38	62-75-9	
N-Nitrosodiphenylamine	ND	ug/L	10.5	2.49		1.05	06/17/23 06:33	06/17/23 22:38	86-30-6	
N-Nitroso-di-n-propylamine	ND	ug/L	10.5	0.274		1.05	06/17/23 06:33	06/17/23 22:38	621-64-7	
Phenanthrene	**0.131J**	ug/L	1.05	0.118		1.05	06/17/23 06:33	06/17/23 22:38	85-01-8	J
Pyridine	ND	ug/L	10.5	0.658		1.05	06/17/23 06:33	06/17/23 22:38	110-86-1	L0,R1
Butylbenzylphthalate	ND	ug/L	3.15	0.803		1.05	06/17/23 06:33	06/17/23 22:38	85-68-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.15	0.940		1.05	06/17/23 06:33	06/17/23 22:38	117-81-7	
Di-n-butylphthalate	ND	ug/L	3.15	0.476		1.05	06/17/23 06:33	06/17/23 22:38	84-74-2	
Diethylphthalate	ND	ug/L	3.15	0.301		1.05	06/17/23 06:33	06/17/23 22:38	84-66-2	
Dimethylphthalate	ND	ug/L	3.15	0.273		1.05	06/17/23 06:33	06/17/23 22:38	131-11-3	
Di-n-octylphthalate	ND	ug/L	3.15	0.979		1.05	06/17/23 06:33	06/17/23 22:38	117-84-0	
Pyrene	ND	ug/L	1.05	0.112		1.05	06/17/23 06:33	06/17/23 22:38	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.5	0.0679		1.05	06/17/23 06:33	06/17/23 22:38	95-94-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.5	0.0733		1.05	06/17/23 06:33	06/17/23 22:38	120-82-1	
4-Chloro-3-methylphenol	ND	ug/L	10.5	0.138		1.05	06/17/23 06:33	06/17/23 22:38	59-50-7	
2-Chlorophenol	ND	ug/L	10.5	0.140		1.05	06/17/23 06:33	06/17/23 22:38	95-57-8	
2,4-Dichlorophenol	ND	ug/L	10.5	0.107		1.05	06/17/23 06:33	06/17/23 22:38	120-83-2	
2,4-Dimethylphenol	ND	ug/L	10.5	0.0668		1.05	06/17/23 06:33	06/17/23 22:38	105-67-9	
4,6-Dinitro-2-methylphenol	ND	ug/L	10.5	1.18		1.05	06/17/23 06:33	06/17/23 22:38	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10.5	6.23		1.05	06/17/23 06:33	06/17/23 22:38	51-28-5	
2-Methylphenol(o-Cresol)	ND	ug/L	10.5	0.0975		1.05	06/17/23 06:33	06/17/23 22:38	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.5	0.176		1.05	06/17/23 06:33	06/17/23 22:38		
2-Nitrophenol	ND	ug/L	10.5	0.123		1.05	06/17/23 06:33	06/17/23 22:38	88-75-5	
4-Nitrophenol	ND	ug/L	10.5	0.150		1.05	06/17/23 06:33	06/17/23 22:38	100-02-7	
Pentachlorophenol	ND	ug/L	10.5	0.329		1.05	06/17/23 06:33	06/17/23 22:38	87-86-5	
Phenol	ND	ug/L	10.5	4.55		1.05	06/17/23 06:33	06/17/23 22:38	108-95-2	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.5	0.243		1.05	06/17/23 06:33	06/17/23 22:38	58-90-2	
2,4,5-Trichlorophenol	ND	ug/L	10.5	0.114		1.05	06/17/23 06:33	06/17/23 22:38	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.5	0.105		1.05	06/17/23 06:33	06/17/23 22:38	88-06-2	
2-Acetylaminofluorene	ND	ug/L	10.5	0.266		1.05	06/17/23 06:33	06/22/23 19:17	53-96-3	
4-Aminobiphenyl	ND	ug/L	10.5	0.484		1.05	06/17/23 06:33	06/22/23 19:17	92-67-1	
Aramite	ND	ug/L	52.5	17.5		1.05	06/17/23 06:33	06/22/23 19:17	140-57-8	
Chlorobenzilate	ND	ug/L	52.5	4.03		1.05	06/17/23 06:33	06/22/23 19:17	510-15-6	
Diallate	ND	ug/L	10.5	0.550		1.05	06/17/23 06:33	06/22/23 19:17	2303-16-4	
2,6-Dichlorophenol	ND	ug/L	10.5	0.107		1.05	06/17/23 06:33	06/22/23 19:17	87-65-0	
Dimethoate	ND	ug/L	52.5	5.30		1.05	06/17/23 06:33	06/22/23 19:17	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	10.5	3.87		1.05	06/17/23 06:33	06/22/23 19:17	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.5	1.80		1.05	06/17/23 06:33	06/22/23 19:17	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.5	3.56		1.05	06/17/23 06:33	06/22/23 19:17	119-93-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 16-D **Lab ID: 20279949012** Collected: 06/12/23 13:36 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
a,a-Dimethylphenylethylamine	ND	ug/L	52.5	3.29		1.05	06/17/23 06:33	06/22/23 19:17	122-09-8	
1,3-Dinitrobenzene	ND	ug/L	10.5	0.377		1.05	06/17/23 06:33	06/22/23 19:17	99-65-0	
Diphenylamine	ND	ug/L	10.5	2.49		1.05	06/17/23 06:33	06/17/23 22:38	122-39-4	
Dinoseb	ND	ug/L	52.5	8.41		1.05	06/17/23 06:33	06/22/23 19:17	88-85-7	
Ethyl methanesulfonate	ND	ug/L	10.5	0.342		1.05	06/17/23 06:33	06/22/23 19:17	62-50-0	
Famphur	ND	ug/L	21.0	4.12		1.05	06/17/23 06:33	06/22/23 19:17	52-85-7	
Hexachloropropene	ND	ug/L	52.5	0.156		1.05	06/17/23 06:33	06/22/23 19:17	1888-71-7	
Hexachlorophene	ND	ug/L	52.5	1.51		1.05	06/17/23 06:33	06/22/23 19:17	70-30-4	
Isodrin	ND	ug/L	10.5	4.32		1.05	06/17/23 06:33	06/22/23 19:17	465-73-6	
Isosafrole	ND	ug/L	10.5	4.07		1.05	06/17/23 06:33	06/22/23 19:17	120-58-1	
Kepone	ND	ug/L	21.0	2.79		1.05	06/17/23 06:33	06/22/23 19:17	143-50-0	
Methapyrilene	ND	ug/L	52.5	10.5		1.05	06/17/23 06:33	06/22/23 19:17	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.5	0.172		1.05	06/17/23 06:33	06/22/23 19:17	56-49-5	
Methyl methanesulfonate	ND	ug/L	52.5	3.57		1.05	06/17/23 06:33	06/22/23 19:17	66-27-3	
1,4-Naphthoquinone	ND	ug/L	52.5	5.84		1.05	06/17/23 06:33	06/22/23 19:17	130-15-4	
1-Naphthalenamine	ND	ug/L	10.5	0.303		1.05	06/17/23 06:33	06/22/23 19:17	134-32-7	
2-Naphthalenamine	ND	ug/L	10.5	4.70		1.05	06/17/23 06:33	06/22/23 19:17	91-59-8	
5-Nitro-o-toluidine	ND	ug/L	10.5	2.09		1.05	06/17/23 06:33	06/22/23 19:17	99-55-8	
4-Nitroquinoline-n-oxide	ND	ug/L	10.5	2.13		1.05	06/17/23 06:33	06/22/23 19:17	56-57-5	
N-Nitrosodiethylamine	ND	ug/L	10.5	3.75		1.05	06/17/23 06:33	06/22/23 19:17	55-18-5	
N-Nitroso-di-n-butylamine	ND	ug/L	10.5	4.11		1.05	06/17/23 06:33	06/22/23 19:17	924-16-3	
N-Nitrosomethylethylamine	ND	ug/L	10.5	3.41		1.05	06/17/23 06:33	06/22/23 19:17	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	10.5	3.41		1.05	06/17/23 06:33	06/22/23 19:17	59-89-2	
N-Nitrosopiperidine	ND	ug/L	10.5	3.91		1.05	06/17/23 06:33	06/22/23 19:17	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.5	3.56		1.05	06/17/23 06:33	06/22/23 19:17	930-55-2	
Pentachlorobenzene	ND	ug/L	10.5	4.36		1.05	06/17/23 06:33	06/22/23 19:17	608-93-5	
Pentachloronitrobenzene	ND	ug/L	10.5	4.36		1.05	06/17/23 06:33	06/22/23 19:17	82-68-8	
Phenacetin	ND	ug/L	10.5	4.89		1.05	06/17/23 06:33	06/22/23 19:17	62-44-2	
p-Phenylenediamine	ND	ug/L	7250	406		1.05	06/17/23 06:33	06/22/23 19:17	106-50-3	
2-Picoline	ND	ug/L	52.5	7.17		1.05	06/17/23 06:33	06/22/23 19:17	109-06-8	
Pronamide	ND	ug/L	10.5	4.42		1.05	06/17/23 06:33	06/22/23 19:17	23950-58-5	
Safrole	ND	ug/L	10.5	3.86		1.05	06/17/23 06:33	06/22/23 19:17	94-59-7	
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	52.5	4.19		1.05	06/17/23 06:33	06/22/23 19:17	3689-24-5	
Thionazin	ND	ug/L	10.5	4.27		1.05	06/17/23 06:33	06/22/23 19:17	297-97-2	
O-Toluidine	ND	ug/L	10.5	3.71		1.05	06/17/23 06:33	06/22/23 19:17	95-53-4	
1,3,5-Trinitrobenzene	ND	ug/L	10.5	1.39		1.05	06/17/23 06:33	06/22/23 19:17	99-35-4	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.5	3.08		1.05	06/17/23 06:33	06/22/23 19:17	126-68-1	
Surrogates										
2-Fluorophenol (S)	43.7	%	10.0-120			1.05	06/17/23 06:33	06/17/23 22:38	367-12-4	
Phenol-d5 (S)	28.7	%	10.0-120			1.05	06/17/23 06:33	06/17/23 22:38	4165-62-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 16-D **Lab ID: 20279949012** Collected: 06/12/23 13:36 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Surrogates										
Nitrobenzene-d5 (S)	70.7	%	10.0-127			1.05	06/17/23 06:33	06/17/23 22:38	4165-60-0	
2-Fluorobiphenyl (S)	79.6	%	10.0-130			1.05	06/17/23 06:33	06/17/23 22:38	321-60-8	
2,4,6-Tribromophenol (S)	78.1	%	10.0-155			1.05	06/17/23 06:33	06/17/23 22:38	118-79-6	
Terphenyl-d14 (S)	83.1	%	10.0-128			1.05	06/17/23 06:33	06/17/23 22:38	1718-51-0	
SVOA (LCMS) SW-846 8321	Analytical Method: EPA 8321 Preparation Method: 8321 Pace National - Mt. Juliet									
2,4-D	ND	ug/L	2.00	1.00		1	06/15/23 15:07	06/19/23 02:42	94-75-7	
2,4,5-T	ND	ug/L	2.00	0.573		1	06/15/23 15:07	06/19/23 02:42	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.807		1	06/15/23 15:07	06/19/23 02:42	93-72-1	
Surrogates										
2,4-DB-d3 (S)	89.5	%	70.0-130			1	06/15/23 15:07	06/19/23 02:42	1219802-46-	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	06/18/23 09:37	06/18/23 09:37	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	06/18/23 09:37	06/18/23 09:37	107-02-8	
Acrylonitrile	ND	ug/L	10.0	0.671		1	06/18/23 09:37	06/18/23 09:37	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	06/18/23 09:37	06/18/23 09:37	107-05-1	
Benzene	ND	ug/L	1.00	0.0941		1	06/18/23 09:37	06/18/23 09:37	71-43-2	R1
Bromodichloromethane	ND	ug/L	1.00	0.136		1	06/18/23 09:37	06/18/23 09:37	75-27-4	L0,R1
Bromoform	ND	ug/L	1.00	0.129		1	06/18/23 09:37	06/18/23 09:37	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	06/18/23 09:37	06/18/23 09:37	74-83-9	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	06/18/23 09:37	06/18/23 09:37	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	06/18/23 09:37	06/18/23 09:37	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116		1	06/18/23 09:37	06/18/23 09:37	108-90-7	L0,R1
Dibromochloromethane	ND	ug/L	1.00	0.140		1	06/18/23 09:37	06/18/23 09:37	124-48-1	L0,R1
Chloroethane	ND	ug/L	5.00	0.192		1	06/18/23 09:37	06/18/23 09:37	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	06/18/23 09:37	06/18/23 09:37	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	06/18/23 09:37	06/18/23 09:37	74-87-3	R1
Dibromomethane	ND	ug/L	1.00	0.122		1	06/18/23 09:37	06/18/23 09:37	74-95-3	L0
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	06/18/23 09:37	06/18/23 09:37	95-50-1	L0
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	06/18/23 09:37	06/18/23 09:37	110-57-6	R1
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	06/18/23 09:37	06/18/23 09:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	06/18/23 09:37	06/18/23 09:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	06/18/23 09:37	06/18/23 09:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	06/18/23 09:37	06/18/23 09:37	75-35-4	L0
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	06/18/23 09:37	06/18/23 09:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	06/18/23 09:37	06/18/23 09:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	06/18/23 09:37	06/18/23 09:37	78-87-5	L0,R1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 16-D **Lab ID: 20279949012** Collected: 06/12/23 13:36 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Pace National - Mt. Juliet									
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	06/18/23 09:37	06/18/23 09:37	10061-01-5	R1
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	06/18/23 09:37	06/18/23 09:37	10061-02-6	L0,R1
Ethylbenzene	ND	ug/L	1.00	0.173		1	06/18/23 09:37	06/18/23 09:37	100-41-4	L0,R1
2-Hexanone	ND	ug/L	10.0	0.787		1	06/18/23 09:37	06/18/23 09:37	591-78-6	L0,R1
Iodomethane	ND	ug/L	10.0	6.00		1	06/18/23 09:37	06/18/23 09:37	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	06/18/23 09:37	06/18/23 09:37	78-93-3	R1
Methylene Chloride	ND	ug/L	5.00	0.430		1	06/18/23 09:37	06/18/23 09:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	06/18/23 09:37	06/18/23 09:37	108-10-1	
Styrene	ND	ug/L	1.00	0.118		1	06/18/23 09:37	06/18/23 09:37	100-42-5	R1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	06/18/23 09:37	06/18/23 09:37	630-20-6	L0,R1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	06/18/23 09:37	06/18/23 09:37	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	06/18/23 09:37	06/18/23 09:37	127-18-4	R1
Toluene	ND	ug/L	1.00	0.278		1	06/18/23 09:37	06/18/23 09:37	108-88-3	L0,R1
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	06/18/23 09:37	06/18/23 09:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	06/18/23 09:37	06/18/23 09:37	79-00-5	L0
Trichloroethene	ND	ug/L	1.00	0.190		1	06/18/23 09:37	06/18/23 09:37	79-01-6	R1
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	06/18/23 09:37	06/18/23 09:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	06/18/23 09:37	06/18/23 09:37	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	06/18/23 09:37	06/18/23 09:37	108-05-4	
Vinyl chloride	ND	ug/L	1.00	0.234		1	06/18/23 09:37	06/18/23 09:37	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	06/18/23 09:37	06/18/23 09:37	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	06/18/23 09:37	06/18/23 09:37	179601-23-1	L0,R1
Xylene (Total)	ND	ug/L	3.00	0.174		1	06/18/23 09:37	06/18/23 09:37	1330-20-7	L0,R1
Acetonitrile	ND	ug/L	50.0	24.0		1	06/22/23 13:57	06/22/23 13:57	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	06/22/23 13:57	06/22/23 13:57	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	06/22/23 13:57	06/22/23 13:57	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	06/22/23 13:57	06/22/23 13:57	78-83-1	
Methacrylonitrile	ND	ug/L	50.0	14.2		1	06/22/23 13:57	06/22/23 13:57	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	06/22/23 13:57	06/22/23 13:57	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	06/22/23 13:57	06/22/23 13:57	76-01-7	
Propionitrile	ND	ug/L	50.0	16.2		1	06/22/23 13:57	06/22/23 13:57	107-12-0	
Surrogates										
Toluene-d8 (S)	99.4	%	80.0-120			1	06/18/23 09:37	06/18/23 09:37	2037-26-5	
Toluene-d8 (S)	99.1	%	80.0-120			1	06/22/23 13:57	06/22/23 13:57	2037-26-5	
1,2-Dichloroethane-d4 (S)	97.3	%	70.0-130			1	06/18/23 09:37	06/18/23 09:37	17060-07-0	
1,2-Dichloroethane-d4 (S)	101	%	70.0-130			1	06/22/23 13:57	06/22/23 13:57	17060-07-0	
4-Bromofluorobenzene (S)	95.4	%	77.0-126			1	06/18/23 09:37	06/18/23 09:37	460-00-4	
4-Bromofluorobenzene (S)	87.3	%	77.0-126			1	06/22/23 13:57	06/22/23 13:57	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 16-D **Lab ID: 20279949012** Collected: 06/12/23 13:36 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500S2D Sulfide, Total		Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans								
Sulfide, Total	ND	mg/L	0.020	0.012		1		06/15/23 15:29	18496-25-8	
335.4 Cyanide, Total		Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay								
Cyanide	ND	mg/L	0.023	0.0069		1	06/26/23 08:00	06/26/23 10:23	57-12-5	
420.1 Phenolics, Total		Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - New Orleans								
Phenolics, Total Recoverable	**0.0097J**	mg/L	0.020	0.0093		1	07/06/23 13:13	07/07/23 10:25	64743-03-9	B

Sample: 16-I **Lab ID: 20279949013** Collected: 06/12/23 11:35 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
EDB / DBCP 8011		Analytical Method: EPA 8011 Preparation Method: 8011/504.1 Pace National - Mt. Juliet								
1,2-Dibromoethane (EDB)	ND	ug/L	0.0204	0.00547		1.02	06/20/23 06:55	06/20/23 15:51	106-93-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	0.0204	0.00763		1.02	06/20/23 06:55	06/20/23 15:51	96-12-8	
Pesticides (GC) 8081		Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet								
Aldrin	ND	ug/L	0.0500	0.0198		1	06/18/23 08:33	06/18/23 19:03	309-00-2	
alpha-BHC	ND	ug/L	0.0500	0.0172		1	06/18/23 08:33	06/18/23 19:03	319-84-6	
beta-BHC	ND	ug/L	0.0500	0.0208		1	06/18/23 08:33	06/18/23 19:03	319-85-7	
delta-BHC	ND	ug/L	0.0500	0.0150		1	06/18/23 08:33	06/18/23 19:03	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.0500	0.0209		1	06/18/23 08:33	06/18/23 19:03	58-89-9	
Chlordane (Technical)	ND	ug/L	5.00	0.0198		1	06/18/23 08:33	06/18/23 19:03	57-74-9	
4,4'-DDD	ND	ug/L	0.0500	0.0177		1	06/18/23 08:33	06/18/23 19:03	72-54-8	
4,4'-DDE	ND	ug/L	0.0500	0.0154		1	06/18/23 08:33	06/18/23 19:03	72-55-9	
4,4'-DDT	ND	ug/L	0.0500	0.0198		1	06/18/23 08:33	06/18/23 19:03	50-29-3	
Dieldrin	ND	ug/L	0.0500	0.0162		1	06/18/23 08:33	06/18/23 19:03	60-57-1	
Endosulfan I	ND	ug/L	0.0500	0.0160		1	06/18/23 08:33	06/18/23 19:03	959-98-8	
Endosulfan II	ND	ug/L	0.0500	0.0164		1	06/18/23 08:33	06/18/23 19:03	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.0500	0.0217		1	06/18/23 08:33	06/18/23 19:03	1031-07-8	
Endrin	ND	ug/L	0.0500	0.0161		1	06/18/23 08:33	06/18/23 19:03	72-20-8	
Endrin aldehyde	ND	ug/L	0.0500	0.0237		1	06/18/23 08:33	06/18/23 19:03	7421-93-4	
Heptachlor	ND	ug/L	0.0500	0.0148		1	06/18/23 08:33	06/18/23 19:03	76-44-8	
Heptachlor epoxide	ND	ug/L	0.0500	0.0183		1	06/18/23 08:33	06/18/23 19:03	1024-57-3	
Methoxychlor	ND	ug/L	0.0500	0.0193		1	06/18/23 08:33	06/18/23 19:03	72-43-5	
Toxaphene	ND	ug/L	0.500	0.168		1	06/18/23 08:33	06/18/23 19:03	8001-35-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 16-I **Lab ID: 20279949013** Collected: 06/12/23 11:35 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081		Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet								
Surrogates										
Decachlorobiphenyl (S)	36.9	%	10.0-128			1	06/18/23 08:33	06/18/23 19:03	2051-24-3	
Tetrachloro-m-xylene (S)	85.6	%	10.0-127			1	06/18/23 08:33	06/18/23 19:03	877-09-8	
OP Pesticides 8141		Analytical Method: EPA 8141 Preparation Method: 3510C Pace National - Mt. Juliet								
Azinphos, methyl (Guthion)	ND	ug/L	1.00	0.534		1	06/15/23 07:46	06/16/23 21:37	86-50-0	
Bolstar	ND	ug/L	1.00	0.214		1	06/15/23 07:46	06/16/23 21:37	35400-43-2	
Chlorpyrifos	ND	ug/L	1.00	0.320		1	06/15/23 07:46	06/16/23 21:37	2921-88-2	
Coumaphos	ND	ug/L	1.00	0.410		1	06/15/23 07:46	06/16/23 21:37	56-72-4	
Total Demeton	ND	ug/L	2.00	0.626		1	06/15/23 07:46	06/16/23 21:37	8065-48-3	
Diazinon	ND	ug/L	1.00	0.302		1	06/15/23 07:46	06/16/23 21:37	333-41-5	
Dichlorvos	ND	ug/L	2.00	0.196		1	06/15/23 07:46	06/16/23 21:37	62-73-7	
Dimethoate	ND	ug/L	1.00	0.327		1	06/15/23 07:46	06/16/23 21:37	60-51-5	
Disulfoton	ND	ug/L	1.00	0.227		1	06/15/23 07:46	06/16/23 21:37	298-04-4	
EPN (ENT)	ND	ug/L	1.00	0.129		1	06/15/23 07:46	06/16/23 21:37	2104-64-5	
Ethoprop	ND	ug/L	1.00	0.293		1	06/15/23 07:46	06/16/23 21:37	13194-48-4	
Parathion (Ethyl parathion)	ND	ug/L	1.00	0.454		1	06/15/23 07:46	06/16/23 21:37	56-38-2	
Fensulfothion	ND	ug/L	2.00	0.405		1	06/15/23 07:46	06/16/23 21:37	115-90-2	
Fenthion	ND	ug/L	1.00	0.213		1	06/15/23 07:46	06/16/23 21:37	55-38-9	
Malathion	ND	ug/L	1.00	0.354		1	06/15/23 07:46	06/16/23 21:37	121-75-5	
Merphos	ND	ug/L	2.00	1.32		1	06/15/23 07:46	06/16/23 21:37	150-50-5	
Methyl parathion	ND	ug/L	1.00	0.383		1	06/15/23 07:46	06/16/23 21:37	298-00-0	
Mevinphos	ND	ug/L	1.00	0.275		1	06/15/23 07:46	06/16/23 21:37	7786-34-7	
Naled	ND	ug/L	1.00	0.594		1	06/15/23 07:46	06/16/23 21:37	300-76-5	
Phorate	ND	ug/L	1.00	0.276		1	06/15/23 07:46	06/16/23 21:37	298-02-2	
Ronnel	ND	ug/L	1.00	0.277		1	06/15/23 07:46	06/16/23 21:37	299-84-3	
Stirophos (Tetrachlorvinphos)	ND	ug/L	1.00	0.277		1	06/15/23 07:46	06/16/23 21:37	22248-79-9	
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	1.00	0.181		1	06/15/23 07:46	06/16/23 21:37	3689-24-5	
TEPP	ND	ug/L	10.0	3.11		1	06/15/23 07:46	06/16/23 21:37	107-49-3	
Tokuthion (Prothiofos)	ND	ug/L	1.00	0.241		1	06/15/23 07:46	06/16/23 21:37	34643-46-4	
Trichloronate	ND	ug/L	1.00	0.306		1	06/15/23 07:46	06/16/23 21:37	327-98-0	
Surrogates										
Triphenylphosphate (S)	70.0	%	42.0-129			1	06/15/23 07:46	06/16/23 21:37	115-86-6	
EPA 8082A		Analytical Method: EPA 8082 Preparation Method: EPA 3510C Pace Analytical Gulf Coast								
PCB-1016 (Aroclor 1016)	ND	ug/L	0.500	0.200		1	06/16/23 05:00	06/17/23 16:24	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	1.00	0.400		1	06/16/23 05:00	06/17/23 16:24	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.500	0.200		1	06/16/23 05:00	06/17/23 16:24	11141-16-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 16-I **Lab ID: 20279949013** Collected: 06/12/23 11:35 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 8082A	Analytical Method: EPA 8082 Preparation Method: EPA 3510C Pace Analytical Gulf Coast									
PCB-1242 (Aroclor 1242)	ND	ug/L	0.500	0.200		1	06/16/23 05:00	06/17/23 16:24	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.500	0.200		1	06/16/23 05:00	06/17/23 16:24	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.500	0.200		1	06/16/23 05:00	06/17/23 16:24	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.500	0.200		1	06/16/23 05:00	06/17/23 16:24	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/L	0.500	0.200		1	06/16/23 05:00	06/17/23 16:24	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/L	1.00	0.300		1	06/16/23 05:00	06/17/23 16:24	11100-14-4	
PCB, Total	ND	ug/L	1.00	0.400		1	06/16/23 05:00	06/17/23 16:24	1336-36-3	
Surrogates										
Decachlorobiphenyl (S)	77	%	30-139			1	06/16/23 05:00	06/17/23 16:24	2051-24-3	
Tetrachloro-m-xylene (S)	56	%	48-137			1	06/16/23 05:00	06/17/23 16:24	877-09-8	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00034		1	06/15/23 06:33	06/20/23 18:02	7440-36-0	
Arsenic	**0.010**	mg/L	0.0010	0.00010		1	06/15/23 06:33	06/20/23 18:02	7440-38-2	
Barium	**0.11**	mg/L	0.0010	0.00064		1	06/15/23 06:33	06/20/23 18:02	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00021		1	06/15/23 06:33	06/20/23 18:02	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.00019		1	06/15/23 06:33	06/20/23 18:02	7440-43-9	
Chromium	**0.00074J**	mg/L	0.0010	0.00063		1	06/15/23 06:33	06/20/23 18:02	7440-47-3	
Cobalt	**0.00019J**	mg/L	0.0010	0.00012		1	06/15/23 06:33	06/20/23 18:02	7440-48-4	
Copper	ND	mg/L	0.0030	0.0017		1	06/15/23 06:33	06/20/23 18:02	7440-50-8	
Lead	ND	mg/L	0.0010	0.00069		1	06/15/23 06:33	06/20/23 18:02	7439-92-1	
Nickel	ND	mg/L	0.0010	0.00062		1	06/15/23 06:33	06/20/23 18:02	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00026		1	06/15/23 06:33	06/20/23 18:02	7782-49-2	
Silver	ND	mg/L	0.00050	0.00020		1	06/15/23 06:33	06/20/23 18:02	7440-22-4	
Thallium	ND	mg/L	0.00050	0.00011		1	06/15/23 06:33	06/20/23 18:02	7440-28-0	
Tin	ND	mg/L	0.0060	0.00065		1	06/15/23 06:33	06/20/23 18:02	7440-31-5	
Vanadium	**0.00050J**	mg/L	0.0050	0.00023		1	06/15/23 06:33	06/20/23 18:02	7440-62-2	
Zinc	ND	mg/L	0.010	0.0072		1	06/15/23 06:33	06/20/23 18:02	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/16/23 06:15	06/26/23 14:52	7439-97-6	
SVOA (GC/MS) 8270 C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**12.9**	ug/L	0.400	0.0447		1	06/22/23 15:40	06/23/23 16:22	123-91-1	H1
Surrogates										
Nitrobenzene-d5 (S)	58.2	%	10.0-120			1	06/22/23 15:40	06/23/23 16:22	4165-60-0	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	**139**	ug/L	1.05	0.0930		1.05	06/17/23 06:33	06/17/23 19:21	83-32-9	
Acenaphthylene	ND	ug/L	1.05	0.0967		1.05	06/17/23 06:33	06/17/23 19:21	208-96-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 16-I **Lab ID: 20279949013** Collected: 06/12/23 11:35 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acetophenone	ND	ug/L	10.5	0.218		1.05	06/17/23 06:33	06/17/23 19:21	98-86-2	
Aniline	ND	ug/L	10.5	1.73		1.05	06/17/23 06:33	06/17/23 19:21	62-53-3	R1
Anthracene	**0.898J**	ug/L	1.05	0.0844		1.05	06/17/23 06:33	06/17/23 19:21	120-12-7	J
Benzo(a)anthracene	ND	ug/L	1.05	0.209		1.05	06/17/23 06:33	06/17/23 19:21	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.05	0.136		1.05	06/17/23 06:33	06/17/23 19:21	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.05	0.126		1.05	06/17/23 06:33	06/17/23 19:21	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.05	0.127		1.05	06/17/23 06:33	06/17/23 19:21	191-24-2	
Benzo(a)pyrene	ND	ug/L	1.05	0.0400		1.05	06/17/23 06:33	06/17/23 19:21	50-32-8	
Benzyl alcohol	ND	ug/L	10.5	0.591		1.05	06/17/23 06:33	06/17/23 19:21	100-51-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.5	0.122		1.05	06/17/23 06:33	06/17/23 19:21	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.5	0.144		1.05	06/17/23 06:33	06/17/23 19:21	111-44-4	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.5	0.221		1.05	06/17/23 06:33	06/17/23 19:21	108-60-1	
4-Bromophenylphenyl ether	ND	ug/L	10.5	0.0921		1.05	06/17/23 06:33	06/17/23 19:21	101-55-3	
4-Chloroaniline	ND	ug/L	10.5	0.246		1.05	06/17/23 06:33	06/17/23 19:21	106-47-8	
2-Chloronaphthalene	ND	ug/L	1.05	0.0680		1.05	06/17/23 06:33	06/17/23 19:21	91-58-7	
4-Chlorophenylphenyl ether	ND	ug/L	10.5	0.0972		1.05	06/17/23 06:33	06/17/23 19:21	7005-72-3	
Chrysene	ND	ug/L	1.05	0.136		1.05	06/17/23 06:33	06/17/23 19:21	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.05	0.0676		1.05	06/17/23 06:33	06/17/23 19:21	53-70-3	
Dibenzofuran	**25.7**	ug/L	10.5	0.102		1.05	06/17/23 06:33	06/17/23 19:21	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.5	0.0749		1.05	06/17/23 06:33	06/17/23 19:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.5	0.139		1.05	06/17/23 06:33	06/17/23 19:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.5	0.0989		1.05	06/17/23 06:33	06/17/23 19:21	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10.5	0.223		1.05	06/17/23 06:33	06/17/23 19:21	91-94-1	
2,4-Dinitrotoluene	ND	ug/L	10.5	0.103		1.05	06/17/23 06:33	06/17/23 19:21	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.5	0.263		1.05	06/17/23 06:33	06/17/23 19:21	606-20-2	
Fluoranthene	**2.22**	ug/L	1.05	0.107		1.05	06/17/23 06:33	06/17/23 19:21	206-44-0	
Fluorene	**55.0**	ug/L	1.05	0.0886		1.05	06/17/23 06:33	06/17/23 19:21	86-73-7	
Hexachlorobenzene	ND	ug/L	1.05	0.0793		1.05	06/17/23 06:33	06/17/23 19:21	118-74-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.5	0.102		1.05	06/17/23 06:33	06/17/23 19:21	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	10.5	0.0628		1.05	06/17/23 06:33	06/17/23 19:21	77-47-4	
Hexachloroethane	ND	ug/L	10.5	0.133		1.05	06/17/23 06:33	06/17/23 19:21	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.05	0.293		1.05	06/17/23 06:33	06/17/23 19:21	193-39-5	
Isophorone	ND	ug/L	10.5	0.150		1.05	06/17/23 06:33	06/17/23 19:21	78-59-1	
1-Methylnaphthalene	**149**	ug/L	1.05	0.0829		1.05	06/17/23 06:33	06/17/23 19:21	90-12-0	
2-Methylnaphthalene	**201**	ug/L	1.05	0.123		1.05	06/17/23 06:33	06/17/23 19:21	91-57-6	
2-Nitroaniline	ND	ug/L	10.5	0.107		1.05	06/17/23 06:33	06/17/23 19:21	88-74-4	
3-Nitroaniline	ND	ug/L	10.5	0.0912		1.05	06/17/23 06:33	06/17/23 19:21	99-09-2	
4-Nitroaniline	ND	ug/L	10.5	0.0956		1.05	06/17/23 06:33	06/17/23 19:21	100-01-6	
Naphthalene	**5.26**	ug/L	1.05	0.167		1.05	06/17/23 06:33	06/17/23 19:21	91-20-3	
Nitrobenzene	ND	ug/L	10.5	0.312		1.05	06/17/23 06:33	06/17/23 19:21	98-95-3	
N-Nitrosodimethylamine	ND	ug/L	10.5	1.05		1.05	06/17/23 06:33	06/17/23 19:21	62-75-9	
N-Nitrosodiphenylamine	ND	ug/L	10.5	2.49		1.05	06/17/23 06:33	06/17/23 19:21	86-30-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 16-I **Lab ID: 20279949013** Collected: 06/12/23 11:35 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
N-Nitroso-di-n-propylamine	ND	ug/L	10.5	0.274		1.05	06/17/23 06:33	06/17/23 19:21	621-64-7	
Phenanthrene	**48.2**	ug/L	1.05	0.118		1.05	06/17/23 06:33	06/17/23 19:21	85-01-8	
Pyridine	ND	ug/L	10.5	0.658		1.05	06/17/23 06:33	06/17/23 19:21	110-86-1	L0,R1
Butylbenzylphthalate	ND	ug/L	3.15	0.803		1.05	06/17/23 06:33	06/17/23 19:21	85-68-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.15	0.940		1.05	06/17/23 06:33	06/17/23 19:21	117-81-7	
Di-n-butylphthalate	ND	ug/L	3.15	0.476		1.05	06/17/23 06:33	06/17/23 19:21	84-74-2	
Diethylphthalate	ND	ug/L	3.15	0.301		1.05	06/17/23 06:33	06/17/23 19:21	84-66-2	
Dimethylphthalate	ND	ug/L	3.15	0.273		1.05	06/17/23 06:33	06/17/23 19:21	131-11-3	
Di-n-octylphthalate	ND	ug/L	3.15	0.979		1.05	06/17/23 06:33	06/17/23 19:21	117-84-0	
Pyrene	**1.06**	ug/L	1.05	0.112		1.05	06/17/23 06:33	06/17/23 19:21	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.5	0.0679		1.05	06/17/23 06:33	06/17/23 19:21	95-94-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.5	0.0733		1.05	06/17/23 06:33	06/17/23 19:21	120-82-1	
4-Chloro-3-methylphenol	ND	ug/L	10.5	0.138		1.05	06/17/23 06:33	06/17/23 19:21	59-50-7	
2-Chlorophenol	ND	ug/L	10.5	0.140		1.05	06/17/23 06:33	06/17/23 19:21	95-57-8	
2,4-Dichlorophenol	ND	ug/L	10.5	0.107		1.05	06/17/23 06:33	06/17/23 19:21	120-83-2	
2,4-Dimethylphenol	ND	ug/L	10.5	0.0668		1.05	06/17/23 06:33	06/17/23 19:21	105-67-9	
4,6-Dinitro-2-methylphenol	ND	ug/L	10.5	1.18		1.05	06/17/23 06:33	06/17/23 19:21	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10.5	6.23		1.05	06/17/23 06:33	06/17/23 19:21	51-28-5	
2-Methylphenol(o-Cresol)	ND	ug/L	10.5	0.0975		1.05	06/17/23 06:33	06/17/23 19:21	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.5	0.176		1.05	06/17/23 06:33	06/17/23 19:21		
2-Nitrophenol	ND	ug/L	10.5	0.123		1.05	06/17/23 06:33	06/17/23 19:21	88-75-5	
4-Nitrophenol	ND	ug/L	10.5	0.150		1.05	06/17/23 06:33	06/17/23 19:21	100-02-7	
Pentachlorophenol	ND	ug/L	10.5	0.329		1.05	06/17/23 06:33	06/17/23 19:21	87-86-5	
Phenol	ND	ug/L	10.5	4.55		1.05	06/17/23 06:33	06/17/23 19:21	108-95-2	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.5	0.243		1.05	06/17/23 06:33	06/17/23 19:21	58-90-2	
2,4,5-Trichlorophenol	ND	ug/L	10.5	0.114		1.05	06/17/23 06:33	06/17/23 19:21	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.5	0.105		1.05	06/17/23 06:33	06/17/23 19:21	88-06-2	
2-Acetylaminofluorene	ND	ug/L	10.5	0.266		1.05	06/17/23 06:33	06/22/23 17:12	53-96-3	
4-Aminobiphenyl	ND	ug/L	10.5	0.484		1.05	06/17/23 06:33	06/22/23 17:12	92-67-1	
Aramite	ND	ug/L	52.5	17.5		1.05	06/17/23 06:33	06/22/23 17:12	140-57-8	
Chlorobenzilate	ND	ug/L	52.5	4.03		1.05	06/17/23 06:33	06/22/23 17:12	510-15-6	
Diallate	ND	ug/L	10.5	0.550		1.05	06/17/23 06:33	06/22/23 17:12	2303-16-4	
2,6-Dichlorophenol	ND	ug/L	10.5	0.107		1.05	06/17/23 06:33	06/22/23 17:12	87-65-0	
Dimethoate	ND	ug/L	52.5	5.30		1.05	06/17/23 06:33	06/22/23 17:12	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	10.5	3.87		1.05	06/17/23 06:33	06/22/23 17:12	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.5	1.80		1.05	06/17/23 06:33	06/22/23 17:12	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.5	3.56		1.05	06/17/23 06:33	06/22/23 17:12	119-93-7	
a,a-Dimethylphenylethylamine	ND	ug/L	52.5	3.29		1.05	06/17/23 06:33	06/22/23 17:12	122-09-8	
1,3-Dinitrobenzene	ND	ug/L	10.5	0.377		1.05	06/17/23 06:33	06/22/23 17:12	99-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 16-I **Lab ID: 20279949013** Collected: 06/12/23 11:35 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Diphenylamine	ND	ug/L	10.5	2.49		1.05	06/17/23 06:33	06/17/23 19:21	122-39-4	
Dinoseb	ND	ug/L	52.5	8.41		1.05	06/17/23 06:33	06/22/23 17:12	88-85-7	
Ethyl methanesulfonate	ND	ug/L	10.5	0.342		1.05	06/17/23 06:33	06/22/23 17:12	62-50-0	
Famphur	ND	ug/L	21.0	4.12		1.05	06/17/23 06:33	06/22/23 17:12	52-85-7	
Hexachloropropene	ND	ug/L	52.5	0.156		1.05	06/17/23 06:33	06/22/23 17:12	1888-71-7	
Hexachlorophene	ND	ug/L	52.5	1.51		1.05	06/17/23 06:33	06/22/23 17:12	70-30-4	
Isodrin	ND	ug/L	10.5	4.32		1.05	06/17/23 06:33	06/22/23 17:12	465-73-6	
Isosafrole	ND	ug/L	10.5	4.07		1.05	06/17/23 06:33	06/22/23 17:12	120-58-1	
Kepone	ND	ug/L	21.0	2.79		1.05	06/17/23 06:33	06/22/23 17:12	143-50-0	
Methapyrilene	ND	ug/L	52.5	10.5		1.05	06/17/23 06:33	06/22/23 17:12	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.5	0.172		1.05	06/17/23 06:33	06/22/23 17:12	56-49-5	
Methyl methanesulfonate	ND	ug/L	52.5	3.57		1.05	06/17/23 06:33	06/22/23 17:12	66-27-3	
1,4-Naphthoquinone	ND	ug/L	52.5	5.84		1.05	06/17/23 06:33	06/22/23 17:12	130-15-4	
1-Naphthalenamine	**6.73J**	ug/L	10.5	0.303		1.05	06/17/23 06:33	06/22/23 17:12	134-32-7	J
2-Naphthalenamine	ND	ug/L	10.5	4.70		1.05	06/17/23 06:33	06/22/23 17:12	91-59-8	
5-Nitro-o-toluidine	ND	ug/L	10.5	2.09		1.05	06/17/23 06:33	06/22/23 17:12	99-55-8	
4-Nitroquinoline-n-oxide	ND	ug/L	10.5	2.13		1.05	06/17/23 06:33	06/22/23 17:12	56-57-5	
N-Nitrosodiethylamine	ND	ug/L	10.5	3.75		1.05	06/17/23 06:33	06/22/23 17:12	55-18-5	
N-Nitroso-di-n-butylamine	ND	ug/L	10.5	4.11		1.05	06/17/23 06:33	06/22/23 17:12	924-16-3	
N-Nitrosomethylethylamine	ND	ug/L	10.5	3.41		1.05	06/17/23 06:33	06/22/23 17:12	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	10.5	3.41		1.05	06/17/23 06:33	06/22/23 17:12	59-89-2	
N-Nitrosopiperidine	ND	ug/L	10.5	3.91		1.05	06/17/23 06:33	06/22/23 17:12	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.5	3.56		1.05	06/17/23 06:33	06/22/23 17:12	930-55-2	
Pentachlorobenzene	ND	ug/L	10.5	4.36		1.05	06/17/23 06:33	06/22/23 17:12	608-93-5	
Pentachloronitrobenzene	ND	ug/L	10.5	4.36		1.05	06/17/23 06:33	06/22/23 17:12	82-68-8	
Phenacetin	ND	ug/L	10.5	4.89		1.05	06/17/23 06:33	06/22/23 17:12	62-44-2	
p-Phenylenediamine	ND	ug/L	7250	406		1.05	06/17/23 06:33	06/22/23 17:12	106-50-3	
2-Picoline	ND	ug/L	52.5	7.17		1.05	06/17/23 06:33	06/22/23 17:12	109-06-8	
Pronamide	ND	ug/L	10.5	4.42		1.05	06/17/23 06:33	06/22/23 17:12	23950-58-5	
Safrole	ND	ug/L	10.5	3.86		1.05	06/17/23 06:33	06/22/23 17:12	94-59-7	
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	52.5	4.19		1.05	06/17/23 06:33	06/22/23 17:12	3689-24-5	
Thionazin	ND	ug/L	10.5	4.27		1.05	06/17/23 06:33	06/22/23 17:12	297-97-2	
O-Toluidine	ND	ug/L	10.5	3.71		1.05	06/17/23 06:33	06/22/23 17:12	95-53-4	
1,3,5-Trinitrobenzene	ND	ug/L	10.5	1.39		1.05	06/17/23 06:33	06/22/23 17:12	99-35-4	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.5	3.08		1.05	06/17/23 06:33	06/22/23 17:12	126-68-1	
Surrogates										
2-Fluorophenol (S)	48.1	%	10.0-120			1.05	06/17/23 06:33	06/17/23 19:21	367-12-4	
Phenol-d5 (S)	30.8	%	10.0-120			1.05	06/17/23 06:33	06/17/23 19:21	4165-62-2	
Nitrobenzene-d5 (S)	74.9	%	10.0-127			1.05	06/17/23 06:33	06/17/23 19:21	4165-60-0	
2-Fluorobiphenyl (S)	85.0	%	10.0-130			1.05	06/17/23 06:33	06/17/23 19:21	321-60-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 16-I **Lab ID: 20279949013** Collected: 06/12/23 11:35 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Surrogates										
2,4,6-Tribromophenol (S)	90.5	%	10.0-155			1.05	06/17/23 06:33	06/17/23 19:21	118-79-6	
Terphenyl-d14 (S)	93.0	%	10.0-128			1.05	06/17/23 06:33	06/17/23 19:21	1718-51-0	
SVOA (LCMS) SW-846 8321	Analytical Method: EPA 8321 Preparation Method: 8321 Pace National - Mt. Juliet									
2,4-D	ND	ug/L	2.00	1.00		1	06/15/23 15:07	06/19/23 03:00	94-75-7	
2,4,5-T	ND	ug/L	2.00	0.573		1	06/15/23 15:07	06/19/23 03:00	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.807		1	06/15/23 15:07	06/19/23 03:00	93-72-1	
Surrogates										
2,4-DB-d3 (S)	100	%	70.0-130			1	06/15/23 15:07	06/19/23 03:00	1219802-46-	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	06/18/23 09:56	06/18/23 09:56	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	06/18/23 09:56	06/18/23 09:56	107-02-8	
Acrylonitrile	ND	ug/L	10.0	0.671		1	06/18/23 09:56	06/18/23 09:56	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	06/18/23 09:56	06/18/23 09:56	107-05-1	
Benzene	**73.0**	ug/L	1.00	0.0941		1	06/18/23 09:56	06/18/23 09:56	71-43-2	R1
Bromodichloromethane	ND	ug/L	1.00	0.136		1	06/18/23 09:56	06/18/23 09:56	75-27-4	L0,R1
Bromoform	ND	ug/L	1.00	0.129		1	06/18/23 09:56	06/18/23 09:56	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	06/18/23 09:56	06/18/23 09:56	74-83-9	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	06/18/23 09:56	06/18/23 09:56	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	06/18/23 09:56	06/18/23 09:56	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116		1	06/18/23 09:56	06/18/23 09:56	108-90-7	L0,R1
Dibromochloromethane	ND	ug/L	1.00	0.140		1	06/18/23 09:56	06/18/23 09:56	124-48-1	L0,R1
Chloroethane	ND	ug/L	5.00	0.192		1	06/18/23 09:56	06/18/23 09:56	75-00-3	
Chloroform	**0.163J**	ug/L	5.00	0.111		1	06/18/23 09:56	06/18/23 09:56	67-66-3	J
Chloromethane	ND	ug/L	2.50	0.960		1	06/18/23 09:56	06/18/23 09:56	74-87-3	R1
Dibromomethane	ND	ug/L	1.00	0.122		1	06/18/23 09:56	06/18/23 09:56	74-95-3	L0
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	06/18/23 09:56	06/18/23 09:56	95-50-1	L0
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	06/18/23 09:56	06/18/23 09:56	110-57-6	R1
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	06/18/23 09:56	06/18/23 09:56	75-71-8	
1,1-Dichloroethane	**0.587J**	ug/L	1.00	0.100		1	06/18/23 09:56	06/18/23 09:56	75-34-3	J
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	06/18/23 09:56	06/18/23 09:56	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	06/18/23 09:56	06/18/23 09:56	75-35-4	L0
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	06/18/23 09:56	06/18/23 09:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	06/18/23 09:56	06/18/23 09:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	06/18/23 09:56	06/18/23 09:56	78-87-5	L0,R1
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	06/18/23 09:56	06/18/23 09:56	10061-01-5	R1
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	06/18/23 09:56	06/18/23 09:56	10061-02-6	L0,R1
Ethylbenzene	**5.78**	ug/L	1.00	0.173		1	06/22/23 14:19	06/22/23 14:19	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 16-I **Lab ID: 20279949013** Collected: 06/12/23 11:35 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Pace National - Mt. Juliet									
2-Hexanone	ND	ug/L	10.0	0.787		1	06/18/23 09:56	06/18/23 09:56	591-78-6	L0,R1
Iodomethane	ND	ug/L	10.0	6.00		1	06/18/23 09:56	06/18/23 09:56	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	06/18/23 09:56	06/18/23 09:56	78-93-3	R1
Methylene Chloride	ND	ug/L	5.00	0.430		1	06/18/23 09:56	06/18/23 09:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	06/18/23 09:56	06/18/23 09:56	108-10-1	
Styrene	**0.287J**	ug/L	1.00	0.118		1	06/18/23 09:56	06/18/23 09:56	100-42-5	J,R1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	06/18/23 09:56	06/18/23 09:56	630-20-6	L0,R1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	06/18/23 09:56	06/18/23 09:56	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	06/18/23 09:56	06/18/23 09:56	127-18-4	R1
Toluene	**0.807J**	ug/L	1.00	0.278		1	06/22/23 14:19	06/22/23 14:19	108-88-3	J
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	06/18/23 09:56	06/18/23 09:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	06/18/23 09:56	06/18/23 09:56	79-00-5	L0
Trichloroethene	ND	ug/L	1.00	0.190		1	06/18/23 09:56	06/18/23 09:56	79-01-6	R1
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	06/18/23 09:56	06/18/23 09:56	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	06/18/23 09:56	06/18/23 09:56	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	06/18/23 09:56	06/18/23 09:56	108-05-4	
Vinyl chloride	**0.670J**	ug/L	1.00	0.234		1	06/18/23 09:56	06/18/23 09:56	75-01-4	J
o-Xylene	**3.69**	ug/L	1.00	0.174		1	06/22/23 14:19	06/22/23 14:19	95-47-6	
m&p-Xylene	**30.1**	ug/L	2.00	0.430		1	06/22/23 14:19	06/22/23 14:19	179601-23-1	
Xylene (Total)	**33.8**	ug/L	3.00	0.174		1	06/22/23 14:19	06/22/23 14:19	1330-20-7	
Acetonitrile	ND	ug/L	50.0	24.0		1	06/22/23 14:19	06/22/23 14:19	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	06/22/23 14:19	06/22/23 14:19	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	06/22/23 14:19	06/22/23 14:19	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	06/22/23 14:19	06/22/23 14:19	78-83-1	
Methacrylonitrile	ND	ug/L	50.0	14.2		1	06/22/23 14:19	06/22/23 14:19	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	06/22/23 14:19	06/22/23 14:19	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	06/22/23 14:19	06/22/23 14:19	76-01-7	
Propionitrile	ND	ug/L	50.0	16.2		1	06/22/23 14:19	06/22/23 14:19	107-12-0	
Surrogates										
Toluene-d8 (S)	96.4	%	80.0-120			1	06/18/23 09:56	06/18/23 09:56	2037-26-5	
Toluene-d8 (S)	97.1	%	80.0-120			1	06/22/23 14:19	06/22/23 14:19	2037-26-5	
1,2-Dichloroethane-d4 (S)	93.3	%	70.0-130			1	06/18/23 09:56	06/18/23 09:56	17060-07-0	
1,2-Dichloroethane-d4 (S)	98.3	%	70.0-130			1	06/22/23 14:19	06/22/23 14:19	17060-07-0	
4-Bromofluorobenzene (S)	103	%	77.0-126			1	06/18/23 09:56	06/18/23 09:56	460-00-4	
4-Bromofluorobenzene (S)	95.0	%	77.0-126			1	06/22/23 14:19	06/22/23 14:19	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012		1		06/15/23 15:29	18496-25-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 16-I **Lab ID: 20279949013** Collected: 06/12/23 11:35 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
335.4 Cyanide, Total		Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay								
Cyanide	ND	mg/L	0.023	0.0069		1	06/26/23 08:00	06/26/23 10:24	57-12-5	
420.1 Phenolics, Total		Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - New Orleans								
Phenolics, Total Recoverable	**0.074**	mg/L	0.020	0.0093		1	07/06/23 13:13	07/07/23 10:25	64743-03-9	B

Sample: 19-SR **Lab ID: 20279949014** Collected: 06/12/23 16:20 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
EDB / DBCP 8011		Analytical Method: EPA 8011 Preparation Method: 8011/504.1 Pace National - Mt. Juliet								
1,2-Dibromoethane (EDB)	ND	ug/L	0.0212	0.00568		1.06	06/20/23 06:55	06/20/23 16:04	106-93-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	0.0212	0.00793		1.06	06/20/23 06:55	06/20/23 16:04	96-12-8	
Pesticides (GC) 8081		Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet								
Aldrin	ND	ug/L	0.0500	0.0198		1	06/18/23 08:33	06/18/23 19:12	309-00-2	
alpha-BHC	ND	ug/L	0.0500	0.0172		1	06/18/23 08:33	06/18/23 19:12	319-84-6	
beta-BHC	ND	ug/L	0.0500	0.0208		1	06/18/23 08:33	06/18/23 19:12	319-85-7	
delta-BHC	ND	ug/L	0.0500	0.0150		1	06/18/23 08:33	06/18/23 19:12	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.0500	0.0209		1	06/18/23 08:33	06/18/23 19:12	58-89-9	
Chlordane (Technical)	ND	ug/L	5.00	0.0198		1	06/18/23 08:33	06/18/23 19:12	57-74-9	
4,4'-DDD	ND	ug/L	0.0500	0.0177		1	06/18/23 08:33	06/18/23 19:12	72-54-8	
4,4'-DDE	ND	ug/L	0.0500	0.0154		1	06/18/23 08:33	06/18/23 19:12	72-55-9	
4,4'-DDT	ND	ug/L	0.0500	0.0198		1	06/18/23 08:33	06/18/23 19:12	50-29-3	
Dieldrin	ND	ug/L	0.0500	0.0162		1	06/18/23 08:33	06/18/23 19:12	60-57-1	
Endosulfan I	ND	ug/L	0.0500	0.0160		1	06/18/23 08:33	06/18/23 19:12	959-98-8	
Endosulfan II	ND	ug/L	0.0500	0.0164		1	06/18/23 08:33	06/18/23 19:12	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.0500	0.0217		1	06/18/23 08:33	06/18/23 19:12	1031-07-8	
Endrin	ND	ug/L	0.0500	0.0161		1	06/18/23 08:33	06/18/23 19:12	72-20-8	
Endrin aldehyde	ND	ug/L	0.0500	0.0237		1	06/18/23 08:33	06/18/23 19:12	7421-93-4	
Heptachlor	ND	ug/L	0.0500	0.0148		1	06/18/23 08:33	06/18/23 19:12	76-44-8	
Heptachlor epoxide	ND	ug/L	0.0500	0.0183		1	06/18/23 08:33	06/18/23 19:12	1024-57-3	
Methoxychlor	ND	ug/L	0.0500	0.0193		1	06/18/23 08:33	06/18/23 19:12	72-43-5	
Toxaphene	ND	ug/L	0.500	0.168		1	06/18/23 08:33	06/18/23 19:12	8001-35-2	
Surrogates										
Decachlorobiphenyl (S)	17.9	%	10.0-128			1	06/18/23 08:33	06/18/23 19:12	2051-24-3	
Tetrachloro-m-xylene (S)	66.9	%	10.0-127			1	06/18/23 08:33	06/18/23 19:12	877-09-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 19-SR **Lab ID: 20279949014** Collected: 06/12/23 16:20 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
OP Pesticides 8141	Analytical Method: EPA 8141 Preparation Method: 3510C Pace National - Mt. Juliet									
Disulfoton	ND	ug/L	1.00	0.227		1	06/23/23 20:49	06/24/23 22:16	298-04-4	H1
Parathion (Ethyl parathion)	ND	ug/L	1.00	0.454		1	06/23/23 20:49	06/24/23 22:16	56-38-2	H1
Methyl parathion	ND	ug/L	1.00	0.383		1	06/23/23 20:49	06/24/23 22:16	298-00-0	H1
Phorate	ND	ug/L	1.00	0.276		1	06/23/23 20:49	06/24/23 22:16	298-02-2	H1
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	1.00	0.181		1	06/23/23 20:49	06/24/23 22:16	3689-24-5	H1
Surrogates										
Triphenylphosphate (S)	73.4	%	42.0-129			1	06/23/23 20:49	06/24/23 22:16	115-86-6	
EPA 8082A	Analytical Method: EPA 8082 Preparation Method: EPA 3510C Pace Analytical Gulf Coast									
PCB-1016 (Aroclor 1016)	ND	ug/L	0.505	0.202		1	06/16/23 05:00	06/17/23 16:35	12674-11-2	
PCB-1221 (Aroclor 1221)	ND	ug/L	1.01	0.404		1	06/16/23 05:00	06/17/23 16:35	11104-28-2	
PCB-1232 (Aroclor 1232)	ND	ug/L	0.505	0.202		1	06/16/23 05:00	06/17/23 16:35	11141-16-5	
PCB-1242 (Aroclor 1242)	ND	ug/L	0.505	0.202		1	06/16/23 05:00	06/17/23 16:35	53469-21-9	
PCB-1248 (Aroclor 1248)	ND	ug/L	0.505	0.202		1	06/16/23 05:00	06/17/23 16:35	12672-29-6	
PCB-1254 (Aroclor 1254)	ND	ug/L	0.505	0.202		1	06/16/23 05:00	06/17/23 16:35	11097-69-1	
PCB-1260 (Aroclor 1260)	ND	ug/L	0.505	0.202		1	06/16/23 05:00	06/17/23 16:35	11096-82-5	
PCB-1262 (Aroclor 1262)	ND	ug/L	0.505	0.202		1	06/16/23 05:00	06/17/23 16:35	37324-23-5	
PCB-1268 (Aroclor 1268)	ND	ug/L	1.01	0.303		1	06/16/23 05:00	06/17/23 16:35	11100-14-4	
PCB, Total	ND	ug/L	1.01	0.404		1	06/16/23 05:00	06/17/23 16:35	1336-36-3	
Surrogates										
Decachlorobiphenyl (S)	76	%	30-139			1	06/16/23 05:00	06/17/23 16:35	2051-24-3	
Tetrachloro-m-xylene (S)	64	%	48-137			1	06/16/23 05:00	06/17/23 16:35	877-09-8	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00034		1	06/15/23 06:33	06/20/23 18:08	7440-36-0	
Arsenic	**0.16**	mg/L	0.0010	0.00010		1	06/15/23 06:33	06/20/23 18:08	7440-38-2	
Barium	**0.17**	mg/L	0.0010	0.00064		1	06/15/23 06:33	06/20/23 18:08	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00021		1	06/15/23 06:33	06/20/23 18:08	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.00019		1	06/15/23 06:33	06/20/23 18:08	7440-43-9	
Chromium	ND	mg/L	0.0010	0.00063		1	06/15/23 06:33	06/20/23 18:08	7440-47-3	
Cobalt	**0.00014J**	mg/L	0.0010	0.00012		1	06/15/23 06:33	06/20/23 18:08	7440-48-4	
Copper	ND	mg/L	0.0030	0.0017		1	06/15/23 06:33	06/20/23 18:08	7440-50-8	
Lead	ND	mg/L	0.0010	0.00069		1	06/15/23 06:33	06/20/23 18:08	7439-92-1	
Nickel	ND	mg/L	0.0010	0.00062		1	06/15/23 06:33	06/20/23 18:08	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00026		1	06/15/23 06:33	06/20/23 18:08	7782-49-2	
Silver	ND	mg/L	0.00050	0.00020		1	06/15/23 06:33	06/20/23 18:08	7440-22-4	
Thallium	ND	mg/L	0.00050	0.00011		1	06/15/23 06:33	06/20/23 18:08	7440-28-0	
Tin	**0.00093J**	mg/L	0.0060	0.00065		1	06/15/23 06:33	06/20/23 18:08	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.00023		1	06/15/23 06:33	06/20/23 18:08	7440-62-2	
Zinc	ND	mg/L	0.010	0.0072		1	06/15/23 06:33	06/20/23 18:08	7440-66-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 19-SR **Lab ID: 20279949014** Collected: 06/12/23 16:20 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/16/23 06:15	06/26/23 14:54	7439-97-6	
SVOA (GC/MS) 8270 C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.117J**	ug/L	0.400	0.0447		1	06/22/23 15:40	06/23/23 16:41	123-91-1	B,H1,J
Surrogates										
Nitrobenzene-d5 (S)	62.6	%	10.0-120			1	06/22/23 15:40	06/23/23 16:41	4165-60-0	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	**0.427J**	ug/L	1.00	0.0886		1	06/17/23 06:33	06/17/23 22:59	83-32-9	J
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/17/23 06:33	06/17/23 22:59	208-96-8	
Acetophenone	ND	ug/L	10.0	0.208		1	06/17/23 06:33	06/17/23 22:59	98-86-2	
Aniline	ND	ug/L	10.0	1.65		1	06/17/23 06:33	06/17/23 22:59	62-53-3	R1
Anthracene	ND	ug/L	1.00	0.0804		1	06/17/23 06:33	06/17/23 22:59	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/17/23 06:33	06/17/23 22:59	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/17/23 06:33	06/17/23 22:59	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/17/23 06:33	06/17/23 22:59	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/17/23 06:33	06/17/23 22:59	191-24-2	
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/17/23 06:33	06/17/23 22:59	50-32-8	
Benzyl alcohol	ND	ug/L	10.0	0.563		1	06/17/23 06:33	06/17/23 22:59	100-51-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.116		1	06/17/23 06:33	06/17/23 22:59	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	0.137		1	06/17/23 06:33	06/17/23 22:59	111-44-4	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	0.210		1	06/17/23 06:33	06/17/23 22:59	108-60-1	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.0877		1	06/17/23 06:33	06/17/23 22:59	101-55-3	
4-Chloroaniline	ND	ug/L	10.0	0.234		1	06/17/23 06:33	06/17/23 22:59	106-47-8	
2-Chloronaphthalene	ND	ug/L	1.00	0.0648		1	06/17/23 06:33	06/17/23 22:59	91-58-7	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.0926		1	06/17/23 06:33	06/17/23 22:59	7005-72-3	
Chrysene	ND	ug/L	1.00	0.130		1	06/17/23 06:33	06/17/23 22:59	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.00	0.0644		1	06/17/23 06:33	06/17/23 22:59	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/17/23 06:33	06/17/23 22:59	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.0713		1	06/17/23 06:33	06/17/23 22:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.132		1	06/17/23 06:33	06/17/23 22:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.0942		1	06/17/23 06:33	06/17/23 22:59	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10.0	0.212		1	06/17/23 06:33	06/17/23 22:59	91-94-1	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.0983		1	06/17/23 06:33	06/17/23 22:59	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.250		1	06/17/23 06:33	06/17/23 22:59	606-20-2	
Fluoranthene	ND	ug/L	1.00	0.102		1	06/17/23 06:33	06/17/23 22:59	206-44-0	
Fluorene	ND	ug/L	1.00	0.0844		1	06/17/23 06:33	06/17/23 22:59	86-73-7	
Hexachlorobenzene	ND	ug/L	1.00	0.0755		1	06/17/23 06:33	06/17/23 22:59	118-74-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.0968		1	06/17/23 06:33	06/17/23 22:59	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 19-SR **Lab ID: 20279949014** Collected: 06/12/23 16:20 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.0598		1	06/17/23 06:33	06/17/23 22:59	77-47-4	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/17/23 06:33	06/17/23 22:59	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/17/23 06:33	06/17/23 22:59	193-39-5	
Isophorone	ND	ug/L	10.0	0.143		1	06/17/23 06:33	06/17/23 22:59	78-59-1	
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/17/23 06:33	06/17/23 22:59	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/17/23 06:33	06/17/23 22:59	91-57-6	
2-Nitroaniline	ND	ug/L	10.0	0.102		1	06/17/23 06:33	06/17/23 22:59	88-74-4	
3-Nitroaniline	ND	ug/L	10.0	0.0869		1	06/17/23 06:33	06/17/23 22:59	99-09-2	
4-Nitroaniline	ND	ug/L	10.0	0.0910		1	06/17/23 06:33	06/17/23 22:59	100-01-6	
Naphthalene	ND	ug/L	1.00	0.159		1	06/17/23 06:33	06/17/23 22:59	91-20-3	
Nitrobenzene	ND	ug/L	10.0	0.297		1	06/17/23 06:33	06/17/23 22:59	98-95-3	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.998		1	06/17/23 06:33	06/17/23 22:59	62-75-9	
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/17/23 06:33	06/17/23 22:59	86-30-6	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.261		1	06/17/23 06:33	06/17/23 22:59	621-64-7	
Phenanthrene	ND	ug/L	1.00	0.112		1	06/17/23 06:33	06/17/23 22:59	85-01-8	
Pyridine	ND	ug/L	10.0	0.627		1	06/17/23 06:33	06/17/23 22:59	110-86-1	L0,R1
Butylbenzylphthalate	ND	ug/L	3.00	0.765		1	06/17/23 06:33	06/17/23 22:59	85-68-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/17/23 06:33	06/17/23 22:59	117-81-7	
Di-n-butylphthalate	ND	ug/L	3.00	0.453		1	06/17/23 06:33	06/17/23 22:59	84-74-2	
Diethylphthalate	ND	ug/L	3.00	0.287		1	06/17/23 06:33	06/17/23 22:59	84-66-2	
Dimethylphthalate	ND	ug/L	3.00	0.260		1	06/17/23 06:33	06/17/23 22:59	131-11-3	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/17/23 06:33	06/17/23 22:59	117-84-0	
Pyrene	ND	ug/L	1.00	0.107		1	06/17/23 06:33	06/17/23 22:59	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	0.0647		1	06/17/23 06:33	06/17/23 22:59	95-94-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.0698		1	06/17/23 06:33	06/17/23 22:59	120-82-1	
4-Chloro-3-methylphenol	ND	ug/L	10.0	0.131		1	06/17/23 06:33	06/17/23 22:59	59-50-7	
2-Chlorophenol	ND	ug/L	10.0	0.133		1	06/17/23 06:33	06/17/23 22:59	95-57-8	
2,4-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/17/23 06:33	06/17/23 22:59	120-83-2	
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/17/23 06:33	06/17/23 22:59	105-67-9	
4,6-Dinitro-2-methylphenol	ND	ug/L	10.0	1.12		1	06/17/23 06:33	06/17/23 22:59	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10.0	5.93		1	06/17/23 06:33	06/17/23 22:59	51-28-5	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	0.0929		1	06/17/23 06:33	06/17/23 22:59	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/17/23 06:33	06/17/23 22:59		
2-Nitrophenol	ND	ug/L	10.0	0.117		1	06/17/23 06:33	06/17/23 22:59	88-75-5	
4-Nitrophenol	ND	ug/L	10.0	0.143		1	06/17/23 06:33	06/17/23 22:59	100-02-7	
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/17/23 06:33	06/17/23 22:59	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/17/23 06:33	06/17/23 22:59	108-95-2	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	0.231		1	06/17/23 06:33	06/17/23 22:59	58-90-2	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.109		1	06/17/23 06:33	06/17/23 22:59	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	0.100		1	06/17/23 06:33	06/17/23 22:59	88-06-2	
2-Acetylaminofluorene	ND	ug/L	10.0	0.253		1	06/17/23 06:33	06/22/23 19:37	53-96-3	
4-Aminobiphenyl	ND	ug/L	10.0	0.461		1	06/17/23 06:33	06/22/23 19:37	92-67-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 19-SR **Lab ID: 20279949014** Collected: 06/12/23 16:20 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Aramite	ND	ug/L	50.0	16.7		1	06/17/23 06:33	06/22/23 19:37	140-57-8	
Chlorobenzilate	ND	ug/L	50.0	3.84		1	06/17/23 06:33	06/22/23 19:37	510-15-6	
Diallate	ND	ug/L	10.0	0.524		1	06/17/23 06:33	06/22/23 19:37	2303-16-4	
2,6-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/17/23 06:33	06/22/23 19:37	87-65-0	
Dimethoate	ND	ug/L	50.0	5.05		1	06/17/23 06:33	06/22/23 19:37	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	10.0	3.69		1	06/17/23 06:33	06/22/23 19:37	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	1.71		1	06/17/23 06:33	06/22/23 19:37	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.0	3.39		1	06/17/23 06:33	06/22/23 19:37	119-93-7	
a,a-Dimethylphenylethylamine	ND	ug/L	50.0	3.13		1	06/17/23 06:33	06/22/23 19:37	122-09-8	
1,3-Dinitrobenzene	ND	ug/L	10.0	0.359		1	06/17/23 06:33	06/22/23 19:37	99-65-0	
Diphenylamine	ND	ug/L	10.0	2.37		1	06/17/23 06:33	06/17/23 22:59	122-39-4	
Dinoseb	ND	ug/L	50.0	8.01		1	06/17/23 06:33	06/22/23 19:37	88-85-7	
Ethyl methanesulfonate	ND	ug/L	10.0	0.326		1	06/17/23 06:33	06/22/23 19:37	62-50-0	
Famphur	ND	ug/L	20.0	3.92		1	06/17/23 06:33	06/22/23 19:37	52-85-7	
Hexachloropropene	ND	ug/L	50.0	0.149		1	06/17/23 06:33	06/22/23 19:37	1888-71-7	
Hexachlorophene	ND	ug/L	50.0	1.44		1	06/17/23 06:33	06/22/23 19:37	70-30-4	
Isodrin	ND	ug/L	10.0	4.11		1	06/17/23 06:33	06/22/23 19:37	465-73-6	
Isosafrole	ND	ug/L	10.0	3.88		1	06/17/23 06:33	06/22/23 19:37	120-58-1	
Kepone	ND	ug/L	20.0	2.66		1	06/17/23 06:33	06/22/23 19:37	143-50-0	
Methapyrilene	ND	ug/L	50.0	10.0		1	06/17/23 06:33	06/22/23 19:37	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.0	0.164		1	06/17/23 06:33	06/22/23 19:37	56-49-5	
Methyl methanesulfonate	ND	ug/L	50.0	3.40		1	06/17/23 06:33	06/22/23 19:37	66-27-3	
1,4-Naphthoquinone	ND	ug/L	50.0	5.56		1	06/17/23 06:33	06/22/23 19:37	130-15-4	
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/17/23 06:33	06/22/23 19:37	134-32-7	
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/17/23 06:33	06/22/23 19:37	91-59-8	
5-Nitro-o-toluidine	ND	ug/L	10.0	1.99		1	06/17/23 06:33	06/22/23 19:37	99-55-8	
4-Nitroquinoline-n-oxide	ND	ug/L	10.0	2.03		1	06/17/23 06:33	06/22/23 19:37	56-57-5	
N-Nitrosodiethylamine	ND	ug/L	10.0	3.57		1	06/17/23 06:33	06/22/23 19:37	55-18-5	
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	3.91		1	06/17/23 06:33	06/22/23 19:37	924-16-3	
N-Nitrosomethylethylamine	ND	ug/L	10.0	3.25		1	06/17/23 06:33	06/22/23 19:37	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	10.0	3.25		1	06/17/23 06:33	06/22/23 19:37	59-89-2	
N-Nitrosopiperidine	ND	ug/L	10.0	3.72		1	06/17/23 06:33	06/22/23 19:37	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.0	3.39		1	06/17/23 06:33	06/22/23 19:37	930-55-2	
Pentachlorobenzene	ND	ug/L	10.0	4.15		1	06/17/23 06:33	06/22/23 19:37	608-93-5	
Pentachloronitrobenzene	ND	ug/L	10.0	4.15		1	06/17/23 06:33	06/22/23 19:37	82-68-8	
Phenacetin	ND	ug/L	10.0	4.66		1	06/17/23 06:33	06/22/23 19:37	62-44-2	
p-Phenylenediamine	ND	ug/L	6900	387		1	06/17/23 06:33	06/22/23 19:37	106-50-3	
2-Picoline	ND	ug/L	50.0	6.83		1	06/17/23 06:33	06/22/23 19:37	109-06-8	
Pronamide	ND	ug/L	10.0	4.21		1	06/17/23 06:33	06/22/23 19:37	23950-58-5	
Safrole	ND	ug/L	10.0	3.68		1	06/17/23 06:33	06/22/23 19:37	94-59-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 19-SR **Lab ID: 20279949014** Collected: 06/12/23 16:20 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	50.0	3.99		1	06/17/23 06:33	06/22/23 19:37	3689-24-5	
Thionazin	ND	ug/L	10.0	4.07		1	06/17/23 06:33	06/22/23 19:37	297-97-2	
O-Toluidine	ND	ug/L	10.0	3.53		1	06/17/23 06:33	06/22/23 19:37	95-53-4	
1,3,5-Trinitrobenzene	ND	ug/L	10.0	1.32		1	06/17/23 06:33	06/22/23 19:37	99-35-4	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	2.93		1	06/17/23 06:33	06/22/23 19:37	126-68-1	
Surrogates										
2-Fluorophenol (S)	31.4	%	10.0-120			1	06/17/23 06:33	06/17/23 22:59	367-12-4	
Phenol-d5 (S)	21.7	%	10.0-120			1	06/17/23 06:33	06/17/23 22:59	4165-62-2	
Nitrobenzene-d5 (S)	55.8	%	10.0-127			1	06/17/23 06:33	06/17/23 22:59	4165-60-0	
2-Fluorobiphenyl (S)	66.8	%	10.0-130			1	06/17/23 06:33	06/17/23 22:59	321-60-8	
2,4,6-Tribromophenol (S)	63.5	%	10.0-155			1	06/17/23 06:33	06/17/23 22:59	118-79-6	
Terphenyl-d14 (S)	72.2	%	10.0-128			1	06/17/23 06:33	06/17/23 22:59	1718-51-0	
SVOA (LCMS) SW-846 8321	Analytical Method: EPA 8321 Preparation Method: 8321 Pace National - Mt. Juliet									
2,4-D	ND	ug/L	2.00	1.00		1	06/15/23 15:07	06/19/23 03:17	94-75-7	
2,4,5-T	ND	ug/L	2.00	0.573		1	06/15/23 15:07	06/19/23 03:17	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.807		1	06/15/23 15:07	06/19/23 03:17	93-72-1	
Surrogates										
2,4-DB-d3 (S)	98.0	%	70.0-130			1	06/15/23 15:07	06/19/23 03:17	1219802-46-	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	06/18/23 10:16	06/18/23 10:16	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	06/18/23 10:16	06/18/23 10:16	107-02-8	
Acrylonitrile	ND	ug/L	10.0	0.671		1	06/18/23 10:16	06/18/23 10:16	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	06/18/23 10:16	06/18/23 10:16	107-05-1	
Benzene	ND	ug/L	1.00	0.0941		1	06/18/23 10:16	06/18/23 10:16	71-43-2	R1
Bromodichloromethane	ND	ug/L	1.00	0.136		1	06/18/23 10:16	06/18/23 10:16	75-27-4	L0,R1
Bromoform	ND	ug/L	1.00	0.129		1	06/18/23 10:16	06/18/23 10:16	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	06/18/23 10:16	06/18/23 10:16	74-83-9	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	06/18/23 10:16	06/18/23 10:16	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	06/18/23 10:16	06/18/23 10:16	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116		1	06/18/23 10:16	06/18/23 10:16	108-90-7	L0,R1
Dibromochloromethane	ND	ug/L	1.00	0.140		1	06/18/23 10:16	06/18/23 10:16	124-48-1	L0,R1
Chloroethane	ND	ug/L	5.00	0.192		1	06/18/23 10:16	06/18/23 10:16	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	06/18/23 10:16	06/18/23 10:16	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	06/18/23 10:16	06/18/23 10:16	74-87-3	R1
Dibromomethane	ND	ug/L	1.00	0.122		1	06/18/23 10:16	06/18/23 10:16	74-95-3	L0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 19-SR **Lab ID: 20279949014** Collected: 06/12/23 16:20 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Pace National - Mt. Juliet									
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	06/18/23 10:16	06/18/23 10:16	95-50-1	L0
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	06/18/23 10:16	06/18/23 10:16	110-57-6	R1
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	06/18/23 10:16	06/18/23 10:16	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	06/18/23 10:16	06/18/23 10:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	06/18/23 10:16	06/18/23 10:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	06/18/23 10:16	06/18/23 10:16	75-35-4	L0
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	06/18/23 10:16	06/18/23 10:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	06/18/23 10:16	06/18/23 10:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	06/18/23 10:16	06/18/23 10:16	78-87-5	L0,R1
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	06/18/23 10:16	06/18/23 10:16	10061-01-5	R1
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	06/18/23 10:16	06/18/23 10:16	10061-02-6	L0,R1
Ethylbenzene	ND	ug/L	1.00	0.173		1	06/18/23 10:16	06/18/23 10:16	100-41-4	L0,R1
2-Hexanone	ND	ug/L	10.0	0.787		1	06/18/23 10:16	06/18/23 10:16	591-78-6	L0,R1
Iodomethane	ND	ug/L	10.0	6.00		1	06/18/23 10:16	06/18/23 10:16	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	06/18/23 10:16	06/18/23 10:16	78-93-3	R1
Methylene Chloride	ND	ug/L	5.00	0.430		1	06/18/23 10:16	06/18/23 10:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	06/18/23 10:16	06/18/23 10:16	108-10-1	
Styrene	ND	ug/L	1.00	0.118		1	06/18/23 10:16	06/18/23 10:16	100-42-5	R1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	06/18/23 10:16	06/18/23 10:16	630-20-6	L0,R1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	06/18/23 10:16	06/18/23 10:16	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	06/18/23 10:16	06/18/23 10:16	127-18-4	R1
Toluene	ND	ug/L	1.00	0.278		1	06/18/23 10:16	06/18/23 10:16	108-88-3	L0,R1
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	06/18/23 10:16	06/18/23 10:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	06/18/23 10:16	06/18/23 10:16	79-00-5	L0
Trichloroethene	ND	ug/L	1.00	0.190		1	06/18/23 10:16	06/18/23 10:16	79-01-6	R1
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	06/18/23 10:16	06/18/23 10:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	06/18/23 10:16	06/18/23 10:16	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	06/18/23 10:16	06/18/23 10:16	108-05-4	
Vinyl chloride	ND	ug/L	1.00	0.234		1	06/18/23 10:16	06/18/23 10:16	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	06/18/23 10:16	06/18/23 10:16	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	06/18/23 10:16	06/18/23 10:16	179601-23-1	L0,R1
Xylene (Total)	ND	ug/L	3.00	0.174		1	06/18/23 10:16	06/18/23 10:16	1330-20-7	L0,R1
Acetonitrile	ND	ug/L	50.0	24.0		1	06/22/23 14:40	06/22/23 14:40	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	06/22/23 14:40	06/22/23 14:40	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	06/22/23 14:40	06/22/23 14:40	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	06/22/23 14:40	06/22/23 14:40	78-83-1	
Methacrylonitrile	ND	ug/L	50.0	14.2		1	06/22/23 14:40	06/22/23 14:40	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	06/22/23 14:40	06/22/23 14:40	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	06/22/23 14:40	06/22/23 14:40	76-01-7	
Propionitrile	ND	ug/L	50.0	16.2		1	06/22/23 14:40	06/22/23 14:40	107-12-0	
Surrogates										
Toluene-d8 (S)	102	%	80.0-120			1	06/18/23 10:16	06/18/23 10:16	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 19-SR **Lab ID: 20279949014** Collected: 06/12/23 16:20 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Surrogates										
Toluene-d8 (S)	98.3	%	80.0-120			1	06/22/23 14:40	06/22/23 14:40	2037-26-5	
1,2-Dichloroethane-d4 (S)	90.3	%	70.0-130			1	06/18/23 10:16	06/18/23 10:16	17060-07-0	
1,2-Dichloroethane-d4 (S)	99.7	%	70.0-130			1	06/22/23 14:40	06/22/23 14:40	17060-07-0	
4-Bromofluorobenzene (S)	96.4	%	77.0-126			1	06/18/23 10:16	06/18/23 10:16	460-00-4	
4-Bromofluorobenzene (S)	88.3	%	77.0-126			1	06/22/23 14:40	06/22/23 14:40	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012		1		06/19/23 09:32	18496-25-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay									
Cyanide	ND	mg/L	0.023	0.0069		1	06/26/23 08:00	06/26/23 10:25	57-12-5	
420.1 Phenolics, Total	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - New Orleans									
Phenolics, Total Recoverable	**0.011J**	mg/L	0.020	0.0093		1	07/06/23 13:13	07/07/23 10:25	64743-03-9	B

Sample: 31-DR **Lab ID: 20279949015** Collected: 06/12/23 09:12 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/18/23 08:33	06/18/23 19:21	309-00-2	
alpha-BHC	ND	ug/L	0.0500	0.0172		1	06/18/23 08:33	06/18/23 19:21	319-84-6	
beta-BHC	ND	ug/L	0.0500	0.0208		1	06/18/23 08:33	06/18/23 19:21	319-85-7	
delta-BHC	ND	ug/L	0.0500	0.0150		1	06/18/23 08:33	06/18/23 19:21	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.0500	0.0209		1	06/18/23 08:33	06/18/23 19:21	58-89-9	
Chlordane (Technical)	ND	ug/L	5.00	0.0198		1	06/18/23 08:33	06/18/23 19:21	57-74-9	
4,4'-DDD	ND	ug/L	0.0500	0.0177		1	06/18/23 08:33	06/18/23 19:21	72-54-8	
4,4'-DDE	ND	ug/L	0.0500	0.0154		1	06/18/23 08:33	06/18/23 19:21	72-55-9	
4,4'-DDT	ND	ug/L	0.0500	0.0198		1	06/18/23 08:33	06/18/23 19:21	50-29-3	
Dieldrin	ND	ug/L	0.0500	0.0162		1	06/18/23 08:33	06/18/23 19:21	60-57-1	
Endosulfan I	ND	ug/L	0.0500	0.0160		1	06/18/23 08:33	06/18/23 19:21	959-98-8	
Endosulfan II	ND	ug/L	0.0500	0.0164		1	06/18/23 08:33	06/18/23 19:21	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.0500	0.0217		1	06/18/23 08:33	06/18/23 19:21	1031-07-8	
Endrin	ND	ug/L	0.0500	0.0161		1	06/18/23 08:33	06/18/23 19:21	72-20-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 31-DR **Lab ID: 20279949015** Collected: 06/12/23 09:12 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Endrin aldehyde	ND	ug/L	0.0500	0.0237		1	06/18/23 08:33	06/18/23 19:21	7421-93-4	
Heptachlor	ND	ug/L	0.0500	0.0148		1	06/18/23 08:33	06/18/23 19:21	76-44-8	
Heptachlor epoxide	ND	ug/L	0.0500	0.0183		1	06/18/23 08:33	06/18/23 19:21	1024-57-3	
Methoxychlor	ND	ug/L	0.0500	0.0193		1	06/18/23 08:33	06/18/23 19:21	72-43-5	
Toxaphene	ND	ug/L	0.500	0.168		1	06/18/23 08:33	06/18/23 19:21	8001-35-2	
Surrogates										
Decachlorobiphenyl (S)	49.4	%	10.0-128			1	06/18/23 08:33	06/18/23 19:21	2051-24-3	
Tetrachloro-m-xylene (S)	80.1	%	10.0-127			1	06/18/23 08:33	06/18/23 19:21	877-09-8	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00034		1	06/15/23 06:33	06/20/23 18:26	7440-36-0	
Arsenic	**0.00032J**	mg/L	0.0010	0.00010		1	06/15/23 06:33	06/20/23 18:26	7440-38-2	
Barium	**0.31**	mg/L	0.0010	0.00064		1	06/15/23 06:33	06/20/23 18:26	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00021		1	06/15/23 06:33	06/20/23 18:26	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.00019		1	06/15/23 06:33	06/20/23 18:26	7440-43-9	
Chromium	**0.0015**	mg/L	0.0010	0.00063		1	06/15/23 06:33	06/20/23 18:26	7440-47-3	
Cobalt	**0.00014J**	mg/L	0.0010	0.00012		1	06/15/23 06:33	06/20/23 18:26	7440-48-4	
Copper	ND	mg/L	0.0030	0.0017		1	06/15/23 06:33	06/20/23 18:26	7440-50-8	
Lead	ND	mg/L	0.0010	0.00069		1	06/15/23 06:33	06/20/23 18:26	7439-92-1	
Nickel	ND	mg/L	0.0010	0.00062		1	06/15/23 06:33	06/20/23 18:26	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00026		1	06/15/23 06:33	06/20/23 18:26	7782-49-2	
Silver	ND	mg/L	0.00050	0.00020		1	06/15/23 06:33	06/20/23 18:26	7440-22-4	
Thallium	ND	mg/L	0.00050	0.00011		1	06/15/23 06:33	06/20/23 18:26	7440-28-0	
Tin	ND	mg/L	0.0060	0.00065		1	06/15/23 06:33	06/20/23 18:26	7440-31-5	
Vanadium	**0.00049J**	mg/L	0.0050	0.00023		1	06/15/23 06:33	06/20/23 18:26	7440-62-2	
Zinc	ND	mg/L	0.010	0.0072		1	06/15/23 06:33	06/20/23 18:26	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/16/23 06:15	06/26/23 15:09	7439-97-6	
SVOA (GC/MS) 8270 C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.800**	ug/L	0.400	0.0447		1	06/22/23 15:40	06/23/23 17:01	123-91-1	B,H1
Surrogates										
Nitrobenzene-d5 (S)	76.5	%	10.0-120			1	06/22/23 15:40	06/23/23 17:01	4165-60-0	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	**8.32**	ug/L	1.05	0.0930		1.05	06/17/23 06:33	06/17/23 23:21	83-32-9	
Acenaphthylene	ND	ug/L	1.05	0.0967		1.05	06/17/23 06:33	06/17/23 23:21	208-96-8	
Acetophenone	ND	ug/L	10.5	0.218		1.05	06/17/23 06:33	06/17/23 23:21	98-86-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 31-DR **Lab ID: 20279949015** Collected: 06/12/23 09:12 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Aniline	ND	ug/L	10.5	1.73		1.05	06/17/23 06:33	06/17/23 23:21	62-53-3	R1
Anthracene	ND	ug/L	1.05	0.0844		1.05	06/17/23 06:33	06/17/23 23:21	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.05	0.209		1.05	06/17/23 06:33	06/17/23 23:21	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.05	0.136		1.05	06/17/23 06:33	06/17/23 23:21	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.05	0.126		1.05	06/17/23 06:33	06/17/23 23:21	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.05	0.127		1.05	06/17/23 06:33	06/17/23 23:21	191-24-2	
Benzo(a)pyrene	ND	ug/L	1.05	0.0400		1.05	06/17/23 06:33	06/17/23 23:21	50-32-8	
Benzyl alcohol	ND	ug/L	10.5	0.591		1.05	06/17/23 06:33	06/17/23 23:21	100-51-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.5	0.122		1.05	06/17/23 06:33	06/17/23 23:21	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.5	0.144		1.05	06/17/23 06:33	06/17/23 23:21	111-44-4	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.5	0.221		1.05	06/17/23 06:33	06/17/23 23:21	108-60-1	
4-Bromophenylphenyl ether	ND	ug/L	10.5	0.0921		1.05	06/17/23 06:33	06/17/23 23:21	101-55-3	
4-Chloroaniline	ND	ug/L	10.5	0.246		1.05	06/17/23 06:33	06/17/23 23:21	106-47-8	
2-Chloronaphthalene	ND	ug/L	1.05	0.0680		1.05	06/17/23 06:33	06/17/23 23:21	91-58-7	
4-Chlorophenylphenyl ether	ND	ug/L	10.5	0.0972		1.05	06/17/23 06:33	06/17/23 23:21	7005-72-3	
Chrysene	ND	ug/L	1.05	0.136		1.05	06/17/23 06:33	06/17/23 23:21	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.05	0.0676		1.05	06/17/23 06:33	06/17/23 23:21	53-70-3	
Dibenzofuran	ND	ug/L	10.5	0.102		1.05	06/17/23 06:33	06/17/23 23:21	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.5	0.0749		1.05	06/17/23 06:33	06/17/23 23:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.5	0.139		1.05	06/17/23 06:33	06/17/23 23:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.5	0.0989		1.05	06/17/23 06:33	06/17/23 23:21	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10.5	0.223		1.05	06/17/23 06:33	06/17/23 23:21	91-94-1	
2,4-Dinitrotoluene	ND	ug/L	10.5	0.103		1.05	06/17/23 06:33	06/17/23 23:21	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.5	0.263		1.05	06/17/23 06:33	06/17/23 23:21	606-20-2	
Fluoranthene	ND	ug/L	1.05	0.107		1.05	06/17/23 06:33	06/17/23 23:21	206-44-0	
Fluorene	ND	ug/L	1.05	0.0886		1.05	06/17/23 06:33	06/17/23 23:21	86-73-7	
Hexachlorobenzene	ND	ug/L	1.05	0.0793		1.05	06/17/23 06:33	06/17/23 23:21	118-74-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.5	0.102		1.05	06/17/23 06:33	06/17/23 23:21	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	10.5	0.0628		1.05	06/17/23 06:33	06/17/23 23:21	77-47-4	
Hexachloroethane	ND	ug/L	10.5	0.133		1.05	06/17/23 06:33	06/17/23 23:21	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.05	0.293		1.05	06/17/23 06:33	06/17/23 23:21	193-39-5	
Isophorone	ND	ug/L	10.5	0.150		1.05	06/17/23 06:33	06/17/23 23:21	78-59-1	
1-Methylnaphthalene	**4.99**	ug/L	1.05	0.0829		1.05	06/17/23 06:33	06/17/23 23:21	90-12-0	
2-Methylnaphthalene	**0.127J**	ug/L	1.05	0.123		1.05	06/17/23 06:33	06/17/23 23:21	91-57-6	J
2-Nitroaniline	ND	ug/L	10.5	0.107		1.05	06/17/23 06:33	06/17/23 23:21	88-74-4	
3-Nitroaniline	ND	ug/L	10.5	0.0912		1.05	06/17/23 06:33	06/17/23 23:21	99-09-2	
4-Nitroaniline	ND	ug/L	10.5	0.0956		1.05	06/17/23 06:33	06/17/23 23:21	100-01-6	
Naphthalene	ND	ug/L	1.05	0.167		1.05	06/17/23 06:33	06/17/23 23:21	91-20-3	
Nitrobenzene	ND	ug/L	10.5	0.312		1.05	06/17/23 06:33	06/17/23 23:21	98-95-3	
N-Nitrosodimethylamine	ND	ug/L	10.5	1.05		1.05	06/17/23 06:33	06/17/23 23:21	62-75-9	
N-Nitrosodiphenylamine	ND	ug/L	10.5	2.49		1.05	06/17/23 06:33	06/17/23 23:21	86-30-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 31-DR **Lab ID: 20279949015** Collected: 06/12/23 09:12 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
N-Nitroso-di-n-propylamine	ND	ug/L	10.5	0.274		1.05	06/17/23 06:33	06/17/23 23:21	621-64-7	
Phenanthrene	**0.148J**	ug/L	1.05	0.118		1.05	06/17/23 06:33	06/17/23 23:21	85-01-8	J
Pyridine	ND	ug/L	10.5	0.658		1.05	06/17/23 06:33	06/17/23 23:21	110-86-1	L0,R1
Butylbenzylphthalate	ND	ug/L	3.15	0.803		1.05	06/17/23 06:33	06/17/23 23:21	85-68-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.15	0.940		1.05	06/17/23 06:33	06/17/23 23:21	117-81-7	
Di-n-butylphthalate	ND	ug/L	3.15	0.476		1.05	06/17/23 06:33	06/17/23 23:21	84-74-2	
Diethylphthalate	**0.325J**	ug/L	3.15	0.301		1.05	06/17/23 06:33	06/17/23 23:21	84-66-2	J
Dimethylphthalate	ND	ug/L	3.15	0.273		1.05	06/17/23 06:33	06/17/23 23:21	131-11-3	
Di-n-octylphthalate	ND	ug/L	3.15	0.979		1.05	06/17/23 06:33	06/17/23 23:21	117-84-0	
Pyrene	ND	ug/L	1.05	0.112		1.05	06/17/23 06:33	06/17/23 23:21	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.5	0.0679		1.05	06/17/23 06:33	06/17/23 23:21	95-94-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.5	0.0733		1.05	06/17/23 06:33	06/17/23 23:21	120-82-1	
4-Chloro-3-methylphenol	ND	ug/L	10.5	0.138		1.05	06/17/23 06:33	06/17/23 23:21	59-50-7	
2-Chlorophenol	ND	ug/L	10.5	0.140		1.05	06/17/23 06:33	06/17/23 23:21	95-57-8	
2,4-Dichlorophenol	ND	ug/L	10.5	0.107		1.05	06/17/23 06:33	06/17/23 23:21	120-83-2	
2,4-Dimethylphenol	ND	ug/L	10.5	0.0668		1.05	06/17/23 06:33	06/17/23 23:21	105-67-9	
4,6-Dinitro-2-methylphenol	ND	ug/L	10.5	1.18		1.05	06/17/23 06:33	06/17/23 23:21	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10.5	6.23		1.05	06/17/23 06:33	06/17/23 23:21	51-28-5	
2-Methylphenol(o-Cresol)	ND	ug/L	10.5	0.0975		1.05	06/17/23 06:33	06/17/23 23:21	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.5	0.176		1.05	06/17/23 06:33	06/17/23 23:21		
2-Nitrophenol	ND	ug/L	10.5	0.123		1.05	06/17/23 06:33	06/17/23 23:21	88-75-5	
4-Nitrophenol	ND	ug/L	10.5	0.150		1.05	06/17/23 06:33	06/17/23 23:21	100-02-7	
Pentachlorophenol	ND	ug/L	10.5	0.329		1.05	06/17/23 06:33	06/17/23 23:21	87-86-5	
Phenol	ND	ug/L	10.5	4.55		1.05	06/17/23 06:33	06/17/23 23:21	108-95-2	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.5	0.243		1.05	06/17/23 06:33	06/17/23 23:21	58-90-2	
2,4,5-Trichlorophenol	ND	ug/L	10.5	0.114		1.05	06/17/23 06:33	06/17/23 23:21	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.5	0.105		1.05	06/17/23 06:33	06/17/23 23:21	88-06-2	
2-Acetylaminofluorene	ND	ug/L	10.5	0.266		1.05	06/17/23 06:33	06/22/23 19:58	53-96-3	
4-Aminobiphenyl	ND	ug/L	10.5	0.484		1.05	06/17/23 06:33	06/22/23 19:58	92-67-1	
Aramite	ND	ug/L	52.5	17.5		1.05	06/17/23 06:33	06/22/23 19:58	140-57-8	
Chlorobenzilate	ND	ug/L	52.5	4.03		1.05	06/17/23 06:33	06/22/23 19:58	510-15-6	
Diallate	ND	ug/L	10.5	0.550		1.05	06/17/23 06:33	06/22/23 19:58	2303-16-4	
2,6-Dichlorophenol	ND	ug/L	10.5	0.107		1.05	06/17/23 06:33	06/22/23 19:58	87-65-0	
Dimethoate	ND	ug/L	52.5	5.30		1.05	06/17/23 06:33	06/22/23 19:58	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	10.5	3.87		1.05	06/17/23 06:33	06/22/23 19:58	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.5	1.80		1.05	06/17/23 06:33	06/22/23 19:58	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.5	3.56		1.05	06/17/23 06:33	06/22/23 19:58	119-93-7	
a,a-Dimethylphenylethylamine	ND	ug/L	52.5	3.29		1.05	06/17/23 06:33	06/22/23 19:58	122-09-8	
1,3-Dinitrobenzene	ND	ug/L	10.5	0.377		1.05	06/17/23 06:33	06/22/23 19:58	99-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 31-DR **Lab ID: 20279949015** Collected: 06/12/23 09:12 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Diphenylamine	ND	ug/L	10.5	2.49		1.05	06/17/23 06:33	06/17/23 23:21	122-39-4	
Dinoseb	ND	ug/L	52.5	8.41		1.05	06/17/23 06:33	06/22/23 19:58	88-85-7	
Ethyl methanesulfonate	ND	ug/L	10.5	0.342		1.05	06/17/23 06:33	06/22/23 19:58	62-50-0	
Famphur	ND	ug/L	21.0	4.12		1.05	06/17/23 06:33	06/22/23 19:58	52-85-7	
Hexachloropropene	ND	ug/L	52.5	0.156		1.05	06/17/23 06:33	06/22/23 19:58	1888-71-7	
Hexachlorophene	ND	ug/L	52.5	1.51		1.05	06/17/23 06:33	06/22/23 19:58	70-30-4	
Isodrin	ND	ug/L	10.5	4.32		1.05	06/17/23 06:33	06/22/23 19:58	465-73-6	
Isosafrole	ND	ug/L	10.5	4.07		1.05	06/17/23 06:33	06/22/23 19:58	120-58-1	
Kepone	ND	ug/L	21.0	2.79		1.05	06/17/23 06:33	06/22/23 19:58	143-50-0	
Methapyrilene	ND	ug/L	52.5	10.5		1.05	06/17/23 06:33	06/22/23 19:58	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.5	0.172		1.05	06/17/23 06:33	06/22/23 19:58	56-49-5	
Methyl methanesulfonate	ND	ug/L	52.5	3.57		1.05	06/17/23 06:33	06/22/23 19:58	66-27-3	
1,4-Naphthoquinone	ND	ug/L	52.5	5.84		1.05	06/17/23 06:33	06/22/23 19:58	130-15-4	
1-Naphthalenamine	**1.04J**	ug/L	10.5	0.303		1.05	06/17/23 06:33	06/22/23 19:58	134-32-7	J
2-Naphthalenamine	ND	ug/L	10.5	4.70		1.05	06/17/23 06:33	06/22/23 19:58	91-59-8	
5-Nitro-o-toluidine	ND	ug/L	10.5	2.09		1.05	06/17/23 06:33	06/22/23 19:58	99-55-8	
4-Nitroquinoline-n-oxide	ND	ug/L	10.5	2.13		1.05	06/17/23 06:33	06/22/23 19:58	56-57-5	
N-Nitrosodiethylamine	ND	ug/L	10.5	3.75		1.05	06/17/23 06:33	06/22/23 19:58	55-18-5	
N-Nitroso-di-n-butylamine	ND	ug/L	10.5	4.11		1.05	06/17/23 06:33	06/22/23 19:58	924-16-3	
N-Nitrosomethylethylamine	ND	ug/L	10.5	3.41		1.05	06/17/23 06:33	06/22/23 19:58	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	10.5	3.41		1.05	06/17/23 06:33	06/22/23 19:58	59-89-2	
N-Nitrosopiperidine	ND	ug/L	10.5	3.91		1.05	06/17/23 06:33	06/22/23 19:58	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.5	3.56		1.05	06/17/23 06:33	06/22/23 19:58	930-55-2	
Pentachlorobenzene	ND	ug/L	10.5	4.36		1.05	06/17/23 06:33	06/22/23 19:58	608-93-5	
Pentachloronitrobenzene	ND	ug/L	10.5	4.36		1.05	06/17/23 06:33	06/22/23 19:58	82-68-8	
Phenacetin	ND	ug/L	10.5	4.89		1.05	06/17/23 06:33	06/22/23 19:58	62-44-2	
p-Phenylenediamine	ND	ug/L	7250	406		1.05	06/17/23 06:33	06/22/23 19:58	106-50-3	
2-Picoline	ND	ug/L	52.5	7.17		1.05	06/17/23 06:33	06/22/23 19:58	109-06-8	
Pronamide	ND	ug/L	10.5	4.42		1.05	06/17/23 06:33	06/22/23 19:58	23950-58-5	
Safrole	ND	ug/L	10.5	3.86		1.05	06/17/23 06:33	06/22/23 19:58	94-59-7	
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	52.5	4.19		1.05	06/17/23 06:33	06/22/23 19:58	3689-24-5	
Thionazin	ND	ug/L	10.5	4.27		1.05	06/17/23 06:33	06/22/23 19:58	297-97-2	
O-Toluidine	ND	ug/L	10.5	3.71		1.05	06/17/23 06:33	06/22/23 19:58	95-53-4	
1,3,5-Trinitrobenzene	ND	ug/L	10.5	1.39		1.05	06/17/23 06:33	06/22/23 19:58	99-35-4	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.5	3.08		1.05	06/17/23 06:33	06/22/23 19:58	126-68-1	
Surrogates										
2-Fluorophenol (S)	35.2	%	10.0-120			1.05	06/17/23 06:33	06/17/23 23:21	367-12-4	
Phenol-d5 (S)	24.4	%	10.0-120			1.05	06/17/23 06:33	06/17/23 23:21	4165-62-2	
Nitrobenzene-d5 (S)	58.2	%	10.0-127			1.05	06/17/23 06:33	06/17/23 23:21	4165-60-0	
2-Fluorobiphenyl (S)	66.9	%	10.0-130			1.05	06/17/23 06:33	06/17/23 23:21	321-60-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 31-DR **Lab ID: 20279949015** Collected: 06/12/23 09:12 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Surrogates										
2,4,6-Tribromophenol (S)	69.5	%	10.0-155			1.05	06/17/23 06:33	06/17/23 23:21	118-79-6	
Terphenyl-d14 (S)	73.0	%	10.0-128			1.05	06/17/23 06:33	06/17/23 23:21	1718-51-0	
SVOA (LCMS) SW-846 8321	Analytical Method: EPA 8321 Preparation Method: 8321 Pace National - Mt. Juliet									
2,4-D	ND	ug/L	2.00	1.00		1	06/15/23 15:07	06/19/23 03:35	94-75-7	
2,4,5-T	ND	ug/L	2.00	0.573		1	06/15/23 15:07	06/19/23 03:35	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.807		1	06/15/23 15:07	06/19/23 03:35	93-72-1	
Surrogates										
2,4-DB-d3 (S)	101	%	70.0-130			1	06/15/23 15:07	06/19/23 03:35	1219802-46-	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	06/18/23 10:36	06/18/23 10:36	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	06/18/23 10:36	06/18/23 10:36	107-02-8	
Acrylonitrile	ND	ug/L	10.0	0.671		1	06/18/23 10:36	06/18/23 10:36	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	06/18/23 10:36	06/18/23 10:36	107-05-1	
Benzene	ND	ug/L	1.00	0.0941		1	06/18/23 10:36	06/18/23 10:36	71-43-2	R1
Bromodichloromethane	ND	ug/L	1.00	0.136		1	06/18/23 10:36	06/18/23 10:36	75-27-4	L0,R1
Bromoform	ND	ug/L	1.00	0.129		1	06/18/23 10:36	06/18/23 10:36	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	06/18/23 10:36	06/18/23 10:36	74-83-9	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	06/18/23 10:36	06/18/23 10:36	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	06/18/23 10:36	06/18/23 10:36	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116		1	06/18/23 10:36	06/18/23 10:36	108-90-7	L0,R1
Dibromochloromethane	ND	ug/L	1.00	0.140		1	06/18/23 10:36	06/18/23 10:36	124-48-1	L0,R1
Chloroethane	ND	ug/L	5.00	0.192		1	06/18/23 10:36	06/18/23 10:36	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	06/18/23 10:36	06/18/23 10:36	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	06/18/23 10:36	06/18/23 10:36	74-87-3	R1
Dibromomethane	ND	ug/L	1.00	0.122		1	06/18/23 10:36	06/18/23 10:36	74-95-3	L0
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	06/18/23 10:36	06/18/23 10:36	95-50-1	L0
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	06/18/23 10:36	06/18/23 10:36	110-57-6	R1
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	06/18/23 10:36	06/18/23 10:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	06/18/23 10:36	06/18/23 10:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	06/18/23 10:36	06/18/23 10:36	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	06/18/23 10:36	06/18/23 10:36	75-35-4	L0
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	06/18/23 10:36	06/18/23 10:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	06/18/23 10:36	06/18/23 10:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	06/18/23 10:36	06/18/23 10:36	78-87-5	L0,R1
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	06/18/23 10:36	06/18/23 10:36	10061-01-5	R1
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	06/18/23 10:36	06/18/23 10:36	10061-02-6	L0,R1
Ethylbenzene	ND	ug/L	1.00	0.173		1	06/18/23 10:36	06/18/23 10:36	100-41-4	L0,R1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 31-DR **Lab ID: 20279949015** Collected: 06/12/23 09:12 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Pace National - Mt. Juliet									
2-Hexanone	ND	ug/L	10.0	0.787		1	06/18/23 10:36	06/18/23 10:36	591-78-6	L0,R1
Iodomethane	ND	ug/L	10.0	6.00		1	06/18/23 10:36	06/18/23 10:36	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	06/18/23 10:36	06/18/23 10:36	78-93-3	R1
Methylene Chloride	ND	ug/L	5.00	0.430		1	06/18/23 10:36	06/18/23 10:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	06/18/23 10:36	06/18/23 10:36	108-10-1	
Styrene	ND	ug/L	1.00	0.118		1	06/18/23 10:36	06/18/23 10:36	100-42-5	R1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	06/18/23 10:36	06/18/23 10:36	630-20-6	L0,R1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	06/18/23 10:36	06/18/23 10:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	06/18/23 10:36	06/18/23 10:36	127-18-4	R1
Toluene	ND	ug/L	1.00	0.278		1	06/18/23 10:36	06/18/23 10:36	108-88-3	L0,R1
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	06/18/23 10:36	06/18/23 10:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	06/18/23 10:36	06/18/23 10:36	79-00-5	L0
Trichloroethene	ND	ug/L	1.00	0.190		1	06/18/23 10:36	06/18/23 10:36	79-01-6	R1
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	06/18/23 10:36	06/18/23 10:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	06/18/23 10:36	06/18/23 10:36	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	06/18/23 10:36	06/18/23 10:36	108-05-4	
Vinyl chloride	ND	ug/L	1.00	0.234		1	06/18/23 10:36	06/18/23 10:36	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	06/22/23 15:02	06/22/23 15:02	95-47-6	
m&p-Xylene	**1.41J**	ug/L	2.00	0.430		1	06/22/23 15:02	06/22/23 15:02	179601-23-1	J
Xylene (Total)	**1.41J**	ug/L	3.00	0.174		1	06/22/23 15:02	06/22/23 15:02	1330-20-7	J
Acetonitrile	ND	ug/L	50.0	24.0		1	06/22/23 15:02	06/22/23 15:02	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	06/22/23 15:02	06/22/23 15:02	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	06/22/23 15:02	06/22/23 15:02	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	06/22/23 15:02	06/22/23 15:02	78-83-1	
Methacrylonitrile	ND	ug/L	50.0	14.2		1	06/22/23 15:02	06/22/23 15:02	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	06/22/23 15:02	06/22/23 15:02	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	06/22/23 15:02	06/22/23 15:02	76-01-7	
Propionitrile	ND	ug/L	50.0	16.2		1	06/22/23 15:02	06/22/23 15:02	107-12-0	
Surrogates										
Toluene-d8 (S)	100	%	80.0-120			1	06/18/23 10:36	06/18/23 10:36	2037-26-5	
Toluene-d8 (S)	98.1	%	80.0-120			1	06/22/23 15:02	06/22/23 15:02	2037-26-5	
1,2-Dichloroethane-d4 (S)	96.4	%	70.0-130			1	06/18/23 10:36	06/18/23 10:36	17060-07-0	
1,2-Dichloroethane-d4 (S)	105	%	70.0-130			1	06/22/23 15:02	06/22/23 15:02	17060-07-0	
4-Bromofluorobenzene (S)	99.9	%	77.0-126			1	06/18/23 10:36	06/18/23 10:36	460-00-4	
4-Bromofluorobenzene (S)	89.1	%	77.0-126			1	06/22/23 15:02	06/22/23 15:02	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012		1		06/19/23 09:33	18496-25-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 31-DR **Lab ID: 20279949015** Collected: 06/12/23 09:12 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
335.4 Cyanide, Total		Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay								
Cyanide	ND	mg/L	0.023	0.0069		1	06/26/23 08:00	06/26/23 10:25	57-12-5	
420.1 Phenolics, Total		Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - New Orleans								
Phenolics, Total Recoverable	**0.022**	mg/L	0.020	0.0093		1	07/06/23 13:13	07/07/23 10:25	64743-03-9	B

Sample: 31-IR **Lab ID: 20279949016** Collected: 06/12/23 10:00 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081		Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet								
Aldrin	ND	ug/L	0.0500	0.0198		1	06/18/23 08:33	06/18/23 19:30	309-00-2	
alpha-BHC	ND	ug/L	0.0500	0.0172		1	06/18/23 08:33	06/18/23 19:30	319-84-6	
beta-BHC	ND	ug/L	0.0500	0.0208		1	06/18/23 08:33	06/18/23 19:30	319-85-7	
delta-BHC	ND	ug/L	0.0500	0.0150		1	06/18/23 08:33	06/18/23 19:30	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.0500	0.0209		1	06/18/23 08:33	06/18/23 19:30	58-89-9	
Chlordane (Technical)	ND	ug/L	5.00	0.0198		1	06/18/23 08:33	06/18/23 19:30	57-74-9	
4,4'-DDD	ND	ug/L	0.0500	0.0177		1	06/18/23 08:33	06/18/23 19:30	72-54-8	
4,4'-DDE	ND	ug/L	0.0500	0.0154		1	06/18/23 08:33	06/18/23 19:30	72-55-9	
4,4'-DDT	ND	ug/L	0.0500	0.0198		1	06/18/23 08:33	06/18/23 19:30	50-29-3	
Dieldrin	ND	ug/L	0.0500	0.0162		1	06/18/23 08:33	06/18/23 19:30	60-57-1	
Endosulfan I	ND	ug/L	0.0500	0.0160		1	06/18/23 08:33	06/18/23 19:30	959-98-8	
Endosulfan II	ND	ug/L	0.0500	0.0164		1	06/18/23 08:33	06/18/23 19:30	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.0500	0.0217		1	06/18/23 08:33	06/18/23 19:30	1031-07-8	
Endrin	ND	ug/L	0.0500	0.0161		1	06/18/23 08:33	06/18/23 19:30	72-20-8	
Endrin aldehyde	ND	ug/L	0.0500	0.0237		1	06/18/23 08:33	06/18/23 19:30	7421-93-4	
Heptachlor	ND	ug/L	0.0500	0.0148		1	06/18/23 08:33	06/18/23 19:30	76-44-8	
Heptachlor epoxide	ND	ug/L	0.0500	0.0183		1	06/18/23 08:33	06/18/23 19:30	1024-57-3	
Methoxychlor	ND	ug/L	0.0500	0.0193		1	06/18/23 08:33	06/18/23 19:30	72-43-5	
Toxaphene	ND	ug/L	0.500	0.168		1	06/18/23 08:33	06/18/23 19:30	8001-35-2	
Surrogates										
Decachlorobiphenyl (S)	46.8	%	10.0-128			1	06/18/23 08:33	06/18/23 19:30	2051-24-3	
Tetrachloro-m-xylene (S)	76.3	%	10.0-127			1	06/18/23 08:33	06/18/23 19:30	877-09-8	
6020 MET ICPMS		Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans								
Antimony	ND	mg/L	0.0010	0.00034		1	06/15/23 06:33	06/20/23 18:32	7440-36-0	
Arsenic	**0.00031J**	mg/L	0.0010	0.00010		1	06/15/23 06:33	06/20/23 18:32	7440-38-2	
Barium	**0.045**	mg/L	0.0010	0.00064		1	06/15/23 06:33	06/20/23 18:32	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00021		1	06/15/23 06:33	06/20/23 18:32	7440-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 31-IR **Lab ID: 20279949016** Collected: 06/12/23 10:00 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Cadmium	ND	mg/L	0.0010	0.00019		1	06/15/23 06:33	06/20/23 18:32	7440-43-9	
Chromium	ND	mg/L	0.0010	0.00063		1	06/15/23 06:33	06/20/23 18:32	7440-47-3	
Cobalt	**0.00023J**	mg/L	0.0010	0.00012		1	06/15/23 06:33	06/20/23 18:32	7440-48-4	
Copper	ND	mg/L	0.0030	0.0017		1	06/15/23 06:33	06/20/23 18:32	7440-50-8	
Lead	ND	mg/L	0.0010	0.00069		1	06/15/23 06:33	06/20/23 18:32	7439-92-1	
Nickel	ND	mg/L	0.0010	0.00062		1	06/15/23 06:33	06/20/23 18:32	7440-02-0	
Selenium	**0.0019**	mg/L	0.0010	0.00026		1	06/15/23 06:33	06/20/23 18:32	7782-49-2	
Silver	ND	mg/L	0.00050	0.00020		1	06/15/23 06:33	06/20/23 18:32	7440-22-4	
Thallium	ND	mg/L	0.00050	0.00011		1	06/15/23 06:33	06/20/23 18:32	7440-28-0	
Tin	ND	mg/L	0.0060	0.00065		1	06/15/23 06:33	06/20/23 18:32	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.00023		1	06/15/23 06:33	06/20/23 18:32	7440-62-2	
Zinc	**0.012**	mg/L	0.010	0.0072		1	06/15/23 06:33	06/20/23 18:32	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/16/23 06:15	06/26/23 15:11	7439-97-6	
SVOA (GC/MS) 8270 C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.195J**	ug/L	0.400	0.0447		1	06/22/23 15:40	06/23/23 17:20	123-91-1	B,H1,J
Surrogates										
Nitrobenzene-d5 (S)	76.1	%	10.0-120			1	06/22/23 15:40	06/23/23 17:20	4165-60-0	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	ND	ug/L	1.00	0.0886		1	06/17/23 06:33	06/17/23 19:43	83-32-9	
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/17/23 06:33	06/17/23 19:43	208-96-8	
Acetophenone	ND	ug/L	10.0	0.208		1	06/17/23 06:33	06/17/23 19:43	98-86-2	
Aniline	ND	ug/L	10.0	1.65		1	06/17/23 06:33	06/17/23 19:43	62-53-3	R1
Anthracene	ND	ug/L	1.00	0.0804		1	06/17/23 06:33	06/17/23 19:43	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/17/23 06:33	06/17/23 19:43	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/17/23 06:33	06/17/23 19:43	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/17/23 06:33	06/17/23 19:43	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/17/23 06:33	06/17/23 19:43	191-24-2	
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/17/23 06:33	06/17/23 19:43	50-32-8	
Benzyl alcohol	ND	ug/L	10.0	0.563		1	06/17/23 06:33	06/17/23 19:43	100-51-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.116		1	06/17/23 06:33	06/17/23 19:43	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	0.137		1	06/17/23 06:33	06/17/23 19:43	111-44-4	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	0.210		1	06/17/23 06:33	06/17/23 19:43	108-60-1	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.0877		1	06/17/23 06:33	06/17/23 19:43	101-55-3	
4-Chloroaniline	ND	ug/L	10.0	0.234		1	06/17/23 06:33	06/17/23 19:43	106-47-8	
2-Chloronaphthalene	ND	ug/L	1.00	0.0648		1	06/17/23 06:33	06/17/23 19:43	91-58-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 31-IR **Lab ID: 20279949016** Collected: 06/12/23 10:00 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.0926		1	06/17/23 06:33	06/17/23 19:43	7005-72-3	
Chrysene	ND	ug/L	1.00	0.130		1	06/17/23 06:33	06/17/23 19:43	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.00	0.0644		1	06/17/23 06:33	06/17/23 19:43	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/17/23 06:33	06/17/23 19:43	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.0713		1	06/17/23 06:33	06/17/23 19:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.132		1	06/17/23 06:33	06/17/23 19:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.0942		1	06/17/23 06:33	06/17/23 19:43	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10.0	0.212		1	06/17/23 06:33	06/17/23 19:43	91-94-1	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.0983		1	06/17/23 06:33	06/17/23 19:43	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.250		1	06/17/23 06:33	06/17/23 19:43	606-20-2	
Fluoranthene	ND	ug/L	1.00	0.102		1	06/17/23 06:33	06/17/23 19:43	206-44-0	
Fluorene	ND	ug/L	1.00	0.0844		1	06/17/23 06:33	06/17/23 19:43	86-73-7	
Hexachlorobenzene	ND	ug/L	1.00	0.0755		1	06/17/23 06:33	06/17/23 19:43	118-74-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.0968		1	06/17/23 06:33	06/17/23 19:43	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.0598		1	06/17/23 06:33	06/17/23 19:43	77-47-4	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/17/23 06:33	06/17/23 19:43	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/17/23 06:33	06/17/23 19:43	193-39-5	
Isophorone	ND	ug/L	10.0	0.143		1	06/17/23 06:33	06/17/23 19:43	78-59-1	
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/17/23 06:33	06/17/23 19:43	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/17/23 06:33	06/17/23 19:43	91-57-6	
2-Nitroaniline	ND	ug/L	10.0	0.102		1	06/17/23 06:33	06/17/23 19:43	88-74-4	
3-Nitroaniline	ND	ug/L	10.0	0.0869		1	06/17/23 06:33	06/17/23 19:43	99-09-2	
4-Nitroaniline	ND	ug/L	10.0	0.0910		1	06/17/23 06:33	06/17/23 19:43	100-01-6	
Naphthalene	ND	ug/L	1.00	0.159		1	06/17/23 06:33	06/17/23 19:43	91-20-3	
Nitrobenzene	ND	ug/L	10.0	0.297		1	06/17/23 06:33	06/17/23 19:43	98-95-3	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.998		1	06/17/23 06:33	06/17/23 19:43	62-75-9	
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/17/23 06:33	06/17/23 19:43	86-30-6	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.261		1	06/17/23 06:33	06/17/23 19:43	621-64-7	
Phenanthrene	ND	ug/L	1.00	0.112		1	06/17/23 06:33	06/17/23 19:43	85-01-8	
Pyridine	ND	ug/L	10.0	0.627		1	06/17/23 06:33	06/17/23 19:43	110-86-1	L0,R1
Butylbenzylphthalate	ND	ug/L	3.00	0.765		1	06/17/23 06:33	06/17/23 19:43	85-68-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/17/23 06:33	06/17/23 19:43	117-81-7	
Di-n-butylphthalate	ND	ug/L	3.00	0.453		1	06/17/23 06:33	06/17/23 19:43	84-74-2	
Diethylphthalate	ND	ug/L	3.00	0.287		1	06/17/23 06:33	06/17/23 19:43	84-66-2	
Dimethylphthalate	ND	ug/L	3.00	0.260		1	06/17/23 06:33	06/17/23 19:43	131-11-3	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/17/23 06:33	06/17/23 19:43	117-84-0	
Pyrene	ND	ug/L	1.00	0.107		1	06/17/23 06:33	06/17/23 19:43	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	0.0647		1	06/17/23 06:33	06/17/23 19:43	95-94-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.0698		1	06/17/23 06:33	06/17/23 19:43	120-82-1	
4-Chloro-3-methylphenol	ND	ug/L	10.0	0.131		1	06/17/23 06:33	06/17/23 19:43	59-50-7	
2-Chlorophenol	ND	ug/L	10.0	0.133		1	06/17/23 06:33	06/17/23 19:43	95-57-8	
2,4-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/17/23 06:33	06/17/23 19:43	120-83-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 31-IR **Lab ID: 20279949016** Collected: 06/12/23 10:00 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/17/23 06:33	06/17/23 19:43	105-67-9	
4,6-Dinitro-2-methylphenol	ND	ug/L	10.0	1.12		1	06/17/23 06:33	06/17/23 19:43	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10.0	5.93		1	06/17/23 06:33	06/17/23 19:43	51-28-5	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	0.0929		1	06/17/23 06:33	06/17/23 19:43	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/17/23 06:33	06/17/23 19:43		
2-Nitrophenol	ND	ug/L	10.0	0.117		1	06/17/23 06:33	06/17/23 19:43	88-75-5	
4-Nitrophenol	ND	ug/L	10.0	0.143		1	06/17/23 06:33	06/17/23 19:43	100-02-7	
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/17/23 06:33	06/17/23 19:43	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/17/23 06:33	06/17/23 19:43	108-95-2	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	0.231		1	06/17/23 06:33	06/17/23 19:43	58-90-2	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.109		1	06/17/23 06:33	06/17/23 19:43	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	0.100		1	06/17/23 06:33	06/17/23 19:43	88-06-2	
2-Acetylaminofluorene	ND	ug/L	10.0	0.253		1	06/17/23 06:33	06/22/23 17:33	53-96-3	
4-Aminobiphenyl	ND	ug/L	10.0	0.461		1	06/17/23 06:33	06/22/23 17:33	92-67-1	
Aramite	ND	ug/L	50.0	16.7		1	06/17/23 06:33	06/22/23 17:33	140-57-8	
Chlorobenzilate	ND	ug/L	50.0	3.84		1	06/17/23 06:33	06/22/23 17:33	510-15-6	
Diallate	ND	ug/L	10.0	0.524		1	06/17/23 06:33	06/22/23 17:33	2303-16-4	
2,6-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/17/23 06:33	06/22/23 17:33	87-65-0	
Dimethoate	ND	ug/L	50.0	5.05		1	06/17/23 06:33	06/22/23 17:33	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	10.0	3.69		1	06/17/23 06:33	06/22/23 17:33	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	1.71		1	06/17/23 06:33	06/22/23 17:33	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.0	3.39		1	06/17/23 06:33	06/22/23 17:33	119-93-7	
a,a-Dimethylphenylethylamine	ND	ug/L	50.0	3.13		1	06/17/23 06:33	06/22/23 17:33	122-09-8	
1,3-Dinitrobenzene	ND	ug/L	10.0	0.359		1	06/17/23 06:33	06/22/23 17:33	99-65-0	
Diphenylamine	ND	ug/L	10.0	2.37		1	06/17/23 06:33	06/17/23 19:43	122-39-4	
Dinoseb	ND	ug/L	50.0	8.01		1	06/17/23 06:33	06/22/23 17:33	88-85-7	
Ethyl methanesulfonate	ND	ug/L	10.0	0.326		1	06/17/23 06:33	06/22/23 17:33	62-50-0	
Famphur	ND	ug/L	20.0	3.92		1	06/17/23 06:33	06/22/23 17:33	52-85-7	
Hexachloropropene	ND	ug/L	50.0	0.149		1	06/17/23 06:33	06/22/23 17:33	1888-71-7	
Hexachlorophene	ND	ug/L	50.0	1.44		1	06/17/23 06:33	06/22/23 17:33	70-30-4	
Isodrin	ND	ug/L	10.0	4.11		1	06/17/23 06:33	06/22/23 17:33	465-73-6	
Isosafrole	ND	ug/L	10.0	3.88		1	06/17/23 06:33	06/22/23 17:33	120-58-1	
Kepone	ND	ug/L	20.0	2.66		1	06/17/23 06:33	06/22/23 17:33	143-50-0	
Methapyrilene	ND	ug/L	50.0	10.0		1	06/17/23 06:33	06/22/23 17:33	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.0	0.164		1	06/17/23 06:33	06/22/23 17:33	56-49-5	
Methyl methanesulfonate	ND	ug/L	50.0	3.40		1	06/17/23 06:33	06/22/23 17:33	66-27-3	
1,4-Naphthoquinone	ND	ug/L	50.0	5.56		1	06/17/23 06:33	06/22/23 17:33	130-15-4	
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/17/23 06:33	06/22/23 17:33	134-32-7	
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/17/23 06:33	06/22/23 17:33	91-59-8	
5-Nitro-o-toluidine	ND	ug/L	10.0	1.99		1	06/17/23 06:33	06/22/23 17:33	99-55-8	
4-Nitroquinoline-n-oxide	ND	ug/L	10.0	2.03		1	06/17/23 06:33	06/22/23 17:33	56-57-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 31-IR **Lab ID: 20279949016** Collected: 06/12/23 10:00 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
N-Nitrosodiethylamine	ND	ug/L	10.0	3.57		1	06/17/23 06:33	06/22/23 17:33	55-18-5	
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	3.91		1	06/17/23 06:33	06/22/23 17:33	924-16-3	
N-Nitrosomethylethylamine	ND	ug/L	10.0	3.25		1	06/17/23 06:33	06/22/23 17:33	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	10.0	3.25		1	06/17/23 06:33	06/22/23 17:33	59-89-2	
N-Nitrosopiperidine	ND	ug/L	10.0	3.72		1	06/17/23 06:33	06/22/23 17:33	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.0	3.39		1	06/17/23 06:33	06/22/23 17:33	930-55-2	
Pentachlorobenzene	ND	ug/L	10.0	4.15		1	06/17/23 06:33	06/22/23 17:33	608-93-5	
Pentachloronitrobenzene	ND	ug/L	10.0	4.15		1	06/17/23 06:33	06/22/23 17:33	82-68-8	
Phenacetin	ND	ug/L	10.0	4.66		1	06/17/23 06:33	06/22/23 17:33	62-44-2	
p-Phenylenediamine	ND	ug/L	6900	387		1	06/17/23 06:33	06/22/23 17:33	106-50-3	
2-Picoline	ND	ug/L	50.0	6.83		1	06/17/23 06:33	06/22/23 17:33	109-06-8	
Pronamide	ND	ug/L	10.0	4.21		1	06/17/23 06:33	06/22/23 17:33	23950-58-5	
Safrole	ND	ug/L	10.0	3.68		1	06/17/23 06:33	06/22/23 17:33	94-59-7	
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	50.0	3.99		1	06/17/23 06:33	06/22/23 17:33	3689-24-5	
Thionazin	ND	ug/L	10.0	4.07		1	06/17/23 06:33	06/22/23 17:33	297-97-2	
O-Toluidine	ND	ug/L	10.0	3.53		1	06/17/23 06:33	06/22/23 17:33	95-53-4	
1,3,5-Trinitrobenzene	ND	ug/L	10.0	1.32		1	06/17/23 06:33	06/22/23 17:33	99-35-4	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	2.93		1	06/17/23 06:33	06/22/23 17:33	126-68-1	
Surrogates										
2-Fluorophenol (S)	39.1	%	10.0-120			1	06/17/23 06:33	06/17/23 19:43	367-12-4	
Phenol-d5 (S)	29.1	%	10.0-120			1	06/17/23 06:33	06/17/23 19:43	4165-62-2	
Nitrobenzene-d5 (S)	72.3	%	10.0-127			1	06/17/23 06:33	06/17/23 19:43	4165-60-0	
2-Fluorobiphenyl (S)	82.3	%	10.0-130			1	06/17/23 06:33	06/17/23 19:43	321-60-8	
2,4,6-Tribromophenol (S)	82.0	%	10.0-155			1	06/17/23 06:33	06/17/23 19:43	118-79-6	
Terphenyl-d14 (S)	90.1	%	10.0-128			1	06/17/23 06:33	06/17/23 19:43	1718-51-0	
SVOA (LCMS) SW-846 8321	Analytical Method: EPA 8321 Preparation Method: 8321 Pace National - Mt. Juliet									
2,4-D	ND	ug/L	2.00	1.00		1	06/15/23 15:07	06/19/23 03:53	94-75-7	
2,4,5-T	ND	ug/L	2.00	0.573		1	06/15/23 15:07	06/19/23 03:53	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.807		1	06/15/23 15:07	06/19/23 03:53	93-72-1	
Surrogates										
2,4-DB-d3 (S)	98.0	%	70.0-130			1	06/15/23 15:07	06/19/23 03:53	1219802-46-	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	06/18/23 10:55	06/18/23 10:55	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	06/18/23 10:55	06/18/23 10:55	107-02-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 31-IR **Lab ID: 20279949016** Collected: 06/12/23 10:00 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Pace National - Mt. Juliet									
Acrylonitrile	ND	ug/L	10.0	0.671		1	06/18/23 10:55	06/18/23 10:55	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	06/18/23 10:55	06/18/23 10:55	107-05-1	
Benzene	ND	ug/L	1.00	0.0941		1	06/18/23 10:55	06/18/23 10:55	71-43-2	R1
Bromodichloromethane	ND	ug/L	1.00	0.136		1	06/18/23 10:55	06/18/23 10:55	75-27-4	L0,R1
Bromoform	ND	ug/L	1.00	0.129		1	06/18/23 10:55	06/18/23 10:55	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	06/18/23 10:55	06/18/23 10:55	74-83-9	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	06/18/23 10:55	06/18/23 10:55	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	06/18/23 10:55	06/18/23 10:55	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116		1	06/18/23 10:55	06/18/23 10:55	108-90-7	L0,R1
Dibromochloromethane	ND	ug/L	1.00	0.140		1	06/18/23 10:55	06/18/23 10:55	124-48-1	L0,R1
Chloroethane	ND	ug/L	5.00	0.192		1	06/18/23 10:55	06/18/23 10:55	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	06/18/23 10:55	06/18/23 10:55	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	06/18/23 10:55	06/18/23 10:55	74-87-3	R1
Dibromomethane	ND	ug/L	1.00	0.122		1	06/18/23 10:55	06/18/23 10:55	74-95-3	L0
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	06/18/23 10:55	06/18/23 10:55	95-50-1	L0
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	06/18/23 10:55	06/18/23 10:55	110-57-6	R1
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	06/18/23 10:55	06/18/23 10:55	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	06/18/23 10:55	06/18/23 10:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	06/18/23 10:55	06/18/23 10:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	06/18/23 10:55	06/18/23 10:55	75-35-4	L0
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	06/18/23 10:55	06/18/23 10:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	06/18/23 10:55	06/18/23 10:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	06/18/23 10:55	06/18/23 10:55	78-87-5	L0,R1
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	06/18/23 10:55	06/18/23 10:55	10061-01-5	R1
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	06/18/23 10:55	06/18/23 10:55	10061-02-6	L0,R1
Ethylbenzene	ND	ug/L	1.00	0.173		1	06/18/23 10:55	06/18/23 10:55	100-41-4	L0,R1
2-Hexanone	ND	ug/L	10.0	0.787		1	06/18/23 10:55	06/18/23 10:55	591-78-6	L0,R1
Iodomethane	ND	ug/L	10.0	6.00		1	06/18/23 10:55	06/18/23 10:55	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	06/18/23 10:55	06/18/23 10:55	78-93-3	R1
Methylene Chloride	ND	ug/L	5.00	0.430		1	06/18/23 10:55	06/18/23 10:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	06/18/23 10:55	06/18/23 10:55	108-10-1	
Styrene	ND	ug/L	1.00	0.118		1	06/18/23 10:55	06/18/23 10:55	100-42-5	R1
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	06/18/23 10:55	06/18/23 10:55	630-20-6	L0,R1
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	06/18/23 10:55	06/18/23 10:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	06/18/23 10:55	06/18/23 10:55	127-18-4	R1
Toluene	ND	ug/L	1.00	0.278		1	06/18/23 10:55	06/18/23 10:55	108-88-3	L0,R1
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	06/18/23 10:55	06/18/23 10:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	06/18/23 10:55	06/18/23 10:55	79-00-5	L0
Trichloroethene	ND	ug/L	1.00	0.190		1	06/18/23 10:55	06/18/23 10:55	79-01-6	R1
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	06/18/23 10:55	06/18/23 10:55	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	06/18/23 10:55	06/18/23 10:55	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	06/18/23 10:55	06/18/23 10:55	108-05-4	
Vinyl chloride	ND	ug/L	1.00	0.234		1	06/18/23 10:55	06/18/23 10:55	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	06/18/23 10:55	06/18/23 10:55	95-47-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 31-IR **Lab ID: 20279949016** Collected: 06/12/23 10:00 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Pace National - Mt. Juliet									
m&p-Xylene	ND	ug/L	2.00	0.430		1	06/18/23 10:55	06/18/23 10:55	179601-23-1	L0,R1
Xylene (Total)	ND	ug/L	3.00	0.174		1	06/18/23 10:55	06/18/23 10:55	1330-20-7	L0,R1
Acetonitrile	ND	ug/L	50.0	24.0		1	06/22/23 15:24	06/22/23 15:24	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	06/22/23 15:24	06/22/23 15:24	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	06/22/23 15:24	06/22/23 15:24	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	06/22/23 15:24	06/22/23 15:24	78-83-1	
Methacrylonitrile	ND	ug/L	50.0	14.2		1	06/22/23 15:24	06/22/23 15:24	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	06/22/23 15:24	06/22/23 15:24	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	06/22/23 15:24	06/22/23 15:24	76-01-7	
Propionitrile	ND	ug/L	50.0	16.2		1	06/22/23 15:24	06/22/23 15:24	107-12-0	
Surrogates										
Toluene-d8 (S)	100	%	80.0-120			1	06/18/23 10:55	06/18/23 10:55	2037-26-5	
Toluene-d8 (S)	98.6	%	80.0-120			1	06/22/23 15:24	06/22/23 15:24	2037-26-5	
1,2-Dichloroethane-d4 (S)	94.3	%	70.0-130			1	06/18/23 10:55	06/18/23 10:55	17060-07-0	
1,2-Dichloroethane-d4 (S)	99.1	%	70.0-130			1	06/22/23 15:24	06/22/23 15:24	17060-07-0	
4-Bromofluorobenzene (S)	94.1	%	77.0-126			1	06/18/23 10:55	06/18/23 10:55	460-00-4	
4-Bromofluorobenzene (S)	88.6	%	77.0-126			1	06/22/23 15:24	06/22/23 15:24	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012		1		06/19/23 09:34	18496-25-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay									
Cyanide	ND	mg/L	0.023	0.0069		1	06/26/23 08:00	06/26/23 10:28	57-12-5	
420.1 Phenolics, Total	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - New Orleans									
Phenolics, Total Recoverable	ND	mg/L	0.020	0.0093		1	07/06/23 13:13	07/07/23 10:33	64743-03-9	

Sample: 32-I **Lab ID: 20279949017** Collected: 06/12/23 14:45 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/18/23 08:33	06/18/23 19:38	309-00-2	
alpha-BHC	ND	ug/L	0.0500	0.0172		1	06/18/23 08:33	06/18/23 19:38	319-84-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 32-I **Lab ID: 20279949017** Collected: 06/12/23 14:45 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
beta-BHC	ND	ug/L	0.0500	0.0208		1	06/18/23 08:33	06/18/23 19:38	319-85-7	
delta-BHC	ND	ug/L	0.0500	0.0150		1	06/18/23 08:33	06/18/23 19:38	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.0500	0.0209		1	06/18/23 08:33	06/18/23 19:38	58-89-9	
Chlordane (Technical)	ND	ug/L	5.00	0.0198		1	06/18/23 08:33	06/18/23 19:38	57-74-9	
4,4'-DDD	ND	ug/L	0.0500	0.0177		1	06/18/23 08:33	06/18/23 19:38	72-54-8	
4,4'-DDE	ND	ug/L	0.0500	0.0154		1	06/18/23 08:33	06/18/23 19:38	72-55-9	
4,4'-DDT	ND	ug/L	0.0500	0.0198		1	06/18/23 08:33	06/18/23 19:38	50-29-3	
Dieldrin	ND	ug/L	0.0500	0.0162		1	06/18/23 08:33	06/18/23 19:38	60-57-1	
Endosulfan I	ND	ug/L	0.0500	0.0160		1	06/18/23 08:33	06/18/23 19:38	959-98-8	
Endosulfan II	ND	ug/L	0.0500	0.0164		1	06/18/23 08:33	06/18/23 19:38	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.0500	0.0217		1	06/18/23 08:33	06/18/23 19:38	1031-07-8	
Endrin	ND	ug/L	0.0500	0.0161		1	06/18/23 08:33	06/18/23 19:38	72-20-8	
Endrin aldehyde	ND	ug/L	0.0500	0.0237		1	06/18/23 08:33	06/18/23 19:38	7421-93-4	
Heptachlor	ND	ug/L	0.0500	0.0148		1	06/18/23 08:33	06/18/23 19:38	76-44-8	
Heptachlor epoxide	ND	ug/L	0.0500	0.0183		1	06/18/23 08:33	06/18/23 19:38	1024-57-3	
Methoxychlor	ND	ug/L	0.0500	0.0193		1	06/18/23 08:33	06/18/23 19:38	72-43-5	
Toxaphene	ND	ug/L	0.500	0.168		1	06/18/23 08:33	06/18/23 19:38	8001-35-2	
Surrogates										
Decachlorobiphenyl (S)	29.7	%	10.0-128			1	06/18/23 08:33	06/18/23 19:38	2051-24-3	
Tetrachloro-m-xylene (S)	78.2	%	10.0-127			1	06/18/23 08:33	06/18/23 19:38	877-09-8	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00034		1	06/15/23 06:33	06/20/23 18:38	7440-36-0	
Arsenic	**0.0081**	mg/L	0.0010	0.00010		1	06/15/23 06:33	06/20/23 18:38	7440-38-2	
Barium	**0.059**	mg/L	0.0010	0.00064		1	06/15/23 06:33	06/20/23 18:38	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00021		1	06/15/23 06:33	06/20/23 18:38	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.00019		1	06/15/23 06:33	06/20/23 18:38	7440-43-9	
Chromium	ND	mg/L	0.0010	0.00063		1	06/15/23 06:33	06/20/23 18:38	7440-47-3	
Cobalt	**0.0070**	mg/L	0.0010	0.00012		1	06/15/23 06:33	06/20/23 18:38	7440-48-4	
Copper	ND	mg/L	0.0030	0.0017		1	06/15/23 06:33	06/20/23 18:38	7440-50-8	
Lead	ND	mg/L	0.0010	0.00069		1	06/15/23 06:33	06/20/23 18:38	7439-92-1	
Nickel	ND	mg/L	0.0010	0.00062		1	06/15/23 06:33	06/20/23 18:38	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00026		1	06/15/23 06:33	06/20/23 18:38	7782-49-2	
Silver	ND	mg/L	0.00050	0.00020		1	06/15/23 06:33	06/20/23 18:38	7440-22-4	
Thallium	ND	mg/L	0.00050	0.00011		1	06/15/23 06:33	06/20/23 18:38	7440-28-0	
Tin	ND	mg/L	0.0060	0.00065		1	06/15/23 06:33	06/20/23 18:38	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.00023		1	06/15/23 06:33	06/20/23 18:38	7440-62-2	
Zinc	ND	mg/L	0.010	0.0072		1	06/15/23 06:33	06/20/23 18:38	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/16/23 06:15	06/26/23 15:13	7439-97-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 32-I **Lab ID: 20279949017** Collected: 06/12/23 14:45 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270 C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**5.12**	ug/L	0.400	0.0447		1	06/22/23 15:40	06/23/23 17:39	123-91-1	H1
Surrogates										
Nitrobenzene-d5 (S)	73.7	%	10.0-120			1	06/22/23 15:40	06/23/23 17:39	4165-60-0	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	ND	ug/L	1.00	0.0886		1	06/17/23 06:33	06/17/23 23:43	83-32-9	
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/17/23 06:33	06/17/23 23:43	208-96-8	
Acetophenone	ND	ug/L	10.0	0.208		1	06/17/23 06:33	06/17/23 23:43	98-86-2	
Aniline	ND	ug/L	10.0	1.65		1	06/17/23 06:33	06/17/23 23:43	62-53-3	R1
Anthracene	ND	ug/L	1.00	0.0804		1	06/17/23 06:33	06/17/23 23:43	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/17/23 06:33	06/17/23 23:43	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/17/23 06:33	06/17/23 23:43	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/17/23 06:33	06/17/23 23:43	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/17/23 06:33	06/17/23 23:43	191-24-2	
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/17/23 06:33	06/17/23 23:43	50-32-8	
Benzyl alcohol	ND	ug/L	10.0	0.563		1	06/17/23 06:33	06/17/23 23:43	100-51-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.116		1	06/17/23 06:33	06/17/23 23:43	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	0.137		1	06/17/23 06:33	06/17/23 23:43	111-44-4	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	0.210		1	06/17/23 06:33	06/17/23 23:43	108-60-1	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.0877		1	06/17/23 06:33	06/17/23 23:43	101-55-3	
4-Chloroaniline	ND	ug/L	10.0	0.234		1	06/17/23 06:33	06/17/23 23:43	106-47-8	
2-Chloronaphthalene	ND	ug/L	1.00	0.0648		1	06/17/23 06:33	06/17/23 23:43	91-58-7	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.0926		1	06/17/23 06:33	06/17/23 23:43	7005-72-3	
Chrysene	ND	ug/L	1.00	0.130		1	06/17/23 06:33	06/17/23 23:43	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.00	0.0644		1	06/17/23 06:33	06/17/23 23:43	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/17/23 06:33	06/17/23 23:43	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.0713		1	06/17/23 06:33	06/17/23 23:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.132		1	06/17/23 06:33	06/17/23 23:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.0942		1	06/17/23 06:33	06/17/23 23:43	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10.0	0.212		1	06/17/23 06:33	06/17/23 23:43	91-94-1	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.0983		1	06/17/23 06:33	06/17/23 23:43	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.250		1	06/17/23 06:33	06/17/23 23:43	606-20-2	
Fluoranthene	ND	ug/L	1.00	0.102		1	06/17/23 06:33	06/17/23 23:43	206-44-0	
Fluorene	ND	ug/L	1.00	0.0844		1	06/17/23 06:33	06/17/23 23:43	86-73-7	
Hexachlorobenzene	ND	ug/L	1.00	0.0755		1	06/17/23 06:33	06/17/23 23:43	118-74-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.0968		1	06/17/23 06:33	06/17/23 23:43	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.0598		1	06/17/23 06:33	06/17/23 23:43	77-47-4	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/17/23 06:33	06/17/23 23:43	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/17/23 06:33	06/17/23 23:43	193-39-5	
Isophorone	ND	ug/L	10.0	0.143		1	06/17/23 06:33	06/17/23 23:43	78-59-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 32-I **Lab ID: 20279949017** Collected: 06/12/23 14:45 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/17/23 06:33	06/17/23 23:43	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/17/23 06:33	06/17/23 23:43	91-57-6	
2-Nitroaniline	ND	ug/L	10.0	0.102		1	06/17/23 06:33	06/17/23 23:43	88-74-4	
3-Nitroaniline	ND	ug/L	10.0	0.0869		1	06/17/23 06:33	06/17/23 23:43	99-09-2	
4-Nitroaniline	ND	ug/L	10.0	0.0910		1	06/17/23 06:33	06/17/23 23:43	100-01-6	
Naphthalene	ND	ug/L	1.00	0.159		1	06/17/23 06:33	06/17/23 23:43	91-20-3	
Nitrobenzene	ND	ug/L	10.0	0.297		1	06/17/23 06:33	06/17/23 23:43	98-95-3	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.998		1	06/17/23 06:33	06/17/23 23:43	62-75-9	
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/17/23 06:33	06/17/23 23:43	86-30-6	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.261		1	06/17/23 06:33	06/17/23 23:43	621-64-7	
Phenanthrene	ND	ug/L	1.00	0.112		1	06/17/23 06:33	06/17/23 23:43	85-01-8	
Pyridine	ND	ug/L	10.0	0.627		1	06/17/23 06:33	06/17/23 23:43	110-86-1	L0,R1
Butylbenzylphthalate	ND	ug/L	3.00	0.765		1	06/17/23 06:33	06/17/23 23:43	85-68-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/17/23 06:33	06/17/23 23:43	117-81-7	
Di-n-butylphthalate	ND	ug/L	3.00	0.453		1	06/17/23 06:33	06/17/23 23:43	84-74-2	
Diethylphthalate	ND	ug/L	3.00	0.287		1	06/17/23 06:33	06/17/23 23:43	84-66-2	
Dimethylphthalate	ND	ug/L	3.00	0.260		1	06/17/23 06:33	06/17/23 23:43	131-11-3	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/17/23 06:33	06/17/23 23:43	117-84-0	
Pyrene	ND	ug/L	1.00	0.107		1	06/17/23 06:33	06/17/23 23:43	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	0.0647		1	06/17/23 06:33	06/17/23 23:43	95-94-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.0698		1	06/17/23 06:33	06/17/23 23:43	120-82-1	
4-Chloro-3-methylphenol	ND	ug/L	10.0	0.131		1	06/17/23 06:33	06/17/23 23:43	59-50-7	
2-Chlorophenol	ND	ug/L	10.0	0.133		1	06/17/23 06:33	06/17/23 23:43	95-57-8	
2,4-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/17/23 06:33	06/17/23 23:43	120-83-2	
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/17/23 06:33	06/17/23 23:43	105-67-9	
4,6-Dinitro-2-methylphenol	ND	ug/L	10.0	1.12		1	06/17/23 06:33	06/17/23 23:43	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10.0	5.93		1	06/17/23 06:33	06/17/23 23:43	51-28-5	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	0.0929		1	06/17/23 06:33	06/17/23 23:43	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/17/23 06:33	06/17/23 23:43		
2-Nitrophenol	ND	ug/L	10.0	0.117		1	06/17/23 06:33	06/17/23 23:43	88-75-5	
4-Nitrophenol	ND	ug/L	10.0	0.143		1	06/17/23 06:33	06/17/23 23:43	100-02-7	
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/17/23 06:33	06/17/23 23:43	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/17/23 06:33	06/17/23 23:43	108-95-2	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	0.231		1	06/17/23 06:33	06/17/23 23:43	58-90-2	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.109		1	06/17/23 06:33	06/17/23 23:43	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	0.100		1	06/17/23 06:33	06/17/23 23:43	88-06-2	
2-Acetylaminofluorene	ND	ug/L	10.0	0.253		1	06/17/23 06:33	06/22/23 20:19	53-96-3	
4-Aminobiphenyl	ND	ug/L	10.0	0.461		1	06/17/23 06:33	06/22/23 20:19	92-67-1	
Aramite	ND	ug/L	50.0	16.7		1	06/17/23 06:33	06/22/23 20:19	140-57-8	
Chlorobenzilate	ND	ug/L	50.0	3.84		1	06/17/23 06:33	06/22/23 20:19	510-15-6	
Diallate	ND	ug/L	10.0	0.524		1	06/17/23 06:33	06/22/23 20:19	2303-16-4	
2,6-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/17/23 06:33	06/22/23 20:19	87-65-0	
Dimethoate	ND	ug/L	50.0	5.05		1	06/17/23 06:33	06/22/23 20:19	60-51-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 32-I **Lab ID: 20279949017** Collected: 06/12/23 14:45 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
P-Dimethylaminoazobenzene	ND	ug/L	10.0	3.69		1	06/17/23 06:33	06/22/23 20:19	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	1.71		1	06/17/23 06:33	06/22/23 20:19	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.0	3.39		1	06/17/23 06:33	06/22/23 20:19	119-93-7	
a,a-Dimethylphenylethylamine	ND	ug/L	50.0	3.13		1	06/17/23 06:33	06/22/23 20:19	122-09-8	
1,3-Dinitrobenzene	ND	ug/L	10.0	0.359		1	06/17/23 06:33	06/22/23 20:19	99-65-0	
Diphenylamine	ND	ug/L	10.0	2.37		1	06/17/23 06:33	06/17/23 23:43	122-39-4	
Dinoseb	ND	ug/L	50.0	8.01		1	06/17/23 06:33	06/22/23 20:19	88-85-7	
Ethyl methanesulfonate	ND	ug/L	10.0	0.326		1	06/17/23 06:33	06/22/23 20:19	62-50-0	
Famphur	ND	ug/L	20.0	3.92		1	06/17/23 06:33	06/22/23 20:19	52-85-7	
Hexachloropropene	ND	ug/L	50.0	0.149		1	06/17/23 06:33	06/22/23 20:19	1888-71-7	
Hexachlorophene	ND	ug/L	50.0	1.44		1	06/17/23 06:33	06/22/23 20:19	70-30-4	
Isodrin	ND	ug/L	10.0	4.11		1	06/17/23 06:33	06/22/23 20:19	465-73-6	
Isosafrole	ND	ug/L	10.0	3.88		1	06/17/23 06:33	06/22/23 20:19	120-58-1	
Kepone	ND	ug/L	20.0	2.66		1	06/17/23 06:33	06/22/23 20:19	143-50-0	
Methapyrilene	ND	ug/L	50.0	10.0		1	06/17/23 06:33	06/22/23 20:19	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.0	0.164		1	06/17/23 06:33	06/22/23 20:19	56-49-5	
Methyl methanesulfonate	ND	ug/L	50.0	3.40		1	06/17/23 06:33	06/22/23 20:19	66-27-3	
1,4-Naphthoquinone	ND	ug/L	50.0	5.56		1	06/17/23 06:33	06/22/23 20:19	130-15-4	
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/17/23 06:33	06/22/23 20:19	134-32-7	
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/17/23 06:33	06/22/23 20:19	91-59-8	
5-Nitro-o-toluidine	ND	ug/L	10.0	1.99		1	06/17/23 06:33	06/22/23 20:19	99-55-8	
4-Nitroquinoline-n-oxide	ND	ug/L	10.0	2.03		1	06/17/23 06:33	06/22/23 20:19	56-57-5	
N-Nitrosodiethylamine	ND	ug/L	10.0	3.57		1	06/17/23 06:33	06/22/23 20:19	55-18-5	
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	3.91		1	06/17/23 06:33	06/22/23 20:19	924-16-3	
N-Nitrosomethylethylamine	ND	ug/L	10.0	3.25		1	06/17/23 06:33	06/22/23 20:19	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	10.0	3.25		1	06/17/23 06:33	06/22/23 20:19	59-89-2	
N-Nitrosopiperidine	ND	ug/L	10.0	3.72		1	06/17/23 06:33	06/22/23 20:19	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.0	3.39		1	06/17/23 06:33	06/22/23 20:19	930-55-2	
Pentachlorobenzene	ND	ug/L	10.0	4.15		1	06/17/23 06:33	06/22/23 20:19	608-93-5	
Pentachloronitrobenzene	ND	ug/L	10.0	4.15		1	06/17/23 06:33	06/22/23 20:19	82-68-8	
Phenacetin	ND	ug/L	10.0	4.66		1	06/17/23 06:33	06/22/23 20:19	62-44-2	
p-Phenylenediamine	ND	ug/L	6900	387		1	06/17/23 06:33	06/22/23 20:19	106-50-3	
2-Picoline	ND	ug/L	50.0	6.83		1	06/17/23 06:33	06/22/23 20:19	109-06-8	
Pronamide	ND	ug/L	10.0	4.21		1	06/17/23 06:33	06/22/23 20:19	23950-58-5	
Safrole	ND	ug/L	10.0	3.68		1	06/17/23 06:33	06/22/23 20:19	94-59-7	
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	50.0	3.99		1	06/17/23 06:33	06/22/23 20:19	3689-24-5	
Thionazin	ND	ug/L	10.0	4.07		1	06/17/23 06:33	06/22/23 20:19	297-97-2	
O-Toluidine	ND	ug/L	10.0	3.53		1	06/17/23 06:33	06/22/23 20:19	95-53-4	
1,3,5-Trinitrobenzene	ND	ug/L	10.0	1.32		1	06/17/23 06:33	06/22/23 20:19	99-35-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 32-I **Lab ID: 20279949017** Collected: 06/12/23 14:45 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	2.93		1	06/17/23 06:33	06/22/23 20:19	126-68-1	
Surrogates										
2-Fluorophenol (S)	25.3	%	10.0-120			1	06/17/23 06:33	06/17/23 23:43	367-12-4	
Phenol-d5 (S)	17.0	%	10.0-120			1	06/17/23 06:33	06/17/23 23:43	4165-62-2	
Nitrobenzene-d5 (S)	45.7	%	10.0-127			1	06/17/23 06:33	06/17/23 23:43	4165-60-0	
2-Fluorobiphenyl (S)	54.8	%	10.0-130			1	06/17/23 06:33	06/17/23 23:43	321-60-8	
2,4,6-Tribromophenol (S)	58.0	%	10.0-155			1	06/17/23 06:33	06/17/23 23:43	118-79-6	
Terphenyl-d14 (S)	68.4	%	10.0-128			1	06/17/23 06:33	06/17/23 23:43	1718-51-0	
SVOA (LCMS) SW-846 8321	Analytical Method: EPA 8321 Preparation Method: 8321 Pace National - Mt. Juliet									
2,4-D	ND	ug/L	2.00	1.00		1	06/15/23 15:07	06/19/23 04:11	94-75-7	
2,4,5-T	ND	ug/L	2.00	0.573		1	06/15/23 15:07	06/19/23 04:11	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.807		1	06/15/23 15:07	06/19/23 04:11	93-72-1	
Surrogates										
2,4-DB-d3 (S)	99.5	%	70.0-130			1	06/15/23 15:07	06/19/23 04:11	1219802-46-	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	06/17/23 19:26	06/17/23 19:26	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	06/17/23 19:26	06/17/23 19:26	107-02-8	
Acrylonitrile	ND	ug/L	10.0	0.671		1	06/17/23 19:26	06/17/23 19:26	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	06/17/23 19:26	06/17/23 19:26	107-05-1	
Benzene	ND	ug/L	1.00	0.0941		1	06/17/23 19:26	06/17/23 19:26	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	06/17/23 19:26	06/17/23 19:26	75-27-4	
Bromoform	ND	ug/L	1.00	0.129		1	06/17/23 19:26	06/17/23 19:26	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	06/17/23 19:26	06/17/23 19:26	74-83-9	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	06/17/23 19:26	06/17/23 19:26	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	06/17/23 19:26	06/17/23 19:26	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116		1	06/17/23 19:26	06/17/23 19:26	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140		1	06/17/23 19:26	06/17/23 19:26	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192		1	06/17/23 19:26	06/17/23 19:26	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	06/17/23 19:26	06/17/23 19:26	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	06/17/23 19:26	06/17/23 19:26	74-87-3	
Dibromomethane	ND	ug/L	1.00	0.122		1	06/17/23 19:26	06/17/23 19:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	06/17/23 19:26	06/17/23 19:26	95-50-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	06/17/23 19:26	06/17/23 19:26	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	06/17/23 19:26	06/17/23 19:26	75-71-8	
1,1-Dichloroethane	**0.789J**	ug/L	1.00	0.100		1	06/17/23 19:26	06/17/23 19:26	75-34-3	J

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 32-I **Lab ID: 20279949017** Collected: 06/12/23 14:45 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	06/17/23 19:26	06/17/23 19:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	06/17/23 19:26	06/17/23 19:26	75-35-4	
cis-1,2-Dichloroethene	**1.31**	ug/L	1.00	0.126		1	06/17/23 19:26	06/17/23 19:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	06/17/23 19:26	06/17/23 19:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	06/17/23 19:26	06/17/23 19:26	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	06/17/23 19:26	06/17/23 19:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	06/17/23 19:26	06/17/23 19:26	10061-02-6	
Ethylbenzene	ND	ug/L	1.00	0.173		1	06/17/23 19:26	06/17/23 19:26	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.787		1	06/17/23 19:26	06/17/23 19:26	591-78-6	
Iodomethane	ND	ug/L	10.0	6.00		1	06/17/23 19:26	06/17/23 19:26	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	06/17/23 19:26	06/17/23 19:26	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430		1	06/17/23 19:26	06/17/23 19:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	06/17/23 19:26	06/17/23 19:26	108-10-1	
Styrene	ND	ug/L	1.00	0.118		1	06/17/23 19:26	06/17/23 19:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	06/17/23 19:26	06/17/23 19:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	06/17/23 19:26	06/17/23 19:26	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	06/17/23 19:26	06/17/23 19:26	127-18-4	
Toluene	ND	ug/L	1.00	0.278		1	06/17/23 19:26	06/17/23 19:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	06/17/23 19:26	06/17/23 19:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	06/17/23 19:26	06/17/23 19:26	79-00-5	
Trichloroethene	**0.558J**	ug/L	1.00	0.190		1	06/17/23 19:26	06/17/23 19:26	79-01-6	J
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	06/17/23 19:26	06/17/23 19:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	06/17/23 19:26	06/17/23 19:26	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	06/17/23 19:26	06/17/23 19:26	108-05-4	
Vinyl chloride	ND	ug/L	1.00	0.234		1	06/17/23 19:26	06/17/23 19:26	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	06/17/23 19:26	06/17/23 19:26	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	06/17/23 19:26	06/17/23 19:26	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	06/17/23 19:26	06/17/23 19:26	1330-20-7	
Acetonitrile	ND	ug/L	50.0	24.0		1	06/22/23 15:45	06/22/23 15:45	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	06/22/23 15:45	06/22/23 15:45	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	06/22/23 15:45	06/22/23 15:45	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	06/22/23 15:45	06/22/23 15:45	78-83-1	
Methacrylonitrile	ND	ug/L	50.0	14.2		1	06/22/23 15:45	06/22/23 15:45	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	06/22/23 15:45	06/22/23 15:45	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	06/22/23 15:45	06/22/23 15:45	76-01-7	
Propionitrile	ND	ug/L	50.0	16.2		1	06/22/23 15:45	06/22/23 15:45	107-12-0	
Surrogates										
Toluene-d8 (S)	101	%	80.0-120			1	06/22/23 15:45	06/22/23 15:45	2037-26-5	
Toluene-d8 (S)	98.4	%	80.0-120			1	06/17/23 19:26	06/17/23 19:26	2037-26-5	
1,2-Dichloroethane-d4 (S)	96.6	%	70.0-130			1	06/22/23 15:45	06/22/23 15:45	17060-07-0	
1,2-Dichloroethane-d4 (S)	116	%	70.0-130			1	06/17/23 19:26	06/17/23 19:26	17060-07-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 32-I **Lab ID: 20279949017** Collected: 06/12/23 14:45 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B		Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet								
Surrogates										
4-Bromofluorobenzene (S)	88.4	%	77.0-126			1	06/22/23 15:45	06/22/23 15:45	460-00-4	
4-Bromofluorobenzene (S)	90.6	%	77.0-126			1	06/17/23 19:26	06/17/23 19:26	460-00-4	
4500S2D Sulfide, Total		Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans								
Sulfide, Total	ND	mg/L	0.020	0.012		1		06/19/23 09:34	18496-25-8	
335.4 Cyanide, Total		Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay								
Cyanide	ND	mg/L	0.023	0.0069		1	06/26/23 08:00	06/26/23 10:28	57-12-5	
420.1 Phenolics, Total		Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - New Orleans								
Phenolics, Total Recoverable	**0.011J**	mg/L	0.020	0.0093		1	07/06/23 13:13	07/07/23 10:33	64743-03-9	B

Sample: 32-S **Lab ID: 20279949018** Collected: 06/12/23 13:15 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081		Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet								
Aldrin	ND	ug/L	0.0500	0.0198		1	06/18/23 08:33	06/18/23 19:47	309-00-2	
alpha-BHC	ND	ug/L	0.0500	0.0172		1	06/18/23 08:33	06/18/23 19:47	319-84-6	
beta-BHC	ND	ug/L	0.0500	0.0208		1	06/18/23 08:33	06/18/23 19:47	319-85-7	
delta-BHC	ND	ug/L	0.0500	0.0150		1	06/18/23 08:33	06/18/23 19:47	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.0500	0.0209		1	06/18/23 08:33	06/18/23 19:47	58-89-9	
Chlordane (Technical)	ND	ug/L	5.00	0.0198		1	06/18/23 08:33	06/18/23 19:47	57-74-9	
4,4'-DDD	ND	ug/L	0.0500	0.0177		1	06/18/23 08:33	06/18/23 19:47	72-54-8	
4,4'-DDE	ND	ug/L	0.0500	0.0154		1	06/18/23 08:33	06/18/23 19:47	72-55-9	
4,4'-DDT	ND	ug/L	0.0500	0.0198		1	06/18/23 08:33	06/18/23 19:47	50-29-3	
Dieldrin	ND	ug/L	0.0500	0.0162		1	06/18/23 08:33	06/18/23 19:47	60-57-1	
Endosulfan I	ND	ug/L	0.0500	0.0160		1	06/18/23 08:33	06/18/23 19:47	959-98-8	
Endosulfan II	ND	ug/L	0.0500	0.0164		1	06/18/23 08:33	06/18/23 19:47	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.0500	0.0217		1	06/18/23 08:33	06/18/23 19:47	1031-07-8	
Endrin	ND	ug/L	0.0500	0.0161		1	06/18/23 08:33	06/18/23 19:47	72-20-8	
Endrin aldehyde	ND	ug/L	0.0500	0.0237		1	06/18/23 08:33	06/18/23 19:47	7421-93-4	
Heptachlor	ND	ug/L	0.0500	0.0148		1	06/18/23 08:33	06/18/23 19:47	76-44-8	
Heptachlor epoxide	ND	ug/L	0.0500	0.0183		1	06/18/23 08:33	06/18/23 19:47	1024-57-3	
Methoxychlor	ND	ug/L	0.0500	0.0193		1	06/18/23 08:33	06/18/23 19:47	72-43-5	
Toxaphene	ND	ug/L	0.500	0.168		1	06/18/23 08:33	06/18/23 19:47	8001-35-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 32-S **Lab ID: 20279949018** Collected: 06/12/23 13:15 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081		Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet								
Surrogates										
Decachlorobiphenyl (S)	45.2	%	10.0-128			1	06/18/23 08:33	06/18/23 19:47	2051-24-3	
Tetrachloro-m-xylene (S)	75.0	%	10.0-127			1	06/18/23 08:33	06/18/23 19:47	877-09-8	
6020 MET ICPMS		Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans								
Antimony	ND	mg/L	0.0010	0.00034		1	06/15/23 06:33	06/20/23 18:43	7440-36-0	
Arsenic	**0.00016J**	mg/L	0.0010	0.00010		1	06/15/23 06:33	06/20/23 18:43	7440-38-2	
Barium	**0.089**	mg/L	0.0010	0.00064		1	06/15/23 06:33	06/20/23 18:43	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00021		1	06/15/23 06:33	06/20/23 18:43	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.00019		1	06/15/23 06:33	06/20/23 18:43	7440-43-9	
Chromium	ND	mg/L	0.0010	0.00063		1	06/15/23 06:33	06/20/23 18:43	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.00012		1	06/15/23 06:33	06/20/23 18:43	7440-48-4	
Copper	ND	mg/L	0.0030	0.0017		1	06/15/23 06:33	06/20/23 18:43	7440-50-8	
Lead	ND	mg/L	0.0010	0.00069		1	06/15/23 06:33	06/20/23 18:43	7439-92-1	
Nickel	ND	mg/L	0.0010	0.00062		1	06/15/23 06:33	06/20/23 18:43	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00026		1	06/15/23 06:33	06/20/23 18:43	7782-49-2	
Silver	ND	mg/L	0.00050	0.00020		1	06/15/23 06:33	06/20/23 18:43	7440-22-4	
Thallium	ND	mg/L	0.00050	0.00011		1	06/15/23 06:33	06/20/23 18:43	7440-28-0	
Tin	**0.00087J**	mg/L	0.0060	0.00065		1	06/15/23 06:33	06/20/23 18:43	7440-31-5	
Vanadium	**0.00046J**	mg/L	0.0050	0.00023		1	06/15/23 06:33	06/20/23 18:43	7440-62-2	
Zinc	ND	mg/L	0.010	0.0072		1	06/15/23 06:33	06/20/23 18:43	7440-66-6	
EPA 7470A		Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast								
Mercury	ND	mg/L	0.00020	0.00010		1	06/16/23 06:15	06/26/23 15:15	7439-97-6	
SVOA (GC/MS) 8270 C-mod		Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet								
1,4-Dioxane (p-Dioxane)	ND	ug/L	0.400	0.0447		1	06/22/23 15:40	06/23/23 17:59	123-91-1	H1
Surrogates										
Nitrobenzene-d5 (S)	72.6	%	10.0-120			1	06/22/23 15:40	06/23/23 17:59	4165-60-0	
SVOA (GC/MS) 8270C		Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet								
Acenaphthene	ND	ug/L	1.00	0.0886		1	06/17/23 06:33	06/17/23 20:05	83-32-9	
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/17/23 06:33	06/17/23 20:05	208-96-8	
Acetophenone	ND	ug/L	10.0	0.208		1	06/17/23 06:33	06/17/23 20:05	98-86-2	
Aniline	ND	ug/L	10.0	1.65		1	06/17/23 06:33	06/17/23 20:05	62-53-3	R1
Anthracene	ND	ug/L	1.00	0.0804		1	06/17/23 06:33	06/17/23 20:05	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/17/23 06:33	06/17/23 20:05	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/17/23 06:33	06/17/23 20:05	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/17/23 06:33	06/17/23 20:05	207-08-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 32-S **Lab ID: 20279949018** Collected: 06/12/23 13:15 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/17/23 06:33	06/17/23 20:05	191-24-2	
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/17/23 06:33	06/17/23 20:05	50-32-8	
Benzyl alcohol	ND	ug/L	10.0	0.563		1	06/17/23 06:33	06/17/23 20:05	100-51-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.116		1	06/17/23 06:33	06/17/23 20:05	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	0.137		1	06/17/23 06:33	06/17/23 20:05	111-44-4	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	0.210		1	06/17/23 06:33	06/17/23 20:05	108-60-1	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.0877		1	06/17/23 06:33	06/17/23 20:05	101-55-3	
4-Chloroaniline	ND	ug/L	10.0	0.234		1	06/17/23 06:33	06/17/23 20:05	106-47-8	
2-Chloronaphthalene	ND	ug/L	1.00	0.0648		1	06/17/23 06:33	06/17/23 20:05	91-58-7	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.0926		1	06/17/23 06:33	06/17/23 20:05	7005-72-3	
Chrysene	ND	ug/L	1.00	0.130		1	06/17/23 06:33	06/17/23 20:05	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.00	0.0644		1	06/17/23 06:33	06/17/23 20:05	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/17/23 06:33	06/17/23 20:05	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.0713		1	06/17/23 06:33	06/17/23 20:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.132		1	06/17/23 06:33	06/17/23 20:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.0942		1	06/17/23 06:33	06/17/23 20:05	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10.0	0.212		1	06/17/23 06:33	06/17/23 20:05	91-94-1	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.0983		1	06/17/23 06:33	06/17/23 20:05	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.250		1	06/17/23 06:33	06/17/23 20:05	606-20-2	
Fluoranthene	ND	ug/L	1.00	0.102		1	06/17/23 06:33	06/17/23 20:05	206-44-0	
Fluorene	ND	ug/L	1.00	0.0844		1	06/17/23 06:33	06/17/23 20:05	86-73-7	
Hexachlorobenzene	ND	ug/L	1.00	0.0755		1	06/17/23 06:33	06/17/23 20:05	118-74-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.0968		1	06/17/23 06:33	06/17/23 20:05	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.0598		1	06/17/23 06:33	06/17/23 20:05	77-47-4	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/17/23 06:33	06/17/23 20:05	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/17/23 06:33	06/17/23 20:05	193-39-5	
Isophorone	ND	ug/L	10.0	0.143		1	06/17/23 06:33	06/17/23 20:05	78-59-1	
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/17/23 06:33	06/17/23 20:05	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/17/23 06:33	06/17/23 20:05	91-57-6	
2-Nitroaniline	ND	ug/L	10.0	0.102		1	06/17/23 06:33	06/17/23 20:05	88-74-4	
3-Nitroaniline	ND	ug/L	10.0	0.0869		1	06/17/23 06:33	06/17/23 20:05	99-09-2	
4-Nitroaniline	ND	ug/L	10.0	0.0910		1	06/17/23 06:33	06/17/23 20:05	100-01-6	
Naphthalene	ND	ug/L	1.00	0.159		1	06/17/23 06:33	06/17/23 20:05	91-20-3	
Nitrobenzene	ND	ug/L	10.0	0.297		1	06/17/23 06:33	06/17/23 20:05	98-95-3	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.998		1	06/17/23 06:33	06/17/23 20:05	62-75-9	
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/17/23 06:33	06/17/23 20:05	86-30-6	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.261		1	06/17/23 06:33	06/17/23 20:05	621-64-7	
Phenanthrene	ND	ug/L	1.00	0.112		1	06/17/23 06:33	06/17/23 20:05	85-01-8	
Pyridine	ND	ug/L	10.0	0.627		1	06/17/23 06:33	06/17/23 20:05	110-86-1	L0,R1
Butylbenzylphthalate	ND	ug/L	3.00	0.765		1	06/17/23 06:33	06/17/23 20:05	85-68-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/17/23 06:33	06/17/23 20:05	117-81-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 32-S **Lab ID: 20279949018** Collected: 06/12/23 13:15 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Di-n-butylphthalate	ND	ug/L	3.00	0.453		1	06/17/23 06:33	06/17/23 20:05	84-74-2	
Diethylphthalate	ND	ug/L	3.00	0.287		1	06/17/23 06:33	06/17/23 20:05	84-66-2	
Dimethylphthalate	ND	ug/L	3.00	0.260		1	06/17/23 06:33	06/17/23 20:05	131-11-3	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/17/23 06:33	06/17/23 20:05	117-84-0	
Pyrene	ND	ug/L	1.00	0.107		1	06/17/23 06:33	06/17/23 20:05	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	0.0647		1	06/17/23 06:33	06/17/23 20:05	95-94-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.0698		1	06/17/23 06:33	06/17/23 20:05	120-82-1	
4-Chloro-3-methylphenol	ND	ug/L	10.0	0.131		1	06/17/23 06:33	06/17/23 20:05	59-50-7	
2-Chlorophenol	ND	ug/L	10.0	0.133		1	06/17/23 06:33	06/17/23 20:05	95-57-8	
2,4-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/17/23 06:33	06/17/23 20:05	120-83-2	
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/17/23 06:33	06/17/23 20:05	105-67-9	
4,6-Dinitro-2-methylphenol	ND	ug/L	10.0	1.12		1	06/17/23 06:33	06/17/23 20:05	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10.0	5.93		1	06/17/23 06:33	06/17/23 20:05	51-28-5	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	0.0929		1	06/17/23 06:33	06/17/23 20:05	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/17/23 06:33	06/17/23 20:05		
2-Nitrophenol	ND	ug/L	10.0	0.117		1	06/17/23 06:33	06/17/23 20:05	88-75-5	
4-Nitrophenol	ND	ug/L	10.0	0.143		1	06/17/23 06:33	06/17/23 20:05	100-02-7	
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/17/23 06:33	06/17/23 20:05	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/17/23 06:33	06/17/23 20:05	108-95-2	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	0.231		1	06/17/23 06:33	06/17/23 20:05	58-90-2	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.109		1	06/17/23 06:33	06/17/23 20:05	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	0.100		1	06/17/23 06:33	06/17/23 20:05	88-06-2	
2-Acetylaminofluorene	ND	ug/L	10.0	0.253		1	06/23/23 06:40	06/24/23 03:35	53-96-3	H1
4-Aminobiphenyl	ND	ug/L	10.0	0.461		1	06/23/23 06:40	06/24/23 03:35	92-67-1	H1
Aramite	ND	ug/L	50.0	16.7		1	06/23/23 06:40	06/24/23 03:35	140-57-8	H1
Chlorobenzilate	ND	ug/L	50.0	3.84		1	06/23/23 06:40	06/24/23 03:35	510-15-6	H1
Diallate	ND	ug/L	10.0	0.524		1	06/23/23 06:40	06/24/23 03:35	2303-16-4	H1
2,6-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/23/23 06:40	06/24/23 03:35	87-65-0	H1
Dimethoate	ND	ug/L	50.0	5.05		1	06/23/23 06:40	06/24/23 03:35	60-51-5	H1
P-Dimethylaminoazobenzene	ND	ug/L	10.0	3.69		1	06/23/23 06:40	06/24/23 03:35	60-11-7	H1
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	1.71		1	06/23/23 06:40	06/24/23 03:35	57-97-6	H1
3,3'-Dimethylbenzidine	ND	ug/L	10.0	3.39		1	06/23/23 06:40	06/24/23 03:35	119-93-7	H1
a,a-Dimethylphenylethylamine	ND	ug/L	50.0	3.13		1	06/23/23 06:40	06/24/23 03:35	122-09-8	H1
1,3-Dinitrobenzene	ND	ug/L	10.0	0.359		1	06/23/23 06:40	06/24/23 03:35	99-65-0	H1
Diphenylamine	ND	ug/L	10.0	2.37		1	06/17/23 06:33	06/17/23 20:05	122-39-4	
Dinoseb	ND	ug/L	50.0	8.01		1	06/23/23 06:40	06/24/23 03:35	88-85-7	H1
Ethyl methanesulfonate	ND	ug/L	10.0	0.326		1	06/23/23 06:40	06/24/23 03:35	62-50-0	H1
Famphur	ND	ug/L	20.0	3.92		1	06/23/23 06:40	06/24/23 03:35	52-85-7	H1
Hexachloropropene	ND	ug/L	50.0	0.149		1	06/23/23 06:40	06/24/23 03:35	1888-71-7	H1
Hexachlorophene	ND	ug/L	50.0	1.44		1	06/23/23 06:40	06/24/23 03:35	70-30-4	H1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 32-S **Lab ID: 20279949018** Collected: 06/12/23 13:15 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Isodrin	ND	ug/L	10.0	4.11		1	06/23/23 06:40	06/24/23 03:35	465-73-6	H1
Isosafrole	ND	ug/L	10.0	3.88		1	06/23/23 06:40	06/24/23 03:35	120-58-1	H1
Kepone	ND	ug/L	20.0	2.66		1	06/23/23 06:40	06/24/23 03:35	143-50-0	H1
Methapyrilene	ND	ug/L	50.0	10.0		1	06/23/23 06:40	06/24/23 03:35	91-80-5	H1
3-Methylcholanthrene	ND	ug/L	10.0	0.164		1	06/23/23 06:40	06/24/23 03:35	56-49-5	H1
Methyl methanesulfonate	ND	ug/L	50.0	3.40		1	06/23/23 06:40	06/24/23 03:35	66-27-3	H1
1,4-Naphthoquinone	ND	ug/L	50.0	5.56		1	06/23/23 06:40	06/24/23 03:35	130-15-4	H1,L0
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/23/23 06:40	06/24/23 03:35	134-32-7	H1
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/23/23 06:40	06/24/23 03:35	91-59-8	H1
5-Nitro-o-toluidine	ND	ug/L	10.0	1.99		1	06/23/23 06:40	06/24/23 03:35	99-55-8	H1
4-Nitroquinoline-n-oxide	ND	ug/L	10.0	2.03		1	06/23/23 06:40	06/24/23 03:35	56-57-5	H1
N-Nitrosodiethylamine	ND	ug/L	10.0	3.57		1	06/23/23 06:40	06/24/23 03:35	55-18-5	H1
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	3.91		1	06/23/23 06:40	06/24/23 03:35	924-16-3	H1
N-Nitrosomethylethylamine	ND	ug/L	10.0	3.25		1	06/23/23 06:40	06/24/23 03:35	10595-95-6	H1
N-Nitrosomorpholine	ND	ug/L	10.0	3.25		1	06/23/23 06:40	06/24/23 03:35	59-89-2	H1
N-Nitrosopiperidine	ND	ug/L	10.0	3.72		1	06/23/23 06:40	06/24/23 03:35	100-75-4	H1
N-Nitrosopyrrolidine	ND	ug/L	10.0	3.39		1	06/23/23 06:40	06/24/23 03:35	930-55-2	H1
Pentachlorobenzene	ND	ug/L	10.0	4.15		1	06/23/23 06:40	06/24/23 03:35	608-93-5	H1
Pentachloronitrobenzene	ND	ug/L	10.0	4.15		1	06/23/23 06:40	06/24/23 03:35	82-68-8	H1
Phenacetin	ND	ug/L	10.0	4.66		1	06/23/23 06:40	06/24/23 03:35	62-44-2	H1
p-Phenylenediamine	ND	ug/L	6900	387		1	06/23/23 06:40	06/24/23 03:35	106-50-3	H1,L0
2-Picoline	ND	ug/L	50.0	6.83		1	06/23/23 06:40	06/24/23 03:35	109-06-8	H1
Pronamide	ND	ug/L	10.0	4.21		1	06/23/23 06:40	06/24/23 03:35	23950-58-5	H1
Safrole	ND	ug/L	10.0	3.68		1	06/23/23 06:40	06/24/23 03:35	94-59-7	H1
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	50.0	3.99		1	06/23/23 06:40	06/24/23 03:35	3689-24-5	H1
Thionazin	ND	ug/L	10.0	4.07		1	06/23/23 06:40	06/24/23 03:35	297-97-2	H1
O-Toluidine	ND	ug/L	10.0	3.53		1	06/23/23 06:40	06/24/23 03:35	95-53-4	H1
1,3,5-Trinitrobenzene	ND	ug/L	10.0	1.32		1	06/23/23 06:40	06/24/23 03:35	99-35-4	H1
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	2.93		1	06/23/23 06:40	06/24/23 03:35	126-68-1	H1
Surrogates										
2-Fluorophenol (S)	34.4	%	10.0-120			1	06/17/23 06:33	06/17/23 20:05	367-12-4	
Phenol-d5 (S)	22.0	%	10.0-120			1	06/17/23 06:33	06/17/23 20:05	4165-62-2	
Nitrobenzene-d5 (S)	63.5	%	10.0-127			1	06/17/23 06:33	06/17/23 20:05	4165-60-0	
2-Fluorobiphenyl (S)	74.5	%	10.0-130			1	06/17/23 06:33	06/17/23 20:05	321-60-8	
2,4,6-Tribromophenol (S)	69.0	%	10.0-155			1	06/17/23 06:33	06/17/23 20:05	118-79-6	
Terphenyl-d14 (S)	78.6	%	10.0-128			1	06/17/23 06:33	06/17/23 20:05	1718-51-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 32-S **Lab ID: 20279949018** Collected: 06/12/23 13:15 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (LCMS) SW-846 8321	Analytical Method: EPA 8321 Preparation Method: 8321 Pace National - Mt. Juliet									
2,4-D	ND	ug/L	2.00	1.00		1	06/15/23 15:07	06/19/23 04:29	94-75-7	
2,4,5-T	ND	ug/L	2.00	0.573		1	06/15/23 15:07	06/19/23 04:29	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.807		1	06/15/23 15:07	06/19/23 04:29	93-72-1	
Surrogates										
2,4-DB-d3 (S)	96.0	%	70.0-130			1	06/15/23 15:07	06/19/23 04:29	1219802-46-	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	06/17/23 19:45	06/17/23 19:45	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	06/17/23 19:45	06/17/23 19:45	107-02-8	
Acrylonitrile	ND	ug/L	10.0	0.671		1	06/17/23 19:45	06/17/23 19:45	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	06/17/23 19:45	06/17/23 19:45	107-05-1	
Benzene	ND	ug/L	1.00	0.0941		1	06/17/23 19:45	06/17/23 19:45	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	06/17/23 19:45	06/17/23 19:45	75-27-4	
Bromoform	ND	ug/L	1.00	0.129		1	06/17/23 19:45	06/17/23 19:45	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	06/17/23 19:45	06/17/23 19:45	74-83-9	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	06/17/23 19:45	06/17/23 19:45	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	06/17/23 19:45	06/17/23 19:45	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116		1	06/17/23 19:45	06/17/23 19:45	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140		1	06/17/23 19:45	06/17/23 19:45	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192		1	06/17/23 19:45	06/17/23 19:45	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	06/17/23 19:45	06/17/23 19:45	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	06/17/23 19:45	06/17/23 19:45	74-87-3	
Dibromomethane	ND	ug/L	1.00	0.122		1	06/17/23 19:45	06/17/23 19:45	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	06/17/23 19:45	06/17/23 19:45	95-50-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	06/17/23 19:45	06/17/23 19:45	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	06/17/23 19:45	06/17/23 19:45	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	06/17/23 19:45	06/17/23 19:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	06/17/23 19:45	06/17/23 19:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	06/17/23 19:45	06/17/23 19:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	06/17/23 19:45	06/17/23 19:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	06/17/23 19:45	06/17/23 19:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	06/17/23 19:45	06/17/23 19:45	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	06/17/23 19:45	06/17/23 19:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	06/17/23 19:45	06/17/23 19:45	10061-02-6	
Ethylbenzene	ND	ug/L	1.00	0.173		1	06/17/23 19:45	06/17/23 19:45	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.787		1	06/17/23 19:45	06/17/23 19:45	591-78-6	
Iodomethane	ND	ug/L	10.0	6.00		1	06/17/23 19:45	06/17/23 19:45	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	06/17/23 19:45	06/17/23 19:45	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430		1	06/17/23 19:45	06/17/23 19:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	06/17/23 19:45	06/17/23 19:45	108-10-1	
Styrene	ND	ug/L	1.00	0.118		1	06/17/23 19:45	06/17/23 19:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	06/17/23 19:45	06/17/23 19:45	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: 32-S **Lab ID: 20279949018** Collected: 06/12/23 13:15 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	06/17/23 19:45	06/17/23 19:45	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	06/17/23 19:45	06/17/23 19:45	127-18-4	
Toluene	ND	ug/L	1.00	0.278		1	06/17/23 19:45	06/17/23 19:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	06/17/23 19:45	06/17/23 19:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	06/17/23 19:45	06/17/23 19:45	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190		1	06/17/23 19:45	06/17/23 19:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	06/17/23 19:45	06/17/23 19:45	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	06/17/23 19:45	06/17/23 19:45	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	06/17/23 19:45	06/17/23 19:45	108-05-4	
Vinyl chloride	ND	ug/L	1.00	0.234		1	06/17/23 19:45	06/17/23 19:45	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	06/17/23 19:45	06/17/23 19:45	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	06/17/23 19:45	06/17/23 19:45	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	06/17/23 19:45	06/17/23 19:45	1330-20-7	
Acetonitrile	ND	ug/L	50.0	24.0		1	06/22/23 16:07	06/22/23 16:07	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	06/22/23 16:07	06/22/23 16:07	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	06/22/23 16:07	06/22/23 16:07	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	06/22/23 16:07	06/22/23 16:07	78-83-1	
Methacrylonitrile	ND	ug/L	50.0	14.2		1	06/22/23 16:07	06/22/23 16:07	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	06/22/23 16:07	06/22/23 16:07	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	06/22/23 16:07	06/22/23 16:07	76-01-7	
Propionitrile	ND	ug/L	50.0	16.2		1	06/22/23 16:07	06/22/23 16:07	107-12-0	
Surrogates										
Toluene-d8 (S)	96.7	%	80.0-120			1	06/22/23 16:07	06/22/23 16:07	2037-26-5	
Toluene-d8 (S)	101	%	80.0-120			1	06/17/23 19:45	06/17/23 19:45	2037-26-5	
1,2-Dichloroethane-d4 (S)	99.9	%	70.0-130			1	06/22/23 16:07	06/22/23 16:07	17060-07-0	
1,2-Dichloroethane-d4 (S)	108	%	70.0-130			1	06/17/23 19:45	06/17/23 19:45	17060-07-0	
4-Bromofluorobenzene (S)	86.6	%	77.0-126			1	06/22/23 16:07	06/22/23 16:07	460-00-4	
4-Bromofluorobenzene (S)	94.5	%	77.0-126			1	06/17/23 19:45	06/17/23 19:45	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	**0.10**	mg/L	0.020	0.012		1		06/19/23 09:35	18496-25-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay									
Cyanide	ND	mg/L	0.023	0.0069		1	06/26/23 08:00	06/26/23 10:29	57-12-5	
420.1 Phenolics, Total	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - New Orleans									
Phenolics, Total Recoverable	**0.012J**	mg/L	0.020	0.0093		1	07/06/23 13:13	07/07/23 10:33	64743-03-9	B

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Equipment Blank 1 **Lab ID: 20279949019** Collected: 06/12/23 09:15 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/18/23 08:33	06/18/23 19:56	309-00-2	
alpha-BHC	ND	ug/L	0.0500	0.0172		1	06/18/23 08:33	06/18/23 19:56	319-84-6	
beta-BHC	ND	ug/L	0.0500	0.0208		1	06/18/23 08:33	06/18/23 19:56	319-85-7	
delta-BHC	ND	ug/L	0.0500	0.0150		1	06/18/23 08:33	06/18/23 19:56	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.0500	0.0209		1	06/18/23 08:33	06/18/23 19:56	58-89-9	
Chlordane (Technical)	ND	ug/L	5.00	0.0198		1	06/18/23 08:33	06/18/23 19:56	57-74-9	
4,4'-DDD	ND	ug/L	0.0500	0.0177		1	06/18/23 08:33	06/18/23 19:56	72-54-8	
4,4'-DDE	ND	ug/L	0.0500	0.0154		1	06/18/23 08:33	06/18/23 19:56	72-55-9	
4,4'-DDT	ND	ug/L	0.0500	0.0198		1	06/18/23 08:33	06/18/23 19:56	50-29-3	
Dieldrin	ND	ug/L	0.0500	0.0162		1	06/18/23 08:33	06/18/23 19:56	60-57-1	
Endosulfan I	ND	ug/L	0.0500	0.0160		1	06/18/23 08:33	06/18/23 19:56	959-98-8	
Endosulfan II	ND	ug/L	0.0500	0.0164		1	06/18/23 08:33	06/18/23 19:56	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.0500	0.0217		1	06/18/23 08:33	06/18/23 19:56	1031-07-8	
Endrin	ND	ug/L	0.0500	0.0161		1	06/18/23 08:33	06/18/23 19:56	72-20-8	
Endrin aldehyde	ND	ug/L	0.0500	0.0237		1	06/18/23 08:33	06/18/23 19:56	7421-93-4	
Heptachlor	ND	ug/L	0.0500	0.0148		1	06/18/23 08:33	06/18/23 19:56	76-44-8	
Heptachlor epoxide	ND	ug/L	0.0500	0.0183		1	06/18/23 08:33	06/18/23 19:56	1024-57-3	
Methoxychlor	ND	ug/L	0.0500	0.0193		1	06/18/23 08:33	06/18/23 19:56	72-43-5	
Toxaphene	ND	ug/L	0.500	0.168		1	06/18/23 08:33	06/18/23 19:56	8001-35-2	
Surrogates										
Decachlorobiphenyl (S)	17.1	%	10.0-128			1	06/18/23 08:33	06/18/23 19:56	2051-24-3	
Tetrachloro-m-xylene (S)	76.4	%	10.0-127			1	06/18/23 08:33	06/18/23 19:56	877-09-8	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00034		1	06/15/23 06:33	06/20/23 18:49	7440-36-0	
Arsenic	**0.00011J**	mg/L	0.0010	0.00010		1	06/15/23 06:33	06/20/23 18:49	7440-38-2	
Barium	ND	mg/L	0.0010	0.00064		1	06/15/23 06:33	06/20/23 18:49	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00021		1	06/15/23 06:33	06/20/23 18:49	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.00019		1	06/15/23 06:33	06/20/23 18:49	7440-43-9	
Chromium	ND	mg/L	0.0010	0.00063		1	06/15/23 06:33	06/20/23 18:49	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.00012		1	06/15/23 06:33	06/20/23 18:49	7440-48-4	
Copper	ND	mg/L	0.0030	0.0017		1	06/15/23 06:33	06/20/23 18:49	7440-50-8	
Lead	ND	mg/L	0.0010	0.00069		1	06/15/23 06:33	06/20/23 18:49	7439-92-1	
Nickel	ND	mg/L	0.0010	0.00062		1	06/15/23 06:33	06/20/23 18:49	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00026		1	06/15/23 06:33	06/20/23 18:49	7782-49-2	
Silver	ND	mg/L	0.00050	0.00020		1	06/15/23 06:33	06/20/23 18:49	7440-22-4	
Thallium	ND	mg/L	0.00050	0.00011		1	06/15/23 06:33	06/20/23 18:49	7440-28-0	
Tin	ND	mg/L	0.0060	0.00065		1	06/15/23 06:33	06/20/23 18:49	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.00023		1	06/15/23 06:33	06/20/23 18:49	7440-62-2	
Zinc	ND	mg/L	0.010	0.0072		1	06/15/23 06:33	06/20/23 18:49	7440-66-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Equipment Blank 1 **Lab ID: 20279949019** Collected: 06/12/23 09:15 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/16/23 06:15	06/26/23 15:17	7439-97-6	
SVOA (GC/MS) 8270 C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	ND	ug/L	0.400	0.0447		1	06/22/23 15:40	06/23/23 18:18	123-91-1	H1
Surrogates										
Nitrobenzene-d5 (S)	60.0	%	10.0-120			1	06/22/23 15:40	06/23/23 18:18	4165-60-0	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	ND	ug/L	1.05	0.0930		1.05	06/17/23 06:33	06/17/23 20:27	83-32-9	
Acenaphthylene	ND	ug/L	1.05	0.0967		1.05	06/17/23 06:33	06/17/23 20:27	208-96-8	
Acetophenone	ND	ug/L	10.5	0.218		1.05	06/17/23 06:33	06/17/23 20:27	98-86-2	
Aniline	ND	ug/L	10.5	1.73		1.05	06/17/23 06:33	06/17/23 20:27	62-53-3	R1
Anthracene	ND	ug/L	1.05	0.0844		1.05	06/17/23 06:33	06/17/23 20:27	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.05	0.209		1.05	06/17/23 06:33	06/17/23 20:27	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.05	0.136		1.05	06/17/23 06:33	06/17/23 20:27	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.05	0.126		1.05	06/17/23 06:33	06/17/23 20:27	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.05	0.127		1.05	06/17/23 06:33	06/17/23 20:27	191-24-2	
Benzo(a)pyrene	ND	ug/L	1.05	0.0400		1.05	06/17/23 06:33	06/17/23 20:27	50-32-8	
Benzyl alcohol	ND	ug/L	10.5	0.591		1.05	06/17/23 06:33	06/17/23 20:27	100-51-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.5	0.122		1.05	06/17/23 06:33	06/17/23 20:27	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.5	0.144		1.05	06/17/23 06:33	06/17/23 20:27	111-44-4	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.5	0.221		1.05	06/17/23 06:33	06/17/23 20:27	108-60-1	
4-Bromophenylphenyl ether	ND	ug/L	10.5	0.0921		1.05	06/17/23 06:33	06/17/23 20:27	101-55-3	
4-Chloroaniline	ND	ug/L	10.5	0.246		1.05	06/17/23 06:33	06/17/23 20:27	106-47-8	
2-Chloronaphthalene	ND	ug/L	1.05	0.0680		1.05	06/17/23 06:33	06/17/23 20:27	91-58-7	
4-Chlorophenylphenyl ether	ND	ug/L	10.5	0.0972		1.05	06/17/23 06:33	06/17/23 20:27	7005-72-3	
Chrysene	ND	ug/L	1.05	0.136		1.05	06/17/23 06:33	06/17/23 20:27	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.05	0.0676		1.05	06/17/23 06:33	06/17/23 20:27	53-70-3	
Dibenzofuran	ND	ug/L	10.5	0.102		1.05	06/17/23 06:33	06/17/23 20:27	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.5	0.0749		1.05	06/17/23 06:33	06/17/23 20:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.5	0.139		1.05	06/17/23 06:33	06/17/23 20:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.5	0.0989		1.05	06/17/23 06:33	06/17/23 20:27	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10.5	0.223		1.05	06/17/23 06:33	06/17/23 20:27	91-94-1	
2,4-Dinitrotoluene	ND	ug/L	10.5	0.103		1.05	06/17/23 06:33	06/17/23 20:27	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.5	0.263		1.05	06/17/23 06:33	06/17/23 20:27	606-20-2	
Fluoranthene	ND	ug/L	1.05	0.107		1.05	06/17/23 06:33	06/17/23 20:27	206-44-0	
Fluorene	ND	ug/L	1.05	0.0886		1.05	06/17/23 06:33	06/17/23 20:27	86-73-7	
Hexachlorobenzene	ND	ug/L	1.05	0.0793		1.05	06/17/23 06:33	06/17/23 20:27	118-74-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.5	0.102		1.05	06/17/23 06:33	06/17/23 20:27	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Equipment Blank 1 **Lab ID: 20279949019** Collected: 06/12/23 09:15 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Hexachlorocyclopentadiene	ND	ug/L	10.5	0.0628		1.05	06/17/23 06:33	06/17/23 20:27	77-47-4	
Hexachloroethane	ND	ug/L	10.5	0.133		1.05	06/17/23 06:33	06/17/23 20:27	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.05	0.293		1.05	06/17/23 06:33	06/17/23 20:27	193-39-5	
Isophorone	ND	ug/L	10.5	0.150		1.05	06/17/23 06:33	06/17/23 20:27	78-59-1	
1-Methylnaphthalene	ND	ug/L	1.05	0.0829		1.05	06/17/23 06:33	06/17/23 20:27	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.05	0.123		1.05	06/17/23 06:33	06/17/23 20:27	91-57-6	
2-Nitroaniline	ND	ug/L	10.5	0.107		1.05	06/17/23 06:33	06/17/23 20:27	88-74-4	
3-Nitroaniline	ND	ug/L	10.5	0.0912		1.05	06/17/23 06:33	06/17/23 20:27	99-09-2	
4-Nitroaniline	ND	ug/L	10.5	0.0956		1.05	06/17/23 06:33	06/17/23 20:27	100-01-6	
Naphthalene	ND	ug/L	1.05	0.167		1.05	06/17/23 06:33	06/17/23 20:27	91-20-3	
Nitrobenzene	ND	ug/L	10.5	0.312		1.05	06/17/23 06:33	06/17/23 20:27	98-95-3	
N-Nitrosodimethylamine	ND	ug/L	10.5	1.05		1.05	06/17/23 06:33	06/17/23 20:27	62-75-9	
N-Nitrosodiphenylamine	ND	ug/L	10.5	2.49		1.05	06/17/23 06:33	06/17/23 20:27	86-30-6	
N-Nitroso-di-n-propylamine	ND	ug/L	10.5	0.274		1.05	06/17/23 06:33	06/17/23 20:27	621-64-7	
Phenanthrene	ND	ug/L	1.05	0.118		1.05	06/17/23 06:33	06/17/23 20:27	85-01-8	
Pyridine	ND	ug/L	10.5	0.658		1.05	06/17/23 06:33	06/17/23 20:27	110-86-1	L0,R1
Butylbenzylphthalate	ND	ug/L	3.15	0.803		1.05	06/17/23 06:33	06/17/23 20:27	85-68-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.15	0.940		1.05	06/17/23 06:33	06/17/23 20:27	117-81-7	
Di-n-butylphthalate	ND	ug/L	3.15	0.476		1.05	06/17/23 06:33	06/17/23 20:27	84-74-2	
Diethylphthalate	ND	ug/L	3.15	0.301		1.05	06/17/23 06:33	06/17/23 20:27	84-66-2	
Dimethylphthalate	ND	ug/L	3.15	0.273		1.05	06/17/23 06:33	06/17/23 20:27	131-11-3	
Di-n-octylphthalate	ND	ug/L	3.15	0.979		1.05	06/17/23 06:33	06/17/23 20:27	117-84-0	
Pyrene	ND	ug/L	1.05	0.112		1.05	06/17/23 06:33	06/17/23 20:27	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.5	0.0679		1.05	06/17/23 06:33	06/17/23 20:27	95-94-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.5	0.0733		1.05	06/17/23 06:33	06/17/23 20:27	120-82-1	
4-Chloro-3-methylphenol	ND	ug/L	10.5	0.138		1.05	06/17/23 06:33	06/17/23 20:27	59-50-7	
2-Chlorophenol	ND	ug/L	10.5	0.140		1.05	06/17/23 06:33	06/17/23 20:27	95-57-8	
2,4-Dichlorophenol	ND	ug/L	10.5	0.107		1.05	06/17/23 06:33	06/17/23 20:27	120-83-2	
2,4-Dimethylphenol	ND	ug/L	10.5	0.0668		1.05	06/17/23 06:33	06/17/23 20:27	105-67-9	
4,6-Dinitro-2-methylphenol	ND	ug/L	10.5	1.18		1.05	06/17/23 06:33	06/17/23 20:27	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10.5	6.23		1.05	06/17/23 06:33	06/17/23 20:27	51-28-5	
2-Methylphenol(o-Cresol)	ND	ug/L	10.5	0.0975		1.05	06/17/23 06:33	06/17/23 20:27	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.5	0.176		1.05	06/17/23 06:33	06/17/23 20:27		
2-Nitrophenol	ND	ug/L	10.5	0.123		1.05	06/17/23 06:33	06/17/23 20:27	88-75-5	
4-Nitrophenol	ND	ug/L	10.5	0.150		1.05	06/17/23 06:33	06/17/23 20:27	100-02-7	
Pentachlorophenol	ND	ug/L	10.5	0.329		1.05	06/17/23 06:33	06/17/23 20:27	87-86-5	
Phenol	ND	ug/L	10.5	4.55		1.05	06/17/23 06:33	06/17/23 20:27	108-95-2	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.5	0.243		1.05	06/17/23 06:33	06/17/23 20:27	58-90-2	
2,4,5-Trichlorophenol	ND	ug/L	10.5	0.114		1.05	06/17/23 06:33	06/17/23 20:27	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.5	0.105		1.05	06/17/23 06:33	06/17/23 20:27	88-06-2	
2-Acetylaminofluorene	ND	ug/L	10.5	0.266		1.05	06/17/23 06:33	06/22/23 17:54	53-96-3	
4-Aminobiphenyl	ND	ug/L	10.5	0.484		1.05	06/17/23 06:33	06/22/23 17:54	92-67-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Equipment Blank 1 **Lab ID: 20279949019** Collected: 06/12/23 09:15 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Aramite	ND	ug/L	52.5	17.5		1.05	06/17/23 06:33	06/22/23 17:54	140-57-8	
Chlorobenzilate	ND	ug/L	52.5	4.03		1.05	06/17/23 06:33	06/22/23 17:54	510-15-6	
Diallate	ND	ug/L	10.5	0.550		1.05	06/17/23 06:33	06/22/23 17:54	2303-16-4	
2,6-Dichlorophenol	ND	ug/L	10.5	0.107		1.05	06/17/23 06:33	06/22/23 17:54	87-65-0	
Dimethoate	ND	ug/L	52.5	5.30		1.05	06/17/23 06:33	06/22/23 17:54	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	10.5	3.87		1.05	06/17/23 06:33	06/22/23 17:54	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.5	1.80		1.05	06/17/23 06:33	06/22/23 17:54	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.5	3.56		1.05	06/17/23 06:33	06/22/23 17:54	119-93-7	
a,a-Dimethylphenylethylamine	ND	ug/L	52.5	3.29		1.05	06/17/23 06:33	06/22/23 17:54	122-09-8	
1,3-Dinitrobenzene	ND	ug/L	10.5	0.377		1.05	06/17/23 06:33	06/22/23 17:54	99-65-0	
Diphenylamine	ND	ug/L	10.5	2.49		1.05	06/17/23 06:33	06/17/23 20:27	122-39-4	
Dinoseb	ND	ug/L	52.5	8.41		1.05	06/17/23 06:33	06/22/23 17:54	88-85-7	
Ethyl methanesulfonate	ND	ug/L	10.5	0.342		1.05	06/17/23 06:33	06/22/23 17:54	62-50-0	
Famphur	ND	ug/L	21.0	4.12		1.05	06/17/23 06:33	06/22/23 17:54	52-85-7	
Hexachloropropene	ND	ug/L	52.5	0.156		1.05	06/17/23 06:33	06/22/23 17:54	1888-71-7	
Hexachlorophene	ND	ug/L	52.5	1.51		1.05	06/17/23 06:33	06/22/23 17:54	70-30-4	
Isodrin	ND	ug/L	10.5	4.32		1.05	06/17/23 06:33	06/22/23 17:54	465-73-6	
Isosafrole	ND	ug/L	10.5	4.07		1.05	06/17/23 06:33	06/22/23 17:54	120-58-1	
Kepone	ND	ug/L	21.0	2.79		1.05	06/17/23 06:33	06/22/23 17:54	143-50-0	
Methapyrilene	ND	ug/L	52.5	10.5		1.05	06/17/23 06:33	06/22/23 17:54	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.5	0.172		1.05	06/17/23 06:33	06/22/23 17:54	56-49-5	
Methyl methanesulfonate	ND	ug/L	52.5	3.57		1.05	06/17/23 06:33	06/22/23 17:54	66-27-3	
1,4-Naphthoquinone	ND	ug/L	52.5	5.84		1.05	06/17/23 06:33	06/22/23 17:54	130-15-4	
1-Naphthalenamine	ND	ug/L	10.5	0.303		1.05	06/17/23 06:33	06/22/23 17:54	134-32-7	
2-Naphthalenamine	ND	ug/L	10.5	4.70		1.05	06/17/23 06:33	06/22/23 17:54	91-59-8	
5-Nitro-o-toluidine	ND	ug/L	10.5	2.09		1.05	06/17/23 06:33	06/22/23 17:54	99-55-8	
4-Nitroquinoline-n-oxide	ND	ug/L	10.5	2.13		1.05	06/17/23 06:33	06/22/23 17:54	56-57-5	
N-Nitrosodiethylamine	ND	ug/L	10.5	3.75		1.05	06/17/23 06:33	06/22/23 17:54	55-18-5	
N-Nitroso-di-n-butylamine	ND	ug/L	10.5	4.11		1.05	06/17/23 06:33	06/22/23 17:54	924-16-3	
N-Nitrosomethylethylamine	ND	ug/L	10.5	3.41		1.05	06/17/23 06:33	06/22/23 17:54	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	10.5	3.41		1.05	06/17/23 06:33	06/22/23 17:54	59-89-2	
N-Nitrosopiperidine	ND	ug/L	10.5	3.91		1.05	06/17/23 06:33	06/22/23 17:54	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.5	3.56		1.05	06/17/23 06:33	06/22/23 17:54	930-55-2	
Pentachlorobenzene	ND	ug/L	10.5	4.36		1.05	06/17/23 06:33	06/22/23 17:54	608-93-5	
Pentachloronitrobenzene	ND	ug/L	10.5	4.36		1.05	06/17/23 06:33	06/22/23 17:54	82-68-8	
Phenacetin	ND	ug/L	10.5	4.89		1.05	06/17/23 06:33	06/22/23 17:54	62-44-2	
p-Phenylenediamine	ND	ug/L	7250	406		1.05	06/17/23 06:33	06/22/23 17:54	106-50-3	
2-Picoline	ND	ug/L	52.5	7.17		1.05	06/17/23 06:33	06/22/23 17:54	109-06-8	
Pronamide	ND	ug/L	10.5	4.42		1.05	06/17/23 06:33	06/22/23 17:54	23950-58-5	
Safrole	ND	ug/L	10.5	3.86		1.05	06/17/23 06:33	06/22/23 17:54	94-59-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Equipment Blank 1 **Lab ID: 20279949019** Collected: 06/12/23 09:15 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	52.5	4.19		1.05	06/17/23 06:33	06/22/23 17:54	3689-24-5	
Thionazin	ND	ug/L	10.5	4.27		1.05	06/17/23 06:33	06/22/23 17:54	297-97-2	
O-Toluidine	ND	ug/L	10.5	3.71		1.05	06/17/23 06:33	06/22/23 17:54	95-53-4	
1,3,5-Trinitrobenzene	ND	ug/L	10.5	1.39		1.05	06/17/23 06:33	06/22/23 17:54	99-35-4	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.5	3.08		1.05	06/17/23 06:33	06/22/23 17:54	126-68-1	
Surrogates										
2-Fluorophenol (S)	36.0	%	10.0-120			1.05	06/17/23 06:33	06/17/23 20:27	367-12-4	
Phenol-d5 (S)	23.7	%	10.0-120			1.05	06/17/23 06:33	06/17/23 20:27	4165-62-2	
Nitrobenzene-d5 (S)	58.0	%	10.0-127			1.05	06/17/23 06:33	06/17/23 20:27	4165-60-0	
2-Fluorobiphenyl (S)	67.2	%	10.0-130			1.05	06/17/23 06:33	06/17/23 20:27	321-60-8	
2,4,6-Tribromophenol (S)	63.3	%	10.0-155			1.05	06/17/23 06:33	06/17/23 20:27	118-79-6	
Terphenyl-d14 (S)	73.6	%	10.0-128			1.05	06/17/23 06:33	06/17/23 20:27	1718-51-0	
SVOA (LCMS) SW-846 8321	Analytical Method: EPA 8321 Preparation Method: 8321 Pace National - Mt. Juliet									
2,4-D	ND	ug/L	2.00	1.00		1	06/15/23 15:07	06/19/23 04:47	94-75-7	
2,4,5-T	ND	ug/L	2.00	0.573		1	06/15/23 15:07	06/19/23 04:47	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.807		1	06/15/23 15:07	06/19/23 04:47	93-72-1	
Surrogates										
2,4-DB-d3 (S)	98.5	%	70.0-130			1	06/15/23 15:07	06/19/23 04:47	1219802-46-	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	06/17/23 18:07	06/17/23 18:07	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	06/17/23 18:07	06/17/23 18:07	107-02-8	
Acrylonitrile	ND	ug/L	10.0	0.671		1	06/17/23 18:07	06/17/23 18:07	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	06/17/23 18:07	06/17/23 18:07	107-05-1	
Benzene	ND	ug/L	1.00	0.0941		1	06/17/23 18:07	06/17/23 18:07	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	06/17/23 18:07	06/17/23 18:07	75-27-4	
Bromoform	ND	ug/L	1.00	0.129		1	06/17/23 18:07	06/17/23 18:07	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	06/17/23 18:07	06/17/23 18:07	74-83-9	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	06/17/23 18:07	06/17/23 18:07	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	06/17/23 18:07	06/17/23 18:07	56-23-5	
Chlorobenzene	**0.135J**	ug/L	1.00	0.116		1	06/17/23 18:07	06/17/23 18:07	108-90-7	J
Dibromochloromethane	ND	ug/L	1.00	0.140		1	06/17/23 18:07	06/17/23 18:07	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192		1	06/17/23 18:07	06/17/23 18:07	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	06/17/23 18:07	06/17/23 18:07	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	06/17/23 18:07	06/17/23 18:07	74-87-3	
Dibromomethane	ND	ug/L	1.00	0.122		1	06/17/23 18:07	06/17/23 18:07	74-95-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Equipment Blank 1 **Lab ID: 20279949019** Collected: 06/12/23 09:15 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	06/17/23 18:07	06/17/23 18:07	95-50-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	06/17/23 18:07	06/17/23 18:07	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	06/17/23 18:07	06/17/23 18:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	06/17/23 18:07	06/17/23 18:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	06/17/23 18:07	06/17/23 18:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	06/17/23 18:07	06/17/23 18:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	06/17/23 18:07	06/17/23 18:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	06/17/23 18:07	06/17/23 18:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	06/17/23 18:07	06/17/23 18:07	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	06/17/23 18:07	06/17/23 18:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	06/17/23 18:07	06/17/23 18:07	10061-02-6	
Ethylbenzene	ND	ug/L	1.00	0.173		1	06/17/23 18:07	06/17/23 18:07	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.787		1	06/17/23 18:07	06/17/23 18:07	591-78-6	
Iodomethane	ND	ug/L	10.0	6.00		1	06/17/23 18:07	06/17/23 18:07	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	06/17/23 18:07	06/17/23 18:07	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430		1	06/17/23 18:07	06/17/23 18:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	06/17/23 18:07	06/17/23 18:07	108-10-1	
Styrene	ND	ug/L	1.00	0.118		1	06/17/23 18:07	06/17/23 18:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	06/17/23 18:07	06/17/23 18:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	06/17/23 18:07	06/17/23 18:07	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	06/17/23 18:07	06/17/23 18:07	127-18-4	
Toluene	ND	ug/L	1.00	0.278		1	06/17/23 18:07	06/17/23 18:07	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	06/17/23 18:07	06/17/23 18:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	06/17/23 18:07	06/17/23 18:07	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190		1	06/17/23 18:07	06/17/23 18:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	06/17/23 18:07	06/17/23 18:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	06/17/23 18:07	06/17/23 18:07	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	06/17/23 18:07	06/17/23 18:07	108-05-4	
Vinyl chloride	ND	ug/L	1.00	0.234		1	06/17/23 18:07	06/17/23 18:07	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	06/17/23 18:07	06/17/23 18:07	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	06/17/23 18:07	06/17/23 18:07	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	06/17/23 18:07	06/17/23 18:07	1330-20-7	
Acetonitrile	ND	ug/L	50.0	24.0		1	06/22/23 16:29	06/22/23 16:29	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	06/22/23 16:29	06/22/23 16:29	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	06/22/23 16:29	06/22/23 16:29	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	06/22/23 16:29	06/22/23 16:29	78-83-1	
Methacrylonitrile	ND	ug/L	50.0	14.2		1	06/22/23 16:29	06/22/23 16:29	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	06/22/23 16:29	06/22/23 16:29	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	06/22/23 16:29	06/22/23 16:29	76-01-7	
Propionitrile	ND	ug/L	50.0	16.2		1	06/22/23 16:29	06/22/23 16:29	107-12-0	
Surrogates										
Toluene-d8 (S)	99.2	%	80.0-120			1	06/22/23 16:29	06/22/23 16:29	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Equipment Blank 1 **Lab ID: 20279949019** Collected: 06/12/23 09:15 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Surrogates										
Toluene-d8 (S)	99.9	%	80.0-120			1	06/17/23 18:07	06/17/23 18:07	2037-26-5	
1,2-Dichloroethane-d4 (S)	97.3	%	70.0-130			1	06/22/23 16:29	06/22/23 16:29	17060-07-0	
1,2-Dichloroethane-d4 (S)	105	%	70.0-130			1	06/17/23 18:07	06/17/23 18:07	17060-07-0	
4-Bromofluorobenzene (S)	85.9	%	77.0-126			1	06/22/23 16:29	06/22/23 16:29	460-00-4	
4-Bromofluorobenzene (S)	92.3	%	77.0-126			1	06/17/23 18:07	06/17/23 18:07	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012		1		06/19/23 09:43	18496-25-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay									
Cyanide	ND	mg/L	0.023	0.0069		1	06/26/23 08:00	06/26/23 10:31	57-12-5	
420.1 Phenolics, Total	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - New Orleans									
Phenolics, Total Recoverable	**0.0094J**	mg/L	0.020	0.0093		1	07/06/23 13:13	07/07/23 10:33	64743-03-9	B

Sample: Equipment Blank 2 **Lab ID: 20279949020** Collected: 06/12/23 17:10 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/18/23 08:33	06/18/23 20:05	309-00-2	
alpha-BHC	ND	ug/L	0.0500	0.0172		1	06/18/23 08:33	06/18/23 20:05	319-84-6	
beta-BHC	ND	ug/L	0.0500	0.0208		1	06/18/23 08:33	06/18/23 20:05	319-85-7	
delta-BHC	ND	ug/L	0.0500	0.0150		1	06/18/23 08:33	06/18/23 20:05	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.0500	0.0209		1	06/18/23 08:33	06/18/23 20:05	58-89-9	
Chlordane (Technical)	ND	ug/L	5.00	0.0198		1	06/18/23 08:33	06/18/23 20:05	57-74-9	
4,4'-DDD	ND	ug/L	0.0500	0.0177		1	06/18/23 08:33	06/18/23 20:05	72-54-8	
4,4'-DDE	ND	ug/L	0.0500	0.0154		1	06/18/23 08:33	06/18/23 20:05	72-55-9	
4,4'-DDT	ND	ug/L	0.0500	0.0198		1	06/18/23 08:33	06/18/23 20:05	50-29-3	
Dieldrin	ND	ug/L	0.0500	0.0162		1	06/18/23 08:33	06/18/23 20:05	60-57-1	
Endosulfan I	ND	ug/L	0.0500	0.0160		1	06/18/23 08:33	06/18/23 20:05	959-98-8	
Endosulfan II	ND	ug/L	0.0500	0.0164		1	06/18/23 08:33	06/18/23 20:05	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.0500	0.0217		1	06/18/23 08:33	06/18/23 20:05	1031-07-8	
Endrin	ND	ug/L	0.0500	0.0161		1	06/18/23 08:33	06/18/23 20:05	72-20-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Equipment Blank 2 **Lab ID: 20279949020** Collected: 06/12/23 17:10 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Endrin aldehyde	ND	ug/L	0.0500	0.0237		1	06/18/23 08:33	06/18/23 20:05	7421-93-4	
Heptachlor	ND	ug/L	0.0500	0.0148		1	06/18/23 08:33	06/18/23 20:05	76-44-8	
Heptachlor epoxide	ND	ug/L	0.0500	0.0183		1	06/18/23 08:33	06/18/23 20:05	1024-57-3	
Methoxychlor	ND	ug/L	0.0500	0.0193		1	06/18/23 08:33	06/18/23 20:05	72-43-5	
Toxaphene	ND	ug/L	0.500	0.168		1	06/18/23 08:33	06/18/23 20:05	8001-35-2	
Surrogates										
Decachlorobiphenyl (S)	8.21	%	10.0-128			1	06/18/23 08:33	06/18/23 20:05	2051-24-3	SR
Tetrachloro-m-xylene (S)	69.4	%	10.0-127			1	06/18/23 08:33	06/18/23 20:05	877-09-8	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00034		1	06/15/23 06:33	06/20/23 18:55	7440-36-0	
Arsenic	**0.00016J**	mg/L	0.0010	0.00010		1	06/15/23 06:33	06/20/23 18:55	7440-38-2	
Barium	**0.00077J**	mg/L	0.0010	0.00064		1	06/22/23 07:30	06/24/23 00:16	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00021		1	06/15/23 06:33	06/20/23 18:55	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.00019		1	06/15/23 06:33	06/20/23 18:55	7440-43-9	
Chromium	**0.0017**	mg/L	0.0010	0.00063		1	06/15/23 06:33	06/20/23 18:55	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.00012		1	06/15/23 06:33	06/20/23 18:55	7440-48-4	
Copper	ND	mg/L	0.0030	0.0017		1	06/15/23 06:33	06/20/23 18:55	7440-50-8	
Lead	ND	mg/L	0.0010	0.00069		1	06/15/23 06:33	06/20/23 18:55	7439-92-1	
Nickel	**0.00080J**	mg/L	0.0010	0.00062		1	06/15/23 06:33	06/20/23 18:55	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00026		1	06/15/23 06:33	06/20/23 18:55	7782-49-2	
Silver	ND	mg/L	0.00050	0.00020		1	06/15/23 06:33	06/20/23 18:55	7440-22-4	
Thallium	ND	mg/L	0.00050	0.00011		1	06/15/23 06:33	06/20/23 18:55	7440-28-0	
Tin	ND	mg/L	0.0060	0.00065		1	06/15/23 06:33	06/20/23 18:55	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.00023		1	06/15/23 06:33	06/20/23 18:55	7440-62-2	
Zinc	**0.0084J**	mg/L	0.010	0.0072		1	06/15/23 06:33	06/20/23 18:55	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/16/23 09:00	06/20/23 15:35	7439-97-6	
SVOA (GC/MS) 8270 C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.0511J**	ug/L	0.400	0.0447		1	06/22/23 15:40	06/23/23 18:37	123-91-1	B,H1,J
Surrogates										
Nitrobenzene-d5 (S)	60.7	%	10.0-120			1	06/22/23 15:40	06/23/23 18:37	4165-60-0	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	ND	ug/L	1.28	0.113		1.28	06/17/23 06:33	06/17/23 20:49	83-32-9	
Acenaphthylene	ND	ug/L	1.28	0.118		1.28	06/17/23 06:33	06/17/23 20:49	208-96-8	
Acetophenone	ND	ug/L	12.8	0.266		1.28	06/17/23 06:33	06/17/23 20:49	98-86-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Equipment Blank 2 **Lab ID: 20279949020** Collected: 06/12/23 17:10 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Aniline	ND	ug/L	12.8	2.11		1.28	06/17/23 06:33	06/17/23 20:49	62-53-3	R1
Anthracene	ND	ug/L	1.28	0.103		1.28	06/17/23 06:33	06/17/23 20:49	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.28	0.255		1.28	06/17/23 06:33	06/17/23 20:49	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.28	0.166		1.28	06/17/23 06:33	06/17/23 20:49	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.28	0.154		1.28	06/17/23 06:33	06/17/23 20:49	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.28	0.155		1.28	06/17/23 06:33	06/17/23 20:49	191-24-2	
Benzo(a)pyrene	ND	ug/L	1.28	0.0488		1.28	06/17/23 06:33	06/17/23 20:49	50-32-8	
Benzyl alcohol	ND	ug/L	12.8	0.721		1.28	06/17/23 06:33	06/17/23 20:49	100-51-6	
bis(2-Chloroethoxy)methane	ND	ug/L	12.8	0.148		1.28	06/17/23 06:33	06/17/23 20:49	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	12.8	0.175		1.28	06/17/23 06:33	06/17/23 20:49	111-44-4	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	12.8	0.269		1.28	06/17/23 06:33	06/17/23 20:49	108-60-1	
4-Bromophenylphenyl ether	ND	ug/L	12.8	0.112		1.28	06/17/23 06:33	06/17/23 20:49	101-55-3	
4-Chloroaniline	ND	ug/L	12.8	0.300		1.28	06/17/23 06:33	06/17/23 20:49	106-47-8	
2-Chloronaphthalene	ND	ug/L	1.28	0.0829		1.28	06/17/23 06:33	06/17/23 20:49	91-58-7	
4-Chlorophenylphenyl ether	ND	ug/L	12.8	0.119		1.28	06/17/23 06:33	06/17/23 20:49	7005-72-3	
Chrysene	ND	ug/L	1.28	0.166		1.28	06/17/23 06:33	06/17/23 20:49	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.28	0.0824		1.28	06/17/23 06:33	06/17/23 20:49	53-70-3	
Dibenzofuran	ND	ug/L	12.8	0.124		1.28	06/17/23 06:33	06/17/23 20:49	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	12.8	0.0913		1.28	06/17/23 06:33	06/17/23 20:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	12.8	0.169		1.28	06/17/23 06:33	06/17/23 20:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	12.8	0.121		1.28	06/17/23 06:33	06/17/23 20:49	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	12.8	0.271		1.28	06/17/23 06:33	06/17/23 20:49	91-94-1	
2,4-Dinitrotoluene	ND	ug/L	12.8	0.126		1.28	06/17/23 06:33	06/17/23 20:49	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	12.8	0.320		1.28	06/17/23 06:33	06/17/23 20:49	606-20-2	
Fluoranthene	ND	ug/L	1.28	0.131		1.28	06/17/23 06:33	06/17/23 20:49	206-44-0	
Fluorene	ND	ug/L	1.28	0.108		1.28	06/17/23 06:33	06/17/23 20:49	86-73-7	
Hexachlorobenzene	ND	ug/L	1.28	0.0966		1.28	06/17/23 06:33	06/17/23 20:49	118-74-1	
Hexachloro-1,3-butadiene	ND	ug/L	12.8	0.124		1.28	06/17/23 06:33	06/17/23 20:49	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	12.8	0.0765		1.28	06/17/23 06:33	06/17/23 20:49	77-47-4	
Hexachloroethane	ND	ug/L	12.8	0.163		1.28	06/17/23 06:33	06/17/23 20:49	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.28	0.357		1.28	06/17/23 06:33	06/17/23 20:49	193-39-5	
Isophorone	ND	ug/L	12.8	0.183		1.28	06/17/23 06:33	06/17/23 20:49	78-59-1	
1-Methylnaphthalene	ND	ug/L	1.28	0.101		1.28	06/17/23 06:33	06/17/23 20:49	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.28	0.150		1.28	06/17/23 06:33	06/17/23 20:49	91-57-6	
2-Nitroaniline	ND	ug/L	12.8	0.131		1.28	06/17/23 06:33	06/17/23 20:49	88-74-4	
3-Nitroaniline	ND	ug/L	12.8	0.111		1.28	06/17/23 06:33	06/17/23 20:49	99-09-2	
4-Nitroaniline	ND	ug/L	12.8	0.116		1.28	06/17/23 06:33	06/17/23 20:49	100-01-6	
Naphthalene	ND	ug/L	1.28	0.204		1.28	06/17/23 06:33	06/17/23 20:49	91-20-3	
Nitrobenzene	ND	ug/L	12.8	0.380		1.28	06/17/23 06:33	06/17/23 20:49	98-95-3	
N-Nitrosodimethylamine	ND	ug/L	12.8	1.28		1.28	06/17/23 06:33	06/17/23 20:49	62-75-9	
N-Nitrosodiphenylamine	ND	ug/L	12.8	3.03		1.28	06/17/23 06:33	06/17/23 20:49	86-30-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Equipment Blank 2 **Lab ID: 20279949020** Collected: 06/12/23 17:10 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
N-Nitroso-di-n-propylamine	ND	ug/L	12.8	0.334		1.28	06/17/23 06:33	06/17/23 20:49	621-64-7	
Phenanthrene	ND	ug/L	1.28	0.143		1.28	06/17/23 06:33	06/17/23 20:49	85-01-8	
Pyridine	ND	ug/L	12.8	0.803		1.28	06/17/23 06:33	06/17/23 20:49	110-86-1	L0,R1
Butylbenzylphthalate	ND	ug/L	3.84	0.979		1.28	06/17/23 06:33	06/17/23 20:49	85-68-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.84	1.15		1.28	06/17/23 06:33	06/17/23 20:49	117-81-7	
Di-n-butylphthalate	ND	ug/L	3.84	0.580		1.28	06/17/23 06:33	06/17/23 20:49	84-74-2	
Diethylphthalate	ND	ug/L	3.84	0.367		1.28	06/17/23 06:33	06/17/23 20:49	84-66-2	
Dimethylphthalate	ND	ug/L	3.84	0.333		1.28	06/17/23 06:33	06/17/23 20:49	131-11-3	
Di-n-octylphthalate	ND	ug/L	3.84	1.19		1.28	06/17/23 06:33	06/17/23 20:49	117-84-0	
Pyrene	ND	ug/L	1.28	0.137		1.28	06/17/23 06:33	06/17/23 20:49	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	12.8	0.0828		1.28	06/17/23 06:33	06/17/23 20:49	95-94-3	
1,2,4-Trichlorobenzene	ND	ug/L	12.8	0.0893		1.28	06/17/23 06:33	06/17/23 20:49	120-82-1	
4-Chloro-3-methylphenol	ND	ug/L	12.8	0.168		1.28	06/17/23 06:33	06/17/23 20:49	59-50-7	
2-Chlorophenol	ND	ug/L	12.8	0.170		1.28	06/17/23 06:33	06/17/23 20:49	95-57-8	
2,4-Dichlorophenol	ND	ug/L	12.8	0.131		1.28	06/17/23 06:33	06/17/23 20:49	120-83-2	
2,4-Dimethylphenol	ND	ug/L	12.8	0.0814		1.28	06/17/23 06:33	06/17/23 20:49	105-67-9	
4,6-Dinitro-2-methylphenol	ND	ug/L	12.8	1.43		1.28	06/17/23 06:33	06/17/23 20:49	534-52-1	
2,4-Dinitrophenol	ND	ug/L	12.8	7.59		1.28	06/17/23 06:33	06/17/23 20:49	51-28-5	
2-Methylphenol(o-Cresol)	ND	ug/L	12.8	0.119		1.28	06/17/23 06:33	06/17/23 20:49	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	12.8	0.215		1.28	06/17/23 06:33	06/17/23 20:49		
2-Nitrophenol	ND	ug/L	12.8	0.150		1.28	06/17/23 06:33	06/17/23 20:49	88-75-5	
4-Nitrophenol	ND	ug/L	12.8	0.183		1.28	06/17/23 06:33	06/17/23 20:49	100-02-7	
Pentachlorophenol	ND	ug/L	12.8	0.401		1.28	06/17/23 06:33	06/17/23 20:49	87-86-5	
Phenol	ND	ug/L	12.8	5.54		1.28	06/17/23 06:33	06/17/23 20:49	108-95-2	
2,3,4,6-Tetrachlorophenol	ND	ug/L	12.8	0.296		1.28	06/17/23 06:33	06/17/23 20:49	58-90-2	
2,4,5-Trichlorophenol	ND	ug/L	12.8	0.140		1.28	06/17/23 06:33	06/17/23 20:49	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	12.8	0.128		1.28	06/17/23 06:33	06/17/23 20:49	88-06-2	
2-Acetylaminofluorene	ND	ug/L	12.8	0.324		1.28	06/17/23 06:33	06/22/23 18:15	53-96-3	
4-Aminobiphenyl	ND	ug/L	12.8	0.590		1.28	06/17/23 06:33	06/22/23 18:15	92-67-1	
Aramite	ND	ug/L	64.0	21.4		1.28	06/17/23 06:33	06/22/23 18:15	140-57-8	
Chlorobenzilate	ND	ug/L	64.0	4.92		1.28	06/17/23 06:33	06/22/23 18:15	510-15-6	
Diallate	ND	ug/L	12.8	0.671		1.28	06/17/23 06:33	06/22/23 18:15	2303-16-4	
2,6-Dichlorophenol	ND	ug/L	12.8	0.131		1.28	06/17/23 06:33	06/22/23 18:15	87-65-0	
Dimethoate	ND	ug/L	64.0	6.46		1.28	06/17/23 06:33	06/22/23 18:15	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	12.8	4.72		1.28	06/17/23 06:33	06/22/23 18:15	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	12.8	2.19		1.28	06/17/23 06:33	06/22/23 18:15	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	12.8	4.34		1.28	06/17/23 06:33	06/22/23 18:15	119-93-7	
a,a-Dimethylphenylethylamine	ND	ug/L	64.0	4.01		1.28	06/17/23 06:33	06/22/23 18:15	122-09-8	
1,3-Dinitrobenzene	ND	ug/L	12.8	0.460		1.28	06/17/23 06:33	06/22/23 18:15	99-65-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Equipment Blank 2 **Lab ID: 20279949020** Collected: 06/12/23 17:10 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Diphenylamine	ND	ug/L	12.8	3.03		1.28	06/17/23 06:33	06/17/23 20:49	122-39-4	
Dinoseb	ND	ug/L	64.0	10.3		1.28	06/17/23 06:33	06/22/23 18:15	88-85-7	
Ethyl methanesulfonate	ND	ug/L	12.8	0.417		1.28	06/17/23 06:33	06/22/23 18:15	62-50-0	
Famphur	ND	ug/L	25.6	5.02		1.28	06/17/23 06:33	06/22/23 18:15	52-85-7	
Hexachloropropene	ND	ug/L	64.0	0.191		1.28	06/17/23 06:33	06/22/23 18:15	1888-71-7	
Hexachlorophene	ND	ug/L	64.0	1.84		1.28	06/17/23 06:33	06/22/23 18:15	70-30-4	
Isodrin	ND	ug/L	12.8	5.26		1.28	06/17/23 06:33	06/22/23 18:15	465-73-6	
Isosafrole	ND	ug/L	12.8	4.97		1.28	06/17/23 06:33	06/22/23 18:15	120-58-1	
Kepone	ND	ug/L	25.6	3.40		1.28	06/17/23 06:33	06/22/23 18:15	143-50-0	
Methapyrilene	ND	ug/L	64.0	12.8		1.28	06/17/23 06:33	06/22/23 18:15	91-80-5	
3-Methylcholanthrene	ND	ug/L	12.8	0.210		1.28	06/17/23 06:33	06/22/23 18:15	56-49-5	
Methyl methanesulfonate	ND	ug/L	64.0	4.35		1.28	06/17/23 06:33	06/22/23 18:15	66-27-3	
1,4-Naphthoquinone	ND	ug/L	64.0	7.12		1.28	06/17/23 06:33	06/22/23 18:15	130-15-4	
1-Naphthalenamine	ND	ug/L	12.8	0.370		1.28	06/17/23 06:33	06/22/23 18:15	134-32-7	
2-Naphthalenamine	ND	ug/L	12.8	5.73		1.28	06/17/23 06:33	06/22/23 18:15	91-59-8	
5-Nitro-o-toluidine	ND	ug/L	12.8	2.55		1.28	06/17/23 06:33	06/22/23 18:15	99-55-8	
4-Nitroquinoline-n-oxide	ND	ug/L	12.8	2.60		1.28	06/17/23 06:33	06/22/23 18:15	56-57-5	
N-Nitrosodiethylamine	ND	ug/L	12.8	4.57		1.28	06/17/23 06:33	06/22/23 18:15	55-18-5	
N-Nitroso-di-n-butylamine	ND	ug/L	12.8	5.00		1.28	06/17/23 06:33	06/22/23 18:15	924-16-3	
N-Nitrosomethylethylamine	ND	ug/L	12.8	4.16		1.28	06/17/23 06:33	06/22/23 18:15	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	12.8	4.16		1.28	06/17/23 06:33	06/22/23 18:15	59-89-2	
N-Nitrosopiperidine	ND	ug/L	12.8	4.76		1.28	06/17/23 06:33	06/22/23 18:15	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	12.8	4.34		1.28	06/17/23 06:33	06/22/23 18:15	930-55-2	
Pentachlorobenzene	ND	ug/L	12.8	5.31		1.28	06/17/23 06:33	06/22/23 18:15	608-93-5	
Pentachloronitrobenzene	ND	ug/L	12.8	5.31		1.28	06/17/23 06:33	06/22/23 18:15	82-68-8	
Phenacetin	ND	ug/L	12.8	5.96		1.28	06/17/23 06:33	06/22/23 18:15	62-44-2	
p-Phenylenediamine	ND	ug/L	8830	495		1.28	06/17/23 06:33	06/22/23 18:15	106-50-3	
2-Picoline	ND	ug/L	64.0	8.74		1.28	06/17/23 06:33	06/22/23 18:15	109-06-8	
Pronamide	ND	ug/L	12.8	5.39		1.28	06/17/23 06:33	06/22/23 18:15	23950-58-5	
Safrole	ND	ug/L	12.8	4.71		1.28	06/17/23 06:33	06/22/23 18:15	94-59-7	
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	64.0	5.11		1.28	06/17/23 06:33	06/22/23 18:15	3689-24-5	
Thionazin	ND	ug/L	12.8	5.21		1.28	06/17/23 06:33	06/22/23 18:15	297-97-2	
O-Toluidine	ND	ug/L	12.8	4.52		1.28	06/17/23 06:33	06/22/23 18:15	95-53-4	
1,3,5-Trinitrobenzene	ND	ug/L	12.8	1.69		1.28	06/17/23 06:33	06/22/23 18:15	99-35-4	
O,O,O-Triethylphosphorothioate	ND	ug/L	12.8	3.75		1.28	06/17/23 06:33	06/22/23 18:15	126-68-1	
Surrogates										
2-Fluorophenol (S)	48.4	%	10.0-120			1.28	06/17/23 06:33	06/17/23 20:49	367-12-4	
Phenol-d5 (S)	31.6	%	10.0-120			1.28	06/17/23 06:33	06/17/23 20:49	4165-62-2	
Nitrobenzene-d5 (S)	75.7	%	10.0-127			1.28	06/17/23 06:33	06/17/23 20:49	4165-60-0	
2-Fluorobiphenyl (S)	84.4	%	10.0-130			1.28	06/17/23 06:33	06/17/23 20:49	321-60-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Equipment Blank 2 **Lab ID: 20279949020** Collected: 06/12/23 17:10 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Surrogates										
2,4,6-Tribromophenol (S)	80.5	%	10.0-155			1.28	06/17/23 06:33	06/17/23 20:49	118-79-6	
Terphenyl-d14 (S)	92.2	%	10.0-128			1.28	06/17/23 06:33	06/17/23 20:49	1718-51-0	
SVOA (LCMS) SW-846 8321	Analytical Method: EPA 8321 Preparation Method: 8321 Pace National - Mt. Juliet									
2,4-D	ND	ug/L	2.00	1.00		1	06/15/23 15:07	06/19/23 05:05	94-75-7	
2,4,5-T	ND	ug/L	2.00	0.573		1	06/15/23 15:07	06/19/23 05:05	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.807		1	06/15/23 15:07	06/19/23 05:05	93-72-1	
Surrogates										
2,4-DB-d3 (S)	101	%	70.0-130			1	06/15/23 15:07	06/19/23 05:05	1219802-46-	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	06/17/23 18:27	06/17/23 18:27	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	06/17/23 18:27	06/17/23 18:27	107-02-8	
Acrylonitrile	ND	ug/L	10.0	0.671		1	06/17/23 18:27	06/17/23 18:27	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	06/17/23 18:27	06/17/23 18:27	107-05-1	
Benzene	ND	ug/L	1.00	0.0941		1	06/17/23 18:27	06/17/23 18:27	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	06/17/23 18:27	06/17/23 18:27	75-27-4	
Bromoform	ND	ug/L	1.00	0.129		1	06/17/23 18:27	06/17/23 18:27	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	06/17/23 18:27	06/17/23 18:27	74-83-9	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	06/17/23 18:27	06/17/23 18:27	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	06/17/23 18:27	06/17/23 18:27	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116		1	06/17/23 18:27	06/17/23 18:27	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140		1	06/17/23 18:27	06/17/23 18:27	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192		1	06/17/23 18:27	06/17/23 18:27	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	06/17/23 18:27	06/17/23 18:27	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	06/17/23 18:27	06/17/23 18:27	74-87-3	
Dibromomethane	ND	ug/L	1.00	0.122		1	06/17/23 18:27	06/17/23 18:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	06/17/23 18:27	06/17/23 18:27	95-50-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	06/17/23 18:27	06/17/23 18:27	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	06/17/23 18:27	06/17/23 18:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	06/17/23 18:27	06/17/23 18:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	06/17/23 18:27	06/17/23 18:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	06/17/23 18:27	06/17/23 18:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	06/17/23 18:27	06/17/23 18:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	06/17/23 18:27	06/17/23 18:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	06/17/23 18:27	06/17/23 18:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	06/17/23 18:27	06/17/23 18:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	06/17/23 18:27	06/17/23 18:27	10061-02-6	
Ethylbenzene	ND	ug/L	1.00	0.173		1	06/17/23 18:27	06/17/23 18:27	100-41-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Equipment Blank 2 **Lab ID: 20279949020** Collected: 06/12/23 17:10 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
2-Hexanone	ND	ug/L	10.0	0.787		1	06/17/23 18:27	06/17/23 18:27	591-78-6	
Iodomethane	ND	ug/L	10.0	6.00		1	06/17/23 18:27	06/17/23 18:27	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	06/17/23 18:27	06/17/23 18:27	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430		1	06/17/23 18:27	06/17/23 18:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	06/17/23 18:27	06/17/23 18:27	108-10-1	
Styrene	ND	ug/L	1.00	0.118		1	06/17/23 18:27	06/17/23 18:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	06/17/23 18:27	06/17/23 18:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	06/17/23 18:27	06/17/23 18:27	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	06/17/23 18:27	06/17/23 18:27	127-18-4	
Toluene	ND	ug/L	1.00	0.278		1	06/17/23 18:27	06/17/23 18:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	06/17/23 18:27	06/17/23 18:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	06/17/23 18:27	06/17/23 18:27	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190		1	06/17/23 18:27	06/17/23 18:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	06/17/23 18:27	06/17/23 18:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	06/17/23 18:27	06/17/23 18:27	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	06/17/23 18:27	06/17/23 18:27	108-05-4	
Vinyl chloride	ND	ug/L	1.00	0.234		1	06/17/23 18:27	06/17/23 18:27	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	06/17/23 18:27	06/17/23 18:27	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	06/17/23 18:27	06/17/23 18:27	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	06/17/23 18:27	06/17/23 18:27	1330-20-7	
Acetonitrile	ND	ug/L	50.0	24.0		1	06/22/23 16:51	06/22/23 16:51	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	06/22/23 16:51	06/22/23 16:51	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	06/22/23 16:51	06/22/23 16:51	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	06/22/23 16:51	06/22/23 16:51	78-83-1	
Methacrylonitrile	ND	ug/L	50.0	14.2		1	06/22/23 16:51	06/22/23 16:51	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	06/22/23 16:51	06/22/23 16:51	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	06/22/23 16:51	06/22/23 16:51	76-01-7	
Propionitrile	ND	ug/L	50.0	16.2		1	06/22/23 16:51	06/22/23 16:51	107-12-0	
Surrogates										
Toluene-d8 (S)	96.6	%	80.0-120			1	06/22/23 16:51	06/22/23 16:51	2037-26-5	
Toluene-d8 (S)	99.8	%	80.0-120			1	06/17/23 18:27	06/17/23 18:27	2037-26-5	
1,2-Dichloroethane-d4 (S)	98.7	%	70.0-130			1	06/22/23 16:51	06/22/23 16:51	17060-07-0	
1,2-Dichloroethane-d4 (S)	113	%	70.0-130			1	06/17/23 18:27	06/17/23 18:27	17060-07-0	
4-Bromofluorobenzene (S)	86.0	%	77.0-126			1	06/22/23 16:51	06/22/23 16:51	460-00-4	
4-Bromofluorobenzene (S)	93.4	%	77.0-126			1	06/17/23 18:27	06/17/23 18:27	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012		1		06/19/23 09:44	18496-25-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Equipment Blank 2 **Lab ID: 20279949020** Collected: 06/12/23 17:10 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
335.4 Cyanide, Total		Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay								
Cyanide	ND	mg/L	0.023	0.0069		1	06/26/23 08:00	06/26/23 10:34	57-12-5	
420.1 Phenolics, Total		Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - New Orleans								
Phenolics, Total Recoverable	**0.023**	mg/L	0.020	0.0093		1	07/06/23 13:13	07/07/23 10:33	64743-03-9	B

Sample: Equipment Blank 3 **Lab ID: 20279949021** Collected: 06/13/23 06:55 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081		Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet								
Aldrin	ND	ug/L	0.0500	0.0198		1	06/16/23 05:32	06/17/23 01:43	309-00-2	
alpha-BHC	ND	ug/L	0.0500	0.0172		1	06/16/23 05:32	06/17/23 01:43	319-84-6	
beta-BHC	ND	ug/L	0.0500	0.0208		1	06/16/23 05:32	06/17/23 01:43	319-85-7	
delta-BHC	ND	ug/L	0.0500	0.0150		1	06/16/23 05:32	06/17/23 01:43	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.0500	0.0209		1	06/16/23 05:32	06/17/23 01:43	58-89-9	
Chlordane (Technical)	ND	ug/L	5.00	0.0198		1	06/16/23 05:32	06/17/23 01:43	57-74-9	
4,4'-DDD	ND	ug/L	0.0500	0.0177		1	06/16/23 05:32	06/17/23 01:43	72-54-8	
4,4'-DDE	ND	ug/L	0.0500	0.0154		1	06/16/23 05:32	06/17/23 01:43	72-55-9	
4,4'-DDT	ND	ug/L	0.0500	0.0198		1	06/16/23 05:32	06/17/23 01:43	50-29-3	
Dieldrin	ND	ug/L	0.0500	0.0162		1	06/16/23 05:32	06/17/23 01:43	60-57-1	
Endosulfan I	ND	ug/L	0.0500	0.0160		1	06/16/23 05:32	06/17/23 01:43	959-98-8	
Endosulfan II	ND	ug/L	0.0500	0.0164		1	06/16/23 05:32	06/17/23 01:43	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.0500	0.0217		1	06/16/23 05:32	06/17/23 01:43	1031-07-8	
Endrin	ND	ug/L	0.0500	0.0161		1	06/16/23 05:32	06/17/23 01:43	72-20-8	
Endrin aldehyde	ND	ug/L	0.0500	0.0237		1	06/16/23 05:32	06/17/23 01:43	7421-93-4	
Endrin ketone	ND	ug/L	0.0500	0.0219		1	06/16/23 05:32	06/17/23 01:43	53494-70-5	
Hexachlorobenzene	ND	ug/L	0.0500	0.0176		1	06/16/23 05:32	06/17/23 01:43	118-74-1	
Heptachlor	ND	ug/L	0.0500	0.0148		1	06/16/23 05:32	06/17/23 01:43	76-44-8	
Heptachlor epoxide	ND	ug/L	0.0500	0.0183		1	06/16/23 05:32	06/17/23 01:43	1024-57-3	
Methoxychlor	ND	ug/L	0.0500	0.0193		1	06/16/23 05:32	06/17/23 01:43	72-43-5	
Toxaphene	ND	ug/L	0.500	0.168		1	06/16/23 05:32	06/17/23 01:43	8001-35-2	
Surrogates										
Decachlorobiphenyl (S)	11.7	%	10.0-128			1	06/16/23 05:32	06/17/23 01:43	2051-24-3	
Tetrachloro-m-xylene (S)	64.2	%	10.0-127			1	06/16/23 05:32	06/17/23 01:43	877-09-8	
6020 MET ICPMS		Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans								
Antimony	ND	mg/L	0.0010	0.00034		1	06/19/23 08:18	06/20/23 20:40	7440-36-0	
Arsenic	ND	mg/L	0.0010	0.00010		1	06/19/23 08:18	06/20/23 20:40	7440-38-2	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Equipment Blank 3 **Lab ID: 20279949021** Collected: 06/13/23 06:55 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Barium	ND	mg/L	0.0010	0.00064		1	06/19/23 08:18	06/20/23 20:40	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00021		1	06/19/23 08:18	06/20/23 20:40	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.00019		1	06/19/23 08:18	06/20/23 20:40	7440-43-9	
Chromium	ND	mg/L	0.0010	0.00063		1	06/19/23 08:18	06/20/23 20:40	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.00012		1	06/19/23 08:18	06/20/23 20:40	7440-48-4	
Copper	ND	mg/L	0.0030	0.0017		1	06/19/23 08:18	06/20/23 20:40	7440-50-8	
Lead	ND	mg/L	0.0010	0.00069		1	06/19/23 08:18	06/20/23 20:40	7439-92-1	
Nickel	ND	mg/L	0.0010	0.00062		1	06/19/23 08:18	06/20/23 20:40	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00026		1	06/19/23 08:18	06/20/23 20:40	7782-49-2	
Silver	ND	mg/L	0.00050	0.00020		1	06/19/23 08:18	06/20/23 20:40	7440-22-4	
Thallium	ND	mg/L	0.00050	0.00011		1	06/19/23 08:18	06/20/23 20:40	7440-28-0	
Tin	ND	mg/L	0.0060	0.00065		1	06/19/23 08:18	06/20/23 20:40	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.00023		1	06/19/23 08:18	06/20/23 20:40	7440-62-2	
Zinc	ND	mg/L	0.010	0.0072		1	06/19/23 08:18	06/20/23 20:40	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/16/23 09:00	06/20/23 15:37	7439-97-6	
SVOA (GC/MS) 8270 C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.350J**	ug/L	0.400	0.0447		1	06/20/23 20:51	06/21/23 05:38	123-91-1	B,H3,J
Surrogates										
Nitrobenzene-d5 (S)	34.4	%	10.0-120			1	06/20/23 20:51	06/21/23 05:38	4165-60-0	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	ND	ug/L	1.00	0.0886		1	06/19/23 15:05	06/20/23 00:57	83-32-9	
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/19/23 15:05	06/20/23 00:57	208-96-8	
Acetophenone	ND	ug/L	10.0	0.208		1	06/19/23 15:05	06/20/23 00:57	98-86-2	
Aniline	ND	ug/L	10.0	1.65		1	06/19/23 15:05	06/20/23 00:57	62-53-3	R1
Anthracene	ND	ug/L	1.00	0.0804		1	06/19/23 15:05	06/20/23 00:57	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/19/23 15:05	06/20/23 00:57	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/19/23 15:05	06/20/23 00:57	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/19/23 15:05	06/20/23 00:57	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/19/23 15:05	06/20/23 00:57	191-24-2	
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/19/23 15:05	06/20/23 00:57	50-32-8	
Benzyl alcohol	ND	ug/L	10.0	0.563		1	06/19/23 15:05	06/20/23 00:57	100-51-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.116		1	06/19/23 15:05	06/20/23 00:57	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	0.137		1	06/19/23 15:05	06/20/23 00:57	111-44-4	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	0.210		1	06/19/23 15:05	06/20/23 00:57	108-60-1	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.0877		1	06/19/23 15:05	06/20/23 00:57	101-55-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Equipment Blank 3 **Lab ID: 20279949021** Collected: 06/13/23 06:55 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
4-Chloroaniline	ND	ug/L	10.0	0.234		1	06/19/23 15:05	06/20/23 00:57	106-47-8	
2-Chloronaphthalene	ND	ug/L	1.00	0.0648		1	06/19/23 15:05	06/20/23 00:57	91-58-7	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.0926		1	06/19/23 15:05	06/20/23 00:57	7005-72-3	
Chrysene	ND	ug/L	1.00	0.130		1	06/19/23 15:05	06/20/23 00:57	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.00	0.0644		1	06/19/23 15:05	06/20/23 00:57	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/19/23 15:05	06/20/23 00:57	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.0713		1	06/19/23 15:05	06/20/23 00:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.132		1	06/19/23 15:05	06/20/23 00:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.0942		1	06/19/23 15:05	06/20/23 00:57	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10.0	0.212		1	06/19/23 15:05	06/20/23 00:57	91-94-1	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.0983		1	06/19/23 15:05	06/20/23 00:57	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.250		1	06/19/23 15:05	06/20/23 00:57	606-20-2	
Fluoranthene	ND	ug/L	1.00	0.102		1	06/19/23 15:05	06/20/23 00:57	206-44-0	
Fluorene	ND	ug/L	1.00	0.0844		1	06/19/23 15:05	06/20/23 00:57	86-73-7	
Hexachlorobenzene	ND	ug/L	1.00	0.0755		1	06/19/23 15:05	06/20/23 00:57	118-74-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.0968		1	06/19/23 15:05	06/20/23 00:57	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.0598		1	06/19/23 15:05	06/20/23 00:57	77-47-4	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/19/23 15:05	06/20/23 00:57	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/19/23 15:05	06/20/23 00:57	193-39-5	
Isophorone	ND	ug/L	10.0	0.143		1	06/19/23 15:05	06/20/23 00:57	78-59-1	
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/19/23 15:05	06/20/23 00:57	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/19/23 15:05	06/20/23 00:57	91-57-6	
2-Nitroaniline	ND	ug/L	10.0	0.102		1	06/19/23 15:05	06/20/23 00:57	88-74-4	
3-Nitroaniline	ND	ug/L	10.0	0.0869		1	06/19/23 15:05	06/20/23 00:57	99-09-2	
4-Nitroaniline	ND	ug/L	10.0	0.0910		1	06/19/23 15:05	06/20/23 00:57	100-01-6	
Naphthalene	ND	ug/L	1.00	0.159		1	06/19/23 15:05	06/20/23 00:57	91-20-3	
Nitrobenzene	ND	ug/L	10.0	0.297		1	06/19/23 15:05	06/20/23 00:57	98-95-3	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.998		1	06/19/23 15:05	06/20/23 00:57	62-75-9	
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/19/23 15:05	06/20/23 00:57	86-30-6	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.261		1	06/19/23 15:05	06/20/23 00:57	621-64-7	
Phenanthrene	ND	ug/L	1.00	0.112		1	06/19/23 15:05	06/20/23 00:57	85-01-8	
Pyridine	ND	ug/L	10.0	0.627		1	06/19/23 15:05	06/20/23 00:57	110-86-1	L0,R1
Butylbenzylphthalate	ND	ug/L	3.00	0.765		1	06/19/23 15:05	06/20/23 00:57	85-68-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/19/23 15:05	06/20/23 00:57	117-81-7	
Di-n-butylphthalate	ND	ug/L	3.00	0.453		1	06/19/23 15:05	06/20/23 00:57	84-74-2	
Diethylphthalate	**1.03J**	ug/L	3.00	0.287		1	06/19/23 15:05	06/20/23 00:57	84-66-2	B,J
Dimethylphthalate	ND	ug/L	3.00	0.260		1	06/19/23 15:05	06/20/23 00:57	131-11-3	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/19/23 15:05	06/20/23 00:57	117-84-0	
Pyrene	ND	ug/L	1.00	0.107		1	06/19/23 15:05	06/20/23 00:57	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	0.0647		1	06/19/23 15:05	06/20/23 00:57	95-94-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.0698		1	06/19/23 15:05	06/20/23 00:57	120-82-1	
4-Chloro-3-methylphenol	ND	ug/L	10.0	0.131		1	06/19/23 15:05	06/20/23 00:57	59-50-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Equipment Blank 3 **Lab ID: 20279949021** Collected: 06/13/23 06:55 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
2-Chlorophenol	ND	ug/L	10.0	0.133		1	06/19/23 15:05	06/20/23 00:57	95-57-8	
2,4-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/19/23 15:05	06/20/23 00:57	120-83-2	
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/19/23 15:05	06/20/23 00:57	105-67-9	
4,6-Dinitro-2-methylphenol	ND	ug/L	10.0	1.12		1	06/19/23 15:05	06/20/23 00:57	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10.0	5.93		1	06/19/23 15:05	06/20/23 00:57	51-28-5	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	0.0929		1	06/19/23 15:05	06/20/23 00:57	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/19/23 15:05	06/20/23 00:57		
2-Nitrophenol	ND	ug/L	10.0	0.117		1	06/19/23 15:05	06/20/23 00:57	88-75-5	
4-Nitrophenol	ND	ug/L	10.0	0.143		1	06/19/23 15:05	06/20/23 00:57	100-02-7	
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/19/23 15:05	06/20/23 00:57	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/19/23 15:05	06/20/23 00:57	108-95-2	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	0.231		1	06/19/23 15:05	06/20/23 00:57	58-90-2	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.109		1	06/19/23 15:05	06/20/23 00:57	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	0.100		1	06/19/23 15:05	06/20/23 00:57	88-06-2	
2-Acetylaminofluorene	ND	ug/L	10.0	0.253		1	06/19/23 15:05	06/26/23 19:03	53-96-3	
4-Aminobiphenyl	ND	ug/L	10.0	0.461		1	06/19/23 15:05	06/26/23 19:03	92-67-1	
Aramite	ND	ug/L	50.0	16.7		1	06/19/23 15:05	06/26/23 19:03	140-57-8	
Chlorobenzilate	ND	ug/L	50.0	3.84		1	06/19/23 15:05	06/26/23 19:03	510-15-6	
Diallate	ND	ug/L	10.0	0.524		1	06/19/23 15:05	06/26/23 19:03	2303-16-4	
2,6-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/19/23 15:05	06/26/23 19:03	87-65-0	
Dimethoate	ND	ug/L	50.0	5.05		1	06/19/23 15:05	06/26/23 19:03	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	10.0	3.69		1	06/19/23 15:05	06/26/23 19:03	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	1.71		1	06/19/23 15:05	06/26/23 19:03	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.0	3.39		1	06/19/23 15:05	06/26/23 19:03	119-93-7	
a,a-Dimethylphenylethylamine	ND	ug/L	50.0	3.13		1	06/19/23 15:05	06/26/23 19:03	122-09-8	
1,3-Dinitrobenzene	ND	ug/L	10.0	0.359		1	06/19/23 15:05	06/26/23 19:03	99-65-0	
Diphenylamine	ND	ug/L	10.0	2.37		1	06/19/23 15:05	06/20/23 00:57	122-39-4	
Dinoseb	ND	ug/L	50.0	8.01		1	06/19/23 15:05	06/26/23 19:03	88-85-7	
Ethyl methanesulfonate	ND	ug/L	10.0	0.326		1	06/19/23 15:05	06/26/23 19:03	62-50-0	
Famphur	ND	ug/L	20.0	3.92		1	06/19/23 15:05	06/26/23 19:03	52-85-7	
Hexachloropropene	ND	ug/L	50.0	0.149		1	06/19/23 15:05	06/26/23 19:03	1888-71-7	
Hexachlorophene	ND	ug/L	50.0	1.44		1	06/19/23 15:05	06/26/23 19:03	70-30-4	
Isodrin	ND	ug/L	10.0	4.11		1	06/19/23 15:05	06/26/23 19:03	465-73-6	
Isosafrole	ND	ug/L	10.0	3.88		1	06/19/23 15:05	06/26/23 19:03	120-58-1	
Kepone	ND	ug/L	20.0	2.66		1	06/19/23 15:05	06/26/23 19:03	143-50-0	
Methapyrilene	ND	ug/L	50.0	10.0		1	06/19/23 15:05	06/26/23 19:03	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.0	0.164		1	06/19/23 15:05	06/26/23 19:03	56-49-5	
Methyl methanesulfonate	ND	ug/L	50.0	3.40		1	06/19/23 15:05	06/26/23 19:03	66-27-3	
1,4-Naphthoquinone	ND	ug/L	50.0	5.56		1	06/19/23 15:05	06/26/23 19:03	130-15-4	
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/19/23 15:05	06/26/23 19:03	134-32-7	
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/19/23 15:05	06/26/23 19:03	91-59-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Equipment Blank 3 **Lab ID: 20279949021** Collected: 06/13/23 06:55 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
5-Nitro-o-toluidine	ND	ug/L	10.0	1.99		1	06/19/23 15:05	06/26/23 19:03	99-55-8	
4-Nitroquinoline-n-oxide	ND	ug/L	10.0	2.03		1	06/19/23 15:05	06/26/23 19:03	56-57-5	
N-Nitrosodiethylamine	ND	ug/L	10.0	3.57		1	06/19/23 15:05	06/26/23 19:03	55-18-5	
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	3.91		1	06/19/23 15:05	06/26/23 19:03	924-16-3	
N-Nitrosomethylethylamine	ND	ug/L	10.0	3.25		1	06/19/23 15:05	06/26/23 19:03	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	10.0	3.25		1	06/19/23 15:05	06/26/23 19:03	59-89-2	
N-Nitrosopiperidine	ND	ug/L	10.0	3.72		1	06/19/23 15:05	06/26/23 19:03	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.0	3.39		1	06/19/23 15:05	06/26/23 19:03	930-55-2	
Pentachlorobenzene	ND	ug/L	10.0	4.15		1	06/19/23 15:05	06/26/23 19:03	608-93-5	
Pentachloronitrobenzene	ND	ug/L	10.0	4.15		1	06/19/23 15:05	06/26/23 19:03	82-68-8	
Phenacetin	ND	ug/L	10.0	4.66		1	06/19/23 15:05	06/26/23 19:03	62-44-2	
p-Phenylenediamine	ND	ug/L	6900	387		1	06/19/23 15:05	06/26/23 19:03	106-50-3	
2-Picoline	ND	ug/L	50.0	6.83		1	06/19/23 15:05	06/26/23 19:03	109-06-8	
Pronamide	ND	ug/L	10.0	4.21		1	06/19/23 15:05	06/26/23 19:03	23950-58-5	
Safrole	ND	ug/L	10.0	3.68		1	06/19/23 15:05	06/26/23 19:03	94-59-7	
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	50.0	3.99		1	06/19/23 15:05	06/26/23 19:03	3689-24-5	
Thionazin	ND	ug/L	10.0	4.07		1	06/19/23 15:05	06/26/23 19:03	297-97-2	
O-Toluidine	ND	ug/L	10.0	3.53		1	06/19/23 15:05	06/26/23 19:03	95-53-4	
1,3,5-Trinitrobenzene	ND	ug/L	10.0	1.32		1	06/19/23 15:05	06/26/23 19:03	99-35-4	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	2.93		1	06/19/23 15:05	06/26/23 19:03	126-68-1	
Surrogates										
2-Fluorophenol (S)	30.5	%	10.0-120			1	06/19/23 15:05	06/20/23 00:57	367-12-4	
Phenol-d5 (S)	23.4	%	10.0-120			1	06/19/23 15:05	06/20/23 00:57	4165-62-2	
Nitrobenzene-d5 (S)	62.8	%	10.0-127			1	06/19/23 15:05	06/20/23 00:57	4165-60-0	
2-Fluorobiphenyl (S)	68.7	%	10.0-130			1	06/19/23 15:05	06/20/23 00:57	321-60-8	
2,4,6-Tribromophenol (S)	57.5	%	10.0-155			1	06/19/23 15:05	06/20/23 00:57	118-79-6	
Terphenyl-d14 (S)	81.1	%	10.0-128			1	06/19/23 15:05	06/20/23 00:57	1718-51-0	
SVOA (LCMS) SW-846 8321	Analytical Method: EPA 8321 Preparation Method: 8321 Pace National - Mt. Juliet									
2,4-D	ND	ug/L	2.00	1.00		1	06/20/23 08:27	06/20/23 17:16	94-75-7	H1
2,4,5-T	ND	ug/L	2.00	0.573		1	06/20/23 08:27	06/20/23 17:16	93-76-5	H1
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.807		1	06/20/23 08:27	06/20/23 17:16	93-72-1	H1
Surrogates										
2,4-DB-d3 (S)	98.5	%	70.0-130			1	06/20/23 08:27	06/20/23 17:16	1219802-46-	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Equipment Blank 3 **Lab ID: 20279949021** Collected: 06/13/23 06:55 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	06/17/23 18:46	06/17/23 18:46	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	06/17/23 18:46	06/17/23 18:46	107-02-8	
Acrylonitrile	ND	ug/L	10.0	0.671		1	06/17/23 18:46	06/17/23 18:46	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	06/17/23 18:46	06/17/23 18:46	107-05-1	
Benzene	ND	ug/L	1.00	0.0941		1	06/17/23 18:46	06/17/23 18:46	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	06/17/23 18:46	06/17/23 18:46	75-27-4	
Bromoform	ND	ug/L	1.00	0.129		1	06/17/23 18:46	06/17/23 18:46	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	06/17/23 18:46	06/17/23 18:46	74-83-9	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	06/17/23 18:46	06/17/23 18:46	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	06/17/23 18:46	06/17/23 18:46	56-23-5	
Chlorobenzene	**0.138J**	ug/L	1.00	0.116		1	06/17/23 18:46	06/17/23 18:46	108-90-7	J
Dibromochloromethane	ND	ug/L	1.00	0.140		1	06/17/23 18:46	06/17/23 18:46	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192		1	06/17/23 18:46	06/17/23 18:46	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	06/17/23 18:46	06/17/23 18:46	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	06/17/23 18:46	06/17/23 18:46	74-87-3	
Dibromomethane	ND	ug/L	1.00	0.122		1	06/17/23 18:46	06/17/23 18:46	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	06/17/23 18:46	06/17/23 18:46	95-50-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	06/17/23 18:46	06/17/23 18:46	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	06/17/23 18:46	06/17/23 18:46	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	06/17/23 18:46	06/17/23 18:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	06/17/23 18:46	06/17/23 18:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	06/17/23 18:46	06/17/23 18:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	06/17/23 18:46	06/17/23 18:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	06/17/23 18:46	06/17/23 18:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	06/17/23 18:46	06/17/23 18:46	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	06/17/23 18:46	06/17/23 18:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	06/17/23 18:46	06/17/23 18:46	10061-02-6	
Ethylbenzene	ND	ug/L	1.00	0.173		1	06/17/23 18:46	06/17/23 18:46	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.787		1	06/17/23 18:46	06/17/23 18:46	591-78-6	
Iodomethane	ND	ug/L	10.0	6.00		1	06/17/23 18:46	06/17/23 18:46	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	06/17/23 18:46	06/17/23 18:46	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430		1	06/17/23 18:46	06/17/23 18:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	06/17/23 18:46	06/17/23 18:46	108-10-1	
Styrene	ND	ug/L	1.00	0.118		1	06/17/23 18:46	06/17/23 18:46	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	06/17/23 18:46	06/17/23 18:46	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	06/17/23 18:46	06/17/23 18:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	06/17/23 18:46	06/17/23 18:46	127-18-4	
Toluene	ND	ug/L	1.00	0.278		1	06/17/23 18:46	06/17/23 18:46	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	06/17/23 18:46	06/17/23 18:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	06/17/23 18:46	06/17/23 18:46	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190		1	06/17/23 18:46	06/17/23 18:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	06/17/23 18:46	06/17/23 18:46	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	06/17/23 18:46	06/17/23 18:46	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	06/17/23 18:46	06/17/23 18:46	108-05-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Equipment Blank 3 **Lab ID: 20279949021** Collected: 06/13/23 06:55 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Vinyl chloride	ND	ug/L	1.00	0.234		1	06/17/23 18:46	06/17/23 18:46	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	06/17/23 18:46	06/17/23 18:46	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	06/17/23 18:46	06/17/23 18:46	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	06/17/23 18:46	06/17/23 18:46	1330-20-7	
Acetonitrile	ND	ug/L	50.0	24.0		1	06/21/23 15:57	06/21/23 15:57	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	06/21/23 15:57	06/21/23 15:57	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	06/21/23 15:57	06/21/23 15:57	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	06/22/23 17:08	06/22/23 17:08	78-83-1	
Methacrylonitrile	ND	ug/L	50.0	14.2		1	06/21/23 15:57	06/21/23 15:57	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	06/21/23 15:57	06/21/23 15:57	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	06/21/23 15:57	06/21/23 15:57	76-01-7	
Propionitrile	ND	ug/L	50.0	16.2		1	06/21/23 15:57	06/21/23 15:57	107-12-0	
Surrogates										
Toluene-d8 (S)	100	%	80.0-120			1	06/17/23 18:46	06/17/23 18:46	2037-26-5	
Toluene-d8 (S)	93.9	%	80.0-120			1	06/21/23 15:57	06/21/23 15:57	2037-26-5	
Toluene-d8 (S)	107	%	80.0-120			1	06/22/23 17:08	06/22/23 17:08	2037-26-5	
1,2-Dichloroethane-d4 (S)	108	%	70.0-130			1	06/17/23 18:46	06/17/23 18:46	17060-07-0	
1,2-Dichloroethane-d4 (S)	129	%	70.0-130			1	06/21/23 15:57	06/21/23 15:57	17060-07-0	
1,2-Dichloroethane-d4 (S)	110	%	70.0-130			1	06/22/23 17:08	06/22/23 17:08	17060-07-0	
4-Bromofluorobenzene (S)	88.1	%	77.0-126			1	06/17/23 18:46	06/17/23 18:46	460-00-4	
4-Bromofluorobenzene (S)	89.4	%	77.0-126			1	06/21/23 15:57	06/21/23 15:57	460-00-4	
4-Bromofluorobenzene (S)	103	%	77.0-126			1	06/22/23 17:08	06/22/23 17:08	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012		1		06/20/23 09:30	18496-25-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay									
Cyanide	ND	mg/L	0.023	0.0069		1	06/26/23 08:00	06/26/23 10:34	57-12-5	
420.1 Phenolics, Total	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - New Orleans									
Phenolics, Total Recoverable	**0.017J**	mg/L	0.020	0.0093		1	07/06/23 10:15	07/06/23 14:50	64743-03-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Equipment Blank 4 **Lab ID: 20279949022** Collected: 06/13/23 14:00 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/16/23 05:32	06/17/23 01:51	309-00-2	
alpha-BHC	ND	ug/L	0.0500	0.0172		1	06/16/23 05:32	06/17/23 01:51	319-84-6	
beta-BHC	ND	ug/L	0.0500	0.0208		1	06/16/23 05:32	06/17/23 01:51	319-85-7	
delta-BHC	ND	ug/L	0.0500	0.0150		1	06/16/23 05:32	06/17/23 01:51	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.0500	0.0209		1	06/16/23 05:32	06/17/23 01:51	58-89-9	
Chlordane (Technical)	ND	ug/L	5.00	0.0198		1	06/16/23 05:32	06/17/23 01:51	57-74-9	
4,4'-DDD	ND	ug/L	0.0500	0.0177		1	06/16/23 05:32	06/17/23 01:51	72-54-8	
4,4'-DDE	ND	ug/L	0.0500	0.0154		1	06/16/23 05:32	06/17/23 01:51	72-55-9	
4,4'-DDT	ND	ug/L	0.0500	0.0198		1	06/16/23 05:32	06/17/23 01:51	50-29-3	
Dieldrin	ND	ug/L	0.0500	0.0162		1	06/16/23 05:32	06/17/23 01:51	60-57-1	
Endosulfan I	ND	ug/L	0.0500	0.0160		1	06/16/23 05:32	06/17/23 01:51	959-98-8	
Endosulfan II	ND	ug/L	0.0500	0.0164		1	06/16/23 05:32	06/17/23 01:51	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.0500	0.0217		1	06/16/23 05:32	06/17/23 01:51	1031-07-8	
Endrin	ND	ug/L	0.0500	0.0161		1	06/16/23 05:32	06/17/23 01:51	72-20-8	
Endrin aldehyde	ND	ug/L	0.0500	0.0237		1	06/16/23 05:32	06/17/23 01:51	7421-93-4	
Endrin ketone	ND	ug/L	0.0500	0.0219		1	06/16/23 05:32	06/17/23 01:51	53494-70-5	
Hexachlorobenzene	ND	ug/L	0.0500	0.0176		1	06/16/23 05:32	06/17/23 01:51	118-74-1	
Heptachlor	ND	ug/L	0.0500	0.0148		1	06/16/23 05:32	06/17/23 01:51	76-44-8	
Heptachlor epoxide	ND	ug/L	0.0500	0.0183		1	06/16/23 05:32	06/17/23 01:51	1024-57-3	
Methoxychlor	ND	ug/L	0.0500	0.0193		1	06/16/23 05:32	06/17/23 01:51	72-43-5	
Toxaphene	ND	ug/L	0.500	0.168		1	06/16/23 05:32	06/17/23 01:51	8001-35-2	
Surrogates										
Decachlorobiphenyl (S)	15.8	%	10.0-128			1	06/16/23 05:32	06/17/23 01:51	2051-24-3	
Tetrachloro-m-xylene (S)	71.7	%	10.0-127			1	06/16/23 05:32	06/17/23 01:51	877-09-8	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00034		1	06/19/23 08:18	06/20/23 20:46	7440-36-0	
Arsenic	ND	mg/L	0.0010	0.00010		1	06/19/23 08:18	06/20/23 20:46	7440-38-2	
Barium	ND	mg/L	0.0010	0.00064		1	06/19/23 08:18	06/20/23 20:46	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00021		1	06/19/23 08:18	06/20/23 20:46	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.00019		1	06/19/23 08:18	06/20/23 20:46	7440-43-9	
Chromium	ND	mg/L	0.0010	0.00063		1	06/19/23 08:18	06/20/23 20:46	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.00012		1	06/19/23 08:18	06/20/23 20:46	7440-48-4	
Copper	ND	mg/L	0.0030	0.0017		1	06/19/23 08:18	06/20/23 20:46	7440-50-8	
Lead	ND	mg/L	0.0010	0.00069		1	06/19/23 08:18	06/20/23 20:46	7439-92-1	
Nickel	**0.0015**	mg/L	0.0010	0.00062		1	06/19/23 08:18	06/20/23 20:46	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00026		1	06/19/23 08:18	06/20/23 20:46	7782-49-2	
Silver	ND	mg/L	0.00050	0.00020		1	06/19/23 08:18	06/20/23 20:46	7440-22-4	
Thallium	ND	mg/L	0.00050	0.00011		1	06/19/23 08:18	06/20/23 20:46	7440-28-0	
Tin	ND	mg/L	0.0060	0.00065		1	06/19/23 08:18	06/20/23 20:46	7440-31-5	
Vanadium	ND	mg/L	0.0050	0.00023		1	06/19/23 08:18	06/20/23 20:46	7440-62-2	
Zinc	ND	mg/L	0.010	0.0072		1	06/19/23 08:18	06/20/23 20:46	7440-66-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Equipment Blank 4 **Lab ID: 20279949022** Collected: 06/13/23 14:00 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/16/23 09:00	06/20/23 15:40	7439-97-6	
SVOA (GC/MS) 8270 C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.218J**	ug/L	0.400	0.0447		1	06/20/23 20:51	06/21/23 05:57	123-91-1	B,J
Surrogates										
Nitrobenzene-d5 (S)	29.2	%	10.0-120			1	06/20/23 20:51	06/21/23 05:57	4165-60-0	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	ND	ug/L	1.00	0.0886		1	06/19/23 15:05	06/20/23 01:18	83-32-9	
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/19/23 15:05	06/20/23 01:18	208-96-8	
Acetophenone	ND	ug/L	10.0	0.208		1	06/19/23 15:05	06/20/23 01:18	98-86-2	
Aniline	ND	ug/L	10.0	1.65		1	06/19/23 15:05	06/20/23 01:18	62-53-3	R1
Anthracene	ND	ug/L	1.00	0.0804		1	06/19/23 15:05	06/20/23 01:18	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/19/23 15:05	06/20/23 01:18	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/19/23 15:05	06/20/23 01:18	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/19/23 15:05	06/20/23 01:18	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/19/23 15:05	06/20/23 01:18	191-24-2	
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/19/23 15:05	06/20/23 01:18	50-32-8	
Benzyl alcohol	ND	ug/L	10.0	0.563		1	06/19/23 15:05	06/20/23 01:18	100-51-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.116		1	06/19/23 15:05	06/20/23 01:18	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	0.137		1	06/19/23 15:05	06/20/23 01:18	111-44-4	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	0.210		1	06/19/23 15:05	06/20/23 01:18	108-60-1	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.0877		1	06/19/23 15:05	06/20/23 01:18	101-55-3	
4-Chloroaniline	ND	ug/L	10.0	0.234		1	06/19/23 15:05	06/20/23 01:18	106-47-8	
2-Chloronaphthalene	ND	ug/L	1.00	0.0648		1	06/19/23 15:05	06/20/23 01:18	91-58-7	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.0926		1	06/19/23 15:05	06/20/23 01:18	7005-72-3	
Chrysene	ND	ug/L	1.00	0.130		1	06/19/23 15:05	06/20/23 01:18	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.00	0.0644		1	06/19/23 15:05	06/20/23 01:18	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/19/23 15:05	06/20/23 01:18	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.0713		1	06/19/23 15:05	06/20/23 01:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.132		1	06/19/23 15:05	06/20/23 01:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.0942		1	06/19/23 15:05	06/20/23 01:18	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10.0	0.212		1	06/19/23 15:05	06/20/23 01:18	91-94-1	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.0983		1	06/19/23 15:05	06/20/23 01:18	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.250		1	06/19/23 15:05	06/20/23 01:18	606-20-2	
Fluoranthene	ND	ug/L	1.00	0.102		1	06/19/23 15:05	06/20/23 01:18	206-44-0	
Fluorene	ND	ug/L	1.00	0.0844		1	06/19/23 15:05	06/20/23 01:18	86-73-7	
Hexachlorobenzene	ND	ug/L	1.00	0.0755		1	06/19/23 15:05	06/20/23 01:18	118-74-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.0968		1	06/19/23 15:05	06/20/23 01:18	87-68-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Equipment Blank 4 **Lab ID: 20279949022** Collected: 06/13/23 14:00 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.0598		1	06/19/23 15:05	06/20/23 01:18	77-47-4	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/19/23 15:05	06/20/23 01:18	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/19/23 15:05	06/20/23 01:18	193-39-5	
Isophorone	ND	ug/L	10.0	0.143		1	06/19/23 15:05	06/20/23 01:18	78-59-1	
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/19/23 15:05	06/20/23 01:18	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/19/23 15:05	06/20/23 01:18	91-57-6	
2-Nitroaniline	ND	ug/L	10.0	0.102		1	06/19/23 15:05	06/20/23 01:18	88-74-4	
3-Nitroaniline	ND	ug/L	10.0	0.0869		1	06/19/23 15:05	06/20/23 01:18	99-09-2	
4-Nitroaniline	ND	ug/L	10.0	0.0910		1	06/19/23 15:05	06/20/23 01:18	100-01-6	
Naphthalene	ND	ug/L	1.00	0.159		1	06/19/23 15:05	06/20/23 01:18	91-20-3	
Nitrobenzene	ND	ug/L	10.0	0.297		1	06/19/23 15:05	06/20/23 01:18	98-95-3	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.998		1	06/19/23 15:05	06/20/23 01:18	62-75-9	
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/19/23 15:05	06/20/23 01:18	86-30-6	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.261		1	06/19/23 15:05	06/20/23 01:18	621-64-7	
Phenanthrene	ND	ug/L	1.00	0.112		1	06/19/23 15:05	06/20/23 01:18	85-01-8	
Pyridine	ND	ug/L	10.0	0.627		1	06/19/23 15:05	06/20/23 01:18	110-86-1	L0,R1
Butylbenzylphthalate	ND	ug/L	3.00	0.765		1	06/19/23 15:05	06/20/23 01:18	85-68-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/19/23 15:05	06/20/23 01:18	117-81-7	
Di-n-butylphthalate	ND	ug/L	3.00	0.453		1	06/19/23 15:05	06/20/23 01:18	84-74-2	
Diethylphthalate	**0.944J**	ug/L	3.00	0.287		1	06/19/23 15:05	06/20/23 01:18	84-66-2	B,J
Dimethylphthalate	ND	ug/L	3.00	0.260		1	06/19/23 15:05	06/20/23 01:18	131-11-3	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/19/23 15:05	06/20/23 01:18	117-84-0	
Pyrene	ND	ug/L	1.00	0.107		1	06/19/23 15:05	06/20/23 01:18	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	0.0647		1	06/19/23 15:05	06/20/23 01:18	95-94-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.0698		1	06/19/23 15:05	06/20/23 01:18	120-82-1	
4-Chloro-3-methylphenol	ND	ug/L	10.0	0.131		1	06/19/23 15:05	06/20/23 01:18	59-50-7	
2-Chlorophenol	ND	ug/L	10.0	0.133		1	06/19/23 15:05	06/20/23 01:18	95-57-8	
2,4-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/19/23 15:05	06/20/23 01:18	120-83-2	
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/19/23 15:05	06/20/23 01:18	105-67-9	
4,6-Dinitro-2-methylphenol	ND	ug/L	10.0	1.12		1	06/19/23 15:05	06/20/23 01:18	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10.0	5.93		1	06/19/23 15:05	06/20/23 01:18	51-28-5	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	0.0929		1	06/19/23 15:05	06/20/23 01:18	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/19/23 15:05	06/20/23 01:18		
2-Nitrophenol	ND	ug/L	10.0	0.117		1	06/19/23 15:05	06/20/23 01:18	88-75-5	
4-Nitrophenol	ND	ug/L	10.0	0.143		1	06/19/23 15:05	06/20/23 01:18	100-02-7	
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/19/23 15:05	06/20/23 01:18	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/19/23 15:05	06/20/23 01:18	108-95-2	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	0.231		1	06/19/23 15:05	06/20/23 01:18	58-90-2	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.109		1	06/19/23 15:05	06/20/23 01:18	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	0.100		1	06/19/23 15:05	06/20/23 01:18	88-06-2	
2-Acetylaminofluorene	ND	ug/L	10.0	0.253		1	06/19/23 15:05	06/26/23 19:25	53-96-3	
4-Aminobiphenyl	ND	ug/L	10.0	0.461		1	06/19/23 15:05	06/26/23 19:25	92-67-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Equipment Blank 4 **Lab ID: 20279949022** Collected: 06/13/23 14:00 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Aramite	ND	ug/L	50.0	16.7		1	06/19/23 15:05	06/26/23 19:25	140-57-8	
Chlorobenzilate	ND	ug/L	50.0	3.84		1	06/19/23 15:05	06/26/23 19:25	510-15-6	
Diallate	ND	ug/L	10.0	0.524		1	06/19/23 15:05	06/26/23 19:25	2303-16-4	
2,6-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/19/23 15:05	06/26/23 19:25	87-65-0	
Dimethoate	ND	ug/L	50.0	5.05		1	06/19/23 15:05	06/26/23 19:25	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	10.0	3.69		1	06/19/23 15:05	06/26/23 19:25	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	1.71		1	06/19/23 15:05	06/26/23 19:25	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.0	3.39		1	06/19/23 15:05	06/26/23 19:25	119-93-7	
a,a-Dimethylphenylethylamine	ND	ug/L	50.0	3.13		1	06/19/23 15:05	06/26/23 19:25	122-09-8	
1,3-Dinitrobenzene	ND	ug/L	10.0	0.359		1	06/19/23 15:05	06/26/23 19:25	99-65-0	
Diphenylamine	ND	ug/L	10.0	2.37		1	06/19/23 15:05	06/20/23 01:18	122-39-4	
Dinoseb	ND	ug/L	50.0	8.01		1	06/19/23 15:05	06/26/23 19:25	88-85-7	
Ethyl methanesulfonate	ND	ug/L	10.0	0.326		1	06/19/23 15:05	06/26/23 19:25	62-50-0	
Famphur	ND	ug/L	20.0	3.92		1	06/19/23 15:05	06/26/23 19:25	52-85-7	
Hexachloropropene	ND	ug/L	50.0	0.149		1	06/19/23 15:05	06/26/23 19:25	1888-71-7	
Hexachlorophene	ND	ug/L	50.0	1.44		1	06/19/23 15:05	06/26/23 19:25	70-30-4	
Isodrin	ND	ug/L	10.0	4.11		1	06/19/23 15:05	06/26/23 19:25	465-73-6	
Isosafrole	ND	ug/L	10.0	3.88		1	06/19/23 15:05	06/26/23 19:25	120-58-1	
Kepone	ND	ug/L	20.0	2.66		1	06/19/23 15:05	06/26/23 19:25	143-50-0	
Methapyrilene	ND	ug/L	50.0	10.0		1	06/19/23 15:05	06/26/23 19:25	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.0	0.164		1	06/19/23 15:05	06/26/23 19:25	56-49-5	
Methyl methanesulfonate	ND	ug/L	50.0	3.40		1	06/19/23 15:05	06/26/23 19:25	66-27-3	
1,4-Naphthoquinone	ND	ug/L	50.0	5.56		1	06/19/23 15:05	06/26/23 19:25	130-15-4	
1-Naphthalenamine	ND	ug/L	10.0	0.289		1	06/19/23 15:05	06/26/23 19:25	134-32-7	
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/19/23 15:05	06/26/23 19:25	91-59-8	
5-Nitro-o-toluidine	ND	ug/L	10.0	1.99		1	06/19/23 15:05	06/26/23 19:25	99-55-8	
4-Nitroquinoline-n-oxide	ND	ug/L	10.0	2.03		1	06/19/23 15:05	06/26/23 19:25	56-57-5	
N-Nitrosodiethylamine	ND	ug/L	10.0	3.57		1	06/19/23 15:05	06/26/23 19:25	55-18-5	
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	3.91		1	06/19/23 15:05	06/26/23 19:25	924-16-3	
N-Nitrosomethylethylamine	ND	ug/L	10.0	3.25		1	06/19/23 15:05	06/26/23 19:25	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	10.0	3.25		1	06/19/23 15:05	06/26/23 19:25	59-89-2	
N-Nitrosopiperidine	ND	ug/L	10.0	3.72		1	06/19/23 15:05	06/26/23 19:25	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.0	3.39		1	06/19/23 15:05	06/26/23 19:25	930-55-2	
Pentachlorobenzene	ND	ug/L	10.0	4.15		1	06/19/23 15:05	06/26/23 19:25	608-93-5	
Pentachloronitrobenzene	ND	ug/L	10.0	4.15		1	06/19/23 15:05	06/26/23 19:25	82-68-8	
Phenacetin	ND	ug/L	10.0	4.66		1	06/19/23 15:05	06/26/23 19:25	62-44-2	
p-Phenylenediamine	ND	ug/L	6900	387		1	06/19/23 15:05	06/26/23 19:25	106-50-3	
2-Picoline	ND	ug/L	50.0	6.83		1	06/19/23 15:05	06/26/23 19:25	109-06-8	
Pronamide	ND	ug/L	10.0	4.21		1	06/19/23 15:05	06/26/23 19:25	23950-58-5	
Safrole	ND	ug/L	10.0	3.68		1	06/19/23 15:05	06/26/23 19:25	94-59-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Equipment Blank 4 **Lab ID: 20279949022** Collected: 06/13/23 14:00 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	50.0	3.99		1	06/19/23 15:05	06/26/23 19:25	3689-24-5	
Thionazin	ND	ug/L	10.0	4.07		1	06/19/23 15:05	06/26/23 19:25	297-97-2	
O-Toluidine	ND	ug/L	10.0	3.53		1	06/19/23 15:05	06/26/23 19:25	95-53-4	
1,3,5-Trinitrobenzene	ND	ug/L	10.0	1.32		1	06/19/23 15:05	06/26/23 19:25	99-35-4	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	2.93		1	06/19/23 15:05	06/26/23 19:25	126-68-1	
Surrogates										
2-Fluorophenol (S)	20.9	%	10.0-120			1	06/19/23 15:05	06/20/23 01:18	367-12-4	
Phenol-d5 (S)	16.6	%	10.0-120			1	06/19/23 15:05	06/20/23 01:18	4165-62-2	
Nitrobenzene-d5 (S)	54.2	%	10.0-127			1	06/19/23 15:05	06/20/23 01:18	4165-60-0	
2-Fluorobiphenyl (S)	64.2	%	10.0-130			1	06/19/23 15:05	06/20/23 01:18	321-60-8	
2,4,6-Tribromophenol (S)	56.0	%	10.0-155			1	06/19/23 15:05	06/20/23 01:18	118-79-6	
Terphenyl-d14 (S)	78.9	%	10.0-128			1	06/19/23 15:05	06/20/23 01:18	1718-51-0	
SVOA (LCMS) SW-846 8321	Analytical Method: EPA 8321 Preparation Method: 8321 Pace National - Mt. Juliet									
2,4-D	ND	ug/L	2.00	1.00		1	06/20/23 08:27	06/20/23 17:34	94-75-7	
2,4,5-T	ND	ug/L	2.00	0.573		1	06/20/23 08:27	06/20/23 17:34	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.807		1	06/20/23 08:27	06/20/23 17:34	93-72-1	
Surrogates										
2,4-DB-d3 (S)	101	%	70.0-130			1	06/20/23 08:27	06/20/23 17:34	1219802-46-	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	06/17/23 19:06	06/17/23 19:06	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	06/17/23 19:06	06/17/23 19:06	107-02-8	
Acrylonitrile	ND	ug/L	10.0	0.671		1	06/17/23 19:06	06/17/23 19:06	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	06/17/23 19:06	06/17/23 19:06	107-05-1	
Benzene	ND	ug/L	1.00	0.0941		1	06/17/23 19:06	06/17/23 19:06	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	06/17/23 19:06	06/17/23 19:06	75-27-4	
Bromoform	ND	ug/L	1.00	0.129		1	06/17/23 19:06	06/17/23 19:06	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	06/17/23 19:06	06/17/23 19:06	74-83-9	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	06/17/23 19:06	06/17/23 19:06	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	06/17/23 19:06	06/17/23 19:06	56-23-5	
Chlorobenzene	**0.121J**	ug/L	1.00	0.116		1	06/17/23 19:06	06/17/23 19:06	108-90-7	J
Dibromochloromethane	ND	ug/L	1.00	0.140		1	06/17/23 19:06	06/17/23 19:06	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192		1	06/17/23 19:06	06/17/23 19:06	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	06/17/23 19:06	06/17/23 19:06	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	06/17/23 19:06	06/17/23 19:06	74-87-3	
Dibromomethane	ND	ug/L	1.00	0.122		1	06/17/23 19:06	06/17/23 19:06	74-95-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Equipment Blank 4 **Lab ID: 20279949022** Collected: 06/13/23 14:00 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	06/17/23 19:06	06/17/23 19:06	95-50-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	06/17/23 19:06	06/17/23 19:06	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	06/17/23 19:06	06/17/23 19:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	06/17/23 19:06	06/17/23 19:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	06/17/23 19:06	06/17/23 19:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	06/17/23 19:06	06/17/23 19:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	06/17/23 19:06	06/17/23 19:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	06/17/23 19:06	06/17/23 19:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	06/17/23 19:06	06/17/23 19:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	06/17/23 19:06	06/17/23 19:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	06/17/23 19:06	06/17/23 19:06	10061-02-6	
Ethylbenzene	ND	ug/L	1.00	0.173		1	06/17/23 19:06	06/17/23 19:06	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.787		1	06/17/23 19:06	06/17/23 19:06	591-78-6	
Iodomethane	ND	ug/L	10.0	6.00		1	06/17/23 19:06	06/17/23 19:06	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	06/17/23 19:06	06/17/23 19:06	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430		1	06/17/23 19:06	06/17/23 19:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	06/17/23 19:06	06/17/23 19:06	108-10-1	
Styrene	ND	ug/L	1.00	0.118		1	06/17/23 19:06	06/17/23 19:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	06/17/23 19:06	06/17/23 19:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	06/17/23 19:06	06/17/23 19:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	06/17/23 19:06	06/17/23 19:06	127-18-4	
Toluene	ND	ug/L	1.00	0.278		1	06/17/23 19:06	06/17/23 19:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	06/17/23 19:06	06/17/23 19:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	06/17/23 19:06	06/17/23 19:06	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190		1	06/17/23 19:06	06/17/23 19:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	06/17/23 19:06	06/17/23 19:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	06/17/23 19:06	06/17/23 19:06	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	06/17/23 19:06	06/17/23 19:06	108-05-4	
Vinyl chloride	ND	ug/L	1.00	0.234		1	06/17/23 19:06	06/17/23 19:06	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	06/17/23 19:06	06/17/23 19:06	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	06/17/23 19:06	06/17/23 19:06	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	06/17/23 19:06	06/17/23 19:06	1330-20-7	
Acetonitrile	ND	ug/L	50.0	24.0		1	06/21/23 16:43	06/21/23 16:43	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	06/21/23 16:43	06/21/23 16:43	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	06/21/23 16:43	06/21/23 16:43	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	06/22/23 17:29	06/22/23 17:29	78-83-1	
Methacrylonitrile	ND	ug/L	50.0	14.2		1	06/21/23 16:43	06/21/23 16:43	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	06/21/23 16:43	06/21/23 16:43	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	06/21/23 16:43	06/21/23 16:43	76-01-7	
Propionitrile	ND	ug/L	50.0	16.2		1	06/21/23 16:43	06/21/23 16:43	107-12-0	
Surrogates										
Toluene-d8 (S)	103	%	80.0-120			1	06/17/23 19:06	06/17/23 19:06	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Equipment Blank 4 **Lab ID: 20279949022** Collected: 06/13/23 14:00 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B		Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet								
Surrogates										
Toluene-d8 (S)	98.9	%	80.0-120			1	06/21/23 16:43	06/21/23 16:43	2037-26-5	
Toluene-d8 (S)	109	%	80.0-120			1	06/22/23 17:29	06/22/23 17:29	2037-26-5	
1,2-Dichloroethane-d4 (S)	112	%	70.0-130			1	06/17/23 19:06	06/17/23 19:06	17060-07-0	
1,2-Dichloroethane-d4 (S)	130	%	70.0-130			1	06/21/23 16:43	06/21/23 16:43	17060-07-0	
1,2-Dichloroethane-d4 (S)	110	%	70.0-130			1	06/22/23 17:29	06/22/23 17:29	17060-07-0	
4-Bromofluorobenzene (S)	93.8	%	77.0-126			1	06/17/23 19:06	06/17/23 19:06	460-00-4	
4-Bromofluorobenzene (S)	88.9	%	77.0-126			1	06/21/23 16:43	06/21/23 16:43	460-00-4	
4-Bromofluorobenzene (S)	104	%	77.0-126			1	06/22/23 17:29	06/22/23 17:29	460-00-4	
4500S2D Sulfide, Total		Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans								
Sulfide, Total	ND	mg/L	0.020	0.012		1		06/20/23 09:43	18496-25-8	
335.4 Cyanide, Total		Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay								
Cyanide	ND	mg/L	0.023	0.0069		1	06/26/23 08:00	06/26/23 10:37	57-12-5	
420.1 Phenolics, Total		Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - New Orleans								
Phenolics, Total Recoverable	**0.013J**	mg/L	0.020	0.0093		1	07/06/23 10:15	07/06/23 14:50	64743-03-9	

Sample: Field Dup 1 **Lab ID: 20279949025** Collected: 06/12/23 09:30 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081		Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet								
Aldrin	ND	ug/L	0.0715	0.0283		1.43	06/15/23 22:21	06/16/23 14:49	309-00-2	
alpha-BHC	ND	ug/L	0.0715	0.0246		1.43	06/15/23 22:21	06/16/23 14:49	319-84-6	
beta-BHC	ND	ug/L	0.0715	0.0297		1.43	06/15/23 22:21	06/16/23 14:49	319-85-7	
delta-BHC	ND	ug/L	0.0715	0.0215		1.43	06/15/23 22:21	06/16/23 14:49	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.0715	0.0299		1.43	06/15/23 22:21	06/16/23 14:49	58-89-9	
Chlordane (Technical)	ND	ug/L	7.15	0.0283		1.43	06/15/23 22:21	06/16/23 14:49	57-74-9	
4,4'-DDD	ND	ug/L	0.0715	0.0253		1.43	06/15/23 22:21	06/16/23 14:49	72-54-8	
4,4'-DDE	ND	ug/L	0.0715	0.0220		1.43	06/15/23 22:21	06/16/23 14:49	72-55-9	
4,4'-DDT	ND	ug/L	0.0715	0.0283		1.43	06/15/23 22:21	06/16/23 14:49	50-29-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Field Dup 1 **Lab ID: 20279949025** Collected: 06/12/23 09:30 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Dieldrin	ND	ug/L	0.0715	0.0232		1.43	06/15/23 22:21	06/16/23 14:49	60-57-1	
Endosulfan I	ND	ug/L	0.0715	0.0229		1.43	06/15/23 22:21	06/16/23 14:49	959-98-8	
Endosulfan II	ND	ug/L	0.0715	0.0235		1.43	06/15/23 22:21	06/16/23 14:49	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.0715	0.0310		1.43	06/15/23 22:21	06/16/23 14:49	1031-07-8	
Endrin	ND	ug/L	0.0715	0.0230		1.43	06/15/23 22:21	06/16/23 14:49	72-20-8	
Endrin aldehyde	ND	ug/L	0.0715	0.0339		1.43	06/15/23 22:21	06/16/23 14:49	7421-93-4	
Endrin ketone	ND	ug/L	0.0715	0.0313		1.43	06/15/23 22:21	06/16/23 14:49	53494-70-5	
Hexachlorobenzene	ND	ug/L	0.0715	0.0252		1.43	06/15/23 22:21	06/16/23 14:49	118-74-1	
Heptachlor	ND	ug/L	0.0715	0.0212		1.43	06/15/23 22:21	06/16/23 14:49	76-44-8	
Heptachlor epoxide	ND	ug/L	0.0715	0.0262		1.43	06/15/23 22:21	06/16/23 14:49	1024-57-3	
Methoxychlor	ND	ug/L	0.0715	0.0276		1.43	06/15/23 22:21	06/16/23 14:49	72-43-5	
Toxaphene	ND	ug/L	0.715	0.240		1.43	06/15/23 22:21	06/16/23 14:49	8001-35-2	
Surrogates										
Decachlorobiphenyl (S)	37.3	%	10.0-128			1.43	06/15/23 22:21	06/16/23 14:49	2051-24-3	
Tetrachloro-m-xylene (S)	31.5	%	10.0-127			1.43	06/15/23 22:21	06/16/23 14:49	877-09-8	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0010	0.00034		1	06/15/23 06:33	06/20/23 19:01	7440-36-0	
Arsenic	**0.00022J**	mg/L	0.0010	0.00010		1	06/15/23 06:33	06/20/23 19:01	7440-38-2	
Barium	**0.29**	mg/L	0.0010	0.00064		1	06/15/23 06:33	06/20/23 19:01	7440-39-3	
Beryllium	ND	mg/L	0.0010	0.00021		1	06/15/23 06:33	06/20/23 19:01	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.00019		1	06/15/23 06:33	06/20/23 19:01	7440-43-9	
Chromium	**0.0023**	mg/L	0.0010	0.00063		1	06/15/23 06:33	06/20/23 19:01	7440-47-3	
Cobalt	**0.00030J**	mg/L	0.0010	0.00012		1	06/15/23 06:33	06/20/23 19:01	7440-48-4	
Copper	ND	mg/L	0.0030	0.0017		1	06/15/23 06:33	06/20/23 19:01	7440-50-8	
Lead	**0.00081J**	mg/L	0.0010	0.00069		1	06/15/23 06:33	06/20/23 19:01	7439-92-1	
Nickel	**0.00077J**	mg/L	0.0010	0.00062		1	06/15/23 06:33	06/20/23 19:01	7440-02-0	
Selenium	ND	mg/L	0.0010	0.00026		1	06/15/23 06:33	06/20/23 19:01	7782-49-2	
Silver	ND	mg/L	0.00050	0.00020		1	06/15/23 06:33	06/20/23 19:01	7440-22-4	
Thallium	ND	mg/L	0.00050	0.00011		1	06/15/23 06:33	06/20/23 19:01	7440-28-0	
Tin	ND	mg/L	0.0060	0.00065		1	06/15/23 06:33	06/20/23 19:01	7440-31-5	
Vanadium	**0.0012J**	mg/L	0.0050	0.00023		1	06/15/23 06:33	06/20/23 19:01	7440-62-2	
Zinc	ND	mg/L	0.010	0.0072		1	06/15/23 06:33	06/20/23 19:01	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/16/23 09:00	06/20/23 15:42	7439-97-6	
SVOA (GC/MS) 8270 C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	**0.309J**	ug/L	0.400	0.0447		1	06/22/23 15:40	06/23/23 18:57	123-91-1	B,H1,J

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Field Dup 1 **Lab ID: 20279949025** Collected: 06/12/23 09:30 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270 C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
Surrogates										
Nitrobenzene-d5 (S)	54.8	%	10.0-120			1	06/22/23 15:40	06/23/23 18:57	4165-60-0	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	**11.4**	ug/L	1.00	0.0886		1	06/17/23 06:33	06/18/23 00:05	83-32-9	
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/17/23 06:33	06/18/23 00:05	208-96-8	
Acetophenone	ND	ug/L	10.0	0.208		1	06/17/23 06:33	06/18/23 00:05	98-86-2	
Aniline	ND	ug/L	10.0	1.65		1	06/17/23 06:33	06/18/23 00:05	62-53-3	R1
Anthracene	ND	ug/L	1.00	0.0804		1	06/17/23 06:33	06/18/23 00:05	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/17/23 06:33	06/18/23 00:05	56-55-3	
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/17/23 06:33	06/18/23 00:05	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/17/23 06:33	06/18/23 00:05	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/17/23 06:33	06/18/23 00:05	191-24-2	
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/17/23 06:33	06/18/23 00:05	50-32-8	
Benzyl alcohol	ND	ug/L	10.0	0.563		1	06/17/23 06:33	06/18/23 00:05	100-51-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.116		1	06/17/23 06:33	06/18/23 00:05	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	0.137		1	06/17/23 06:33	06/18/23 00:05	111-44-4	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	0.210		1	06/17/23 06:33	06/18/23 00:05	108-60-1	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.0877		1	06/17/23 06:33	06/18/23 00:05	101-55-3	
4-Chloroaniline	ND	ug/L	10.0	0.234		1	06/17/23 06:33	06/18/23 00:05	106-47-8	
2-Chloronaphthalene	ND	ug/L	1.00	0.0648		1	06/17/23 06:33	06/18/23 00:05	91-58-7	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.0926		1	06/17/23 06:33	06/18/23 00:05	7005-72-3	
Chrysene	ND	ug/L	1.00	0.130		1	06/17/23 06:33	06/18/23 00:05	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.00	0.0644		1	06/17/23 06:33	06/18/23 00:05	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/17/23 06:33	06/18/23 00:05	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.0713		1	06/17/23 06:33	06/18/23 00:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.132		1	06/17/23 06:33	06/18/23 00:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.0942		1	06/17/23 06:33	06/18/23 00:05	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10.0	0.212		1	06/17/23 06:33	06/18/23 00:05	91-94-1	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.0983		1	06/17/23 06:33	06/18/23 00:05	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.250		1	06/17/23 06:33	06/18/23 00:05	606-20-2	
Fluoranthene	ND	ug/L	1.00	0.102		1	06/17/23 06:33	06/18/23 00:05	206-44-0	
Fluorene	ND	ug/L	1.00	0.0844		1	06/17/23 06:33	06/18/23 00:05	86-73-7	
Hexachlorobenzene	ND	ug/L	1.00	0.0755		1	06/17/23 06:33	06/18/23 00:05	118-74-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.0968		1	06/17/23 06:33	06/18/23 00:05	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.0598		1	06/17/23 06:33	06/18/23 00:05	77-47-4	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/17/23 06:33	06/18/23 00:05	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/17/23 06:33	06/18/23 00:05	193-39-5	
Isophorone	ND	ug/L	10.0	0.143		1	06/17/23 06:33	06/18/23 00:05	78-59-1	
1-Methylnaphthalene	**7.73**	ug/L	1.00	0.0790		1	06/17/23 06:33	06/18/23 00:05	90-12-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Field Dup 1 **Lab ID: 20279949025** Collected: 06/12/23 09:30 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
2-Methylnaphthalene	**0.146J**	ug/L	1.00	0.117		1	06/17/23 06:33	06/18/23 00:05	91-57-6	J
2-Nitroaniline	ND	ug/L	10.0	0.102		1	06/17/23 06:33	06/18/23 00:05	88-74-4	
3-Nitroaniline	ND	ug/L	10.0	0.0869		1	06/17/23 06:33	06/18/23 00:05	99-09-2	
4-Nitroaniline	ND	ug/L	10.0	0.0910		1	06/17/23 06:33	06/18/23 00:05	100-01-6	
Naphthalene	ND	ug/L	1.00	0.159		1	06/17/23 06:33	06/18/23 00:05	91-20-3	
Nitrobenzene	ND	ug/L	10.0	0.297		1	06/17/23 06:33	06/18/23 00:05	98-95-3	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.998		1	06/17/23 06:33	06/18/23 00:05	62-75-9	
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/17/23 06:33	06/18/23 00:05	86-30-6	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.261		1	06/17/23 06:33	06/18/23 00:05	621-64-7	
Phenanthrene	**0.186J**	ug/L	1.00	0.112		1	06/17/23 06:33	06/18/23 00:05	85-01-8	J
Pyridine	ND	ug/L	10.0	0.627		1	06/17/23 06:33	06/18/23 00:05	110-86-1	L0,R1
Butylbenzylphthalate	ND	ug/L	3.00	0.765		1	06/17/23 06:33	06/18/23 00:05	85-68-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/17/23 06:33	06/18/23 00:05	117-81-7	
Di-n-butylphthalate	ND	ug/L	3.00	0.453		1	06/17/23 06:33	06/18/23 00:05	84-74-2	
Diethylphthalate	ND	ug/L	3.00	0.287		1	06/17/23 06:33	06/18/23 00:05	84-66-2	
Dimethylphthalate	ND	ug/L	3.00	0.260		1	06/17/23 06:33	06/18/23 00:05	131-11-3	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/17/23 06:33	06/18/23 00:05	117-84-0	
Pyrene	ND	ug/L	1.00	0.107		1	06/17/23 06:33	06/18/23 00:05	129-00-0	
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	0.0647		1	06/17/23 06:33	06/18/23 00:05	95-94-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.0698		1	06/17/23 06:33	06/18/23 00:05	120-82-1	
4-Chloro-3-methylphenol	ND	ug/L	10.0	0.131		1	06/17/23 06:33	06/18/23 00:05	59-50-7	
2-Chlorophenol	ND	ug/L	10.0	0.133		1	06/17/23 06:33	06/18/23 00:05	95-57-8	
2,4-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/17/23 06:33	06/18/23 00:05	120-83-2	
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/17/23 06:33	06/18/23 00:05	105-67-9	
4,6-Dinitro-2-methylphenol	ND	ug/L	10.0	1.12		1	06/17/23 06:33	06/18/23 00:05	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10.0	5.93		1	06/17/23 06:33	06/18/23 00:05	51-28-5	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	0.0929		1	06/17/23 06:33	06/18/23 00:05	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/17/23 06:33	06/18/23 00:05		
2-Nitrophenol	ND	ug/L	10.0	0.117		1	06/17/23 06:33	06/18/23 00:05	88-75-5	
4-Nitrophenol	ND	ug/L	10.0	0.143		1	06/17/23 06:33	06/18/23 00:05	100-02-7	
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/17/23 06:33	06/18/23 00:05	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/17/23 06:33	06/18/23 00:05	108-95-2	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	0.231		1	06/17/23 06:33	06/18/23 00:05	58-90-2	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.109		1	06/17/23 06:33	06/18/23 00:05	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	0.100		1	06/17/23 06:33	06/18/23 00:05	88-06-2	
2-Acetylaminofluorene	ND	ug/L	10.0	0.253		1	06/17/23 06:33	06/22/23 20:39	53-96-3	
4-Aminobiphenyl	ND	ug/L	10.0	0.461		1	06/17/23 06:33	06/22/23 20:39	92-67-1	
Aramite	ND	ug/L	50.0	16.7		1	06/17/23 06:33	06/22/23 20:39	140-57-8	
Chlorobenzilate	ND	ug/L	50.0	3.84		1	06/17/23 06:33	06/22/23 20:39	510-15-6	
Diallate	ND	ug/L	10.0	0.524		1	06/17/23 06:33	06/22/23 20:39	2303-16-4	
2,6-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/17/23 06:33	06/22/23 20:39	87-65-0	
Dimethoate	ND	ug/L	50.0	5.05		1	06/17/23 06:33	06/22/23 20:39	60-51-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Field Dup 1 **Lab ID: 20279949025** Collected: 06/12/23 09:30 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
P-Dimethylaminoazobenzene	ND	ug/L	10.0	3.69		1	06/17/23 06:33	06/22/23 20:39	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	1.71		1	06/17/23 06:33	06/22/23 20:39	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.0	3.39		1	06/17/23 06:33	06/22/23 20:39	119-93-7	
a,a-Dimethylphenylethylamine	ND	ug/L	50.0	3.13		1	06/17/23 06:33	06/22/23 20:39	122-09-8	
1,3-Dinitrobenzene	ND	ug/L	10.0	0.359		1	06/17/23 06:33	06/22/23 20:39	99-65-0	
Diphenylamine	ND	ug/L	10.0	2.37		1	06/17/23 06:33	06/18/23 00:05	122-39-4	
Dinoseb	ND	ug/L	50.0	8.01		1	06/17/23 06:33	06/22/23 20:39	88-85-7	
Ethyl methanesulfonate	ND	ug/L	10.0	0.326		1	06/17/23 06:33	06/22/23 20:39	62-50-0	
Famphur	ND	ug/L	20.0	3.92		1	06/17/23 06:33	06/22/23 20:39	52-85-7	
Hexachloropropene	ND	ug/L	50.0	0.149		1	06/17/23 06:33	06/22/23 20:39	1888-71-7	
Hexachlorophene	ND	ug/L	50.0	1.44		1	06/17/23 06:33	06/22/23 20:39	70-30-4	
Isodrin	ND	ug/L	10.0	4.11		1	06/17/23 06:33	06/22/23 20:39	465-73-6	
Isosafrole	ND	ug/L	10.0	3.88		1	06/17/23 06:33	06/22/23 20:39	120-58-1	
Kepone	ND	ug/L	20.0	2.66		1	06/17/23 06:33	06/22/23 20:39	143-50-0	
Methapyrilene	ND	ug/L	50.0	10.0		1	06/17/23 06:33	06/22/23 20:39	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.0	0.164		1	06/17/23 06:33	06/22/23 20:39	56-49-5	
Methyl methanesulfonate	ND	ug/L	50.0	3.40		1	06/17/23 06:33	06/22/23 20:39	66-27-3	
1,4-Naphthoquinone	ND	ug/L	50.0	5.56		1	06/17/23 06:33	06/22/23 20:39	130-15-4	
1-Naphthalenamine	**1.66J**	ug/L	10.0	0.289		1	06/17/23 06:33	06/22/23 20:39	134-32-7	J
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/17/23 06:33	06/22/23 20:39	91-59-8	
5-Nitro-o-toluidine	ND	ug/L	10.0	1.99		1	06/17/23 06:33	06/22/23 20:39	99-55-8	
4-Nitroquinoline-n-oxide	ND	ug/L	10.0	2.03		1	06/17/23 06:33	06/22/23 20:39	56-57-5	
N-Nitrosodiethylamine	ND	ug/L	10.0	3.57		1	06/17/23 06:33	06/22/23 20:39	55-18-5	
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	3.91		1	06/17/23 06:33	06/22/23 20:39	924-16-3	
N-Nitrosomethylethylamine	ND	ug/L	10.0	3.25		1	06/17/23 06:33	06/22/23 20:39	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	10.0	3.25		1	06/17/23 06:33	06/22/23 20:39	59-89-2	
N-Nitrosopiperidine	ND	ug/L	10.0	3.72		1	06/17/23 06:33	06/22/23 20:39	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.0	3.39		1	06/17/23 06:33	06/22/23 20:39	930-55-2	
Pentachlorobenzene	ND	ug/L	10.0	4.15		1	06/17/23 06:33	06/22/23 20:39	608-93-5	
Pentachloronitrobenzene	ND	ug/L	10.0	4.15		1	06/17/23 06:33	06/22/23 20:39	82-68-8	
Phenacetin	ND	ug/L	10.0	4.66		1	06/17/23 06:33	06/22/23 20:39	62-44-2	
p-Phenylenediamine	ND	ug/L	6900	387		1	06/17/23 06:33	06/22/23 20:39	106-50-3	
2-Picoline	ND	ug/L	50.0	6.83		1	06/17/23 06:33	06/22/23 20:39	109-06-8	
Pronamide	ND	ug/L	10.0	4.21		1	06/17/23 06:33	06/22/23 20:39	23950-58-5	
Safrole	ND	ug/L	10.0	3.68		1	06/17/23 06:33	06/22/23 20:39	94-59-7	
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	50.0	3.99		1	06/17/23 06:33	06/22/23 20:39	3689-24-5	
Thionazin	ND	ug/L	10.0	4.07		1	06/17/23 06:33	06/22/23 20:39	297-97-2	
O-Toluidine	**5.25J**	ug/L	10.0	3.53		1	06/17/23 06:33	06/22/23 20:39	95-53-4	J
1,3,5-Trinitrobenzene	ND	ug/L	10.0	1.32		1	06/17/23 06:33	06/22/23 20:39	99-35-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Field Dup 1 **Lab ID: 20279949025** Collected: 06/12/23 09:30 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	2.93		1	06/17/23 06:33	06/22/23 20:39	126-68-1	
Surrogates										
2-Fluorophenol (S)	33.9	%	10.0-120			1	06/17/23 06:33	06/18/23 00:05	367-12-4	
Phenol-d5 (S)	23.6	%	10.0-120			1	06/17/23 06:33	06/18/23 00:05	4165-62-2	
Nitrobenzene-d5 (S)	60.6	%	10.0-127			1	06/17/23 06:33	06/18/23 00:05	4165-60-0	
2-Fluorobiphenyl (S)	70.0	%	10.0-130			1	06/17/23 06:33	06/18/23 00:05	321-60-8	
2,4,6-Tribromophenol (S)	72.5	%	10.0-155			1	06/17/23 06:33	06/18/23 00:05	118-79-6	
Terphenyl-d14 (S)	73.5	%	10.0-128			1	06/17/23 06:33	06/18/23 00:05	1718-51-0	
SVOA (LCMS) SW-846 8321	Analytical Method: EPA 8321 Preparation Method: 8321 Pace National - Mt. Juliet									
2,4-D	ND	ug/L	2.00	1.00		1	06/15/23 15:07	06/19/23 05:23	94-75-7	
2,4,5-T	ND	ug/L	2.00	0.573		1	06/15/23 15:07	06/19/23 05:23	93-76-5	
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.807		1	06/15/23 15:07	06/19/23 05:23	93-72-1	
Surrogates										
2,4-DB-d3 (S)	93.5	%	70.0-130			1	06/15/23 15:07	06/19/23 05:23	1219802-46-	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	06/17/23 20:05	06/17/23 20:05	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	06/17/23 20:05	06/17/23 20:05	107-02-8	
Acrylonitrile	ND	ug/L	10.0	0.671		1	06/17/23 20:05	06/17/23 20:05	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	06/17/23 20:05	06/17/23 20:05	107-05-1	
Benzene	ND	ug/L	1.00	0.0941		1	06/17/23 20:05	06/17/23 20:05	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	06/17/23 20:05	06/17/23 20:05	75-27-4	
Bromoform	ND	ug/L	1.00	0.129		1	06/17/23 20:05	06/17/23 20:05	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	06/17/23 20:05	06/17/23 20:05	74-83-9	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	06/17/23 20:05	06/17/23 20:05	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	06/17/23 20:05	06/17/23 20:05	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116		1	06/17/23 20:05	06/17/23 20:05	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140		1	06/17/23 20:05	06/17/23 20:05	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192		1	06/17/23 20:05	06/17/23 20:05	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	06/17/23 20:05	06/17/23 20:05	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	06/17/23 20:05	06/17/23 20:05	74-87-3	
Dibromomethane	ND	ug/L	1.00	0.122		1	06/17/23 20:05	06/17/23 20:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	06/17/23 20:05	06/17/23 20:05	95-50-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	06/17/23 20:05	06/17/23 20:05	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	06/17/23 20:05	06/17/23 20:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	06/17/23 20:05	06/17/23 20:05	75-34-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Field Dup 1 **Lab ID: 20279949025** Collected: 06/12/23 09:30 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	06/17/23 20:05	06/17/23 20:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	06/17/23 20:05	06/17/23 20:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	06/17/23 20:05	06/17/23 20:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	06/17/23 20:05	06/17/23 20:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	06/17/23 20:05	06/17/23 20:05	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	06/17/23 20:05	06/17/23 20:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	06/17/23 20:05	06/17/23 20:05	10061-02-6	
Ethylbenzene	ND	ug/L	1.00	0.173		1	06/17/23 20:05	06/17/23 20:05	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.787		1	06/17/23 20:05	06/17/23 20:05	591-78-6	
Iodomethane	ND	ug/L	10.0	6.00		1	06/17/23 20:05	06/17/23 20:05	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	06/17/23 20:05	06/17/23 20:05	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430		1	06/17/23 20:05	06/17/23 20:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	06/17/23 20:05	06/17/23 20:05	108-10-1	
Styrene	ND	ug/L	1.00	0.118		1	06/17/23 20:05	06/17/23 20:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	06/17/23 20:05	06/17/23 20:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	06/17/23 20:05	06/17/23 20:05	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	06/17/23 20:05	06/17/23 20:05	127-18-4	
Toluene	ND	ug/L	1.00	0.278		1	06/17/23 20:05	06/17/23 20:05	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	06/17/23 20:05	06/17/23 20:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	06/17/23 20:05	06/17/23 20:05	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190		1	06/17/23 20:05	06/17/23 20:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	06/17/23 20:05	06/17/23 20:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	06/17/23 20:05	06/17/23 20:05	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	06/17/23 20:05	06/17/23 20:05	108-05-4	
Vinyl chloride	ND	ug/L	1.00	0.234		1	06/17/23 20:05	06/17/23 20:05	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	06/17/23 20:05	06/17/23 20:05	95-47-6	
m&p-Xylene	**1.64J**	ug/L	2.00	0.430		1	06/17/23 20:05	06/17/23 20:05	179601-23-1	J
Xylene (Total)	**1.64J**	ug/L	3.00	0.174		1	06/17/23 20:05	06/17/23 20:05	1330-20-7	J
Acetonitrile	ND	ug/L	50.0	24.0		1	06/22/23 17:12	06/22/23 17:12	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	06/22/23 17:12	06/22/23 17:12	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	06/22/23 17:12	06/22/23 17:12	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	06/22/23 17:12	06/22/23 17:12	78-83-1	
Methacrylonitrile	ND	ug/L	50.0	14.2		1	06/22/23 17:12	06/22/23 17:12	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	06/22/23 17:12	06/22/23 17:12	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	06/22/23 17:12	06/22/23 17:12	76-01-7	
Propionitrile	ND	ug/L	50.0	16.2		1	06/22/23 17:12	06/22/23 17:12	107-12-0	
Surrogates										
Toluene-d8 (S)	97.6	%	80.0-120			1	06/22/23 17:12	06/22/23 17:12	2037-26-5	
Toluene-d8 (S)	98.5	%	80.0-120			1	06/17/23 20:05	06/17/23 20:05	2037-26-5	
1,2-Dichloroethane-d4 (S)	105	%	70.0-130			1	06/22/23 17:12	06/22/23 17:12	17060-07-0	
1,2-Dichloroethane-d4 (S)	112	%	70.0-130			1	06/17/23 20:05	06/17/23 20:05	17060-07-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Field Dup 1 **Lab ID: 20279949025** Collected: 06/12/23 09:30 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Surrogates										
4-Bromofluorobenzene (S)	89.8	%	77.0-126			1	06/22/23 17:12	06/22/23 17:12	460-00-4	
4-Bromofluorobenzene (S)	95.3	%	77.0-126			1	06/17/23 20:05	06/17/23 20:05	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012		1		06/19/23 09:44	18496-25-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay									
Cyanide	ND	mg/L	0.023	0.0069		1	06/26/23 08:00	06/26/23 10:38	57-12-5	
420.1 Phenolics, Total	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - New Orleans									
Phenolics, Total Recoverable	**0.017J**	mg/L	0.020	0.0093		1	07/06/23 13:13	07/07/23 10:33	64743-03-9	B

Sample: Field Dup 2 **Lab ID: 20279949026** Collected: 06/12/23 09:30 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Aldrin	ND	ug/L	0.0500	0.0198		1	06/16/23 05:32	06/17/23 02:00	309-00-2	
alpha-BHC	ND	ug/L	0.0500	0.0172		1	06/16/23 05:32	06/17/23 02:00	319-84-6	
beta-BHC	ND	ug/L	0.0500	0.0208		1	06/16/23 05:32	06/17/23 02:00	319-85-7	
delta-BHC	ND	ug/L	0.0500	0.0150		1	06/16/23 05:32	06/17/23 02:00	319-86-8	
gamma-BHC (Lindane)	ND	ug/L	0.0500	0.0209		1	06/16/23 05:32	06/17/23 02:00	58-89-9	
Chlordane (Technical)	ND	ug/L	5.00	0.0198		1	06/16/23 05:32	06/17/23 02:00	57-74-9	
4,4'-DDD	ND	ug/L	0.0500	0.0177		1	06/16/23 05:32	06/17/23 02:00	72-54-8	
4,4'-DDE	ND	ug/L	0.0500	0.0154		1	06/16/23 05:32	06/17/23 02:00	72-55-9	
4,4'-DDT	ND	ug/L	0.0500	0.0198		1	06/16/23 05:32	06/17/23 02:00	50-29-3	
Dieldrin	ND	ug/L	0.0500	0.0162		1	06/16/23 05:32	06/17/23 02:00	60-57-1	
Endosulfan I	ND	ug/L	0.0500	0.0160		1	06/16/23 05:32	06/17/23 02:00	959-98-8	
Endosulfan II	ND	ug/L	0.0500	0.0164		1	06/16/23 05:32	06/17/23 02:00	33213-65-9	
Endosulfan sulfate	ND	ug/L	0.0500	0.0217		1	06/16/23 05:32	06/17/23 02:00	1031-07-8	
Endrin	ND	ug/L	0.0500	0.0161		1	06/16/23 05:32	06/17/23 02:00	72-20-8	
Endrin aldehyde	ND	ug/L	0.0500	0.0237		1	06/16/23 05:32	06/17/23 02:00	7421-93-4	
Endrin ketone	ND	ug/L	0.0500	0.0219		1	06/16/23 05:32	06/17/23 02:00	53494-70-5	
Hexachlorobenzene	ND	ug/L	0.0500	0.0176		1	06/16/23 05:32	06/17/23 02:00	118-74-1	
Heptachlor	ND	ug/L	0.0500	0.0148		1	06/16/23 05:32	06/17/23 02:00	76-44-8	
Heptachlor epoxide	ND	ug/L	0.0500	0.0183		1	06/16/23 05:32	06/17/23 02:00	1024-57-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Field Dup 2 **Lab ID: 20279949026** Collected: 06/12/23 09:30 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Pesticides (GC) 8081	Analytical Method: EPA 8081 Preparation Method: 3510C Pace National - Mt. Juliet									
Methoxychlor	ND	ug/L	0.0500	0.0193		1	06/16/23 05:32	06/17/23 02:00	72-43-5	
Toxaphene	ND	ug/L	0.500	0.168		1	06/16/23 05:32	06/17/23 02:00	8001-35-2	
Surrogates										
Decachlorobiphenyl (S)	25.4	%	10.0-128			1	06/16/23 05:32	06/17/23 02:00	2051-24-3	
Tetrachloro-m-xylene (S)	54.3	%	10.0-127			1	06/16/23 05:32	06/17/23 02:00	877-09-8	
6020 MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3010 Pace Analytical Services - New Orleans									
Antimony	ND	mg/L	0.0050	0.0017		5	06/19/23 08:18	06/20/23 19:36	7440-36-0	
Arsenic	**0.0026J**	mg/L	0.0050	0.00050		5	06/19/23 08:18	06/20/23 19:36	7440-38-2	
Barium	**0.088**	mg/L	0.0050	0.0032		5	06/19/23 08:18	06/20/23 19:36	7440-39-3	
Beryllium	ND	mg/L	0.0050	0.0010		5	06/19/23 08:18	06/20/23 19:36	7440-41-7	D3
Cadmium	ND	mg/L	0.0050	0.00095		5	06/19/23 08:18	06/20/23 19:36	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0032		5	06/19/23 08:18	06/20/23 19:36	7440-47-3	
Cobalt	**0.0025J**	mg/L	0.0050	0.00060		5	06/19/23 08:18	06/20/23 19:36	7440-48-4	
Copper	ND	mg/L	0.015	0.0084		5	06/19/23 08:18	06/20/23 19:36	7440-50-8	
Lead	ND	mg/L	0.0050	0.0034		5	06/19/23 08:18	06/20/23 19:36	7439-92-1	
Nickel	ND	mg/L	0.0050	0.0031		5	06/19/23 08:18	06/20/23 19:36	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0013		5	06/19/23 08:18	06/20/23 19:36	7782-49-2	
Silver	ND	mg/L	0.0025	0.0010		5	06/19/23 08:18	06/20/23 19:36	7440-22-4	
Thallium	ND	mg/L	0.0025	0.00055		5	06/19/23 08:18	06/20/23 19:36	7440-28-0	
Tin	ND	mg/L	0.030	0.0032		5	06/19/23 08:18	06/20/23 19:36	7440-31-5	
Vanadium	ND	mg/L	0.025	0.0012		5	06/19/23 08:18	06/20/23 19:36	7440-62-2	
Zinc	ND	mg/L	0.050	0.036		5	06/19/23 08:18	06/20/23 19:36	7440-66-6	
EPA 7470A	Analytical Method: EPA 7470 Preparation Method: EPA 7470A Pace Analytical Gulf Coast									
Mercury	ND	mg/L	0.00020	0.00010		1	06/16/23 09:00	06/20/23 15:45	7439-97-6	
SVOA (GC/MS) 8270 C-mod	Analytical Method: EPA 8270C Modified Preparation Method: 3510C Pace National - Mt. Juliet									
1,4-Dioxane (p-Dioxane)	ND	ug/L	0.400	0.0447		1	06/20/23 20:51	06/21/23 08:32	123-91-1	H3
Surrogates										
Nitrobenzene-d5 (S)	25.1	%	10.0-120			1	06/20/23 20:51	06/21/23 08:32	4165-60-0	
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Acenaphthene	ND	ug/L	1.00	0.0886		1	06/18/23 13:17	06/20/23 07:50	83-32-9	
Acenaphthylene	ND	ug/L	1.00	0.0921		1	06/18/23 13:17	06/20/23 07:50	208-96-8	
Acetophenone	ND	ug/L	10.0	0.208		1	06/18/23 13:17	06/20/23 07:50	98-86-2	
Aniline	ND	ug/L	10.0	1.65		1	06/18/23 13:17	06/20/23 07:50	62-53-3	
Anthracene	ND	ug/L	1.00	0.0804		1	06/18/23 13:17	06/20/23 07:50	120-12-7	
Benzo(a)anthracene	ND	ug/L	1.00	0.199		1	06/18/23 13:17	06/20/23 07:50	56-55-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Field Dup 2 **Lab ID: 20279949026** Collected: 06/12/23 09:30 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Benzo(b)fluoranthene	ND	ug/L	1.00	0.130		1	06/18/23 13:17	06/20/23 07:50	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	1.00	0.120		1	06/18/23 13:17	06/20/23 07:50	207-08-9	
Benzo(g,h,i)perylene	ND	ug/L	1.00	0.121		1	06/18/23 13:17	06/20/23 07:50	191-24-2	
Benzo(a)pyrene	ND	ug/L	1.00	0.0381		1	06/18/23 13:17	06/20/23 07:50	50-32-8	
Benzyl alcohol	ND	ug/L	10.0	0.563		1	06/18/23 13:17	06/20/23 07:50	100-51-6	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.116		1	06/18/23 13:17	06/20/23 07:50	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	0.137		1	06/18/23 13:17	06/20/23 07:50	111-44-4	
2,2'-Oxybis(1-chloropropane)	ND	ug/L	10.0	0.210		1	06/18/23 13:17	06/20/23 07:50	108-60-1	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.0877		1	06/18/23 13:17	06/20/23 07:50	101-55-3	
4-Chloroaniline	ND	ug/L	10.0	0.234		1	06/18/23 13:17	06/20/23 07:50	106-47-8	
2-Chloronaphthalene	ND	ug/L	1.00	0.0648		1	06/18/23 13:17	06/20/23 07:50	91-58-7	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.0926		1	06/18/23 13:17	06/20/23 07:50	7005-72-3	
Chrysene	ND	ug/L	1.00	0.130		1	06/18/23 13:17	06/20/23 07:50	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.00	0.0644		1	06/18/23 13:17	06/20/23 07:50	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.0970		1	06/18/23 13:17	06/20/23 07:50	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.0713		1	06/18/23 13:17	06/20/23 07:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.132		1	06/18/23 13:17	06/20/23 07:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.0942		1	06/18/23 13:17	06/20/23 07:50	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10.0	0.212		1	06/18/23 13:17	06/20/23 07:50	91-94-1	
2,4-Dinitrotoluene	ND	ug/L	10.0	0.0983		1	06/18/23 13:17	06/20/23 07:50	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	0.250		1	06/18/23 13:17	06/20/23 07:50	606-20-2	
Fluoranthene	**0.339J**	ug/L	1.00	0.102		1	06/18/23 13:17	06/20/23 07:50	206-44-0	J
Fluorene	**0.218J**	ug/L	1.00	0.0844		1	06/18/23 13:17	06/20/23 07:50	86-73-7	J
Hexachlorobenzene	ND	ug/L	1.00	0.0755		1	06/18/23 13:17	06/20/23 07:50	118-74-1	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	0.0968		1	06/18/23 13:17	06/20/23 07:50	87-68-3	
Hexachlorocyclopentadiene	ND	ug/L	10.0	0.0598		1	06/18/23 13:17	06/20/23 07:50	77-47-4	
Hexachloroethane	ND	ug/L	10.0	0.127		1	06/18/23 13:17	06/20/23 07:50	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.00	0.279		1	06/18/23 13:17	06/20/23 07:50	193-39-5	
Isophorone	ND	ug/L	10.0	0.143		1	06/18/23 13:17	06/20/23 07:50	78-59-1	
1-Methylnaphthalene	ND	ug/L	1.00	0.0790		1	06/18/23 13:17	06/20/23 07:50	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.00	0.117		1	06/18/23 13:17	06/20/23 07:50	91-57-6	
2-Nitroaniline	ND	ug/L	10.0	0.102		1	06/18/23 13:17	06/20/23 07:50	88-74-4	
3-Nitroaniline	ND	ug/L	10.0	0.0869		1	06/18/23 13:17	06/20/23 07:50	99-09-2	
4-Nitroaniline	ND	ug/L	10.0	0.0910		1	06/18/23 13:17	06/20/23 07:50	100-01-6	
Naphthalene	ND	ug/L	1.00	0.159		1	06/18/23 13:17	06/20/23 07:50	91-20-3	
Nitrobenzene	ND	ug/L	10.0	0.297		1	06/18/23 13:17	06/20/23 07:50	98-95-3	
N-Nitrosodimethylamine	ND	ug/L	10.0	0.998		1	06/18/23 13:17	06/20/23 07:50	62-75-9	
N-Nitrosodiphenylamine	ND	ug/L	10.0	2.37		1	06/18/23 13:17	06/20/23 07:50	86-30-6	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	0.261		1	06/18/23 13:17	06/20/23 07:50	621-64-7	
Phenanthrene	ND	ug/L	1.00	0.112		1	06/18/23 13:17	06/20/23 07:50	85-01-8	
Pyridine	ND	ug/L	10.0	0.627		1	06/18/23 13:17	06/20/23 07:50	110-86-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Field Dup 2 **Lab ID: 20279949026** Collected: 06/12/23 09:30 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Butylbenzylphthalate	ND	ug/L	3.00	0.765		1	06/18/23 13:17	06/20/23 07:50	85-68-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	3.00	0.895		1	06/18/23 13:17	06/20/23 07:50	117-81-7	
Di-n-butylphthalate	ND	ug/L	3.00	0.453		1	06/18/23 13:17	06/20/23 07:50	84-74-2	
Diethylphthalate	ND	ug/L	3.00	0.287		1	06/18/23 13:17	06/20/23 07:50	84-66-2	
Dimethylphthalate	ND	ug/L	3.00	0.260		1	06/18/23 13:17	06/20/23 07:50	131-11-3	
Di-n-octylphthalate	ND	ug/L	3.00	0.932		1	06/18/23 13:17	06/20/23 07:50	117-84-0	
Pyrene	**0.223J**	ug/L	1.00	0.107		1	06/18/23 13:17	06/20/23 07:50	129-00-0	J
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10.0	0.0647		1	06/18/23 13:17	06/20/23 07:50	95-94-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	0.0698		1	06/18/23 13:17	06/20/23 07:50	120-82-1	
4-Chloro-3-methylphenol	ND	ug/L	10.0	0.131		1	06/18/23 13:17	06/20/23 07:50	59-50-7	
2-Chlorophenol	ND	ug/L	10.0	0.133		1	06/18/23 13:17	06/20/23 07:50	95-57-8	
2,4-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/18/23 13:17	06/20/23 07:50	120-83-2	
2,4-Dimethylphenol	ND	ug/L	10.0	0.0636		1	06/18/23 13:17	06/20/23 07:50	105-67-9	
4,6-Dinitro-2-methylphenol	ND	ug/L	10.0	1.12		1	06/18/23 13:17	06/20/23 07:50	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10.0	5.93		1	06/18/23 13:17	06/20/23 07:50	51-28-5	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	0.0929		1	06/18/23 13:17	06/20/23 07:50	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.168		1	06/18/23 13:17	06/20/23 07:50		
2-Nitrophenol	ND	ug/L	10.0	0.117		1	06/18/23 13:17	06/20/23 07:50	88-75-5	
4-Nitrophenol	ND	ug/L	10.0	0.143		1	06/18/23 13:17	06/20/23 07:50	100-02-7	L0
Pentachlorophenol	ND	ug/L	10.0	0.313		1	06/18/23 13:17	06/20/23 07:50	87-86-5	
Phenol	ND	ug/L	10.0	4.33		1	06/18/23 13:17	06/20/23 07:50	108-95-2	
2,3,4,6-Tetrachlorophenol	ND	ug/L	10.0	0.231		1	06/18/23 13:17	06/20/23 07:50	58-90-2	
2,4,5-Trichlorophenol	ND	ug/L	10.0	0.109		1	06/18/23 13:17	06/20/23 07:50	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	0.100		1	06/18/23 13:17	06/20/23 07:50	88-06-2	
2-Acetylaminofluorene	ND	ug/L	10.0	0.253		1	06/18/23 13:17	06/26/23 17:38	53-96-3	
4-Aminobiphenyl	ND	ug/L	10.0	0.461		1	06/18/23 13:17	06/26/23 17:38	92-67-1	
Aramite	ND	ug/L	50.0	16.7		1	06/18/23 13:17	06/26/23 17:38	140-57-8	
Chlorobenzilate	ND	ug/L	50.0	3.84		1	06/18/23 13:17	06/26/23 17:38	510-15-6	
Diallate	ND	ug/L	10.0	0.524		1	06/18/23 13:17	06/26/23 17:38	2303-16-4	
2,6-Dichlorophenol	ND	ug/L	10.0	0.102		1	06/18/23 13:17	06/26/23 17:38	87-65-0	
Dimethoate	ND	ug/L	50.0	5.05		1	06/18/23 13:17	06/26/23 17:38	60-51-5	
P-Dimethylaminoazobenzene	ND	ug/L	10.0	3.69		1	06/18/23 13:17	06/26/23 17:38	60-11-7	
7,12-Dimethylbenz(a)anthracene	ND	ug/L	10.0	1.71		1	06/18/23 13:17	06/26/23 17:38	57-97-6	
3,3'-Dimethylbenzidine	ND	ug/L	10.0	3.39		1	06/18/23 13:17	06/26/23 17:38	119-93-7	
a,a-Dimethylphenylethylamine	ND	ug/L	50.0	3.13		1	06/18/23 13:17	06/26/23 17:38	122-09-8	
1,3-Dinitrobenzene	ND	ug/L	10.0	0.359		1	06/18/23 13:17	06/26/23 17:38	99-65-0	
Diphenylamine	ND	ug/L	10.0	2.37		1	06/18/23 13:17	06/20/23 07:50	122-39-4	
Dinoseb	ND	ug/L	50.0	8.01		1	06/18/23 13:17	06/26/23 17:38	88-85-7	
Ethyl methanesulfonate	ND	ug/L	10.0	0.326		1	06/18/23 13:17	06/26/23 17:38	62-50-0	
Famphur	ND	ug/L	20.0	3.92		1	06/18/23 13:17	06/26/23 17:38	52-85-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Field Dup 2 **Lab ID: 20279949026** Collected: 06/12/23 09:30 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (GC/MS) 8270C	Analytical Method: EPA 8270C Preparation Method: 3510C Pace National - Mt. Juliet									
Hexachloropropene	ND	ug/L	50.0	0.149		1	06/18/23 13:17	06/26/23 17:38	1888-71-7	
Hexachlorophene	ND	ug/L	50.0	1.44		1	06/18/23 13:17	06/26/23 17:38	70-30-4	
Isodrin	ND	ug/L	10.0	4.11		1	06/18/23 13:17	06/26/23 17:38	465-73-6	
Isosafrole	ND	ug/L	10.0	3.88		1	06/18/23 13:17	06/26/23 17:38	120-58-1	
Kepone	ND	ug/L	20.0	2.66		1	06/18/23 13:17	06/26/23 17:38	143-50-0	
Methapyrilene	ND	ug/L	50.0	10.0		1	06/18/23 13:17	06/26/23 17:38	91-80-5	
3-Methylcholanthrene	ND	ug/L	10.0	0.164		1	06/18/23 13:17	06/26/23 17:38	56-49-5	
Methyl methanesulfonate	ND	ug/L	50.0	3.40		1	06/18/23 13:17	06/26/23 17:38	66-27-3	
1,4-Naphthoquinone	ND	ug/L	50.0	5.56		1	06/18/23 13:17	06/26/23 17:38	130-15-4	
1-Naphthalenamine	**6.17J**	ug/L	10.0	0.289		1	06/18/23 13:17	06/26/23 17:38	134-32-7	J
2-Naphthalenamine	ND	ug/L	10.0	4.48		1	06/18/23 13:17	06/26/23 17:38	91-59-8	
5-Nitro-o-toluidine	ND	ug/L	10.0	1.99		1	06/18/23 13:17	06/26/23 17:38	99-55-8	
4-Nitroquinoline-n-oxide	ND	ug/L	10.0	2.03		1	06/18/23 13:17	06/26/23 17:38	56-57-5	
N-Nitrosodiethylamine	ND	ug/L	10.0	3.57		1	06/18/23 13:17	06/26/23 17:38	55-18-5	
N-Nitroso-di-n-butylamine	ND	ug/L	10.0	3.91		1	06/18/23 13:17	06/26/23 17:38	924-16-3	
N-Nitrosomethylethylamine	ND	ug/L	10.0	3.25		1	06/18/23 13:17	06/26/23 17:38	10595-95-6	
N-Nitrosomorpholine	ND	ug/L	10.0	3.25		1	06/18/23 13:17	06/26/23 17:38	59-89-2	
N-Nitrosopiperidine	ND	ug/L	10.0	3.72		1	06/18/23 13:17	06/26/23 17:38	100-75-4	
N-Nitrosopyrrolidine	ND	ug/L	10.0	3.39		1	06/18/23 13:17	06/26/23 17:38	930-55-2	
Pentachlorobenzene	ND	ug/L	10.0	4.15		1	06/18/23 13:17	06/26/23 17:38	608-93-5	
Pentachloronitrobenzene	ND	ug/L	10.0	4.15		1	06/18/23 13:17	06/26/23 17:38	82-68-8	
Phenacetin	ND	ug/L	10.0	4.66		1	06/18/23 13:17	06/26/23 17:38	62-44-2	
p-Phenylenediamine	ND	ug/L	6900	387		1	06/18/23 13:17	06/26/23 17:38	106-50-3	
2-Picoline	ND	ug/L	50.0	6.83		1	06/18/23 13:17	06/26/23 17:38	109-06-8	
Pronamide	ND	ug/L	10.0	4.21		1	06/18/23 13:17	06/26/23 17:38	23950-58-5	
Safrole	ND	ug/L	10.0	3.68		1	06/18/23 13:17	06/26/23 17:38	94-59-7	
Sulfotepp (Thiodiphosphoric Ac	ND	ug/L	50.0	3.99		1	06/18/23 13:17	06/26/23 17:38	3689-24-5	
Thionazin	ND	ug/L	10.0	4.07		1	06/18/23 13:17	06/26/23 17:38	297-97-2	
O-Toluidine	ND	ug/L	10.0	3.53		1	06/18/23 13:17	06/26/23 17:38	95-53-4	
1,3,5-Trinitrobenzene	ND	ug/L	10.0	1.32		1	06/18/23 13:17	06/26/23 17:38	99-35-4	
O,O,O-Triethylphosphorothioate	ND	ug/L	10.0	2.93		1	06/18/23 13:17	06/26/23 17:38	126-68-1	
Surrogates										
2-Fluorophenol (S)	29.6	%	10.0-120			1	06/18/23 13:17	06/20/23 07:50	367-12-4	
Phenol-d5 (S)	21.7	%	10.0-120			1	06/18/23 13:17	06/20/23 07:50	4165-62-2	
Nitrobenzene-d5 (S)	67.8	%	10.0-127			1	06/18/23 13:17	06/20/23 07:50	4165-60-0	
2-Fluorobiphenyl (S)	60.5	%	10.0-130			1	06/18/23 13:17	06/20/23 07:50	321-60-8	
2,4,6-Tribromophenol (S)	75.0	%	10.0-155			1	06/18/23 13:17	06/20/23 07:50	118-79-6	
Terphenyl-d14 (S)	77.9	%	10.0-128			1	06/18/23 13:17	06/20/23 07:50	1718-51-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Field Dup 2 **Lab ID: 20279949026** Collected: 06/12/23 09:30 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
SVOA (LCMS) SW-846 8321	Analytical Method: EPA 8321 Preparation Method: 8321 Pace National - Mt. Juliet									
2,4-D	ND	ug/L	2.00	1.00		1	06/21/23 11:51	06/21/23 15:09	94-75-7	H1
2,4,5-T	ND	ug/L	2.00	0.573		1	06/21/23 11:51	06/21/23 15:09	93-76-5	H1
2,4,5-TP (Silvex)	ND	ug/L	2.00	0.807		1	06/21/23 11:51	06/21/23 15:09	93-72-1	H1
Surrogates										
2,4-DB-d3 (S)	103	%	70.0-130			1	06/21/23 11:51	06/21/23 15:09	1219802-46-	
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	06/17/23 23:02	06/17/23 23:02	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	06/17/23 23:02	06/17/23 23:02	107-02-8	
Acrylonitrile	ND	ug/L	10.0	0.671		1	06/17/23 23:02	06/17/23 23:02	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	06/17/23 23:02	06/17/23 23:02	107-05-1	
Benzene	ND	ug/L	1.00	0.0941		1	06/17/23 23:02	06/17/23 23:02	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	06/17/23 23:02	06/17/23 23:02	75-27-4	
Bromoform	ND	ug/L	1.00	0.129		1	06/17/23 23:02	06/17/23 23:02	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	06/17/23 23:02	06/17/23 23:02	74-83-9	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	06/17/23 23:02	06/17/23 23:02	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	06/17/23 23:02	06/17/23 23:02	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116		1	06/17/23 23:02	06/17/23 23:02	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140		1	06/17/23 23:02	06/17/23 23:02	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192		1	06/17/23 23:02	06/17/23 23:02	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	06/17/23 23:02	06/17/23 23:02	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	06/17/23 23:02	06/17/23 23:02	74-87-3	
Dibromomethane	ND	ug/L	1.00	0.122		1	06/17/23 23:02	06/17/23 23:02	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	06/17/23 23:02	06/17/23 23:02	95-50-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	06/17/23 23:02	06/17/23 23:02	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	06/17/23 23:02	06/17/23 23:02	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	06/17/23 23:02	06/17/23 23:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	06/17/23 23:02	06/17/23 23:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	06/17/23 23:02	06/17/23 23:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	06/17/23 23:02	06/17/23 23:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	06/17/23 23:02	06/17/23 23:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	06/17/23 23:02	06/17/23 23:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	06/17/23 23:02	06/17/23 23:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	06/17/23 23:02	06/17/23 23:02	10061-02-6	
Ethylbenzene	ND	ug/L	1.00	0.173		1	06/17/23 23:02	06/17/23 23:02	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.787		1	06/17/23 23:02	06/17/23 23:02	591-78-6	
Iodomethane	ND	ug/L	10.0	6.00		1	06/17/23 23:02	06/17/23 23:02	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	06/17/23 23:02	06/17/23 23:02	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430		1	06/17/23 23:02	06/17/23 23:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	06/17/23 23:02	06/17/23 23:02	108-10-1	
Styrene	ND	ug/L	1.00	0.118		1	06/17/23 23:02	06/17/23 23:02	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	06/17/23 23:02	06/17/23 23:02	630-20-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Field Dup 2 **Lab ID: 20279949026** Collected: 06/12/23 09:30 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	06/17/23 23:02	06/17/23 23:02	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	06/17/23 23:02	06/17/23 23:02	127-18-4	
Toluene	ND	ug/L	1.00	0.278		1	06/17/23 23:02	06/17/23 23:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	06/17/23 23:02	06/17/23 23:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	06/17/23 23:02	06/17/23 23:02	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190		1	06/17/23 23:02	06/17/23 23:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	06/17/23 23:02	06/17/23 23:02	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	06/17/23 23:02	06/17/23 23:02	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	06/17/23 23:02	06/17/23 23:02	108-05-4	
Vinyl chloride	ND	ug/L	1.00	0.234		1	06/17/23 23:02	06/17/23 23:02	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	06/17/23 23:02	06/17/23 23:02	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	06/17/23 23:02	06/17/23 23:02	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	06/17/23 23:02	06/17/23 23:02	1330-20-7	
Acetonitrile	ND	ug/L	50.0	24.0		1	06/21/23 20:49	06/21/23 20:49	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	06/21/23 20:49	06/21/23 20:49	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	06/21/23 20:49	06/21/23 20:49	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	06/22/23 19:34	06/22/23 19:34	78-83-1	
Methacrylonitrile	ND	ug/L	50.0	14.2		1	06/21/23 20:49	06/21/23 20:49	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	06/21/23 20:49	06/21/23 20:49	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	06/21/23 20:49	06/21/23 20:49	76-01-7	
Propionitrile	ND	ug/L	50.0	16.2		1	06/21/23 20:49	06/21/23 20:49	107-12-0	
Surrogates										
Toluene-d8 (S)	101	%	80.0-120			1	06/17/23 23:02	06/17/23 23:02	2037-26-5	
Toluene-d8 (S)	97.6	%	80.0-120			1	06/21/23 20:49	06/21/23 20:49	2037-26-5	
Toluene-d8 (S)	106	%	80.0-120			1	06/22/23 19:34	06/22/23 19:34	2037-26-5	
1,2-Dichloroethane-d4 (S)	108	%	70.0-130			1	06/17/23 23:02	06/17/23 23:02	17060-07-0	
1,2-Dichloroethane-d4 (S)	129	%	70.0-130			1	06/21/23 20:49	06/21/23 20:49	17060-07-0	
1,2-Dichloroethane-d4 (S)	112	%	70.0-130			1	06/22/23 19:34	06/22/23 19:34	17060-07-0	
4-Bromofluorobenzene (S)	94.9	%	77.0-126			1	06/17/23 23:02	06/17/23 23:02	460-00-4	
4-Bromofluorobenzene (S)	90.5	%	77.0-126			1	06/21/23 20:49	06/21/23 20:49	460-00-4	
4-Bromofluorobenzene (S)	102	%	77.0-126			1	06/22/23 19:34	06/22/23 19:34	460-00-4	
4500S2D Sulfide, Total	Analytical Method: SM 4500-S-2 D Pace Analytical Services - New Orleans									
Sulfide, Total	ND	mg/L	0.020	0.012		1		06/19/23 09:45	18496-25-8	
335.4 Cyanide, Total	Analytical Method: EPA 335.4 Preparation Method: EPA 335.4 Pace Analytical Services - Green Bay									
Cyanide	ND	mg/L	0.023	0.0069		1	06/26/23 08:00	06/26/23 10:38	57-12-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Field Dup 2 **Lab ID: 20279949026** Collected: 06/12/23 09:30 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
420.1 Phenolics, Total	Analytical Method: EPA 420.1 Preparation Method: EPA 420.1 Pace Analytical Services - New Orleans									
Phenolics, Total Recoverable	**0.016J**	mg/L	0.020	0.0093		1	07/06/23 13:13	07/07/23 10:33	64743-03-9	B

Sample: Trip Blank 1 **Lab ID: 20279949027** Collected: 06/13/23 08:00 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	06/17/23 17:27	06/17/23 17:27	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	06/17/23 17:27	06/17/23 17:27	107-02-8	
Acrylonitrile	ND	ug/L	10.0	0.671		1	06/17/23 17:27	06/17/23 17:27	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	06/17/23 17:27	06/17/23 17:27	107-05-1	
Benzene	ND	ug/L	1.00	0.0941		1	06/17/23 17:27	06/17/23 17:27	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	06/17/23 17:27	06/17/23 17:27	75-27-4	
Bromoform	ND	ug/L	1.00	0.129		1	06/17/23 17:27	06/17/23 17:27	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	06/17/23 17:27	06/17/23 17:27	74-83-9	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	06/17/23 17:27	06/17/23 17:27	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	06/17/23 17:27	06/17/23 17:27	56-23-5	
Chlorobenzene	**0.201J**	ug/L	1.00	0.116		1	06/17/23 17:27	06/17/23 17:27	108-90-7	J
Dibromochloromethane	ND	ug/L	1.00	0.140		1	06/17/23 17:27	06/17/23 17:27	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192		1	06/17/23 17:27	06/17/23 17:27	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	06/17/23 17:27	06/17/23 17:27	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	06/17/23 17:27	06/17/23 17:27	74-87-3	
Dibromomethane	ND	ug/L	1.00	0.122		1	06/17/23 17:27	06/17/23 17:27	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	06/17/23 17:27	06/17/23 17:27	95-50-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	06/17/23 17:27	06/17/23 17:27	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	06/17/23 17:27	06/17/23 17:27	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	06/17/23 17:27	06/17/23 17:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	06/17/23 17:27	06/17/23 17:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	06/17/23 17:27	06/17/23 17:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	06/17/23 17:27	06/17/23 17:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	06/17/23 17:27	06/17/23 17:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	06/17/23 17:27	06/17/23 17:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	06/17/23 17:27	06/17/23 17:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	06/17/23 17:27	06/17/23 17:27	10061-02-6	
Ethylbenzene	ND	ug/L	1.00	0.173		1	06/17/23 17:27	06/17/23 17:27	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.787		1	06/17/23 17:27	06/17/23 17:27	591-78-6	
Iodomethane	ND	ug/L	10.0	6.00		1	06/17/23 17:27	06/17/23 17:27	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	06/17/23 17:27	06/17/23 17:27	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430		1	06/17/23 17:27	06/17/23 17:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	06/17/23 17:27	06/17/23 17:27	108-10-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Trip Blank 1 **Lab ID: 20279949027** Collected: 06/13/23 08:00 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Styrene	ND	ug/L	1.00	0.118		1	06/17/23 17:27	06/17/23 17:27	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	06/17/23 17:27	06/17/23 17:27	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	06/17/23 17:27	06/17/23 17:27	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	06/17/23 17:27	06/17/23 17:27	127-18-4	
Toluene	ND	ug/L	1.00	0.278		1	06/17/23 17:27	06/17/23 17:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	06/17/23 17:27	06/17/23 17:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	06/17/23 17:27	06/17/23 17:27	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190		1	06/17/23 17:27	06/17/23 17:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	06/17/23 17:27	06/17/23 17:27	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	06/17/23 17:27	06/17/23 17:27	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	06/17/23 17:27	06/17/23 17:27	108-05-4	
Vinyl chloride	ND	ug/L	1.00	0.234		1	06/17/23 17:27	06/17/23 17:27	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	06/17/23 17:27	06/17/23 17:27	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	06/17/23 17:27	06/17/23 17:27	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	06/17/23 17:27	06/17/23 17:27	1330-20-7	
Acetonitrile	ND	ug/L	50.0	24.0		1	06/21/23 15:14	06/21/23 15:14	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	06/21/23 15:14	06/21/23 15:14	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	06/21/23 15:14	06/21/23 15:14	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	06/22/23 16:27	06/22/23 16:27	78-83-1	
Methacrylonitrile	ND	ug/L	50.0	14.2		1	06/21/23 15:14	06/21/23 15:14	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	06/21/23 15:14	06/21/23 15:14	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	06/21/23 15:14	06/21/23 15:14	76-01-7	
Propionitrile	ND	ug/L	50.0	16.2		1	06/21/23 15:14	06/21/23 15:14	107-12-0	
Surrogates										
Toluene-d8 (S)	101	%	80.0-120			1	06/17/23 17:27	06/17/23 17:27	2037-26-5	
Toluene-d8 (S)	96.4	%	80.0-120			1	06/21/23 15:14	06/21/23 15:14	2037-26-5	
Toluene-d8 (S)	108	%	80.0-120			1	06/22/23 16:27	06/22/23 16:27	2037-26-5	
1,2-Dichloroethane-d4 (S)	108	%	70.0-130			1	06/17/23 17:27	06/17/23 17:27	17060-07-0	
1,2-Dichloroethane-d4 (S)	130	%	70.0-130			1	06/21/23 15:14	06/21/23 15:14	17060-07-0	
1,2-Dichloroethane-d4 (S)	108	%	70.0-130			1	06/22/23 16:27	06/22/23 16:27	17060-07-0	
4-Bromofluorobenzene (S)	89.6	%	77.0-126			1	06/17/23 17:27	06/17/23 17:27	460-00-4	
4-Bromofluorobenzene (S)	92.2	%	77.0-126			1	06/21/23 15:14	06/21/23 15:14	460-00-4	
4-Bromofluorobenzene (S)	102	%	77.0-126			1	06/22/23 16:27	06/22/23 16:27	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Trip Blank 2 **Lab ID: 20279949028** Collected: 06/13/23 06:00 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	06/17/23 17:47	06/17/23 17:47	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	06/17/23 17:47	06/17/23 17:47	107-02-8	
Acrylonitrile	ND	ug/L	10.0	0.671		1	06/17/23 17:47	06/17/23 17:47	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	06/17/23 17:47	06/17/23 17:47	107-05-1	
Benzene	ND	ug/L	1.00	0.0941		1	06/17/23 17:47	06/17/23 17:47	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	06/17/23 17:47	06/17/23 17:47	75-27-4	
Bromoform	ND	ug/L	1.00	0.129		1	06/17/23 17:47	06/17/23 17:47	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	06/17/23 17:47	06/17/23 17:47	74-83-9	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	06/17/23 17:47	06/17/23 17:47	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	06/17/23 17:47	06/17/23 17:47	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116		1	06/17/23 17:47	06/17/23 17:47	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140		1	06/17/23 17:47	06/17/23 17:47	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192		1	06/17/23 17:47	06/17/23 17:47	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	06/17/23 17:47	06/17/23 17:47	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	06/17/23 17:47	06/17/23 17:47	74-87-3	
Dibromomethane	ND	ug/L	1.00	0.122		1	06/17/23 17:47	06/17/23 17:47	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	06/17/23 17:47	06/17/23 17:47	95-50-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	06/17/23 17:47	06/17/23 17:47	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	06/17/23 17:47	06/17/23 17:47	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	06/17/23 17:47	06/17/23 17:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	06/17/23 17:47	06/17/23 17:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	06/17/23 17:47	06/17/23 17:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	06/17/23 17:47	06/17/23 17:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	06/17/23 17:47	06/17/23 17:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	06/17/23 17:47	06/17/23 17:47	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	06/17/23 17:47	06/17/23 17:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	06/17/23 17:47	06/17/23 17:47	10061-02-6	
Ethylbenzene	ND	ug/L	1.00	0.173		1	06/17/23 17:47	06/17/23 17:47	100-41-4	
2-Hexanone	**1.00J**	ug/L	10.0	0.787		1	06/17/23 17:47	06/17/23 17:47	591-78-6	J
Iodomethane	ND	ug/L	10.0	6.00		1	06/17/23 17:47	06/17/23 17:47	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	06/17/23 17:47	06/17/23 17:47	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430		1	06/17/23 17:47	06/17/23 17:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	06/17/23 17:47	06/17/23 17:47	108-10-1	
Styrene	ND	ug/L	1.00	0.118		1	06/17/23 17:47	06/17/23 17:47	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	06/17/23 17:47	06/17/23 17:47	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	06/17/23 17:47	06/17/23 17:47	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	06/17/23 17:47	06/17/23 17:47	127-18-4	
Toluene	ND	ug/L	1.00	0.278		1	06/17/23 17:47	06/17/23 17:47	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	06/17/23 17:47	06/17/23 17:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	06/17/23 17:47	06/17/23 17:47	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190		1	06/17/23 17:47	06/17/23 17:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	06/17/23 17:47	06/17/23 17:47	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	06/17/23 17:47	06/17/23 17:47	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	06/17/23 17:47	06/17/23 17:47	108-05-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Trip Blank 2 **Lab ID: 20279949028** Collected: 06/13/23 06:00 Received: 06/13/23 09:11 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Vinyl chloride	ND	ug/L	1.00	0.234		1	06/17/23 17:47	06/17/23 17:47	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	06/17/23 17:47	06/17/23 17:47	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	06/17/23 17:47	06/17/23 17:47	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	06/17/23 17:47	06/17/23 17:47	1330-20-7	
Acetonitrile	ND	ug/L	50.0	24.0		1	06/21/23 15:35	06/21/23 15:35	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	06/21/23 15:35	06/21/23 15:35	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	06/21/23 15:35	06/21/23 15:35	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	06/22/23 16:47	06/22/23 16:47	78-83-1	
Methacrylonitrile	ND	ug/L	50.0	14.2		1	06/21/23 15:35	06/21/23 15:35	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	06/21/23 15:35	06/21/23 15:35	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	06/21/23 15:35	06/21/23 15:35	76-01-7	
Propionitrile	ND	ug/L	50.0	16.2		1	06/21/23 15:35	06/21/23 15:35	107-12-0	
Surrogates										
Toluene-d8 (S)	100	%	80.0-120			1	06/17/23 17:47	06/17/23 17:47	2037-26-5	
Toluene-d8 (S)	96.4	%	80.0-120			1	06/21/23 15:35	06/21/23 15:35	2037-26-5	
Toluene-d8 (S)	106	%	80.0-120			1	06/22/23 16:47	06/22/23 16:47	2037-26-5	
1,2-Dichloroethane-d4 (S)	113	%	70.0-130			1	06/17/23 17:47	06/17/23 17:47	17060-07-0	
1,2-Dichloroethane-d4 (S)	130	%	70.0-130			1	06/21/23 15:35	06/21/23 15:35	17060-07-0	
1,2-Dichloroethane-d4 (S)	108	%	70.0-130			1	06/22/23 16:47	06/22/23 16:47	17060-07-0	
4-Bromofluorobenzene (S)	94.9	%	77.0-126			1	06/17/23 17:47	06/17/23 17:47	460-00-4	
4-Bromofluorobenzene (S)	88.2	%	77.0-126			1	06/21/23 15:35	06/21/23 15:35	460-00-4	
4-Bromofluorobenzene (S)	104	%	77.0-126			1	06/22/23 16:47	06/22/23 16:47	460-00-4	

Sample: Trip Blank 3 **Lab ID: 20279949029** Collected: 06/13/23 06:00 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	06/17/23 16:48	06/17/23 16:48	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	06/17/23 16:48	06/17/23 16:48	107-02-8	
Acrylonitrile	ND	ug/L	10.0	0.671		1	06/17/23 16:48	06/17/23 16:48	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	06/17/23 16:48	06/17/23 16:48	107-05-1	
Benzene	ND	ug/L	1.00	0.0941		1	06/17/23 16:48	06/17/23 16:48	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	06/17/23 16:48	06/17/23 16:48	75-27-4	
Bromoform	ND	ug/L	1.00	0.129		1	06/17/23 16:48	06/17/23 16:48	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	06/17/23 16:48	06/17/23 16:48	74-83-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Trip Blank 3 **Lab ID: 20279949029** Collected: 06/13/23 06:00 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Carbon disulfide	ND	ug/L	1.00	0.0962		1	06/17/23 16:48	06/17/23 16:48	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	06/17/23 16:48	06/17/23 16:48	56-23-5	
Chlorobenzene	ND	ug/L	1.00	0.116		1	06/17/23 16:48	06/17/23 16:48	108-90-7	
Dibromochloromethane	ND	ug/L	1.00	0.140		1	06/17/23 16:48	06/17/23 16:48	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192		1	06/17/23 16:48	06/17/23 16:48	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	06/17/23 16:48	06/17/23 16:48	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	06/17/23 16:48	06/17/23 16:48	74-87-3	
Dibromomethane	ND	ug/L	1.00	0.122		1	06/17/23 16:48	06/17/23 16:48	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	06/17/23 16:48	06/17/23 16:48	95-50-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	06/17/23 16:48	06/17/23 16:48	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	06/17/23 16:48	06/17/23 16:48	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	06/17/23 16:48	06/17/23 16:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	06/17/23 16:48	06/17/23 16:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	06/17/23 16:48	06/17/23 16:48	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	06/17/23 16:48	06/17/23 16:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	06/17/23 16:48	06/17/23 16:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	06/17/23 16:48	06/17/23 16:48	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	06/17/23 16:48	06/17/23 16:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	06/17/23 16:48	06/17/23 16:48	10061-02-6	
Ethylbenzene	ND	ug/L	1.00	0.173		1	06/17/23 16:48	06/17/23 16:48	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.787		1	06/17/23 16:48	06/17/23 16:48	591-78-6	
Iodomethane	ND	ug/L	10.0	6.00		1	06/17/23 16:48	06/17/23 16:48	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	06/17/23 16:48	06/17/23 16:48	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430		1	06/17/23 16:48	06/17/23 16:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	06/17/23 16:48	06/17/23 16:48	108-10-1	
Styrene	ND	ug/L	1.00	0.118		1	06/17/23 16:48	06/17/23 16:48	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	06/17/23 16:48	06/17/23 16:48	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	06/17/23 16:48	06/17/23 16:48	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	06/17/23 16:48	06/17/23 16:48	127-18-4	
Toluene	ND	ug/L	1.00	0.278		1	06/17/23 16:48	06/17/23 16:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	06/17/23 16:48	06/17/23 16:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	06/17/23 16:48	06/17/23 16:48	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190		1	06/17/23 16:48	06/17/23 16:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	06/17/23 16:48	06/17/23 16:48	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	06/17/23 16:48	06/17/23 16:48	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	06/17/23 16:48	06/17/23 16:48	108-05-4	
Vinyl chloride	ND	ug/L	1.00	0.234		1	06/17/23 16:48	06/17/23 16:48	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	06/17/23 16:48	06/17/23 16:48	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	06/17/23 16:48	06/17/23 16:48	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	06/17/23 16:48	06/17/23 16:48	1330-20-7	
Acetonitrile	ND	ug/L	50.0	24.0		1	06/22/23 17:34	06/22/23 17:34	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	06/22/23 17:34	06/22/23 17:34	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	06/22/23 17:34	06/22/23 17:34	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	06/22/23 17:34	06/22/23 17:34	78-83-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Trip Blank 3 **Lab ID: 20279949029** Collected: 06/13/23 06:00 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Methacrylonitrile	ND	ug/L	50.0	14.2		1	06/22/23 17:34	06/22/23 17:34	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	06/22/23 17:34	06/22/23 17:34	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	06/22/23 17:34	06/22/23 17:34	76-01-7	
Propionitrile	ND	ug/L	50.0	16.2		1	06/22/23 17:34	06/22/23 17:34	107-12-0	
Surrogates										
Toluene-d8 (S)	96.6	%	80.0-120			1	06/22/23 17:34	06/22/23 17:34	2037-26-5	
Toluene-d8 (S)	101	%	80.0-120			1	06/17/23 16:48	06/17/23 16:48	2037-26-5	
1,2-Dichloroethane-d4 (S)	101	%	70.0-130			1	06/22/23 17:34	06/22/23 17:34	17060-07-0	
1,2-Dichloroethane-d4 (S)	107	%	70.0-130			1	06/17/23 16:48	06/17/23 16:48	17060-07-0	
4-Bromofluorobenzene (S)	87.4	%	77.0-126			1	06/22/23 17:34	06/22/23 17:34	460-00-4	
4-Bromofluorobenzene (S)	93.6	%	77.0-126			1	06/17/23 16:48	06/17/23 16:48	460-00-4	

Sample: Trip Blank 4 **Lab ID: 20279949030** Collected: 06/13/23 06:00 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
Acetone	ND	ug/L	50.0	11.3		1	06/17/23 17:07	06/17/23 17:07	67-64-1	
Acrolein	ND	ug/L	50.0	2.54		1	06/17/23 17:07	06/17/23 17:07	107-02-8	
Acrylonitrile	ND	ug/L	10.0	0.671		1	06/17/23 17:07	06/17/23 17:07	107-13-1	
Allyl chloride	ND	ug/L	5.00	0.500		1	06/17/23 17:07	06/17/23 17:07	107-05-1	
Benzene	ND	ug/L	1.00	0.0941		1	06/17/23 17:07	06/17/23 17:07	71-43-2	
Bromodichloromethane	ND	ug/L	1.00	0.136		1	06/17/23 17:07	06/17/23 17:07	75-27-4	
Bromoform	ND	ug/L	1.00	0.129		1	06/17/23 17:07	06/17/23 17:07	75-25-2	
Bromomethane	ND	ug/L	5.00	0.605		1	06/17/23 17:07	06/17/23 17:07	74-83-9	
Carbon disulfide	ND	ug/L	1.00	0.0962		1	06/17/23 17:07	06/17/23 17:07	75-15-0	
Carbon tetrachloride	ND	ug/L	1.00	0.128		1	06/17/23 17:07	06/17/23 17:07	56-23-5	
Chlorobenzene	**0.227J**	ug/L	1.00	0.116		1	06/17/23 17:07	06/17/23 17:07	108-90-7	J
Dibromochloromethane	ND	ug/L	1.00	0.140		1	06/17/23 17:07	06/17/23 17:07	124-48-1	
Chloroethane	ND	ug/L	5.00	0.192		1	06/17/23 17:07	06/17/23 17:07	75-00-3	
Chloroform	ND	ug/L	5.00	0.111		1	06/17/23 17:07	06/17/23 17:07	67-66-3	
Chloromethane	ND	ug/L	2.50	0.960		1	06/17/23 17:07	06/17/23 17:07	74-87-3	
Dibromomethane	ND	ug/L	1.00	0.122		1	06/17/23 17:07	06/17/23 17:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.00	0.107		1	06/17/23 17:07	06/17/23 17:07	95-50-1	
trans-1,4-Dichloro-2-butene	ND	ug/L	2.50	0.467		1	06/17/23 17:07	06/17/23 17:07	110-57-6	
Dichlorodifluoromethane	ND	ug/L	5.00	0.374		1	06/17/23 17:07	06/17/23 17:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.00	0.100		1	06/17/23 17:07	06/17/23 17:07	75-34-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Trip Blank 4 **Lab ID: 20279949030** Collected: 06/13/23 06:00 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B	Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet									
1,2-Dichloroethane	ND	ug/L	1.00	0.0819		1	06/17/23 17:07	06/17/23 17:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.00	0.188		1	06/17/23 17:07	06/17/23 17:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.00	0.126		1	06/17/23 17:07	06/17/23 17:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.00	0.149		1	06/17/23 17:07	06/17/23 17:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.00	0.149		1	06/17/23 17:07	06/17/23 17:07	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.00	0.111		1	06/17/23 17:07	06/17/23 17:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.00	0.118		1	06/17/23 17:07	06/17/23 17:07	10061-02-6	
Ethylbenzene	ND	ug/L	1.00	0.173		1	06/17/23 17:07	06/17/23 17:07	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.787		1	06/17/23 17:07	06/17/23 17:07	591-78-6	
Iodomethane	ND	ug/L	10.0	6.00		1	06/17/23 17:07	06/17/23 17:07	74-88-4	
2-Butanone (MEK)	ND	ug/L	10.0	1.19		1	06/17/23 17:07	06/17/23 17:07	78-93-3	
Methylene Chloride	ND	ug/L	5.00	0.430		1	06/17/23 17:07	06/17/23 17:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.478		1	06/17/23 17:07	06/17/23 17:07	108-10-1	
Styrene	ND	ug/L	1.00	0.118		1	06/17/23 17:07	06/17/23 17:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.00	0.147		1	06/17/23 17:07	06/17/23 17:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.00	0.133		1	06/17/23 17:07	06/17/23 17:07	79-34-5	
Tetrachloroethene	ND	ug/L	1.00	0.300		1	06/17/23 17:07	06/17/23 17:07	127-18-4	
Toluene	ND	ug/L	1.00	0.278		1	06/17/23 17:07	06/17/23 17:07	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.00	0.149		1	06/17/23 17:07	06/17/23 17:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.00	0.158		1	06/17/23 17:07	06/17/23 17:07	79-00-5	
Trichloroethene	ND	ug/L	1.00	0.190		1	06/17/23 17:07	06/17/23 17:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.00	0.160		1	06/17/23 17:07	06/17/23 17:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.50	0.237		1	06/17/23 17:07	06/17/23 17:07	96-18-4	
Vinyl acetate	ND	ug/L	10.0	0.692		1	06/17/23 17:07	06/17/23 17:07	108-05-4	
Vinyl chloride	ND	ug/L	1.00	0.234		1	06/17/23 17:07	06/17/23 17:07	75-01-4	
o-Xylene	ND	ug/L	1.00	0.174		1	06/17/23 17:07	06/17/23 17:07	95-47-6	
m&p-Xylene	ND	ug/L	2.00	0.430		1	06/17/23 17:07	06/17/23 17:07	179601-23-1	
Xylene (Total)	ND	ug/L	3.00	0.174		1	06/17/23 17:07	06/17/23 17:07	1330-20-7	
Acetonitrile	ND	ug/L	50.0	24.0		1	06/22/23 17:56	06/22/23 17:56	75-05-8	
Chloroprene	ND	ug/L	50.0	1.45		1	06/22/23 17:56	06/22/23 17:56	126-99-8	
Ethyl methacrylate	ND	ug/L	5.00	1.48		1	06/22/23 17:56	06/22/23 17:56	97-63-2	
Isobutanol	ND	ug/L	100	42.1		1	06/22/23 17:56	06/22/23 17:56	78-83-1	
Methacrylonitrile	ND	ug/L	50.0	14.2		1	06/22/23 17:56	06/22/23 17:56	126-98-7	
Methyl methacrylate	ND	ug/L	5.00	1.52		1	06/22/23 17:56	06/22/23 17:56	80-62-6	
Pentachloroethane	ND	ug/L	5.00	2.30		1	06/22/23 17:56	06/22/23 17:56	76-01-7	
Propionitrile	ND	ug/L	50.0	16.2		1	06/22/23 17:56	06/22/23 17:56	107-12-0	
Surrogates										
Toluene-d8 (S)	96.9	%	80.0-120			1	06/22/23 17:56	06/22/23 17:56	2037-26-5	
Toluene-d8 (S)	100	%	80.0-120			1	06/17/23 17:07	06/17/23 17:07	2037-26-5	
1,2-Dichloroethane-d4 (S)	102	%	70.0-130			1	06/22/23 17:56	06/22/23 17:56	17060-07-0	
1,2-Dichloroethane-d4 (S)	109	%	70.0-130			1	06/17/23 17:07	06/17/23 17:07	17060-07-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Sample: Trip Blank 4 **Lab ID: 20279949030** Collected: 06/13/23 06:00 Received: 06/14/23 07:56 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
VOA (GC/MS) 8260B		Analytical Method: EPA 8260B Preparation Method: 8260B Pace National - Mt. Juliet								
Surrogates										
4-Bromofluorobenzene (S)	86.3	%	77.0-126			1	06/22/23 17:56	06/22/23 17:56	460-00-4	
4-Bromofluorobenzene (S)	94.8	%	77.0-126			1	06/17/23 17:07	06/17/23 17:07	460-00-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 2080391
QC Batch Method: 8011/504.1
Analysis Method: EPA 8011
Analysis Description: EDB / DBCP 8011
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20279949007, 20279949012, 20279949013, 20279949014

METHOD BLANK: R3939395-1 Matrix: Water
Associated Lab Samples: 20279949007, 20279949012, 20279949013, 20279949014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.0200	0.00536	06/20/23 14:01	
1,2-Dibromo-3-chloropropane	ug/L	ND	0.0200	0.00748	06/20/23 14:01	

LABORATORY CONTROL SAMPLE & LCSD: R3939395-4 R3939395-5

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.250	0.217	0.220	86.8	88.0	60.0-140	1.37	20	
1,2-Dibromo-3-chloropropane	ug/L	0.250	0.176	0.179	70.4	71.6	60.0-140	1.69	20	

MATRIX SPIKE SAMPLE: R3939395-2

Parameter	Units	20279949012 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.106	0.122	115	64.0-159	
1,2-Dibromo-3-chloropropane	ug/L	ND	0.106	0.0827	78.0	72.0-148	

SAMPLE DUPLICATE: R3939395-3

Parameter	Units	L1625801-30 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND	0.00	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND	0.00	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 2077981
QC Batch Method: 3510C
Analysis Method: EPA 8081
Analysis Description: Pesticides (GC) 8081
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20279949009, 20279949010, 20279949011, 20279949012, 20279949013, 20279949014, 20279949015, 20279949016, 20279949017, 20279949018, 20279949019, 20279949020

METHOD BLANK: R3938864-1 Matrix: Water
Associated Lab Samples: 20279949009, 20279949010, 20279949011, 20279949012, 20279949013, 20279949014, 20279949015, 20279949016, 20279949017, 20279949018, 20279949019, 20279949020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aldrin	ug/L	ND	0.0500	0.0198	06/18/23 16:50	
alpha-BHC	ug/L	ND	0.0500	0.0172	06/18/23 16:50	
beta-BHC	ug/L	ND	0.0500	0.0208	06/18/23 16:50	
delta-BHC	ug/L	ND	0.0500	0.0150	06/18/23 16:50	
gamma-BHC (Lindane)	ug/L	ND	0.0500	0.0209	06/18/23 16:50	
Chlordane (Technical)	ug/L	ND	5.00	0.0198	06/18/23 16:50	
4,4'-DDD	ug/L	ND	0.0500	0.0177	06/18/23 16:50	
4,4'-DDE	ug/L	ND	0.0500	0.0154	06/18/23 16:50	
4,4'-DDT	ug/L	ND	0.0500	0.0198	06/18/23 16:50	
Dieldrin	ug/L	ND	0.0500	0.0162	06/18/23 16:50	
Endosulfan I	ug/L	ND	0.0500	0.0160	06/18/23 16:50	
Endosulfan II	ug/L	ND	0.0500	0.0164	06/18/23 16:50	
Endosulfan sulfate	ug/L	ND	0.0500	0.0217	06/18/23 16:50	
Endrin	ug/L	ND	0.0500	0.0161	06/18/23 16:50	
Endrin aldehyde	ug/L	ND	0.0500	0.0237	06/18/23 16:50	
Heptachlor	ug/L	ND	0.0500	0.0148	06/18/23 16:50	
Heptachlor epoxide	ug/L	ND	0.0500	0.0183	06/18/23 16:50	
Methoxychlor	ug/L	ND	0.0500	0.0193	06/18/23 16:50	
Toxaphene	ug/L	ND	0.500	0.168	06/18/23 16:50	
Decachlorobiphenyl (S)	%	35.6	10.0-128		06/18/23 16:50	
Tetrachloro-m-xylene (S)	%	74.7	10.0-127		06/18/23 16:50	

LABORATORY CONTROL SAMPLE & LCSD: R3938864-2 R3938864-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aldrin	ug/L	1.00	0.821	0.793	82.1	79.3	22.0-124	3.47	34	
alpha-BHC	ug/L	1.00	0.944	0.973	94.4	97.3	54.0-130	3.03	23	
beta-BHC	ug/L	1.00	0.923	0.951	92.3	95.1	53.0-136	2.99	20	
delta-BHC	ug/L	1.00	0.881	0.900	88.1	90.0	54.0-133	2.13	20	
gamma-BHC (Lindane)	ug/L	1.00	0.968	0.992	96.8	99.2	55.0-129	2.45	20	
4,4'-DDD	ug/L	1.00	0.868	0.823	86.8	82.3	56.0-140	5.32	22	
4,4'-DDE	ug/L	1.00	0.781	0.715	78.1	71.5	52.0-128	8.82	22	
4,4'-DDT	ug/L	1.00	0.852	0.789	85.2	78.9	50.0-141	7.68	23	
Dieldrin	ug/L	1.00	0.946	0.943	94.6	94.3	59.0-133	0.318	20	
Endosulfan I	ug/L	1.00	0.879	0.880	87.9	88.0	57.0-131	0.114	20	
Endosulfan II	ug/L	1.00	0.904	0.919	90.4	91.9	58.0-133	1.65	20	
Endosulfan sulfate	ug/L	1.00	0.861	0.886	86.1	88.6	58.0-133	2.86	21	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

LABORATORY CONTROL SAMPLE & LCSD: R3938864-2 R3938864-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Endrin	ug/L	1.00	0.948	0.953	94.8	95.3	57.0-134	0.526	21	
Endrin aldehyde	ug/L	1.00	0.880	0.904	88.0	90.4	53.0-129	2.69	20	
Heptachlor	ug/L	1.00	0.929	0.911	92.9	91.1	27.0-132	1.96	31	
Heptachlor epoxide	ug/L	1.00	0.904	0.913	90.4	91.3	57.0-130	0.991	20	
Methoxychlor	ug/L	1.00	0.859	0.814	85.9	81.4	54.0-155	5.38	24	
Decachlorobiphenyl (S)	%				34.9	21.9	10.0-128			
Tetrachloro-m-xylene (S)	%				76.1	81.8	10.0-127			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 2077982
QC Batch Method: 3510C
Analysis Method: EPA 8081
Analysis Description: Pesticides (GC) 8081
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 20279949025

METHOD BLANK: R3938262-1 Matrix: Water
Associated Lab Samples: 20279949025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aldrin	ug/L	ND	0.0500	0.0198	06/16/23 11:23	
alpha-BHC	ug/L	ND	0.0500	0.0172	06/16/23 11:23	
beta-BHC	ug/L	ND	0.0500	0.0208	06/16/23 11:23	
delta-BHC	ug/L	ND	0.0500	0.0150	06/16/23 11:23	
gamma-BHC (Lindane)	ug/L	ND	0.0500	0.0209	06/16/23 11:23	
Chlordane (Technical)	ug/L	ND	5.00	0.0198	06/16/23 11:23	
4,4'-DDD	ug/L	ND	0.0500	0.0177	06/16/23 11:23	
4,4'-DDE	ug/L	ND	0.0500	0.0154	06/16/23 11:23	
4,4'-DDT	ug/L	ND	0.0500	0.0198	06/16/23 11:23	
Dieldrin	ug/L	ND	0.0500	0.0162	06/16/23 11:23	
Endosulfan I	ug/L	ND	0.0500	0.0160	06/16/23 11:23	
Endosulfan II	ug/L	ND	0.0500	0.0164	06/16/23 11:23	
Endosulfan sulfate	ug/L	ND	0.0500	0.0217	06/16/23 11:23	
Endrin	ug/L	ND	0.0500	0.0161	06/16/23 11:23	
Endrin aldehyde	ug/L	ND	0.0500	0.0237	06/16/23 11:23	
Endrin ketone	ug/L	ND	0.0500	0.0219	06/16/23 11:23	
Hexachlorobenzene	ug/L	ND	0.0500	0.0176	06/16/23 11:23	
Heptachlor	ug/L	ND	0.0500	0.0148	06/16/23 11:23	
Heptachlor epoxide	ug/L	ND	0.0500	0.0183	06/16/23 11:23	
Methoxychlor	ug/L	ND	0.0500	0.0193	06/16/23 11:23	
Toxaphene	ug/L	ND	0.500	0.168	06/16/23 11:23	
Decachlorobiphenyl (S)	%	62.2	10.0-128		06/16/23 11:23	
Tetrachloro-m-xylene (S)	%	70.9	10.0-127		06/16/23 11:23	

LABORATORY CONTROL SAMPLE & LCSD: R3938262-2 R3938262-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Aldrin	ug/L	1.00	0.768	0.831	76.8	83.1	22.0-124	7.88	34	
alpha-BHC	ug/L	1.00	0.826	0.865	82.6	86.5	54.0-130	4.61	23	
beta-BHC	ug/L	1.00	0.856	0.886	85.6	88.6	53.0-136	3.44	20	
delta-BHC	ug/L	1.00	0.876	0.918	87.6	91.8	54.0-133	4.68	20	
gamma-BHC (Lindane)	ug/L	1.00	0.874	0.908	87.4	90.8	55.0-129	3.82	20	
4,4'-DDD	ug/L	1.00	0.843	0.900	84.3	90.0	56.0-140	6.54	22	
4,4'-DDE	ug/L	1.00	0.747	0.834	74.7	83.4	52.0-128	11.0	22	
4,4'-DDT	ug/L	1.00	0.890	0.963	89.0	96.3	50.0-141	7.88	23	
Dieldrin	ug/L	1.00	0.875	0.911	87.5	91.1	59.0-133	4.03	20	
Endosulfan I	ug/L	1.00	0.807	0.829	80.7	82.9	57.0-131	2.69	20	
Endosulfan II	ug/L	1.00	0.866	0.893	86.6	89.3	58.0-133	3.07	20	
Endosulfan sulfate	ug/L	1.00	0.834	0.851	83.4	85.1	58.0-133	2.02	21	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

LABORATORY CONTROL SAMPLE & LCSD: R3938262-2 R3938262-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Endrin	ug/L	1.00	0.937	0.960	93.7	96.0	57.0-134	2.42	21	
Endrin aldehyde	ug/L	1.00	0.815	0.854	81.5	85.4	53.0-129	4.67	20	
Endrin ketone	ug/L	1.00	0.869	0.882	86.9	88.2	60.0-145	1.48	20	
Hexachlorobenzene	ug/L	1.00	0.693	0.748	69.3	74.8	30.0-114	7.63	30	
Heptachlor	ug/L	1.00	0.894	0.959	89.4	95.9	27.0-132	7.02	31	
Heptachlor epoxide	ug/L	1.00	0.820	0.877	82.0	87.7	57.0-130	6.72	20	
Methoxychlor	ug/L	1.00	0.908	0.975	90.8	97.5	54.0-155	7.12	24	
Decachlorobiphenyl (S)	%				36.8	22.0	10.0-128			
Tetrachloro-m-xylene (S)	%				67.3	72.6	10.0-127			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 2078827
QC Batch Method: 3510C
Analysis Method: EPA 8081
Analysis Description: Pesticides (GC) 8081
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20279949001, 20279949002, 20279949003, 20279949004, 20279949005, 20279949006, 20279949007, 20279949008, 20279949021, 20279949022, 20279949026

METHOD BLANK: R3938300-1 Matrix: Water
Associated Lab Samples: 20279949001, 20279949002, 20279949003, 20279949004, 20279949005, 20279949006, 20279949007, 20279949008, 20279949021, 20279949022, 20279949026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Aldrin	ug/L	ND	0.0500	0.0198	06/16/23 23:48	
alpha-BHC	ug/L	ND	0.0500	0.0172	06/16/23 23:48	
beta-BHC	ug/L	ND	0.0500	0.0208	06/16/23 23:48	
delta-BHC	ug/L	ND	0.0500	0.0150	06/16/23 23:48	
gamma-BHC (Lindane)	ug/L	ND	0.0500	0.0209	06/16/23 23:48	
Chlordane (Technical)	ug/L	ND	5.00	0.0198	06/16/23 23:48	
4,4'-DDD	ug/L	ND	0.0500	0.0177	06/16/23 23:48	
4,4'-DDE	ug/L	ND	0.0500	0.0154	06/16/23 23:48	
4,4'-DDT	ug/L	ND	0.0500	0.0198	06/16/23 23:48	
Dieldrin	ug/L	ND	0.0500	0.0162	06/16/23 23:48	
Endosulfan I	ug/L	ND	0.0500	0.0160	06/16/23 23:48	
Endosulfan II	ug/L	ND	0.0500	0.0164	06/16/23 23:48	
Endosulfan sulfate	ug/L	ND	0.0500	0.0217	06/16/23 23:48	
Endrin	ug/L	ND	0.0500	0.0161	06/16/23 23:48	
Endrin aldehyde	ug/L	ND	0.0500	0.0237	06/16/23 23:48	
Endrin ketone	ug/L	ND	0.0500	0.0219	06/16/23 23:48	
Hexachlorobenzene	ug/L	ND	0.0500	0.0176	06/16/23 23:48	
Heptachlor	ug/L	ND	0.0500	0.0148	06/16/23 23:48	
Heptachlor epoxide	ug/L	ND	0.0500	0.0183	06/16/23 23:48	
Methoxychlor	ug/L	ND	0.0500	0.0193	06/16/23 23:48	
Toxaphene	ug/L	ND	0.500	0.168	06/16/23 23:48	
Decachlorobiphenyl (S)	%	24.9	10.0-128		06/16/23 23:48	
Tetrachloro-m-xylene (S)	%	54.8	10.0-127		06/16/23 23:48	

LABORATORY CONTROL SAMPLE: R3938300-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aldrin	ug/L	1.00	0.659	65.9	22.0-124	
alpha-BHC	ug/L	1.00	0.758	75.8	54.0-130	
beta-BHC	ug/L	1.00	0.700	70.0	53.0-136	
delta-BHC	ug/L	1.00	0.747	74.7	54.0-133	
gamma-BHC (Lindane)	ug/L	1.00	0.760	76.0	55.0-129	
4,4'-DDD	ug/L	1.00	0.725	72.5	56.0-140	
4,4'-DDE	ug/L	1.00	0.613	61.3	52.0-128	
4,4'-DDT	ug/L	1.00	0.618	61.8	50.0-141	
Dieldrin	ug/L	1.00	0.792	79.2	59.0-133	
Endosulfan I	ug/L	1.00	0.784	78.4	57.0-131	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

LABORATORY CONTROL SAMPLE: R3938300-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Endosulfan II	ug/L	1.00	0.791	79.1	58.0-133	
Endosulfan sulfate	ug/L	1.00	0.779	77.9	58.0-133	
Endrin	ug/L	1.00	0.753	75.3	57.0-134	
Endrin aldehyde	ug/L	1.00	0.738	73.8	53.0-129	
Endrin ketone	ug/L	1.00	0.787	78.7	60.0-145	
Hexachlorobenzene	ug/L	1.00	0.684	68.4	30.0-114	
Heptachlor	ug/L	1.00	0.716	71.6	27.0-132	
Heptachlor epoxide	ug/L	1.00	0.787	78.7	57.0-130	
Methoxychlor	ug/L	1.00	0.738	73.8	54.0-155	
Decachlorobiphenyl (S)	%			12.5	10.0-128	
Tetrachloro-m-xylene (S)	%			61.2	10.0-127	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3938300-3 R3938300-4

Parameter	Units	L1626343-03 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Aldrin	ug/L	ND	1.00	1.00	0.584	0.579	58.4	57.9	10.0-141	0.860	40	
alpha-BHC	ug/L	ND	1.00	1.00	0.689	0.647	68.9	64.7	10.0-145	6.29	40	
beta-BHC	ug/L	ND	1.00	1.00	0.653	0.601	65.3	60.1	14.0-146	8.29	35	
delta-BHC	ug/L	ND	1.00	1.00	0.679	0.622	67.9	62.2	17.0-143	8.76	38	
gamma-BHC (Lindane)	ug/L	ND	1.00	1.00	0.683	0.635	68.3	63.5	14.0-141	7.28	40	
4,4'-DDD	ug/L	ND	1.00	1.00	0.660	0.623	66.0	62.3	10.0-160	5.77	38	
4,4'-DDE	ug/L	ND	1.00	1.00	0.574	0.523	57.4	52.3	10.0-159	9.30	35	
4,4'-DDT	ug/L	ND	1.00	1.00	0.583	0.540	58.3	54.0	10.0-160	7.66	38	
Dieldrin	ug/L	0.0335	1.00	1.00	0.735	0.696	71.4	67.5	10.0-158	5.45	38	
Endosulfan I	ug/L	ND	1.00	1.00	0.704	0.667	70.4	66.7	10.0-153	5.40	36	
Endosulfan II	ug/L	ND	1.00	1.00	0.708	0.666	70.8	66.6	10.0-159	6.11	39	
Endosulfan sulfate	ug/L	ND	1.00	1.00	0.704	0.661	70.4	66.1	23.0-147	6.30	35	
Endrin	ug/L	ND	1.00	1.00	0.688	0.652	68.8	65.2	10.0-160	5.37	39	
Endrin aldehyde	ug/L	ND	1.00	1.00	0.672	0.602	67.2	60.2	10.0-148	11.0	38	
Endrin ketone	ug/L	ND	1.00	1.00	0.710	0.655	71.0	65.5	10.0-160	8.06	40	
Hexachlorobenzene	ug/L	ND	1.00	1.00	0.617	0.622	61.7	62.2	10.0-130	0.807	40	
Heptachlor	ug/L	ND	1.00	1.00	0.638	0.645	63.8	64.5	16.0-136	1.09	40	
Heptachlor epoxide	ug/L	ND	1.00	1.00	0.703	0.666	70.3	66.6	10.0-160	5.41	36	
Methoxychlor	ug/L	ND	1.00	1.00	0.666	0.639	66.6	63.9	10.0-160	4.14	34	
Decachlorobiphenyl (S)	%						33.4	29.9	10.0-128			
Tetrachloro-m-xylene (S)	%						57.4	58.3	10.0-127			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 2077931
QC Batch Method: 3510C
Analysis Method: EPA 8141
Analysis Description: OP Pesticides 8141
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20279949012, 20279949013

METHOD BLANK: R3938473-1 Matrix: Water
Associated Lab Samples: 20279949012, 20279949013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Azinphos, methyl (Guthion)	ug/L	ND	1.00	0.534	06/16/23 15:35	
Bolstar	ug/L	ND	1.00	0.214	06/16/23 15:35	
Chlorpyrifos	ug/L	ND	1.00	0.320	06/16/23 15:35	
Coumaphos	ug/L	ND	1.00	0.410	06/16/23 15:35	
Total Demeton	ug/L	ND	2.00	0.626	06/16/23 15:35	
Diazinon	ug/L	ND	1.00	0.302	06/16/23 15:35	
Dichlorvos	ug/L	ND	2.00	0.196	06/16/23 15:35	
Dimethoate	ug/L	ND	1.00	0.327	06/16/23 15:35	
Disulfoton	ug/L	ND	1.00	0.227	06/16/23 15:35	
EPN (ENT)	ug/L	ND	1.00	0.129	06/16/23 15:35	
Ethoprop	ug/L	ND	1.00	0.293	06/16/23 15:35	
Parathion (Ethyl parathion)	ug/L	ND	1.00	0.454	06/16/23 15:35	
Fensulfothion	ug/L	ND	2.00	0.405	06/16/23 15:35	
Fenthion	ug/L	ND	1.00	0.213	06/16/23 15:35	
Malathion	ug/L	ND	1.00	0.354	06/16/23 15:35	
Merphos	ug/L	ND	2.00	1.32	06/16/23 15:35	
Methyl parathion	ug/L	ND	1.00	0.383	06/16/23 15:35	
Mevinphos	ug/L	ND	1.00	0.275	06/16/23 15:35	
Naled	ug/L	ND	1.00	0.594	06/16/23 15:35	
Phorate	ug/L	ND	1.00	0.276	06/16/23 15:35	
Ronnel	ug/L	ND	1.00	0.277	06/16/23 15:35	
Stirophos (Tetrachlorvinphos)	ug/L	ND	1.00	0.277	06/16/23 15:35	
Sulfotepp (Thiodiphosphoric Ac	ug/L	ND	1.00	0.181	06/16/23 15:35	
TEPP	ug/L	ND	10.0	3.11	06/16/23 15:35	
Tokuthion (Prothiofos)	ug/L	ND	1.00	0.241	06/16/23 15:35	
Trichloronate	ug/L	ND	1.00	0.306	06/16/23 15:35	
Triphenylphosphate (S)	%	68.2	42.0-129		06/16/23 15:35	

LABORATORY CONTROL SAMPLE: R3938473-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Azinphos, methyl (Guthion)	ug/L	5.00	4.79	95.8	43.0-142	
Bolstar	ug/L	5.00	4.32	86.4	47.0-128	
Chlorpyrifos	ug/L	5.00	3.96	79.2	50.0-126	
Coumaphos	ug/L	5.00	4.37	87.4	37.0-137	
Total Demeton	ug/L	2.50	1.79	71.6	22.0-150	
Diazinon	ug/L	5.00	4.07	81.4	54.0-130	
Dichlorvos	ug/L	5.00	3.36	67.2	43.0-135	
Dimethoate	ug/L	5.00	3.39	67.8	27.0-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

LABORATORY CONTROL SAMPLE: R3938473-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Disulfoton	ug/L	5.00	3.10	62.0	44.0-136	
EPN (ENT)	ug/L	5.00	4.15	83.0	31.0-143	
Ethoprop	ug/L	5.00	4.04	80.8	52.0-130	
Parathion (Ethyl parathion)	ug/L	5.00	4.05	81.0	42.0-134	
Fensulfothion	ug/L	5.00	4.87	97.4	42.0-137	
Fenthion	ug/L	5.00	3.87	77.4	53.0-133	
Malathion	ug/L	5.00	4.14	82.8	47.0-121	
Merphos	ug/L	5.00	3.58	71.6	14.0-123	
Methyl parathion	ug/L	5.00	4.03	80.6	43.0-135	
Mevinphos	ug/L	5.00	4.83	96.6	49.0-123	
Naled	ug/L	5.00	3.65	73.0	25.0-126	
Phorate	ug/L	5.00	3.57	71.4	44.0-129	
Ronnel	ug/L	5.00	3.93	78.6	51.0-125	
Stirophos (Tetrachlorvinphos)	ug/L	5.00	4.38	87.6	53.0-125	
Sulfotepp (Thiodiphosphoric Ac	ug/L	5.00	3.91	78.2	40.0-140	
TEPP	ug/L	50.0	32.0	64.0	18.0-122	
Tokuthion (Prothiofos)	ug/L	5.00	4.03	80.6	50.0-128	
Trichloronate	ug/L	5.00	3.85	77.0	47.0-130	
Triphenylphosphate (S)	%			86.4	42.0-129	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3938473-3 R3938473-4

Parameter	Units	L1625819-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Azinphos, methyl (Guthion)	ug/L	ND	5.00	5.00	3.22	4.55	64.4	91.0	29.0-157	34.2	20	R1
Bolstar	ug/L	ND	5.00	5.00	2.98	4.19	59.6	83.8	37.0-138	33.8	20	R1
Chlorpyrifos	ug/L	ND	5.00	5.00	2.67	3.96	53.4	79.2	42.0-131	38.9	20	R1
Coumaphos	ug/L	ND	5.00	5.00	2.98	4.17	59.6	83.4	31.0-150	33.3	20	R1
Total Demeton	ug/L	ND	2.50	2.50	1.32	1.94	52.8	77.6	30.0-152	38.0	20	R1
Diazinon	ug/L	ND	5.00	5.00	2.62	3.83	52.4	76.6	47.0-134	37.5	20	R1
Dichlorvos	ug/L	ND	5.00	5.00	2.11	3.02	42.2	60.4	39.0-140	35.5	22	R1
Dimethoate	ug/L	ND	5.00	5.00	2.45	3.69	49.0	73.8	17.0-129	40.4	20	R1
Disulfoton	ug/L	ND	5.00	5.00	2.33	3.49	46.6	69.8	42.0-131	39.9	21	R1
EPN (ENT)	ug/L	ND	5.00	5.00	2.98	4.22	59.6	84.4	17.0-155	34.4	20	R1
Ethoprop	ug/L	ND	5.00	5.00	2.53	3.83	50.6	76.6	46.0-133	40.9	20	R1
Parathion (Ethyl parathion)	ug/L	ND	5.00	5.00	2.82	4.12	56.4	82.4	30.0-138	37.5	20	R1
Fensulfothion	ug/L	ND	5.00	5.00	3.29	4.62	65.8	92.4	36.0-145	33.6	20	R1
Fenthion	ug/L	ND	5.00	5.00	2.69	3.94	53.8	78.8	46.0-140	37.7	20	R1
Malathion	ug/L	ND	5.00	5.00	2.86	4.14	57.2	82.8	39.0-126	36.6	20	R1
Merphos	ug/L	ND	5.00	5.00	2.46	3.55	49.2	71.0	10.0-120	36.3	27	R1
Methyl parathion	ug/L	ND	5.00	5.00	2.70	3.97	54.0	79.4	28.0-142	38.1	20	R1
Mevinphos	ug/L	ND	5.00	5.00	2.96	4.35	59.2	87.0	38.0-134	38.0	20	R1
Naled	ug/L	ND	5.00	5.00	2.28	3.43	45.6	68.6	14.0-130	40.3	20	R1
Phorate	ug/L	ND	5.00	5.00	2.28	3.44	45.6	68.8	38.0-134	40.6	20	R1
Ronnel	ug/L	ND	5.00	5.00	2.61	3.90	52.2	78.0	42.0-131	39.6	20	R1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3938473-3 R3938473-4

Parameter	Units	L1625819-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Stirophos (Tetrachlorvinphos)	ug/L	ND	5.00	5.00	3.01	4.24	60.2	84.8	33.0-143	33.9	20	R1
Sulfotepp (Thiodiphosphoric Ac	ug/L	ND	5.00	5.00	2.52	3.81	50.4	76.2	34.0-143	40.8	20	R1
TEPP	ug/L	ND	50.0	50.0	23.4	35.8	46.8	71.6	38.0-120	41.9	25	R1
Tokuthion (Prothiofos)	ug/L	ND	5.00	5.00	2.87	4.19	57.4	83.8	35.0-140	37.4	24	R1
Trichloronate	ug/L	ND	5.00	5.00	2.57	3.86	51.4	77.2	41.0-133	40.1	20	R1
Triphenylphosphate (S)	%						56.8	78.4	42.0-129			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 2078849
QC Batch Method: 3510C
Analysis Method: EPA 8141
Analysis Description: OP Pesticides 8141
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 20279949007

METHOD BLANK: R3938666-1 Matrix: Water
Associated Lab Samples: 20279949007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Azinphos, methyl (Guthion)	ug/L	ND	1.00	0.534	06/19/23 13:39	
Bolstar	ug/L	ND	1.00	0.214	06/19/23 13:39	
Chlorpyrifos	ug/L	ND	1.00	0.320	06/19/23 13:39	
Coumaphos	ug/L	ND	1.00	0.410	06/19/23 13:39	
Total Demeton	ug/L	ND	2.00	0.626	06/19/23 13:39	
Diazinon	ug/L	ND	1.00	0.302	06/19/23 13:39	
Dichlorvos	ug/L	ND	2.00	0.196	06/19/23 13:39	
Dimethoate	ug/L	ND	1.00	0.327	06/19/23 13:39	
Disulfoton	ug/L	ND	1.00	0.227	06/19/23 13:39	
EPN (ENT)	ug/L	ND	1.00	0.129	06/19/23 13:39	
Ethoprop	ug/L	ND	1.00	0.293	06/19/23 13:39	
Parathion (Ethyl parathion)	ug/L	ND	1.00	0.454	06/19/23 13:39	
Fensulfothion	ug/L	ND	2.00	0.405	06/19/23 13:39	
Fenthion	ug/L	ND	1.00	0.213	06/19/23 13:39	
Malathion	ug/L	ND	1.00	0.354	06/19/23 13:39	
Merphos	ug/L	ND	2.00	1.32	06/19/23 13:39	
Methyl parathion	ug/L	ND	1.00	0.383	06/19/23 13:39	
Mevinphos	ug/L	ND	1.00	0.275	06/19/23 13:39	
Naled	ug/L	ND	1.00	0.594	06/19/23 13:39	
Phorate	ug/L	ND	1.00	0.276	06/19/23 13:39	
Ronnel	ug/L	ND	1.00	0.277	06/19/23 13:39	
Stirophos (Tetrachlorvinphos)	ug/L	ND	1.00	0.277	06/19/23 13:39	
Sulfotepp (Thiodiphosphoric Ac	ug/L	ND	1.00	0.181	06/19/23 13:39	
TEPP	ug/L	ND	10.0	3.11	06/19/23 13:39	
Tokuthion (Prothiofos)	ug/L	ND	1.00	0.241	06/19/23 13:39	
Trichloronate	ug/L	ND	1.00	0.306	06/19/23 13:39	
Triphenylphosphate (S)	%	82.8	42.0-129		06/19/23 13:39	

LABORATORY CONTROL SAMPLE: R3938666-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Azinphos, methyl (Guthion)	ug/L	5.00	4.55	91.0	43.0-142	
Bolstar	ug/L	5.00	4.54	90.8	47.0-128	
Chlorpyrifos	ug/L	5.00	4.52	90.4	50.0-126	
Coumaphos	ug/L	5.00	4.42	88.4	37.0-137	
Total Demeton	ug/L	2.50	2.20	88.0	22.0-150	
Diazinon	ug/L	5.00	4.53	90.6	54.0-130	
Dichlorvos	ug/L	5.00	3.74	74.8	43.0-135	
Dimethoate	ug/L	5.00	3.70	74.0	27.0-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

LABORATORY CONTROL SAMPLE: R3938666-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Disulfoton	ug/L	5.00	4.11	82.2	44.0-136	
EPN (ENT)	ug/L	5.00	4.56	91.2	31.0-143	
Ethoprop	ug/L	5.00	4.58	91.6	52.0-130	
Parathion (Ethyl parathion)	ug/L	5.00	4.69	93.8	42.0-134	
Fensulfothion	ug/L	5.00	4.85	97.0	42.0-137	
Fenthion	ug/L	5.00	4.43	88.6	53.0-133	
Malathion	ug/L	5.00	4.71	94.2	47.0-121	
Merphos	ug/L	5.00	4.06	81.2	14.0-123	
Methyl parathion	ug/L	5.00	4.37	87.4	43.0-135	
Mevinphos	ug/L	5.00	4.27	85.4	49.0-123	
Naled	ug/L	5.00	3.67	73.4	25.0-126	
Phorate	ug/L	5.00	4.30	86.0	44.0-129	
Ronnel	ug/L	5.00	4.48	89.6	51.0-125	
Stirophos (Tetrachlorvinphos)	ug/L	5.00	4.56	91.2	53.0-125	
Sulfotepp (Thiodiphosphoric Ac	ug/L	5.00	4.82	96.4	40.0-140	
TEPP	ug/L	50.0	34.0	68.0	18.0-122	
Tokuthion (Prothiofos)	ug/L	5.00	4.42	88.4	50.0-128	
Trichloronate	ug/L	5.00	4.39	87.8	47.0-130	
Triphenylphosphate (S)	%			90.4	42.0-129	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3938666-3 R3938666-4

Parameter	Units	L1626343-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Azinphos, methyl (Guthion)	ug/L	ND	5.00	5.00	4.43	4.40	88.6	88.0	29.0-157	0.680	20	
Bolstar	ug/L	ND	5.00	5.00	4.36	4.25	87.2	85.0	37.0-138	2.56	20	
Chlorpyrifos	ug/L	ND	5.00	5.00	4.34	4.29	86.8	85.8	42.0-131	1.16	20	
Coumaphos	ug/L	ND	5.00	5.00	4.26	4.21	85.2	84.2	31.0-150	1.18	20	
Total Demeton	ug/L	ND	2.50	2.50	2.12	2.11	84.8	84.4	30.0-152	0.473	20	
Diazinon	ug/L	ND	5.00	5.00	4.35	4.34	87.0	86.8	47.0-134	0.230	20	
Dichlorvos	ug/L	ND	5.00	5.00	3.93	3.89	78.6	77.8	39.0-140	1.02	22	
Dimethoate	ug/L	ND	5.00	5.00	3.51	3.42	70.2	68.4	17.0-129	2.60	20	
Disulfoton	ug/L	ND	5.00	5.00	4.05	3.92	81.0	78.4	42.0-131	3.26	21	
EPN (ENT)	ug/L	ND	5.00	5.00	4.39	4.26	87.8	85.2	17.0-155	3.01	20	
Ethoprop	ug/L	ND	5.00	5.00	4.48	4.51	89.6	90.2	46.0-133	0.667	20	
Parathion (Ethyl parathion)	ug/L	ND	5.00	5.00	4.51	4.46	90.2	89.2	30.0-138	1.11	20	
Fensulfothion	ug/L	ND	5.00	5.00	4.56	4.59	91.2	91.8	36.0-145	0.656	20	
Fenthion	ug/L	ND	5.00	5.00	4.24	4.18	84.8	83.6	46.0-140	1.43	20	
Malathion	ug/L	ND	5.00	5.00	4.55	4.55	91.0	91.0	39.0-126	0.00	20	
Merphos	ug/L	ND	5.00	5.00	4.09	4.07	81.8	81.4	10.0-120	0.490	27	
Methyl parathion	ug/L	ND	5.00	5.00	4.19	4.21	83.8	84.2	28.0-142	0.476	20	
Mevinphos	ug/L	ND	5.00	5.00	4.10	4.03	82.0	80.6	38.0-134	1.72	20	
Naled	ug/L	ND	5.00	5.00	3.52	3.46	70.4	69.2	14.0-130	1.72	20	
Phorate	ug/L	ND	5.00	5.00	4.25	4.22	85.0	84.4	38.0-134	0.708	20	
Ronnel	ug/L	ND	5.00	5.00	4.29	4.20	85.8	84.0	42.0-131	2.12	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3938666-3 R3938666-4

Parameter	Units	L1626343-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Stirophos (Tetrachlorvinphos)	ug/L	ND	5.00	5.00	4.36	4.32	87.2	86.4	33.0-143	0.922	20	
Sulfotepp (Thiodiphosphoric Ac	ug/L	ND	5.00	5.00	4.69	4.69	93.8	93.8	34.0-143	0.00	20	
TEPP	ug/L	ND	50.0	50.0	34.9	32.2	69.8	64.4	38.0-120	8.05	25	
Tokuthion (Prothiofos)	ug/L	ND	5.00	5.00	4.24	4.17	84.8	83.4	35.0-140	1.66	24	
Trichloronate	ug/L	ND	5.00	5.00	4.21	4.13	84.2	82.6	41.0-133	1.92	20	
Triphenylphosphate (S)	%						86.4	86.2	42.0-129			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 2083299
QC Batch Method: 3510C
Analysis Method: EPA 8141
Analysis Description: OP Pesticides 8141
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 20279949014

METHOD BLANK: R3941082-1 Matrix: Water
Associated Lab Samples: 20279949014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Disulfoton	ug/L	ND	1.00	0.227	06/24/23 21:08	
Parathion (Ethyl parathion)	ug/L	ND	1.00	0.454	06/24/23 21:08	
Methyl parathion	ug/L	ND	1.00	0.383	06/24/23 21:08	
Phorate	ug/L	ND	1.00	0.276	06/24/23 21:08	
Sulfotepp (Thiodiphosphoric Ac	ug/L	ND	1.00	0.181	06/24/23 21:08	
Triphenylphosphate (S)	%	75.2	42.0-129		06/24/23 21:08	

LABORATORY CONTROL SAMPLE: R3941082-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Disulfoton	ug/L	5.00	3.14	62.8	44.0-136	
Parathion (Ethyl parathion)	ug/L	5.00	3.72	74.4	42.0-134	
Methyl parathion	ug/L	5.00	3.66	73.2	43.0-135	
Phorate	ug/L	5.00	3.28	65.6	44.0-129	P9
Sulfotepp (Thiodiphosphoric Ac	ug/L	5.00	3.63	72.6	40.0-140	
Triphenylphosphate (S)	%			68.4	42.0-129	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3941082-3 R3941082-4

Parameter	Units	L1628505-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Disulfoton	ug/L	ND	5.00	5.00	3.86	3.84	77.2	76.8	42.0-131	0.519	21	
Parathion (Ethyl parathion)	ug/L	ND	5.00	5.00	4.04	3.89	80.8	77.8	30.0-138	3.78	20	
Methyl parathion	ug/L	ND	5.00	5.00	3.84	3.74	76.8	74.8	28.0-142	2.64	20	
Phorate	ug/L	ND	5.00	5.00	3.66	3.61	73.2	72.2	38.0-134	1.38	20	
Sulfotepp (Thiodiphosphoric Ac	ug/L	ND	5.00	5.00	3.89	3.80	77.8	76.0	34.0-143	2.34	20	P9
Triphenylphosphate (S)	%						74.0	70.8	42.0-129			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 289026
QC Batch Method: EPA 3010
Analysis Method: EPA 6020A
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20279949009, 20279949010, 20279949011, 20279949012, 20279949013, 20279949014, 20279949015, 20279949016, 20279949017, 20279949018, 20279949019, 20279949020, 20279949025

METHOD BLANK: 1385563
Matrix: Water
Associated Lab Samples: 20279949009, 20279949010, 20279949011, 20279949012, 20279949013, 20279949014, 20279949015, 20279949016, 20279949017, 20279949018, 20279949019, 20279949020, 20279949025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.00034	06/20/23 16:06	
Arsenic	mg/L	ND	0.0010	0.00010	06/20/23 16:06	
Barium	mg/L	0.0025	0.0010	0.00064	06/20/23 16:06	
Beryllium	mg/L	ND	0.0010	0.00021	06/20/23 16:06	
Cadmium	mg/L	ND	0.0010	0.00019	06/20/23 16:06	
Chromium	mg/L	ND	0.0010	0.00063	06/20/23 16:06	
Cobalt	mg/L	ND	0.0010	0.00012	06/20/23 16:06	
Copper	mg/L	ND	0.0030	0.0017	06/20/23 16:06	
Lead	mg/L	ND	0.0010	0.00069	06/20/23 16:06	
Nickel	mg/L	ND	0.0010	0.00062	06/20/23 16:06	
Selenium	mg/L	ND	0.0010	0.00026	06/20/23 16:06	
Silver	mg/L	ND	0.00050	0.00020	06/20/23 16:06	
Thallium	mg/L	ND	0.00050	0.00011	06/20/23 16:06	
Tin	mg/L	ND	0.0060	0.00065	06/20/23 16:06	
Vanadium	mg/L	ND	0.0050	0.00023	06/20/23 16:06	
Zinc	mg/L	ND	0.010	0.0072	06/20/23 16:06	

LABORATORY CONTROL SAMPLE: 1385564

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.06	0.060	100	85-115	
Arsenic	mg/L	0.06	0.055	92	85-115	
Barium	mg/L	0.06	0.056	94	85-115	
Beryllium	mg/L	0.06	0.059	98	84-115	
Cadmium	mg/L	0.06	0.056	93	85-115	
Chromium	mg/L	0.06	0.056	94	85-115	
Cobalt	mg/L	0.06	0.056	94	85-115	
Copper	mg/L	0.06	0.057	94	85-116	
Lead	mg/L	0.06	0.057	94	85-115	
Nickel	mg/L	0.06	0.056	94	85-115	
Selenium	mg/L	0.06	0.054	90	85-115	
Silver	mg/L	0.03	0.029	97	85-115	
Thallium	mg/L	0.03	0.029	96	85-115	
Tin	mg/L	0.06	0.063	104	85-115	
Vanadium	mg/L	0.06	0.057	94	85-115	
Zinc	mg/L	0.06	0.055	92	85-121	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1385565 1385566

Parameter	Units	20279949009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.06	0.06	0.059	0.060	98	100	80-120	2	20	
Arsenic	mg/L	0.0044	0.06	0.06	0.058	0.060	89	92	80-120	2	20	
Barium	mg/L	0.073	0.06	0.06	0.12	0.13	86	95	80-120	4	20	
Beryllium	mg/L	ND	0.06	0.06	0.055	0.056	91	93	80-120	3	20	
Cadmium	mg/L	ND	0.06	0.06	0.053	0.053	88	89	80-120	1	20	
Chromium	mg/L	ND	0.06	0.06	0.053	0.053	88	88	80-120	0	20	
Cobalt	mg/L	0.0011	0.06	0.06	0.052	0.052	84	85	80-120	0	20	
Copper	mg/L	ND	0.06	0.06	0.050	0.050	82	82	80-120	0	20	
Lead	mg/L	ND	0.06	0.06	0.055	0.056	92	93	80-120	2	20	
Nickel	mg/L	0.00069J	0.06	0.06	0.051	0.051	84	83	80-120	1	20	
Selenium	mg/L	ND	0.06	0.06	0.053	0.055	88	91	80-120	3	20	
Silver	mg/L	ND	0.03	0.03	0.026	0.026	87	88	80-120	2	20	
Thallium	mg/L	ND	0.03	0.03	0.028	0.028	95	95	80-120	0	20	
Tin	mg/L	ND	0.06	0.06	0.061	0.061	100	101	80-120	1	20	
Vanadium	mg/L	ND	0.06	0.06	0.055	0.056	92	93	80-120	1	20	
Zinc	mg/L	ND	0.06	0.06	0.054	0.058	82	89	80-120	7	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 289239
QC Batch Method: EPA 3010
Analysis Method: EPA 6020A
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20279949001, 20279949002, 20279949003, 20279949004, 20279949005, 20279949006, 20279949007, 20279949008, 20279949021, 20279949022, 20279949026

METHOD BLANK: 1386729 Matrix: Water
Associated Lab Samples: 20279949001, 20279949002, 20279949003, 20279949004, 20279949005, 20279949006, 20279949007, 20279949008, 20279949021, 20279949022, 20279949026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.00034	06/20/23 16:17	
Arsenic	mg/L	0.00012J	0.0010	0.00010	06/20/23 16:17	
Barium	mg/L	ND	0.0010	0.00064	06/20/23 16:17	
Beryllium	mg/L	ND	0.0010	0.00021	06/20/23 16:17	
Cadmium	mg/L	ND	0.0010	0.00019	06/20/23 16:17	
Chromium	mg/L	ND	0.0010	0.00063	06/20/23 16:17	
Cobalt	mg/L	ND	0.0010	0.00012	06/20/23 16:17	
Copper	mg/L	ND	0.0030	0.0017	06/20/23 16:17	
Lead	mg/L	ND	0.0010	0.00069	06/20/23 16:17	
Nickel	mg/L	ND	0.0010	0.00062	06/20/23 16:17	
Selenium	mg/L	ND	0.0010	0.00026	06/20/23 16:17	
Silver	mg/L	ND	0.00050	0.00020	06/20/23 16:17	
Thallium	mg/L	ND	0.00050	0.00011	06/20/23 16:17	
Tin	mg/L	ND	0.0060	0.00065	06/20/23 16:17	
Vanadium	mg/L	ND	0.0050	0.00023	06/20/23 16:17	
Zinc	mg/L	ND	0.010	0.0072	06/20/23 16:17	

LABORATORY CONTROL SAMPLE: 1386730

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.06	0.062	103	85-115	
Arsenic	mg/L	0.06	0.061	101	85-115	
Barium	mg/L	0.06	0.060	100	85-115	
Beryllium	mg/L	0.06	0.062	103	84-115	
Cadmium	mg/L	0.06	0.061	102	85-115	
Chromium	mg/L	0.06	0.062	103	85-115	
Cobalt	mg/L	0.06	0.061	102	85-115	
Copper	mg/L	0.06	0.062	103	85-116	
Lead	mg/L	0.06	0.062	103	85-115	
Nickel	mg/L	0.06	0.062	103	85-115	
Selenium	mg/L	0.06	0.057	95	85-115	
Silver	mg/L	0.03	0.032	105	85-115	
Thallium	mg/L	0.03	0.031	103	85-115	
Tin	mg/L	0.06	0.065	109	85-115	
Vanadium	mg/L	0.06	0.062	104	85-115	
Zinc	mg/L	0.06	0.062	104	85-121	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1386731 1386732

Parameter	Units	20279949026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.06	0.06	0.062	0.061	102	100	80-120	2	20	
Arsenic	mg/L	0.0026J	0.06	0.06	0.061	0.060	97	95	80-120	1	20	
Barium	mg/L	0.088	0.06	0.06	0.14	0.14	93	93	80-120	0	20	
Beryllium	mg/L	ND	0.06	0.06	0.058	0.058	97	97	80-120	0	20	
Cadmium	mg/L	ND	0.06	0.06	0.057	0.055	95	92	80-120	3	20	
Chromium	mg/L	ND	0.06	0.06	0.059	0.057	95	93	80-120	2	20	
Cobalt	mg/L	0.0025J	0.06	0.06	0.057	0.056	90	89	80-120	1	20	
Copper	mg/L	ND	0.06	0.06	0.054	0.053	87	85	80-120	2	20	
Lead	mg/L	ND	0.06	0.06	0.060	0.060	100	99	80-120	1	20	
Nickel	mg/L	ND	0.06	0.06	0.056	0.056	90	89	80-120	1	20	
Selenium	mg/L	ND	0.06	0.06	0.060	0.059	99	98	80-120	1	20	
Silver	mg/L	ND	0.03	0.03	0.028	0.027	92	90	80-120	2	20	
Thallium	mg/L	ND	0.03	0.03	0.030	0.030	99	98	80-120	1	20	
Tin	mg/L	ND	0.06	0.06	0.063	0.062	103	101	80-120	2	20	
Vanadium	mg/L	ND	0.06	0.06	0.060	0.059	100	98	80-120	1	20	
Zinc	mg/L	ND	0.06	0.06	0.058	0.057	86	86	80-120	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 289647
QC Batch Method: EPA 3010
Analysis Method: EPA 6020A
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20279949020

METHOD BLANK: 1388540 Matrix: Water
Associated Lab Samples: 20279949020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	mg/L	ND	0.0010	0.00064	06/23/23 19:55	

LABORATORY CONTROL SAMPLE: 1388541

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/L	0.06	0.058	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1388542 1388543

Parameter	Units	20280733001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	ND	0.06	0.06	0.061	0.061	101	101	80-120	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 767631
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470
Analysis Description: EPA 7470A
Laboratory: Pace Analytical Gulf Coast
Associated Lab Samples: 20279949001, 20279949002, 20279949003, 20279949004, 20279949005, 20279949006, 20279949007, 20279949008, 20279949009, 20279949010, 20279949011, 20279949012, 20279949013, 20279949014, 20279949015, 20279949016, 20279949017, 20279949018, 20279949019

METHOD BLANK: 2492958
Matrix: Water
Associated Lab Samples: 20279949001, 20279949002, 20279949003, 20279949004, 20279949005, 20279949006, 20279949007, 20279949008, 20279949009, 20279949010, 20279949011, 20279949012, 20279949013, 20279949014, 20279949015, 20279949016, 20279949017, 20279949018, 20279949019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00010	06/26/23 13:47	

LABORATORY CONTROL SAMPLE: 2492959

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.005	0.0058	117	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2492960 2492961

Parameter	Units	20279949001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	<0.00020	0.005	0.005	0.0065	0.0068	130	136	80-120	4	20	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 767632
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470
Analysis Description: EPA 7470A
Laboratory: Pace Analytical Gulf Coast
Associated Lab Samples: 20279949020, 20279949021, 20279949022, 20279949025, 20279949026

METHOD BLANK: 2492962 Matrix: Water
Associated Lab Samples: 20279949020, 20279949021, 20279949022, 20279949025, 20279949026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00010	06/20/23 15:30	

LABORATORY CONTROL SAMPLE: 2492963

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.005	0.0043	87	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 2081083
QC Batch Method: 3510C
Analysis Method: EPA 8270C Modified
Analysis Description: SVOA (GC/MS) 8270 C-mod
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20279949001, 20279949002, 20279949003, 20279949004, 20279949005, 20279949009, 20279949010, 20279949011, 20279949012, 20279949013, 20279949014, 20279949015, 20279949016, 20279949017, 20279949018, 20279949019, 20279949020, 20279949025

METHOD BLANK: R3941202-3 Matrix: Water
Associated Lab Samples: 20279949001, 20279949002, 20279949003, 20279949004, 20279949005, 20279949009, 20279949010, 20279949011, 20279949012, 20279949013, 20279949014, 20279949015, 20279949016, 20279949017, 20279949018, 20279949019, 20279949020, 20279949025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.186J	0.400	0.0447	06/23/23 14:45	B,J
Nitrobenzene-d5 (S)	%	75.4	10.0-120		06/23/23 14:45	

LABORATORY CONTROL SAMPLE & LCSD: R3941202-1 R3941202-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	50.0	63.2	61.7	126	123	73.0-146	2.40	20	
Nitrobenzene-d5 (S)	%				76.4	85.2	10.0-120			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 2081171
QC Batch Method: 3510C
Analysis Method: EPA 8270C Modified
Analysis Description: SVOA (GC/MS) 8270 C-mod
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20279949006, 20279949007, 20279949008, 20279949021, 20279949022, 20279949026

METHOD BLANK: R3940710-3 Matrix: Water
Associated Lab Samples: 20279949006, 20279949007, 20279949008, 20279949021, 20279949022, 20279949026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.294J	0.400	0.0447	06/21/23 04:21	B,J
Nitrobenzene-d5 (S)	%	39.5	10.0-120		06/21/23 04:21	

LABORATORY CONTROL SAMPLE & LCSD: R3940710-1 R3940710-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	50.0	58.5	59.4	117	119	73.0-146	1.53	20	
Nitrobenzene-d5 (S)	%				57.5	49.0	10.0-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 2078015
QC Batch Method: 3510C
Analysis Method: EPA 8270C
Analysis Description: SVOA (GC/MS) 8270C
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20279949009, 20279949010, 20279949011, 20279949012, 20279949013, 20279949014, 20279949015, 20279949016, 20279949017, 20279949018, 20279949019, 20279949020, 20279949025

METHOD BLANK: R3938230-3
Matrix: Water
Associated Lab Samples: 20279949009, 20279949010, 20279949011, 20279949012, 20279949013, 20279949014, 20279949015, 20279949016, 20279949017, 20279949018, 20279949019, 20279949020, 20279949025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	1.00	0.0886	06/17/23 18:16	
Acenaphthylene	ug/L	ND	1.00	0.0921	06/17/23 18:16	
Acetophenone	ug/L	ND	10.0	0.208	06/17/23 18:16	
Aniline	ug/L	ND	10.0	1.65	06/17/23 18:16	
Anthracene	ug/L	ND	1.00	0.0804	06/17/23 18:16	
Benzo(a)anthracene	ug/L	ND	1.00	0.199	06/17/23 18:16	
Benzo(b)fluoranthene	ug/L	ND	1.00	0.130	06/17/23 18:16	
Benzo(k)fluoranthene	ug/L	ND	1.00	0.120	06/17/23 18:16	
Benzo(g,h,i)perylene	ug/L	ND	1.00	0.121	06/17/23 18:16	
Benzo(a)pyrene	ug/L	ND	1.00	0.0381	06/17/23 18:16	
Benzyl alcohol	ug/L	ND	10.0	0.563	06/17/23 18:16	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	0.116	06/17/23 18:16	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	0.137	06/17/23 18:16	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	10.0	0.210	06/17/23 18:16	
4-Bromophenylphenyl ether	ug/L	ND	10.0	0.0877	06/17/23 18:16	
4-Chloroaniline	ug/L	ND	10.0	0.234	06/17/23 18:16	
2-Chloronaphthalene	ug/L	ND	1.00	0.0648	06/17/23 18:16	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	0.0926	06/17/23 18:16	
Chrysene	ug/L	ND	1.00	0.130	06/17/23 18:16	
Dibenz(a,h)anthracene	ug/L	ND	1.00	0.0644	06/17/23 18:16	
Dibenzofuran	ug/L	ND	10.0	0.0970	06/17/23 18:16	
1,2-Dichlorobenzene	ug/L	ND	10.0	0.0713	06/17/23 18:16	
1,3-Dichlorobenzene	ug/L	ND	10.0	0.132	06/17/23 18:16	
1,4-Dichlorobenzene	ug/L	ND	10.0	0.0942	06/17/23 18:16	
3,3'-Dichlorobenzidine	ug/L	ND	10.0	0.212	06/17/23 18:16	
2,4-Dinitrotoluene	ug/L	ND	10.0	0.0983	06/17/23 18:16	
2,6-Dinitrotoluene	ug/L	ND	10.0	0.250	06/17/23 18:16	
Fluoranthene	ug/L	ND	1.00	0.102	06/17/23 18:16	
Fluorene	ug/L	ND	1.00	0.0844	06/17/23 18:16	
Hexachlorobenzene	ug/L	ND	1.00	0.0755	06/17/23 18:16	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	0.0968	06/17/23 18:16	
Hexachlorocyclopentadiene	ug/L	ND	10.0	0.0598	06/17/23 18:16	
Hexachloroethane	ug/L	ND	10.0	0.127	06/17/23 18:16	
Indeno(1,2,3-cd)pyrene	ug/L	ND	1.00	0.279	06/17/23 18:16	
Isophorone	ug/L	ND	10.0	0.143	06/17/23 18:16	
1-Methylnaphthalene	ug/L	ND	1.00	0.0790	06/17/23 18:16	
2-Methylnaphthalene	ug/L	ND	1.00	0.117	06/17/23 18:16	
2-Nitroaniline	ug/L	ND	10.0	0.102	06/17/23 18:16	
3-Nitroaniline	ug/L	ND	10.0	0.0869	06/17/23 18:16	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

METHOD BLANK: R3938230-3 Matrix: Water

Associated Lab Samples: 20279949009, 20279949010, 20279949011, 20279949012, 20279949013, 20279949014, 20279949015, 20279949016, 20279949017, 20279949018, 20279949019, 20279949020, 20279949025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
4-Nitroaniline	ug/L	ND	10.0	0.0910	06/17/23 18:16	
Naphthalene	ug/L	ND	1.00	0.159	06/17/23 18:16	
Nitrobenzene	ug/L	ND	10.0	0.297	06/17/23 18:16	
N-Nitrosodimethylamine	ug/L	ND	10.0	0.998	06/17/23 18:16	
N-Nitrosodiphenylamine	ug/L	ND	10.0	2.37	06/17/23 18:16	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	0.261	06/17/23 18:16	
Phenanthrene	ug/L	ND	1.00	0.112	06/17/23 18:16	
Pyridine	ug/L	ND	10.0	0.627	06/17/23 18:16	
Butylbenzylphthalate	ug/L	ND	3.00	0.765	06/17/23 18:16	
bis(2-Ethylhexyl)phthalate	ug/L	ND	3.00	0.895	06/17/23 18:16	
Di-n-butylphthalate	ug/L	ND	3.00	0.453	06/17/23 18:16	
Diethylphthalate	ug/L	ND	3.00	0.287	06/17/23 18:16	
Dimethylphthalate	ug/L	ND	3.00	0.260	06/17/23 18:16	
Di-n-octylphthalate	ug/L	ND	3.00	0.932	06/17/23 18:16	
Pyrene	ug/L	ND	1.00	0.107	06/17/23 18:16	
1,2,4,5-Tetrachlorobenzene	ug/L	ND	10.0	0.0647	06/17/23 18:16	
1,2,4-Trichlorobenzene	ug/L	ND	10.0	0.0698	06/17/23 18:16	
4-Chloro-3-methylphenol	ug/L	ND	10.0	0.131	06/17/23 18:16	
2-Chlorophenol	ug/L	ND	10.0	0.133	06/17/23 18:16	
2,4-Dichlorophenol	ug/L	ND	10.0	0.102	06/17/23 18:16	
2,4-Dimethylphenol	ug/L	ND	10.0	0.0636	06/17/23 18:16	
4,6-Dinitro-2-methylphenol	ug/L	ND	10.0	1.12	06/17/23 18:16	
2,4-Dinitrophenol	ug/L	ND	10.0	5.93	06/17/23 18:16	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	0.0929	06/17/23 18:16	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	0.168	06/17/23 18:16	
2-Nitrophenol	ug/L	ND	10.0	0.117	06/17/23 18:16	
4-Nitrophenol	ug/L	ND	10.0	0.143	06/17/23 18:16	
Pentachlorophenol	ug/L	ND	10.0	0.313	06/17/23 18:16	
Phenol	ug/L	ND	10.0	4.33	06/17/23 18:16	
2,3,4,6-Tetrachlorophenol	ug/L	ND	10.0	0.231	06/17/23 18:16	
2,4,5-Trichlorophenol	ug/L	ND	10.0	0.109	06/17/23 18:16	
2,4,6-Trichlorophenol	ug/L	ND	10.0	0.100	06/17/23 18:16	
Diphenylamine	ug/L	ND	10.0	2.37	06/17/23 18:16	
2-Fluorophenol (S)	%	21.9	10.0-120		06/17/23 18:16	
Phenol-d5 (S)	%	15.1	10.0-120		06/17/23 18:16	
Nitrobenzene-d5 (S)	%	45.9	10.0-127		06/17/23 18:16	
2-Fluorobiphenyl (S)	%	53.2	10.0-130		06/17/23 18:16	
2,4,6-Tribromophenol (S)	%	46.6	10.0-155		06/17/23 18:16	
Terphenyl-d14 (S)	%	57.4	10.0-128		06/17/23 18:16	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

METHOD BLANK: R3942352-1 Matrix: Water

Associated Lab Samples: 20279949009, 20279949010, 20279949011, 20279949012, 20279949013, 20279949014, 20279949015, 20279949016, 20279949017, 20279949018, 20279949019, 20279949020, 20279949025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Acetylaminofluorene	ug/L	ND	10.0	0.253	06/22/23 15:28	
4-Aminobiphenyl	ug/L	ND	10.0	0.461	06/22/23 15:28	
Aramite	ug/L	ND	50.0	16.7	06/22/23 15:28	
Chlorobenzilate	ug/L	ND	50.0	3.84	06/22/23 15:28	
Diallate	ug/L	ND	10.0	0.524	06/22/23 15:28	
2,6-Dichlorophenol	ug/L	ND	10.0	0.102	06/22/23 15:28	
Dimethoate	ug/L	ND	50.0	5.05	06/22/23 15:28	
P-Dimethylaminoazobenzene	ug/L	ND	10.0	3.69	06/22/23 15:28	
7,12-Dimethylbenz(a)anthracene	ug/L	ND	10.0	1.71	06/22/23 15:28	
3,3'-Dimethylbenzidine	ug/L	ND	10.0	3.39	06/22/23 15:28	
a,a-Dimethylphenylethylamine	ug/L	ND	50.0	3.13	06/22/23 15:28	
1,3-Dinitrobenzene	ug/L	ND	10.0	0.359	06/22/23 15:28	
Diphenylamine	ug/L	ND	10.0	2.37	06/22/23 15:28	
Dinoseb	ug/L	ND	50.0	8.01	06/22/23 15:28	
Ethyl methanesulfonate	ug/L	ND	10.0	0.326	06/22/23 15:28	
Famphur	ug/L	ND	20.0	3.92	06/22/23 15:28	
Hexachloropropene	ug/L	ND	50.0	0.149	06/22/23 15:28	
Hexachlorophene	ug/L	ND	50.0	1.44	06/22/23 15:28	
Isodrin	ug/L	ND	10.0	4.11	06/22/23 15:28	
Isosafrole	ug/L	ND	10.0	3.88	06/22/23 15:28	
Kepone	ug/L	ND	20.0	2.66	06/22/23 15:28	
Methapyrilene	ug/L	ND	50.0	10.0	06/22/23 15:28	
3-Methylcholanthrene	ug/L	ND	10.0	0.164	06/22/23 15:28	
Methyl methanesulfonate	ug/L	ND	50.0	3.40	06/22/23 15:28	
1,4-Naphthoquinone	ug/L	ND	50.0	5.56	06/22/23 15:28	
1-Naphthalenamine	ug/L	ND	10.0	0.289	06/22/23 15:28	
2-Naphthalenamine	ug/L	ND	10.0	4.48	06/22/23 15:28	
5-Nitro-o-toluidine	ug/L	ND	10.0	1.99	06/22/23 15:28	
4-Nitroquinoline-n-oxide	ug/L	ND	10.0	2.03	06/22/23 15:28	
N-Nitrosodiethylamine	ug/L	ND	10.0	3.57	06/22/23 15:28	
N-Nitroso-di-n-butylamine	ug/L	ND	10.0	3.91	06/22/23 15:28	
N-Nitrosomethylethylamine	ug/L	ND	10.0	3.25	06/22/23 15:28	
N-Nitrosomorpholine	ug/L	ND	10.0	3.25	06/22/23 15:28	
N-Nitrosopiperidine	ug/L	ND	10.0	3.72	06/22/23 15:28	
N-Nitrosopyrrolidine	ug/L	ND	10.0	3.39	06/22/23 15:28	
Pentachlorobenzene	ug/L	ND	10.0	4.15	06/22/23 15:28	
Pentachloronitrobenzene	ug/L	ND	10.0	4.15	06/22/23 15:28	
Phenacetin	ug/L	ND	10.0	4.66	06/22/23 15:28	
p-Phenylenediamine	ug/L	ND	6900	387	06/22/23 15:28	
2-Picoline	ug/L	ND	50.0	6.83	06/22/23 15:28	
Pronamide	ug/L	ND	10.0	4.21	06/22/23 15:28	
Safrole	ug/L	ND	10.0	3.68	06/22/23 15:28	
Sulfotepp (Thiodiphosphoric Ac	ug/L	ND	50.0	3.99	06/22/23 15:28	
Thionazin	ug/L	ND	10.0	4.07	06/22/23 15:28	
O-Toluidine	ug/L	ND	10.0	3.53	06/22/23 15:28	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

METHOD BLANK: R3942352-1 Matrix: Water

Associated Lab Samples: 20279949009, 20279949010, 20279949011, 20279949012, 20279949013, 20279949014, 20279949015, 20279949016, 20279949017, 20279949018, 20279949019, 20279949020, 20279949025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,3,5-Trinitrobenzene	ug/L	ND	10.0	1.32	06/22/23 15:28	
O,O,O-Triethylphosphorothioate	ug/L	ND	10.0	2.93	06/22/23 15:28	

LABORATORY CONTROL SAMPLE & LCSD: R3938230-1 R3938230-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acenaphthene	ug/L	50.0	30.3	33.6	60.6	67.2	41.0-120	10.3	22	
Acenaphthylene	ug/L	50.0	34.6	36.9	69.2	73.8	43.0-120	6.43	22	
Acetophenone	ug/L	50.0	27.1	29.1	54.2	58.2	29.0-120	7.12	28	
Aniline	ug/L	50.0	9.11	18.7	18.2	37.4	13.0-120	69.0	31	R1
Anthracene	ug/L	50.0	36.6	34.3	73.2	68.6	45.0-120	6.49	20	
Benzo(a)anthracene	ug/L	50.0	34.5	36.6	69.0	73.2	47.0-120	5.91	20	
Benzo(b)fluoranthene	ug/L	50.0	39.2	41.8	78.4	83.6	46.0-120	6.42	20	
Benzo(k)fluoranthene	ug/L	50.0	36.2	39.3	72.4	78.6	46.0-120	8.21	21	
Benzo(g,h,i)perylene	ug/L	50.0	34.1	36.1	68.2	72.2	48.0-121	5.70	20	
Benzo(a)pyrene	ug/L	50.0	39.2	41.9	78.4	83.8	47.0-120	6.66	20	
Benzyl alcohol	ug/L	50.0	22.3	21.4	44.6	42.8	25.0-120	4.12	26	
bis(2-Chloroethoxy)methane	ug/L	50.0	26.5	29.2	53.0	58.4	33.0-120	9.69	24	
bis(2-Chloroethyl) ether	ug/L	50.0	24.0	26.4	48.0	52.8	23.0-120	9.52	33	
2,2'-Oxybis(1-chloropropane)	ug/L	50.0	24.3	27.1	48.6	54.2	28.0-120	10.9	31	
4-Bromophenylphenyl ether	ug/L	50.0	32.6	35.9	65.2	71.8	45.0-120	9.64	20	
4-Chloroaniline	ug/L	50.0	23.0	23.4	46.0	46.8	25.0-120	1.72	25	
2-Chloronaphthalene	ug/L	50.0	30.4	34.1	60.8	68.2	37.0-120	11.5	25	
4-Chlorophenylphenyl ether	ug/L	50.0	32.7	36.2	65.4	72.4	44.0-120	10.2	20	
Chrysene	ug/L	50.0	34.1	35.7	68.2	71.4	48.0-120	4.58	20	
Dibenz(a,h)anthracene	ug/L	50.0	36.3	38.0	72.6	76.0	47.0-120	4.58	20	
Dibenzofuran	ug/L	50.0	32.5	35.4	65.0	70.8	44.0-120	8.54	22	
1,2-Dichlorobenzene	ug/L	50.0	22.3	24.7	44.6	49.4	20.0-120	10.2	34	
1,3-Dichlorobenzene	ug/L	50.0	20.9	24.1	41.8	48.2	17.0-120	14.2	35	
1,4-Dichlorobenzene	ug/L	50.0	21.3	24.5	42.6	49.0	18.0-120	14.0	34	
3,3'-Dichlorobenzidine	ug/L	100	60.4	72.1	60.4	72.1	44.0-120	17.7	20	
2,4-Dinitrotoluene	ug/L	50.0	37.6	40.0	75.2	80.0	49.0-124	6.19	20	
2,6-Dinitrotoluene	ug/L	50.0	34.9	36.7	69.8	73.4	46.0-120	5.03	21	
Fluoranthene	ug/L	50.0	34.9	36.7	69.8	73.4	51.0-120	5.03	20	
Fluorene	ug/L	50.0	32.9	36.2	65.8	72.4	47.0-120	9.55	20	
Hexachlorobenzene	ug/L	50.0	33.0	36.3	66.0	72.6	44.0-120	9.52	20	
Hexachloro-1,3-butadiene	ug/L	50.0	21.6	25.4	43.2	50.8	19.0-120	16.2	32	
Hexachlorocyclopentadiene	ug/L	50.0	14.8	18.3	29.6	36.6	15.0-120	21.1	31	
Hexachloroethane	ug/L	50.0	18.7	22.0	37.4	44.0	15.0-120	16.2	37	
Indeno(1,2,3-cd)pyrene	ug/L	50.0	28.8	29.5	57.6	59.0	49.0-122	2.40	20	
Isophorone	ug/L	50.0	27.2	30.0	54.4	60.0	36.0-120	9.79	23	
1-Methylnaphthalene	ug/L	50.0	24.8	26.9	49.6	53.8	33.0-120	8.12	24	
2-Methylnaphthalene	ug/L	50.0	24.4	27.1	48.8	54.2	33.0-120	10.5	25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

LABORATORY CONTROL SAMPLE & LCSD: R3938230-1 R3938230-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2-Nitroaniline	ug/L	50.0	36.5	39.0	73.0	78.0	43.0-120	6.62	22	
3-Nitroaniline	ug/L	50.0	30.9	31.7	61.8	63.4	38.0-120	2.56	21	
4-Nitroaniline	ug/L	50.0	30.5	32.3	61.0	64.6	18.0-160	5.73	21	
Naphthalene	ug/L	50.0	24.1	26.6	48.2	53.2	27.0-120	9.86	27	
Nitrobenzene	ug/L	50.0	25.2	28.1	50.4	56.2	27.0-120	10.9	29	
N-Nitrosodimethylamine	ug/L	50.0	14.1	13.7	28.2	27.4	10.0-120	2.88	40	
N-Nitrosodiphenylamine	ug/L	50.0	30.8	34.0	61.6	68.0	47.0-120	9.88	20	
N-Nitroso-di-n-propylamine	ug/L	50.0	26.6	28.5	53.2	57.0	31.0-120	6.90	28	
Phenanthrene	ug/L	50.0	31.2	33.6	62.4	67.2	46.0-120	7.41	20	
Pyridine	ug/L	50.0	0.832	13.2	1.66	26.4	10.0-120	176	38	L0,R1
Butylbenzylphthalate	ug/L	50.0	30.3	32.4	60.6	64.8	43.0-121	6.70	20	
bis(2-Ethylhexyl)phthalate	ug/L	50.0	29.6	31.5	59.2	63.0	43.0-122	6.22	20	
Di-n-butylphthalate	ug/L	50.0	36.1	37.7	72.2	75.4	49.0-121	4.34	20	
Diethylphthalate	ug/L	50.0	34.7	36.8	69.4	73.6	48.0-122	5.87	20	
Dimethylphthalate	ug/L	50.0	34.4	36.6	68.8	73.2	48.0-120	6.20	20	
Di-n-octylphthalate	ug/L	50.0	29.2	31.0	58.4	62.0	42.0-125	5.98	20	
Pyrene	ug/L	50.0	35.0	36.6	70.0	73.2	47.0-120	4.47	20	
1,2,4,5-Tetrachlorobenzene	ug/L	50.0	29.1	32.9	58.2	65.8	31.0-121	12.3	27	
1,2,4-Trichlorobenzene	ug/L	50.0	23.0	26.4	46.0	52.8	24.0-120	13.8	29	
4-Chloro-3-methylphenol	ug/L	50.0	26.9	27.6	53.8	55.2	40.0-120	2.57	21	
2-Chlorophenol	ug/L	50.0	22.7	23.1	45.4	46.2	25.0-120	1.75	35	
2,4-Dichlorophenol	ug/L	50.0	26.8	28.5	53.6	57.0	36.0-120	6.15	26	
2,4-Dimethylphenol	ug/L	50.0	25.5	26.1	51.0	52.2	33.0-120	2.33	26	
4,6-Dinitro-2-methylphenol	ug/L	50.0	33.5	35.5	67.0	71.0	38.0-138	5.80	25	
2,4-Dinitrophenol	ug/L	50.0	34.2	34.9	68.4	69.8	10.0-120	2.03	39	
2-Methylphenol(o-Cresol)	ug/L	50.0	21.5	21.2	43.0	42.4	28.0-120	1.41	29	
3&4-Methylphenol(m&p Cresol)	ug/L	50.0	23.2	22.6	46.4	45.2	31.0-120	2.62	30	
2-Nitrophenol	ug/L	50.0	28.6	31.0	57.2	62.0	31.0-120	8.05	29	
4-Nitrophenol	ug/L	50.0	11.7	12.2	23.4	24.4	10.0-120	4.18	33	
Pentachlorophenol	ug/L	50.0	28.9	29.5	57.8	59.0	23.0-120	2.05	25	
Phenol	ug/L	50.0	11.9	11.2	23.8	22.4	10.0-120	6.06	36	
2,3,4,6-Tetrachlorophenol	ug/L	50.0	37.0	39.1	74.0	78.2	42.0-132	5.52	22	
2,4,5-Trichlorophenol	ug/L	50.0	37.6	40.7	75.2	81.4	44.0-120	7.92	22	
2,4,6-Trichlorophenol	ug/L	50.0	36.7	40.4	73.4	80.8	42.0-120	9.60	23	
Diphenylamine	ug/L	50.0	30.8	34.0	61.6	68.0	35.0-120	9.88	20	
2-Fluorophenol (S)	%				33.1	33.0	10.0-120			
Phenol-d5 (S)	%				25.7	22.9	10.0-120			
Nitrobenzene-d5 (S)	%				55.6	59.6	10.0-127			
2-Fluorobiphenyl (S)	%				68.7	75.5	10.0-130			
2,4,6-Tribromophenol (S)	%				74.0	77.5	10.0-155			
Terphenyl-d14 (S)	%				77.2	78.5	10.0-128			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 2078837
QC Batch Method: 3510C
Analysis Method: EPA 8270C
Analysis Description: SVOA (GC/MS) 8270C
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 20279949026

METHOD BLANK: R3939556-2 Matrix: Water
Associated Lab Samples: 20279949026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	1.00	0.0886	06/20/23 01:20	
Acenaphthylene	ug/L	ND	1.00	0.0921	06/20/23 01:20	
Acetophenone	ug/L	ND	10.0	0.208	06/20/23 01:20	
Aniline	ug/L	ND	10.0	1.65	06/20/23 01:20	
Anthracene	ug/L	ND	1.00	0.0804	06/20/23 01:20	
Benzo(a)anthracene	ug/L	ND	1.00	0.199	06/20/23 01:20	
Benzo(b)fluoranthene	ug/L	ND	1.00	0.130	06/20/23 01:20	
Benzo(k)fluoranthene	ug/L	ND	1.00	0.120	06/20/23 01:20	
Benzo(g,h,i)perylene	ug/L	ND	1.00	0.121	06/20/23 01:20	
Benzo(a)pyrene	ug/L	ND	1.00	0.0381	06/20/23 01:20	
Benzyl alcohol	ug/L	ND	10.0	0.563	06/20/23 01:20	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	0.116	06/20/23 01:20	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	0.137	06/20/23 01:20	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	10.0	0.210	06/20/23 01:20	
4-Bromophenylphenyl ether	ug/L	ND	10.0	0.0877	06/20/23 01:20	
4-Chloroaniline	ug/L	ND	10.0	0.234	06/20/23 01:20	
2-Chloronaphthalene	ug/L	ND	1.00	0.0648	06/20/23 01:20	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	0.0926	06/20/23 01:20	
Chrysene	ug/L	ND	1.00	0.130	06/20/23 01:20	
Dibenz(a,h)anthracene	ug/L	ND	1.00	0.0644	06/20/23 01:20	
Dibenzofuran	ug/L	ND	10.0	0.0970	06/20/23 01:20	
1,2-Dichlorobenzene	ug/L	ND	10.0	0.0713	06/20/23 01:20	
1,3-Dichlorobenzene	ug/L	ND	10.0	0.132	06/20/23 01:20	
1,4-Dichlorobenzene	ug/L	ND	10.0	0.0942	06/20/23 01:20	
3,3'-Dichlorobenzidine	ug/L	ND	10.0	0.212	06/20/23 01:20	
2,4-Dinitrotoluene	ug/L	ND	10.0	0.0983	06/20/23 01:20	
2,6-Dinitrotoluene	ug/L	ND	10.0	0.250	06/20/23 01:20	
Fluoranthene	ug/L	ND	1.00	0.102	06/20/23 01:20	
Fluorene	ug/L	ND	1.00	0.0844	06/20/23 01:20	
Hexachlorobenzene	ug/L	ND	1.00	0.0755	06/20/23 01:20	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	0.0968	06/20/23 01:20	
Hexachlorocyclopentadiene	ug/L	ND	10.0	0.0598	06/20/23 01:20	
Hexachloroethane	ug/L	ND	10.0	0.127	06/20/23 01:20	
Indeno(1,2,3-cd)pyrene	ug/L	ND	1.00	0.279	06/20/23 01:20	
Isophorone	ug/L	ND	10.0	0.143	06/20/23 01:20	
1-Methylnaphthalene	ug/L	ND	1.00	0.0790	06/20/23 01:20	
2-Methylnaphthalene	ug/L	ND	1.00	0.117	06/20/23 01:20	
2-Nitroaniline	ug/L	ND	10.0	0.102	06/20/23 01:20	
3-Nitroaniline	ug/L	ND	10.0	0.0869	06/20/23 01:20	
4-Nitroaniline	ug/L	ND	10.0	0.0910	06/20/23 01:20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

METHOD BLANK: R3939556-2 Matrix: Water
Associated Lab Samples: 20279949026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Naphthalene	ug/L	ND	1.00	0.159	06/20/23 01:20	
Nitrobenzene	ug/L	ND	10.0	0.297	06/20/23 01:20	
N-Nitrosodimethylamine	ug/L	ND	10.0	0.998	06/20/23 01:20	
N-Nitrosodiphenylamine	ug/L	ND	10.0	2.37	06/20/23 01:20	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	0.261	06/20/23 01:20	
Phenanthrene	ug/L	ND	1.00	0.112	06/20/23 01:20	
Pyridine	ug/L	ND	10.0	0.627	06/20/23 01:20	
Butylbenzylphthalate	ug/L	ND	3.00	0.765	06/20/23 01:20	
bis(2-Ethylhexyl)phthalate	ug/L	ND	3.00	0.895	06/20/23 01:20	
Di-n-butylphthalate	ug/L	ND	3.00	0.453	06/20/23 01:20	
Diethylphthalate	ug/L	ND	3.00	0.287	06/20/23 01:20	
Dimethylphthalate	ug/L	ND	3.00	0.260	06/20/23 01:20	
Di-n-octylphthalate	ug/L	ND	3.00	0.932	06/20/23 01:20	
Pyrene	ug/L	ND	1.00	0.107	06/20/23 01:20	
1,2,4,5-Tetrachlorobenzene	ug/L	ND	10.0	0.0647	06/20/23 01:20	
1,2,4-Trichlorobenzene	ug/L	ND	10.0	0.0698	06/20/23 01:20	
4-Chloro-3-methylphenol	ug/L	ND	10.0	0.131	06/20/23 01:20	
2-Chlorophenol	ug/L	ND	10.0	0.133	06/20/23 01:20	
2,4-Dichlorophenol	ug/L	ND	10.0	0.102	06/20/23 01:20	
2,4-Dimethylphenol	ug/L	ND	10.0	0.0636	06/20/23 01:20	
4,6-Dinitro-2-methylphenol	ug/L	ND	10.0	1.12	06/20/23 01:20	
2,4-Dinitrophenol	ug/L	ND	10.0	5.93	06/20/23 01:20	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	0.0929	06/20/23 01:20	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	0.168	06/20/23 01:20	
2-Nitrophenol	ug/L	ND	10.0	0.117	06/20/23 01:20	
4-Nitrophenol	ug/L	ND	10.0	0.143	06/20/23 01:20	
Pentachlorophenol	ug/L	ND	10.0	0.313	06/20/23 01:20	
Phenol	ug/L	ND	10.0	4.33	06/20/23 01:20	
2,3,4,6-Tetrachlorophenol	ug/L	ND	10.0	0.231	06/20/23 01:20	
2,4,5-Trichlorophenol	ug/L	ND	10.0	0.109	06/20/23 01:20	
2,4,6-Trichlorophenol	ug/L	ND	10.0	0.100	06/20/23 01:20	
Diphenylamine	ug/L	ND	10.0	2.37	06/20/23 01:20	
2-Fluorophenol (S)	%	20.5	10.0-120		06/20/23 01:20	
Phenol-d5 (S)	%	16.3	10.0-120		06/20/23 01:20	
Nitrobenzene-d5 (S)	%	52.8	10.0-127		06/20/23 01:20	
2-Fluorobiphenyl (S)	%	54.2	10.0-130		06/20/23 01:20	
2,4,6-Tribromophenol (S)	%	70.5	10.0-155		06/20/23 01:20	
Terphenyl-d14 (S)	%	76.1	10.0-128		06/20/23 01:20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

METHOD BLANK: R3943646-1 Matrix: Water
Associated Lab Samples: 20279949026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Acetylaminofluorene	ug/L	ND	10.0	0.253	06/26/23 16:55	
4-Aminobiphenyl	ug/L	ND	10.0	0.461	06/26/23 16:55	
Aramite	ug/L	ND	50.0	16.7	06/26/23 16:55	
Chlorobenzilate	ug/L	ND	50.0	3.84	06/26/23 16:55	
Diallate	ug/L	ND	10.0	0.524	06/26/23 16:55	
2,6-Dichlorophenol	ug/L	ND	10.0	0.102	06/26/23 16:55	
Dimethoate	ug/L	ND	50.0	5.05	06/26/23 16:55	
P-Dimethylaminoazobenzene	ug/L	ND	10.0	3.69	06/26/23 16:55	
7,12-Dimethylbenz(a)anthracene	ug/L	ND	10.0	1.71	06/26/23 16:55	
3,3'-Dimethylbenzidine	ug/L	ND	10.0	3.39	06/26/23 16:55	
a,a-Dimethylphenylethylamine	ug/L	ND	50.0	3.13	06/26/23 16:55	
1,3-Dinitrobenzene	ug/L	ND	10.0	0.359	06/26/23 16:55	
Diphenylamine	ug/L	ND	10.0	2.37	06/26/23 16:55	
Dinoseb	ug/L	ND	50.0	8.01	06/26/23 16:55	
Ethyl methanesulfonate	ug/L	ND	10.0	0.326	06/26/23 16:55	
Famphur	ug/L	ND	20.0	3.92	06/26/23 16:55	
Hexachloropropene	ug/L	ND	50.0	0.149	06/26/23 16:55	
Hexachlorophene	ug/L	ND	50.0	1.44	06/26/23 16:55	
Isodrin	ug/L	ND	10.0	4.11	06/26/23 16:55	
Isosafrole	ug/L	ND	10.0	3.88	06/26/23 16:55	
Kepone	ug/L	ND	20.0	2.66	06/26/23 16:55	
Methapyrilene	ug/L	ND	50.0	10.0	06/26/23 16:55	
3-Methylcholanthrene	ug/L	ND	10.0	0.164	06/26/23 16:55	
Methyl methanesulfonate	ug/L	ND	50.0	3.40	06/26/23 16:55	
1,4-Naphthoquinone	ug/L	ND	50.0	5.56	06/26/23 16:55	
1-Naphthalenamine	ug/L	ND	10.0	0.289	06/26/23 16:55	
2-Naphthalenamine	ug/L	ND	10.0	4.48	06/26/23 16:55	
5-Nitro-o-toluidine	ug/L	ND	10.0	1.99	06/26/23 16:55	
4-Nitroquinoline-n-oxide	ug/L	ND	10.0	2.03	06/26/23 16:55	
N-Nitrosodiethylamine	ug/L	ND	10.0	3.57	06/26/23 16:55	
N-Nitroso-di-n-butylamine	ug/L	ND	10.0	3.91	06/26/23 16:55	
N-Nitrosomethylethylamine	ug/L	ND	10.0	3.25	06/26/23 16:55	
N-Nitrosomorpholine	ug/L	ND	10.0	3.25	06/26/23 16:55	
N-Nitrosopiperidine	ug/L	ND	10.0	3.72	06/26/23 16:55	
N-Nitrosopyrrolidine	ug/L	ND	10.0	3.39	06/26/23 16:55	
Pentachlorobenzene	ug/L	ND	10.0	4.15	06/26/23 16:55	
Pentachloronitrobenzene	ug/L	ND	10.0	4.15	06/26/23 16:55	
Phenacetin	ug/L	ND	10.0	4.66	06/26/23 16:55	
p-Phenylenediamine	ug/L	ND	6900	387	06/26/23 16:55	
2-Picoline	ug/L	ND	50.0	6.83	06/26/23 16:55	
Pronamide	ug/L	ND	10.0	4.21	06/26/23 16:55	
Safrole	ug/L	ND	10.0	3.68	06/26/23 16:55	
Sulfotepp (Thiodiphosphoric Ac	ug/L	ND	50.0	3.99	06/26/23 16:55	
Thionazin	ug/L	ND	10.0	4.07	06/26/23 16:55	
O-Toluidine	ug/L	ND	10.0	3.53	06/26/23 16:55	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

METHOD BLANK: R3943646-1 Matrix: Water
Associated Lab Samples: 20279949026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,3,5-Trinitrobenzene	ug/L	ND	10.0	1.32	06/26/23 16:55	
O,O,O-Triethylphosphorothioate	ug/L	ND	10.0	2.93	06/26/23 16:55	

LABORATORY CONTROL SAMPLE: R3939556-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	ug/L	50.0	34.7	69.4	41.0-120	
Acenaphthylene	ug/L	50.0	35.6	71.2	43.0-120	
Acetophenone	ug/L	50.0	28.4	56.8	29.0-120	
Aniline	ug/L	50.0	37.4	74.8	13.0-120	
Anthracene	ug/L	50.0	37.8	75.6	45.0-120	
Benzo(a)anthracene	ug/L	50.0	42.2	84.4	47.0-120	
Benzo(b)fluoranthene	ug/L	50.0	39.5	79.0	46.0-120	
Benzo(k)fluoranthene	ug/L	50.0	38.2	76.4	46.0-120	
Benzo(g,h,i)perylene	ug/L	50.0	43.3	86.6	48.0-121	
Benzo(a)pyrene	ug/L	50.0	43.8	87.6	47.0-120	
Benzyl alcohol	ug/L	50.0	24.3	48.6	25.0-120	
bis(2-Chloroethoxy)methane	ug/L	50.0	29.9	59.8	33.0-120	
bis(2-Chloroethyl) ether	ug/L	50.0	27.8	55.6	23.0-120	
2,2'-Oxybis(1-chloropropane)	ug/L	50.0	24.7	49.4	28.0-120	
4-Bromophenylphenyl ether	ug/L	50.0	41.4	82.8	45.0-120	
4-Chloroaniline	ug/L	50.0	35.2	70.4	25.0-120	
2-Chloronaphthalene	ug/L	50.0	33.2	66.4	37.0-120	
4-Chlorophenylphenyl ether	ug/L	50.0	39.5	79.0	44.0-120	
Chrysene	ug/L	50.0	40.7	81.4	48.0-120	
Dibenz(a,h)anthracene	ug/L	50.0	44.6	89.2	47.0-120	
Dibenzofuran	ug/L	50.0	35.7	71.4	44.0-120	
1,2-Dichlorobenzene	ug/L	50.0	24.3	48.6	20.0-120	
1,3-Dichlorobenzene	ug/L	50.0	24.4	48.8	17.0-120	
1,4-Dichlorobenzene	ug/L	50.0	24.2	48.4	18.0-120	
3,3'-Dichlorobenzidine	ug/L	100	84.2	84.2	44.0-120	
2,4-Dinitrotoluene	ug/L	50.0	43.8	87.6	49.0-124	
2,6-Dinitrotoluene	ug/L	50.0	39.8	79.6	46.0-120	
Fluoranthene	ug/L	50.0	42.8	85.6	51.0-120	
Fluorene	ug/L	50.0	36.6	73.2	47.0-120	
Hexachlorobenzene	ug/L	50.0	40.9	81.8	44.0-120	
Hexachloro-1,3-butadiene	ug/L	50.0	36.8	73.6	19.0-120	
Hexachlorocyclopentadiene	ug/L	50.0	31.7	63.4	15.0-120	
Hexachloroethane	ug/L	50.0	23.7	47.4	15.0-120	
Indeno(1,2,3-cd)pyrene	ug/L	50.0	41.5	83.0	49.0-122	
Isophorone	ug/L	50.0	33.4	66.8	36.0-120	
1-Methylnaphthalene	ug/L	50.0	29.5	59.0	33.0-120	
2-Methylnaphthalene	ug/L	50.0	29.1	58.2	33.0-120	
2-Nitroaniline	ug/L	50.0	40.2	80.4	43.0-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

LABORATORY CONTROL SAMPLE: R3939556-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
3-Nitroaniline	ug/L	50.0	33.8	67.6	38.0-120	
4-Nitroaniline	ug/L	50.0	34.4	68.8	18.0-160	
Naphthalene	ug/L	50.0	27.5	55.0	27.0-120	
Nitrobenzene	ug/L	50.0	33.0	66.0	27.0-120	
N-Nitrosodimethylamine	ug/L	50.0	24.8	49.6	10.0-120	
N-Nitrosodiphenylamine	ug/L	50.0	36.1	72.2	47.0-120	
N-Nitroso-di-n-propylamine	ug/L	50.0	29.5	59.0	31.0-120	
Phenanthrene	ug/L	50.0	37.6	75.2	46.0-120	
Pyridine	ug/L	50.0	14.4	28.8	10.0-120	
Butylbenzylphthalate	ug/L	50.0	38.8	77.6	43.0-121	
bis(2-Ethylhexyl)phthalate	ug/L	50.0	37.8	75.6	43.0-122	
Di-n-butylphthalate	ug/L	50.0	40.1	80.2	49.0-121	
Diethylphthalate	ug/L	50.0	38.9	77.8	48.0-122	
Dimethylphthalate	ug/L	50.0	38.4	76.8	48.0-120	
Di-n-octylphthalate	ug/L	50.0	41.2	82.4	42.0-125	
Pyrene	ug/L	50.0	36.8	73.6	47.0-120	
1,2,4,5-Tetrachlorobenzene	ug/L	50.0	44.2	88.4	31.0-121	
1,2,4-Trichlorobenzene	ug/L	50.0	31.1	62.2	24.0-120	
4-Chloro-3-methylphenol	ug/L	50.0	34.8	69.6	40.0-120	
2-Chlorophenol	ug/L	50.0	23.0	46.0	25.0-120	
2,4-Dichlorophenol	ug/L	50.0	33.4	66.8	36.0-120	
2,4-Dimethylphenol	ug/L	50.0	33.3	66.6	33.0-120	
4,6-Dinitro-2-methylphenol	ug/L	50.0	55.4	111	38.0-138	
2,4-Dinitrophenol	ug/L	50.0	53.7	107	10.0-120	
2-Methylphenol(o-Cresol)	ug/L	50.0	20.0	40.0	28.0-120	
3&4-Methylphenol(m&p Cresol)	ug/L	50.0	21.5	43.0	31.0-120	
2-Nitrophenol	ug/L	50.0	34.9	69.8	31.0-120	
4-Nitrophenol	ug/L	50.0	113	226	10.0-120	L0
Pentachlorophenol	ug/L	50.0	36.9	73.8	23.0-120	
Phenol	ug/L	50.0	12.6	25.2	10.0-120	
2,3,4,6-Tetrachlorophenol	ug/L	50.0	44.5	89.0	42.0-132	
2,4,5-Trichlorophenol	ug/L	50.0	44.4	88.8	44.0-120	
2,4,6-Trichlorophenol	ug/L	50.0	42.2	84.4	42.0-120	
Diphenylamine	ug/L	50.0	36.1	72.2	35.0-120	
2-Fluorophenol (S)	%			28.4	10.0-120	
Phenol-d5 (S)	%			19.8	10.0-120	
Nitrobenzene-d5 (S)	%			63.7	10.0-127	
2-Fluorobiphenyl (S)	%			68.7	10.0-130	
2,4,6-Tribromophenol (S)	%			82.0	10.0-155	
Terphenyl-d14 (S)	%			73.8	10.0-128	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3939556-3 R3939556-4

Parameter	Units	L1625883-03 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/L	ND	50.0	45.5	25.7	25.3	51.4	55.6	28.0-120	1.57	25	
Acenaphthylene	ug/L	ND	50.0	45.5	26.6	25.4	53.2	55.8	31.0-121	4.62	25	
Acetophenone	ug/L	ND	50.0	45.5	21.6	19.6	43.2	43.1	20.0-120	9.71	35	
Aniline	ug/L	ND	50.0	45.5	27.1	25.1	54.2	55.2	10.0-120	7.66	39	
Anthracene	ug/L	ND	50.0	45.5	30.6	29.9	61.2	65.7	36.0-120	2.31	23	
Benzo(a)anthracene	ug/L	ND	50.0	45.5	37.9	37.1	75.8	81.5	39.0-120	2.13	23	
Benzo(b)fluoranthene	ug/L	ND	50.0	45.5	37.3	36.1	74.6	79.3	37.0-120	3.27	23	
Benzo(k)fluoranthene	ug/L	ND	50.0	45.5	35.6	33.8	71.2	74.3	37.0-120	5.19	26	
Benzo(g,h,i)perylene	ug/L	ND	50.0	45.5	33.9	32.5	67.8	71.4	37.0-123	4.22	25	
Benzo(a)pyrene	ug/L	ND	50.0	45.5	37.8	35.8	75.6	78.7	37.0-120	5.43	24	
Benzyl alcohol	ug/L	ND	50.0	45.5	20.7	17.4	41.4	38.2	14.0-120	17.3	38	
bis(2-Chloroethoxy)methane	ug/L	ND	50.0	45.5	22.8	21.5	45.6	47.3	17.0-120	5.87	31	
bis(2-Chloroethyl) ether	ug/L	ND	50.0	45.5	21.2	18.5	42.4	40.7	14.0-120	13.6	33	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	50.0	45.5	18.0	16.6	36.0	36.5	18.0-120	8.09	34	
4-Bromophenylphenyl ether	ug/L	ND	50.0	45.5	32.5	32.6	65.0	71.6	37.0-120	0.307	24	
4-Chloroaniline	ug/L	ND	50.0	45.5	28.6	24.9	57.2	54.7	10.0-120	13.8	31	
2-Chloronaphthalene	ug/L	ND	50.0	45.5	24.0	23.7	48.0	52.1	29.0-120	1.26	28	
4-Chlorophenylphenyl ether	ug/L	ND	50.0	45.5	30.7	30.4	61.4	66.8	36.0-120	0.982	23	
Chrysene	ug/L	ND	50.0	45.5	37.4	35.7	74.8	78.5	38.0-120	4.65	23	
Dibenz(a,h)anthracene	ug/L	ND	50.0	45.5	35.9	34.1	71.8	74.9	36.0-121	5.14	24	
Dibenzofuran	ug/L	ND	50.0	45.5	27.5	27.5	55.0	60.4	32.0-120	0.00	26	
1,2-Dichlorobenzene	ug/L	ND	50.0	45.5	17.8	16.0	35.6	35.2	18.0-120	10.7	40	
1,3-Dichlorobenzene	ug/L	ND	50.0	45.5	17.1	15.6	34.2	34.3	15.0-120	9.17	40	
1,4-Dichlorobenzene	ug/L	ND	50.0	45.5	17.8	15.7	35.6	34.5	17.0-120	12.5	40	
3,3'-Dichlorobenzidine	ug/L	ND	100	91.0	53.8	49.6	53.8	54.5	10.0-134	8.12	30	
2,4-Dinitrotoluene	ug/L	ND	50.0	45.5	37.9	35.9	75.8	78.9	39.0-125	5.42	25	
2,6-Dinitrotoluene	ug/L	ND	50.0	45.5	33.1	32.4	66.2	71.2	36.0-120	2.14	27	
Fluoranthene	ug/L	ND	50.0	45.5	37.5	35.7	75.0	78.5	41.0-121	4.92	22	
Fluorene	ug/L	ND	50.0	45.5	28.3	27.9	56.6	61.3	37.0-120	1.42	24	
Hexachlorobenzene	ug/L	ND	50.0	45.5	33.0	32.9	66.0	72.3	35.0-122	0.303	24	
Hexachloro-1,3-butadiene	ug/L	ND	50.0	45.5	25.4	22.8	50.8	50.1	12.0-120	10.8	34	
Hexachlorocyclopentadiene	ug/L	ND	50.0	45.5	17.0	14.7	34.0	32.3	10.0-120	14.5	33	
Hexachloroethane	ug/L	ND	50.0	45.5	16.7	15.1	33.4	33.2	10.0-120	10.1	40	
Indeno(1,2,3-cd)pyrene	ug/L	ND	50.0	45.5	32.3	31.1	64.6	68.4	38.0-125	3.79	24	
Isophorone	ug/L	ND	50.0	45.5	24.4	23.6	48.8	51.9	21.0-120	3.33	27	
1-Methylnaphthalene	ug/L	ND	50.0	45.5	21.6	20.5	43.2	45.1	11.0-120	5.23	27	
2-Methylnaphthalene	ug/L	ND	50.0	45.5	21.4	20.5	42.8	45.1	17.0-120	4.30	28	
2-Nitroaniline	ug/L	ND	50.0	45.5	29.4	27.9	58.8	61.3	33.0-120	5.24	27	
3-Nitroaniline	ug/L	ND	50.0	45.5	28.1	24.6	56.2	54.1	20.0-120	13.3	27	
4-Nitroaniline	ug/L	ND	50.0	45.5	26.9	23.9	53.8	52.5	10.0-160	11.8	26	
Naphthalene	ug/L	ND	50.0	45.5	19.8	18.5	39.6	40.7	10.0-120	6.79	31	
Nitrobenzene	ug/L	ND	50.0	45.5	25.7	24.2	51.4	53.2	12.0-120	6.01	30	
N-Nitrosodimethylamine	ug/L	ND	50.0	45.5	20.1	16.8	40.2	36.9	10.0-120	17.9	40	
N-Nitrosodiphenylamine	ug/L	ND	50.0	45.5	29.3	28.8	58.6	63.3	37.0-120	1.72	24	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3939556-3 R3939556-4

Parameter	Units	L1625883-03 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
N-Nitroso-di-n-propylamine	ug/L	ND	50.0	45.5	21.9	20.7	43.8	45.5	16.0-120	5.63	30	
Phenanthrene	ug/L	ND	50.0	45.5	31.4	30.5	62.8	67.0	33.0-120	2.91	22	
Pyridine	ug/L	ND	50.0	45.5	7.26	9.13	14.5	20.1	10.0-120	22.8	37	
Butylbenzylphthalate	ug/L	ND	50.0	45.5	36.5	35.6	73.0	78.2	34.0-126	2.50	24	
bis(2-Ethylhexyl)phthalate	ug/L	ND	50.0	45.5	35.7	34.4	71.4	75.6	33.0-126	3.71	25	
Di-n-butylphthalate	ug/L	0.967	50.0	45.5	36.9	34.9	71.9	74.6	35.0-128	5.57	23	
Diethylphthalate	ug/L	ND	50.0	45.5	34.0	32.3	68.0	71.0	39.0-125	5.13	24	
Dimethylphthalate	ug/L	ND	50.0	45.5	31.3	30.4	62.6	66.8	37.0-120	2.92	24	
Di-n-octylphthalate	ug/L	ND	50.0	45.5	38.5	35.4	77.0	77.8	25.0-135	8.39	26	
Pyrene	ug/L	ND	50.0	45.5	34.3	34.7	68.6	76.3	39.0-120	1.16	22	
1,2,4,5-Tetrachlorobenzene	ug/L	ND	50.0	45.5	30.9	29.5	61.8	64.8	19.0-122	4.64	32	
1,2,4-Trichlorobenzene	ug/L	ND	50.0	45.5	22.2	20.4	44.4	44.8	15.0-120	8.45	31	
4-Chloro-3-methylphenol	ug/L	ND	50.0	45.5	22.4	20.6	44.8	45.3	26.0-120	8.37	27	
2-Chlorophenol	ug/L	ND	50.0	45.5	14.0	12.3	28.0	27.0	18.0-120	12.9	34	
2,4-Dichlorophenol	ug/L	ND	50.0	45.5	21.1	19.6	42.2	43.1	19.0-120	7.37	27	
2,4-Dimethylphenol	ug/L	ND	50.0	45.5	20.6	19.1	41.2	42.0	15.0-120	7.56	28	
4,6-Dinitro-2-methylphenol	ug/L	ND	50.0	45.5	44.7	43.6	89.4	95.8	10.0-144	2.49	39	
2,4-Dinitrophenol	ug/L	ND	50.0	45.5	42.3	39.9	84.6	87.7	10.0-120	5.84	40	
2-Methylphenol(o-Cresol)	ug/L	ND	50.0	45.5	13.1	11.4	26.2	25.1	10.0-120	13.9	30	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50.0	45.5	14.6	12.9	29.2	28.4	10.0-120	12.4	36	
2-Nitrophenol	ug/L	ND	50.0	45.5	23.5	21.4	47.0	47.0	20.0-120	9.35	30	
4-Nitrophenol	ug/L	ND	50.0	45.5	87.7	84.9	175	187	10.0-120	3.24	40	MH
Pentachlorophenol	ug/L	ND	50.0	45.5	29.4	28.1	58.8	61.8	10.0-128	4.52	37	
Phenol	ug/L	ND	50.0	45.5	9.05	7.90	18.1	17.4	10.0-120	13.6	40	
2,3,4,6-Tetrachlorophenol	ug/L	ND	50.0	45.5	33.9	32.2	67.8	70.8	17.0-142	5.14	34	
2,4,5-Trichlorophenol	ug/L	ND	50.0	45.5	30.8	28.6	61.6	62.9	33.0-120	7.41	31	
2,4,6-Trichlorophenol	ug/L	ND	50.0	45.5	28.5	27.8	57.0	61.1	26.0-120	2.49	31	
Diphenylamine	ug/L	ND	50.0	45.5	29.3	28.8	58.6	63.3	35.0-120	1.72	30	
2-Fluorophenol (S)	%						17.8	17.8	10.0-120			
Phenol-d5 (S)	%						14.5	12.7	10.0-120			
Nitrobenzene-d5 (S)	%						46.2	47.7	10.0-127			
2-Fluorobiphenyl (S)	%						49.3	52.6	10.0-130			
2,4,6-Tribromophenol (S)	%						60.5	64.8	10.0-155			
Terphenyl-d14 (S)	%						66.5	73.6	10.0-128			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3939556-5 R3939556-6

Parameter	Units	L1626019-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	ug/L	1.69	50.0	45.5	23.5	26.3	43.6	54.1	28.0-120	11.2	25	
Acenaphthylene	ug/L	ND	50.0	45.5	25.8	27.2	51.6	59.8	31.0-121	5.28	25	
Acetophenone	ug/L	150	50.0	45.5	172	190	44.0	87.9	20.0-120	9.94	35	
Aniline	ug/L	ND	50.0	45.5	26.5	26.0	53.0	57.1	10.0-120	1.90	39	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3939556-5 R3939556-6

Parameter	Units	L1626019-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Anthracene	ug/L	ND	50.0	45.5	20.7	21.7	41.4	47.7	36.0-120	4.72	23	
Benzo(a)anthracene	ug/L	ND	50.0	45.5	13.7	14.4	27.4	31.6	39.0-120	4.98	23	ML
Benzo(b)fluoranthene	ug/L	ND	50.0	45.5	9.72	11.1	19.4	24.4	37.0-120	13.3	23	ML
Benzo(k)fluoranthene	ug/L	ND	50.0	45.5	9.67	10.6	19.3	23.3	37.0-120	9.18	26	ML
Benzo(g,h,i)perylene	ug/L	ND	50.0	45.5	8.82	9.98	17.6	21.9	37.0-123	12.3	25	ML
Benzo(a)pyrene	ug/L	ND	50.0	45.5	9.93	11.9	19.9	26.2	37.0-120	18.0	24	ML
Benzyl alcohol	ug/L	73.5	50.0	45.5	90.5	91.7	34.0	40.0	14.0-120	1.32	38	
bis(2-Chloroethoxy)methane	ug/L	ND	50.0	45.5	29.9	29.8	59.8	65.5	17.0-120	0.335	31	
bis(2-Chloroethyl) ether	ug/L	ND	50.0	45.5	22.7	28.1	45.4	61.8	14.0-120	21.3	33	
2,2'-Oxybis(1-chloropropane)	ug/L	5.55	50.0	45.5	22.5	25.1	33.9	43.0	18.0-120	10.9	34	
4-Bromophenylphenyl ether	ug/L	ND	50.0	45.5	21.2	23.1	42.4	50.8	37.0-120	8.58	24	
4-Chloroaniline	ug/L	ND	50.0	45.5	ND	ND	0.00	0.00	10.0-120	0.00	31	ML
2-Chloronaphthalene	ug/L	ND	50.0	45.5	24.7	27.2	49.4	59.8	29.0-120	9.63	28	
4-Chlorophenylphenyl ether	ug/L	ND	50.0	45.5	23.0	24.0	46.0	52.7	36.0-120	4.26	23	
Chrysene	ug/L	ND	50.0	45.5	12.5	13.8	25.0	30.3	38.0-120	9.89	23	ML
Dibenz(a,h)anthracene	ug/L	ND	50.0	45.5	9.09	10.4	18.2	22.9	36.0-121	13.4	24	ML
Dibenzofuran	ug/L	ND	50.0	45.5	25.1	26.6	50.2	58.5	32.0-120	5.80	26	
1,2-Dichlorobenzene	ug/L	ND	50.0	45.5	20.6	22.1	41.2	48.6	18.0-120	7.03	40	
1,3-Dichlorobenzene	ug/L	ND	50.0	45.5	20.0	21.8	40.0	47.9	15.0-120	8.61	40	
1,4-Dichlorobenzene	ug/L	ND	50.0	45.5	19.5	22.4	39.0	49.2	17.0-120	13.8	40	
3,3'-Dichlorobenzidine	ug/L	ND	100	91.0	ND	ND	0.00	0.00	10.0-134	0.00	30	ML
2,4-Dinitrotoluene	ug/L	ND	50.0	45.5	35.8	39.7	71.6	87.3	39.0-125	10.3	25	
2,6-Dinitrotoluene	ug/L	ND	50.0	45.5	39.5	37.7	79.0	82.9	36.0-120	4.66	27	
Fluoranthene	ug/L	ND	50.0	45.5	19.0	20.3	38.0	44.6	41.0-121	6.62	22	ML
Fluorene	ug/L	3.23	50.0	45.5	25.5	27.2	44.5	52.7	37.0-120	6.45	24	
Hexachlorobenzene	ug/L	ND	50.0	45.5	15.6	16.0	31.2	35.2	35.0-122	2.53	24	ML
Hexachloro-1,3-butadiene	ug/L	ND	50.0	45.5	23.4	25.1	46.8	55.2	12.0-120	7.01	34	
Hexachlorocyclopentadiene	ug/L	ND	50.0	45.5	12.3	13.3	24.6	29.2	10.0-120	7.81	33	
Hexachloroethane	ug/L	7.11	50.0	45.5	24.7	29.1	35.2	48.3	10.0-120	16.4	40	
Indeno(1,2,3-cd)pyrene	ug/L	ND	50.0	45.5	8.57	9.84	17.1	21.6	38.0-125	13.8	24	ML
Isophorone	ug/L	ND	50.0	45.5	41.2	41.8	82.4	91.9	21.0-120	1.45	27	
1-Methylnaphthalene	ug/L	28.8	50.0	45.5	46.3	48.7	35.0	43.7	11.0-120	5.05	27	
2-Methylnaphthalene	ug/L	46.6	50.0	45.5	61.0	67.4	28.8	45.7	17.0-120	9.97	28	
2-Nitroaniline	ug/L	ND	50.0	45.5	35.3	37.7	70.6	82.9	33.0-120	6.58	27	
3-Nitroaniline	ug/L	ND	50.0	45.5	13.1	14.2	26.2	31.2	20.0-120	8.06	27	
4-Nitroaniline	ug/L	ND	50.0	45.5	16.7	14.0	33.4	30.8	10.0-160	17.6	26	
Naphthalene	ug/L	56.6	50.0	45.5	71.8	78.6	30.4	48.4	10.0-120	9.04	31	
Nitrobenzene	ug/L	ND	50.0	45.5	29.4	33.1	58.8	72.7	12.0-120	11.8	30	
N-Nitrosodimethylamine	ug/L	ND	50.0	45.5	32.3	26.1	64.6	57.4	10.0-120	21.2	40	
N-Nitrosodiphenylamine	ug/L	ND	50.0	45.5	25.0	28.4	50.0	62.4	37.0-120	12.7	24	
N-Nitroso-di-n-propylamine	ug/L	112	50.0	45.5	75.2	88.9	0.00	0.00	16.0-120	16.7	30	ML
Phenanthrene	ug/L	6.61	50.0	45.5	25.9	27.3	38.6	45.5	33.0-120	5.26	22	
Pyridine	ug/L	ND	50.0	45.5	25.3	27.7	50.6	60.9	10.0-120	9.06	37	
Butylbenzylphthalate	ug/L	ND	50.0	45.5	18.3	19.8	36.6	43.5	34.0-126	7.87	24	

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REPORT OF LABORATORY ANALYSIS

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251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3939556-5 R3939556-6

Parameter	Units	L1626019-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
bis(2-Ethylhexyl)phthalate	ug/L	ND	50.0	45.5	9.14	9.42	18.3	20.7	33.0-126	3.02	25	ML
Di-n-butylphthalate	ug/L	ND	50.0	45.5	20.3	23.0	40.6	50.5	35.0-128	12.5	23	
Diethylphthalate	ug/L	10.0	50.0	45.5	27.7	32.4	35.4	49.2	39.0-125	15.6	24	ML
Dimethylphthalate	ug/L	ND	50.0	45.5	32.6	36.3	65.2	79.8	37.0-120	10.7	24	
Di-n-octylphthalate	ug/L	ND	50.0	45.5	9.00	10.1	18.0	22.2	25.0-135	11.5	26	ML
Pyrene	ug/L	ND	50.0	45.5	17.4	18.0	34.8	39.6	39.0-120	3.39	22	ML
1,2,4,5-Tetrachlorobenzene	ug/L	ND	50.0	45.5	31.6	35.1	63.2	77.1	19.0-122	10.5	32	
1,2,4-Trichlorobenzene	ug/L	ND	50.0	45.5	25.7	27.5	51.4	60.4	15.0-120	6.77	31	
4-Chloro-3-methylphenol	ug/L	ND	50.0	45.5	ND	31.0	0.00	68.1	26.0-120	200	27	ML,R1
2-Chlorophenol	ug/L	ND	50.0	45.5	16.9	19.2	33.8	42.2	18.0-120	12.7	34	
2,4-Dichlorophenol	ug/L	ND	50.0	45.5	22.3	26.7	44.6	58.7	19.0-120	18.0	27	
2,4-Dimethylphenol	ug/L	58.5	50.0	45.5	72.2	77.0	27.4	40.7	15.0-120	6.43	28	
4,6-Dinitro-2-methylphenol	ug/L	ND	50.0	45.5	33.6	41.2	67.2	90.5	10.0-144	20.3	39	
2,4-Dinitrophenol	ug/L	ND	50.0	45.5	36.0	46.4	72.0	102	10.0-120	25.2	40	
2-Methylphenol(o-Cresol)	ug/L	111	50.0	45.5	101	113	0.00	4.40	10.0-120	11.2	30	ML
3&4-Methylphenol(m&p Cresol)	ug/L	98.8	50.0	45.5	51.5	56.1	0.00	0.00	10.0-120	8.55	36	ML
2-Nitrophenol	ug/L	ND	50.0	45.5	33.9	39.2	67.8	86.2	20.0-120	14.5	30	
4-Nitrophenol	ug/L	ND	50.0	45.5	ND	9.24	0.00	20.3	10.0-120	200	40	ML,R1
Pentachlorophenol	ug/L	ND	50.0	45.5	21.4	26.8	42.8	58.9	10.0-128	22.4	37	
Phenol	ug/L	ND	50.0	45.5	27.9	30.4	55.8	66.8	10.0-120	8.58	40	
2,3,4,6-Tetrachlorophenol	ug/L	ND	50.0	45.5	24.8	29.7	49.6	65.3	17.0-142	18.0	34	
2,4,5-Trichlorophenol	ug/L	ND	50.0	45.5	25.3	29.7	50.6	65.3	33.0-120	16.0	31	
2,4,6-Trichlorophenol	ug/L	ND	50.0	45.5	24.8	28.7	49.6	63.1	26.0-120	14.6	31	
Diphenylamine	ug/L	ND	50.0	45.5	25.0	28.4	50.0	62.4	35.0-120	12.7	30	
2-Fluorophenol (S)	%						33.2	58.2	10.0-120			
Phenol-d5 (S)	%						26.1	32.4	10.0-120			
Nitrobenzene-d5 (S)	%						125	191	10.0-127			ST
2-Fluorobiphenyl (S)	%						47.6	54.3	10.0-130			
2,4,6-Tribromophenol (S)	%						41.9	56.0	10.0-155			
Terphenyl-d14 (S)	%						25.9	29.3	10.0-128			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 2078839
QC Batch Method: 3510C
Analysis Method: EPA 8270C
Analysis Description: SVOA (GC/MS) 8270C
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20279949001, 20279949002, 20279949003, 20279949004, 20279949005, 20279949006, 20279949007, 20279949008, 20279949021, 20279949022

METHOD BLANK: R3939002-3
Matrix: Water
Associated Lab Samples: 20279949001, 20279949002, 20279949003, 20279949004, 20279949005, 20279949006, 20279949007, 20279949008, 20279949021, 20279949022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acenaphthene	ug/L	ND	1.00	0.0886	06/20/23 00:35	
Acenaphthylene	ug/L	ND	1.00	0.0921	06/20/23 00:35	
Acetophenone	ug/L	ND	10.0	0.208	06/20/23 00:35	
Aniline	ug/L	ND	10.0	1.65	06/20/23 00:35	
Anthracene	ug/L	ND	1.00	0.0804	06/20/23 00:35	
Benzo(a)anthracene	ug/L	ND	1.00	0.199	06/20/23 00:35	
Benzo(b)fluoranthene	ug/L	ND	1.00	0.130	06/20/23 00:35	
Benzo(k)fluoranthene	ug/L	ND	1.00	0.120	06/20/23 00:35	
Benzo(g,h,i)perylene	ug/L	ND	1.00	0.121	06/20/23 00:35	
Benzo(a)pyrene	ug/L	ND	1.00	0.0381	06/20/23 00:35	
Benzyl alcohol	ug/L	ND	10.0	0.563	06/20/23 00:35	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	0.116	06/20/23 00:35	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	0.137	06/20/23 00:35	
2,2'-Oxybis(1-chloropropane)	ug/L	ND	10.0	0.210	06/20/23 00:35	
4-Bromophenylphenyl ether	ug/L	ND	10.0	0.0877	06/20/23 00:35	
4-Chloroaniline	ug/L	ND	10.0	0.234	06/20/23 00:35	
2-Chloronaphthalene	ug/L	ND	1.00	0.0648	06/20/23 00:35	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	0.0926	06/20/23 00:35	
Chrysene	ug/L	ND	1.00	0.130	06/20/23 00:35	
Dibenz(a,h)anthracene	ug/L	ND	1.00	0.0644	06/20/23 00:35	
Dibenzofuran	ug/L	ND	10.0	0.0970	06/20/23 00:35	
1,2-Dichlorobenzene	ug/L	ND	10.0	0.0713	06/20/23 00:35	
1,3-Dichlorobenzene	ug/L	ND	10.0	0.132	06/20/23 00:35	
1,4-Dichlorobenzene	ug/L	ND	10.0	0.0942	06/20/23 00:35	
3,3'-Dichlorobenzidine	ug/L	ND	10.0	0.212	06/20/23 00:35	
2,4-Dinitrotoluene	ug/L	ND	10.0	0.0983	06/20/23 00:35	
2,6-Dinitrotoluene	ug/L	ND	10.0	0.250	06/20/23 00:35	
Fluoranthene	ug/L	ND	1.00	0.102	06/20/23 00:35	
Fluorene	ug/L	ND	1.00	0.0844	06/20/23 00:35	
Hexachlorobenzene	ug/L	ND	1.00	0.0755	06/20/23 00:35	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	0.0968	06/20/23 00:35	
Hexachlorocyclopentadiene	ug/L	ND	10.0	0.0598	06/20/23 00:35	
Hexachloroethane	ug/L	ND	10.0	0.127	06/20/23 00:35	
Indeno(1,2,3-cd)pyrene	ug/L	ND	1.00	0.279	06/20/23 00:35	
Isophorone	ug/L	ND	10.0	0.143	06/20/23 00:35	
1-Methylnaphthalene	ug/L	ND	1.00	0.0790	06/20/23 00:35	
2-Methylnaphthalene	ug/L	ND	1.00	0.117	06/20/23 00:35	
2-Nitroaniline	ug/L	ND	10.0	0.102	06/20/23 00:35	
3-Nitroaniline	ug/L	ND	10.0	0.0869	06/20/23 00:35	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

METHOD BLANK: R3939002-3 Matrix: Water

Associated Lab Samples: 20279949001, 20279949002, 20279949003, 20279949004, 20279949005, 20279949006, 20279949007, 20279949008, 20279949021, 20279949022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
4-Nitroaniline	ug/L	ND	10.0	0.0910	06/20/23 00:35	
Naphthalene	ug/L	ND	1.00	0.159	06/20/23 00:35	
Nitrobenzene	ug/L	ND	10.0	0.297	06/20/23 00:35	
N-Nitrosodimethylamine	ug/L	ND	10.0	0.998	06/20/23 00:35	
N-Nitrosodiphenylamine	ug/L	ND	10.0	2.37	06/20/23 00:35	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	0.261	06/20/23 00:35	
Phenanthrene	ug/L	ND	1.00	0.112	06/20/23 00:35	
Pyridine	ug/L	ND	10.0	0.627	06/20/23 00:35	
Butylbenzylphthalate	ug/L	ND	3.00	0.765	06/20/23 00:35	
bis(2-Ethylhexyl)phthalate	ug/L	ND	3.00	0.895	06/20/23 00:35	
Di-n-butylphthalate	ug/L	ND	3.00	0.453	06/20/23 00:35	
Diethylphthalate	ug/L	0.991J	3.00	0.287	06/20/23 00:35	B,J
Dimethylphthalate	ug/L	ND	3.00	0.260	06/20/23 00:35	
Di-n-octylphthalate	ug/L	ND	3.00	0.932	06/20/23 00:35	
Pyrene	ug/L	ND	1.00	0.107	06/20/23 00:35	
1,2,4,5-Tetrachlorobenzene	ug/L	ND	10.0	0.0647	06/20/23 00:35	
1,2,4-Trichlorobenzene	ug/L	ND	10.0	0.0698	06/20/23 00:35	
4-Chloro-3-methylphenol	ug/L	ND	10.0	0.131	06/20/23 00:35	
2-Chlorophenol	ug/L	ND	10.0	0.133	06/20/23 00:35	
2,4-Dichlorophenol	ug/L	ND	10.0	0.102	06/20/23 00:35	
2,4-Dimethylphenol	ug/L	ND	10.0	0.0636	06/20/23 00:35	
4,6-Dinitro-2-methylphenol	ug/L	ND	10.0	1.12	06/20/23 00:35	
2,4-Dinitrophenol	ug/L	ND	10.0	5.93	06/20/23 00:35	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	0.0929	06/20/23 00:35	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	0.168	06/20/23 00:35	
2-Nitrophenol	ug/L	ND	10.0	0.117	06/20/23 00:35	
4-Nitrophenol	ug/L	ND	10.0	0.143	06/20/23 00:35	
Pentachlorophenol	ug/L	ND	10.0	0.313	06/20/23 00:35	
Phenol	ug/L	ND	10.0	4.33	06/20/23 00:35	
2,3,4,6-Tetrachlorophenol	ug/L	ND	10.0	0.231	06/20/23 00:35	
2,4,5-Trichlorophenol	ug/L	ND	10.0	0.109	06/20/23 00:35	
2,4,6-Trichlorophenol	ug/L	ND	10.0	0.100	06/20/23 00:35	
Diphenylamine	ug/L	ND	10.0	2.37	06/20/23 00:35	
2-Fluorophenol (S)	%	29.8	10.0-120		06/20/23 00:35	
Phenol-d5 (S)	%	21.2	10.0-120		06/20/23 00:35	
Nitrobenzene-d5 (S)	%	64.7	10.0-127		06/20/23 00:35	
2-Fluorobiphenyl (S)	%	67.1	10.0-130		06/20/23 00:35	
2,4,6-Tribromophenol (S)	%	54	10.0-155		06/20/23 00:35	
Terphenyl-d14 (S)	%	71.4	10.0-128		06/20/23 00:35	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

METHOD BLANK: R3943647-1 Matrix: Water

Associated Lab Samples: 20279949001, 20279949002, 20279949003, 20279949004, 20279949005, 20279949006, 20279949007, 20279949008, 20279949021, 20279949022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Acetylaminofluorene	ug/L	ND	10.0	0.253	06/26/23 17:16	
4-Aminobiphenyl	ug/L	ND	10.0	0.461	06/26/23 17:16	
Aramite	ug/L	ND	50.0	16.7	06/26/23 17:16	
Chlorobenzilate	ug/L	ND	50.0	3.84	06/26/23 17:16	
Diallate	ug/L	ND	10.0	0.524	06/26/23 17:16	
2,6-Dichlorophenol	ug/L	ND	10.0	0.102	06/26/23 17:16	
Dimethoate	ug/L	ND	50.0	5.05	06/26/23 17:16	
P-Dimethylaminoazobenzene	ug/L	ND	10.0	3.69	06/26/23 17:16	
7,12-Dimethylbenz(a)anthracene	ug/L	ND	10.0	1.71	06/26/23 17:16	
3,3'-Dimethylbenzidine	ug/L	ND	10.0	3.39	06/26/23 17:16	
a,a-Dimethylphenylethylamine	ug/L	ND	50.0	3.13	06/26/23 17:16	
1,3-Dinitrobenzene	ug/L	ND	10.0	0.359	06/26/23 17:16	
Diphenylamine	ug/L	ND	10.0	2.37	06/26/23 17:16	
Dinoseb	ug/L	ND	50.0	8.01	06/26/23 17:16	
Ethyl methanesulfonate	ug/L	ND	10.0	0.326	06/26/23 17:16	
Famphur	ug/L	ND	20.0	3.92	06/26/23 17:16	
Hexachloropropene	ug/L	ND	50.0	0.149	06/26/23 17:16	
Hexachlorophene	ug/L	ND	50.0	1.44	06/26/23 17:16	
Isodrin	ug/L	ND	10.0	4.11	06/26/23 17:16	
Isosafrole	ug/L	ND	10.0	3.88	06/26/23 17:16	
Kepone	ug/L	ND	20.0	2.66	06/26/23 17:16	
Methapyrilene	ug/L	ND	50.0	10.0	06/26/23 17:16	
3-Methylcholanthrene	ug/L	ND	10.0	0.164	06/26/23 17:16	
Methyl methanesulfonate	ug/L	ND	50.0	3.40	06/26/23 17:16	
1,4-Naphthoquinone	ug/L	ND	50.0	5.56	06/26/23 17:16	
1-Naphthalenamine	ug/L	ND	10.0	0.289	06/26/23 17:16	
2-Naphthalenamine	ug/L	ND	10.0	4.48	06/26/23 17:16	
5-Nitro-o-toluidine	ug/L	ND	10.0	1.99	06/26/23 17:16	
4-Nitroquinoline-n-oxide	ug/L	ND	10.0	2.03	06/26/23 17:16	
N-Nitrosodiethylamine	ug/L	ND	10.0	3.57	06/26/23 17:16	
N-Nitroso-di-n-butylamine	ug/L	ND	10.0	3.91	06/26/23 17:16	
N-Nitrosomethylethylamine	ug/L	ND	10.0	3.25	06/26/23 17:16	
N-Nitrosomorpholine	ug/L	ND	10.0	3.25	06/26/23 17:16	
N-Nitrosopiperidine	ug/L	ND	10.0	3.72	06/26/23 17:16	
N-Nitrosopyrrolidine	ug/L	ND	10.0	3.39	06/26/23 17:16	
Pentachlorobenzene	ug/L	ND	10.0	4.15	06/26/23 17:16	
Pentachloronitrobenzene	ug/L	ND	10.0	4.15	06/26/23 17:16	
Phenacetin	ug/L	ND	10.0	4.66	06/26/23 17:16	
p-Phenylenediamine	ug/L	ND	6900	387	06/26/23 17:16	
2-Picoline	ug/L	ND	50.0	6.83	06/26/23 17:16	
Pronamide	ug/L	ND	10.0	4.21	06/26/23 17:16	
Safrole	ug/L	ND	10.0	3.68	06/26/23 17:16	
Sulfotepp (Thiodiphosphoric Ac	ug/L	ND	50.0	3.99	06/26/23 17:16	
Thionazin	ug/L	ND	10.0	4.07	06/26/23 17:16	
O-Toluidine	ug/L	ND	10.0	3.53	06/26/23 17:16	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

METHOD BLANK: R3943647-1 Matrix: Water

Associated Lab Samples: 20279949001, 20279949002, 20279949003, 20279949004, 20279949005, 20279949006, 20279949007, 20279949008, 20279949021, 20279949022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,3,5-Trinitrobenzene	ug/L	ND	10.0	1.32	06/26/23 17:16	
O,O,O-Triethylphosphorothioate	ug/L	ND	10.0	2.93	06/26/23 17:16	

LABORATORY CONTROL SAMPLE & LCSD: R3939002-1 R3939002-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acenaphthene	ug/L	50.0	36.0	35.9	72.0	71.8	41.0-120	0.278	22	
Acenaphthylene	ug/L	50.0	41.4	40.9	82.8	81.8	43.0-120	1.22	22	
Acetophenone	ug/L	50.0	36.9	35.5	73.8	71.0	29.0-120	3.87	28	
Aniline	ug/L	50.0	6.94	20.7	13.9	41.4	13.0-120	99.6	31	R1
Anthracene	ug/L	50.0	39.2	38.2	78.4	76.4	45.0-120	2.58	20	
Benzo(a)anthracene	ug/L	50.0	41.6	39.5	83.2	79.0	47.0-120	5.18	20	
Benzo(b)fluoranthene	ug/L	50.0	40.1	39.4	80.2	78.8	46.0-120	1.76	20	
Benzo(k)fluoranthene	ug/L	50.0	39.7	38.2	79.4	76.4	46.0-120	3.85	21	
Benzo(g,h,i)perylene	ug/L	50.0	36.2	34.8	72.4	69.6	48.0-121	3.94	20	
Benzo(a)pyrene	ug/L	50.0	42.5	40.2	85.0	80.4	47.0-120	5.56	20	
Benzyl alcohol	ug/L	50.0	28.3	26.4	56.6	52.8	25.0-120	6.95	26	
bis(2-Chloroethoxy)methane	ug/L	50.0	36.2	35.0	72.4	70.0	33.0-120	3.37	24	
bis(2-Chloroethyl) ether	ug/L	50.0	35.7	35.1	71.4	70.2	23.0-120	1.69	33	
2,2'-Oxybis(1-chloropropane)	ug/L	50.0	34.1	32.5	68.2	65.0	28.0-120	4.80	31	
4-Bromophenylphenyl ether	ug/L	50.0	35.7	34.6	71.4	69.2	45.0-120	3.13	20	
4-Chloroaniline	ug/L	50.0	28.2	33.7	56.4	67.4	25.0-120	17.8	25	
2-Chloronaphthalene	ug/L	50.0	37.5	37.0	75.0	74.0	37.0-120	1.34	25	
4-Chlorophenylphenyl ether	ug/L	50.0	34.5	34.7	69.0	69.4	44.0-120	0.578	20	
Chrysene	ug/L	50.0	41.4	39.6	82.8	79.2	48.0-120	4.44	20	
Dibenz(a,h)anthracene	ug/L	50.0	37.1	35.4	74.2	70.8	47.0-120	4.69	20	
Dibenzofuran	ug/L	50.0	36.8	37.3	73.6	74.6	44.0-120	1.35	22	
1,2-Dichlorobenzene	ug/L	50.0	33.2	31.8	66.4	63.6	20.0-120	4.31	34	
1,3-Dichlorobenzene	ug/L	50.0	31.9	31.3	63.8	62.6	17.0-120	1.90	35	
1,4-Dichlorobenzene	ug/L	50.0	32.2	30.9	64.4	61.8	18.0-120	4.12	34	
3,3'-Dichlorobenzidine	ug/L	100	73.4	75.3	73.4	75.3	44.0-120	2.56	20	
2,4-Dinitrotoluene	ug/L	50.0	41.3	41.0	82.6	82.0	49.0-124	0.729	20	
2,6-Dinitrotoluene	ug/L	50.0	39.5	38.5	79.0	77.0	46.0-120	2.56	21	
Fluoranthene	ug/L	50.0	40.9	39.7	81.8	79.4	51.0-120	2.98	20	
Fluorene	ug/L	50.0	36.4	37.0	72.8	74.0	47.0-120	1.63	20	
Hexachlorobenzene	ug/L	50.0	36.7	34.3	73.4	68.6	44.0-120	6.76	20	
Hexachloro-1,3-butadiene	ug/L	50.0	28.2	27.5	56.4	55.0	19.0-120	2.51	32	
Hexachlorocyclopentadiene	ug/L	50.0	16.8	16.6	33.6	33.2	15.0-120	1.20	31	
Hexachloroethane	ug/L	50.0	30.8	29.6	61.6	59.2	15.0-120	3.97	37	
Indeno(1,2,3-cd)pyrene	ug/L	50.0	26.9	25.5	53.8	51.0	49.0-122	5.34	20	
Isophorone	ug/L	50.0	37.0	36.1	74.0	72.2	36.0-120	2.46	23	
1-Methylnaphthalene	ug/L	50.0	32.6	31.7	65.2	63.4	33.0-120	2.80	24	
2-Methylnaphthalene	ug/L	50.0	33.0	32.7	66.0	65.4	33.0-120	0.913	25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

LABORATORY CONTROL SAMPLE & LCSD: R3939002-1 R3939002-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2-Nitroaniline	ug/L	50.0	43.6	40.9	87.2	81.8	43.0-120	6.39	22	
3-Nitroaniline	ug/L	50.0	36.6	36.3	73.2	72.6	38.0-120	0.823	21	
4-Nitroaniline	ug/L	50.0	37.1	35.9	74.2	71.8	18.0-160	3.29	21	
Naphthalene	ug/L	50.0	33.3	32.7	66.6	65.4	27.0-120	1.82	27	
Nitrobenzene	ug/L	50.0	35.7	34.5	71.4	69.0	27.0-120	3.42	29	
N-Nitrosodimethylamine	ug/L	50.0	23.1	25.3	46.2	50.6	10.0-120	9.09	40	
N-Nitrosodiphenylamine	ug/L	50.0	39.1	37.1	78.2	74.2	47.0-120	5.25	20	
N-Nitroso-di-n-propylamine	ug/L	50.0	37.7	36.2	75.4	72.4	31.0-120	4.06	28	
Phenanthrene	ug/L	50.0	38.2	37.1	76.4	74.2	46.0-120	2.92	20	
Pyridine	ug/L	50.0	1.74	9.73	3.48	19.5	10.0-120	139	38	L0,R1
Butylbenzylphthalate	ug/L	50.0	40.7	39.9	81.4	79.8	43.0-121	1.99	20	
bis(2-Ethylhexyl)phthalate	ug/L	50.0	40.6	38.4	81.2	76.8	43.0-122	5.57	20	
Di-n-butylphthalate	ug/L	50.0	43.6	43.7	87.2	87.4	49.0-121	0.229	20	
Diethylphthalate	ug/L	50.0	38.5	39.4	77.0	78.8	48.0-122	2.31	20	
Dimethylphthalate	ug/L	50.0	37.7	37.6	75.4	75.2	48.0-120	0.266	20	
Di-n-octylphthalate	ug/L	50.0	40.8	38.1	81.6	76.2	42.0-125	6.84	20	
Pyrene	ug/L	50.0	42.6	42.1	85.2	84.2	47.0-120	1.18	20	
1,2,4,5-Tetrachlorobenzene	ug/L	50.0	35.1	34.9	70.2	69.8	31.0-121	0.571	27	
1,2,4-Trichlorobenzene	ug/L	50.0	31.0	30.4	62.0	60.8	24.0-120	1.95	29	
4-Chloro-3-methylphenol	ug/L	50.0	30.0	28.0	60.0	56.0	40.0-120	6.90	21	
2-Chlorophenol	ug/L	50.0	27.9	24.4	55.8	48.8	25.0-120	13.4	35	
2,4-Dichlorophenol	ug/L	50.0	32.1	29.3	64.2	58.6	36.0-120	9.12	26	
2,4-Dimethylphenol	ug/L	50.0	29.6	27.6	59.2	55.2	33.0-120	6.99	26	
4,6-Dinitro-2-methylphenol	ug/L	50.0	41.1	38.3	82.2	76.6	38.0-138	7.05	25	
2,4-Dinitrophenol	ug/L	50.0	39.1	36.2	78.2	72.4	10.0-120	7.70	39	
2-Methylphenol(o-Cresol)	ug/L	50.0	24.4	21.8	48.8	43.6	28.0-120	11.3	29	
3&4-Methylphenol(m&p Cresol)	ug/L	50.0	25.7	23.0	51.4	46.0	31.0-120	11.1	30	
2-Nitrophenol	ug/L	50.0	37.4	35.0	74.8	70.0	31.0-120	6.63	29	
4-Nitrophenol	ug/L	50.0	13.7	12.8	27.4	25.6	10.0-120	6.79	33	
Pentachlorophenol	ug/L	50.0	33.9	32.5	67.8	65.0	23.0-120	4.22	25	
Phenol	ug/L	50.0	14.3	12.9	28.6	25.8	10.0-120	10.3	36	
2,3,4,6-Tetrachlorophenol	ug/L	50.0	36.5	35.7	73.0	71.4	42.0-132	2.22	22	
2,4,5-Trichlorophenol	ug/L	50.0	39.8	37.7	79.6	75.4	44.0-120	5.42	22	
2,4,6-Trichlorophenol	ug/L	50.0	40.1	37.8	80.2	75.6	42.0-120	5.91	23	
Diphenylamine	ug/L	50.0	39.1	37.1	78.2	74.2	35.0-120	5.25	20	
2-Fluorophenol (S)	%				34.2	30.3	10.0-120			
Phenol-d5 (S)	%				26.5	24.0	10.0-120			
Nitrobenzene-d5 (S)	%				68.7	65.1	10.0-127			
2-Fluorobiphenyl (S)	%				71.6	72.5	10.0-130			
2,4,6-Tribromophenol (S)	%				66.5	63.5	10.0-155			
Terphenyl-d14 (S)	%				77.2	73.5	10.0-128			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 2083029
QC Batch Method: 3510C
Analysis Method: EPA 8270C
Analysis Description: SVOA (GC/MS) 8270C
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20279949011, 20279949018

METHOD BLANK: R3941341-4 Matrix: Water
Associated Lab Samples: 20279949011, 20279949018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Acetylaminofluorene	ug/L	ND	10.0	0.253	06/24/23 02:53	
4-Aminobiphenyl	ug/L	ND	10.0	0.461	06/24/23 02:53	
Aramite	ug/L	ND	50.0	16.7	06/24/23 02:53	
Chlorobenzilate	ug/L	ND	50.0	3.84	06/24/23 02:53	
Diallate	ug/L	ND	10.0	0.524	06/24/23 02:53	
2,6-Dichlorophenol	ug/L	ND	10.0	0.102	06/24/23 02:53	
Dimethoate	ug/L	ND	50.0	5.05	06/24/23 02:53	
P-Dimethylaminoazobenzene	ug/L	ND	10.0	3.69	06/24/23 02:53	
7,12-Dimethylbenz(a)anthracene	ug/L	ND	10.0	1.71	06/24/23 02:53	
3,3'-Dimethylbenzidine	ug/L	ND	10.0	3.39	06/24/23 02:53	
a,a-Dimethylphenylethylamine	ug/L	ND	50.0	3.13	06/24/23 02:53	
1,3-Dinitrobenzene	ug/L	ND	10.0	0.359	06/24/23 02:53	
Dinoseb	ug/L	ND	50.0	8.01	06/24/23 02:53	
Ethyl methanesulfonate	ug/L	ND	10.0	0.326	06/24/23 02:53	
Famphur	ug/L	ND	20.0	3.92	06/24/23 02:53	
Hexachloropropene	ug/L	ND	50.0	0.149	06/24/23 02:53	
Hexachlorophene	ug/L	ND	50.0	1.44	06/24/23 02:53	
Isodrin	ug/L	ND	10.0	4.11	06/24/23 02:53	
Isosafrole	ug/L	ND	10.0	3.88	06/24/23 02:53	
Kepone	ug/L	ND	20.0	2.66	06/24/23 02:53	
Methapyrilene	ug/L	ND	50.0	10.0	06/24/23 02:53	
3-Methylcholanthrene	ug/L	ND	10.0	0.164	06/24/23 02:53	
Methyl methanesulfonate	ug/L	ND	50.0	3.40	06/24/23 02:53	
1,4-Naphthoquinone	ug/L	ND	50.0	5.56	06/24/23 02:53	
1-Naphthalenamine	ug/L	ND	10.0	0.289	06/24/23 02:53	
2-Naphthalenamine	ug/L	ND	10.0	4.48	06/24/23 02:53	
5-Nitro-o-toluidine	ug/L	ND	10.0	1.99	06/24/23 02:53	
4-Nitroquinoline-n-oxide	ug/L	ND	10.0	2.03	06/24/23 02:53	
N-Nitrosodiethylamine	ug/L	ND	10.0	3.57	06/24/23 02:53	
N-Nitroso-di-n-butylamine	ug/L	ND	10.0	3.91	06/24/23 02:53	
N-Nitrosomethylethylamine	ug/L	ND	10.0	3.25	06/24/23 02:53	
N-Nitrosomorpholine	ug/L	ND	10.0	3.25	06/24/23 02:53	
N-Nitrosopiperidine	ug/L	ND	10.0	3.72	06/24/23 02:53	
N-Nitrosopyrrolidine	ug/L	ND	10.0	3.39	06/24/23 02:53	
Pentachlorobenzene	ug/L	ND	10.0	4.15	06/24/23 02:53	
Pentachloronitrobenzene	ug/L	ND	10.0	4.15	06/24/23 02:53	
Phenacetin	ug/L	ND	10.0	4.66	06/24/23 02:53	
p-Phenylenediamine	ug/L	ND	6900	387	06/24/23 02:53	
2-Picoline	ug/L	ND	50.0	6.83	06/24/23 02:53	
Pronamide	ug/L	ND	10.0	4.21	06/24/23 02:53	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

METHOD BLANK: R3941341-4 Matrix: Water
Associated Lab Samples: 20279949011, 20279949018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Safrole	ug/L	ND	10.0	3.68	06/24/23 02:53	
Sulfotepp (Thiodiphosphoric Ac	ug/L	ND	50.0	3.99	06/24/23 02:53	
Thionazin	ug/L	ND	10.0	4.07	06/24/23 02:53	
O-Toluidine	ug/L	ND	10.0	3.53	06/24/23 02:53	
1,3,5-Trinitrobenzene	ug/L	ND	10.0	1.32	06/24/23 02:53	
O,O,O-Triethylphosphorothioate	ug/L	ND	10.0	2.93	06/24/23 02:53	

LABORATORY CONTROL SAMPLE: R3941341-3

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Acetylaminofluorene	ug/L	50.0	50.4	101	32.0-120	
4-Aminobiphenyl	ug/L	50.0	35.8	71.6	20.0-120	
Aramite	ug/L	50.0	49.9	99.8	50.0-150	
Chlorobenzilate	ug/L	50.0	54.1	108	29.0-128	
Diallate	ug/L	50.0	46.6	93.2	30.0-120	
2,6-Dichlorophenol	ug/L	50.0	34.1	68.2	19.0-136	
Dimethoate	ug/L	50.0	31.8	63.6	11.0-134	
P-Dimethylaminoazobenzene	ug/L	50.0	45.3	90.6	27.0-120	
7,12-Dimethylbenz(a)anthracene	ug/L	50.0	51.2	102	14.0-124	
3,3'-Dimethylbenzidine	ug/L	50.0	21.7	43.4	13.0-120	
a,a-Dimethylphenylethylamine	ug/L	50.0	10.4	20.8	10.0-129	
1,3-Dinitrobenzene	ug/L	50.0	39.6	79.2	34.0-120	
Dinoseb	ug/L	50.0	41.5	83.0	39.0-120	
Ethyl methanesulfonate	ug/L	50.0	30.3	60.6	10.0-120	
Famphur	ug/L	50.0	37.4	74.8	32.0-120	
Hexachloropropene	ug/L	50.0	31.1	62.2	10.0-120	
Hexachlorophene	ug/L	100	65.3	65.3	10.0-120	
Isodrin	ug/L	50.0	44.1	88.2	22.0-157	
Isosafrole	ug/L	50.0	44.2	88.4	25.0-133	
Kepone	ug/L	50.0	31.5	63.0	10.0-120	
Methapyrilene	ug/L	50.0	13.2	26.4	10.0-120	
3-Methylcholanthrene	ug/L	50.0	50.3	101	30.0-160	
Methyl methanesulfonate	ug/L	50.0	21.4	42.8	10.0-120	
1,4-Naphthoquinone	ug/L	50.0	3.46	6.92	50.0-150	L0
1-Naphthalenamine	ug/L	50.0	30.5	61.0	19.0-120	
2-Naphthalenamine	ug/L	50.0	21.0	42.0	10.0-120	
5-Nitro-o-toluidine	ug/L	50.0	37.2	74.4	34.0-120	
4-Nitroquinoline-n-oxide	ug/L	50.0	37.6	75.2	10.0-159	
N-Nitrosodiethylamine	ug/L	50.0	29.1	58.2	10.0-120	
N-Nitroso-di-n-butylamine	ug/L	50.0	36.2	72.4	13.0-143	
N-Nitrosomethylethylamine	ug/L	50.0	24.9	49.8	10.0-120	
N-Nitrosomorpholine	ug/L	50.0	26.3	52.6	10.0-120	
N-Nitrosopiperidine	ug/L	50.0	35.8	71.6	10.0-160	
N-Nitrosopyrrolidine	ug/L	50.0	25.2	50.4	10.0-124	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

LABORATORY CONTROL SAMPLE: R3941341-3

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pentachlorobenzene	ug/L	50.0	39.0	78.0	25.0-120	
Pentachloronitrobenzene	ug/L	50.0	50.8	102	34.0-132	
Phenacetin	ug/L	50.0	46.8	93.6	34.0-127	
p-Phenylenediamine	ug/L	50.0	0.163	0.326	50.0-150	L0
2-Picoline	ug/L	50.0	12.0	24.0	10.0-120	
Pronamide	ug/L	50.0	49.4	98.8	38.0-130	
Safrole	ug/L	50.0	36.3	72.6	21.0-120	
Sulfotepp (Thiodiphosphoric Ac	ug/L	50.0	46.5	93.0	52.0-120	
Thionazin	ug/L	50.0	38.4	76.8	38.0-121	
O-Toluidine	ug/L	50.0	26.3	52.6	10.0-120	
1,3,5-Trinitrobenzene	ug/L	50.0	56.5	113	37.0-147	
O,O,O-Triethylphosphorothioate	ug/L	50.0	35.6	71.2	11.0-135	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 2084830
QC Batch Method: 3510C
Analysis Method: EPA 8270C
Analysis Description: SVOA (GC/MS) 8270C
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20279949002, 20279949005, 20279949007

METHOD BLANK: R3942476-2 Matrix: Water
Associated Lab Samples: 20279949002, 20279949005, 20279949007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2-Acetylaminofluorene	ug/L	ND	10.0	0.253	06/28/23 13:42	
4-Aminobiphenyl	ug/L	ND	10.0	0.461	06/28/23 13:42	
Aramite	ug/L	ND	50.0	16.7	06/28/23 13:42	
Chlorobenzilate	ug/L	ND	50.0	3.84	06/28/23 13:42	
Diallate	ug/L	ND	10.0	0.524	06/28/23 13:42	
2,6-Dichlorophenol	ug/L	ND	10.0	0.102	06/28/23 13:42	
Dimethoate	ug/L	ND	50.0	5.05	06/28/23 13:42	
P-Dimethylaminoazobenzene	ug/L	ND	10.0	3.69	06/28/23 13:42	
7,12-Dimethylbenz(a)anthracene	ug/L	ND	10.0	1.71	06/28/23 13:42	
3,3'-Dimethylbenzidine	ug/L	ND	10.0	3.39	06/28/23 13:42	
a,a-Dimethylphenylethylamine	ug/L	ND	50.0	3.13	06/28/23 13:42	
1,3-Dinitrobenzene	ug/L	ND	10.0	0.359	06/28/23 13:42	
Dinoseb	ug/L	ND	50.0	8.01	06/28/23 13:42	
Ethyl methanesulfonate	ug/L	ND	10.0	0.326	06/28/23 13:42	
Famphur	ug/L	ND	20.0	3.92	06/28/23 13:42	
Hexachloropropene	ug/L	ND	50.0	0.149	06/28/23 13:42	
Hexachlorophene	ug/L	ND	50.0	1.44	06/28/23 13:42	
Isodrin	ug/L	ND	10.0	4.11	06/28/23 13:42	
Isosafrole	ug/L	ND	10.0	3.88	06/28/23 13:42	
Kepone	ug/L	ND	20.0	2.66	06/28/23 13:42	
Methapyrilene	ug/L	ND	50.0	10.0	06/28/23 13:42	
3-Methylcholanthrene	ug/L	ND	10.0	0.164	06/28/23 13:42	
Methyl methanesulfonate	ug/L	ND	50.0	3.40	06/28/23 13:42	
1,4-Naphthoquinone	ug/L	ND	50.0	5.56	06/28/23 13:42	
1-Naphthalenamine	ug/L	ND	10.0	0.289	06/28/23 13:42	
2-Naphthalenamine	ug/L	ND	10.0	4.48	06/28/23 13:42	
5-Nitro-o-toluidine	ug/L	ND	10.0	1.99	06/28/23 13:42	
4-Nitroquinoline-n-oxide	ug/L	ND	10.0	2.03	06/28/23 13:42	
N-Nitrosodiethylamine	ug/L	ND	10.0	3.57	06/28/23 13:42	
N-Nitroso-di-n-butylamine	ug/L	ND	10.0	3.91	06/28/23 13:42	
N-Nitrosomethylethylamine	ug/L	ND	10.0	3.25	06/28/23 13:42	
N-Nitrosomorpholine	ug/L	ND	10.0	3.25	06/28/23 13:42	
N-Nitrosopiperidine	ug/L	ND	10.0	3.72	06/28/23 13:42	
N-Nitrosopyrrolidine	ug/L	ND	10.0	3.39	06/28/23 13:42	
Pentachlorobenzene	ug/L	ND	10.0	4.15	06/28/23 13:42	
Pentachloronitrobenzene	ug/L	ND	10.0	4.15	06/28/23 13:42	
Phenacetin	ug/L	ND	10.0	4.66	06/28/23 13:42	
p-Phenylenediamine	ug/L	ND	6900	387	06/28/23 13:42	
2-Picoline	ug/L	ND	50.0	6.83	06/28/23 13:42	
Pronamide	ug/L	ND	10.0	4.21	06/28/23 13:42	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

METHOD BLANK: R3942476-2 Matrix: Water
Associated Lab Samples: 20279949002, 20279949005, 20279949007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Safrole	ug/L	ND	10.0	3.68	06/28/23 13:42	
Sulfotepp (Thiodiphosphoric Ac	ug/L	ND	50.0	3.99	06/28/23 13:42	
Thionazin	ug/L	ND	10.0	4.07	06/28/23 13:42	
O-Toluidine	ug/L	ND	10.0	3.53	06/28/23 13:42	
1,3,5-Trinitrobenzene	ug/L	ND	10.0	1.32	06/28/23 13:42	
O,O,O-Triethylphosphorothioate	ug/L	ND	10.0	2.93	06/28/23 13:42	

LABORATORY CONTROL SAMPLE: R3942476-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Acetylaminofluorene	ug/L	50.0	46.6	93.2	32.0-120	
4-Aminobiphenyl	ug/L	50.0	36.8	73.6	20.0-120	
Aramite	ug/L	50.0	35.6	71.2	50.0-150	
Chlorobenzilate	ug/L	50.0	48.3	96.6	29.0-128	
Diallate	ug/L	50.0	40.3	80.6	30.0-120	
2,6-Dichlorophenol	ug/L	50.0	40.0	80.0	19.0-136	
Dimethoate	ug/L	50.0	31.8	63.6	11.0-134	
P-Dimethylaminoazobenzene	ug/L	50.0	39.0	78.0	27.0-120	
7,12-Dimethylbenz(a)anthracene	ug/L	50.0	46.5	93.0	14.0-124	
3,3'-Dimethylbenzidine	ug/L	50.0	6.47	12.9	13.0-120	L0
a,a-Dimethylphenylethylamine	ug/L	50.0	0.0444	0.0888	10.0-129	L0
1,3-Dinitrobenzene	ug/L	50.0	36.4	72.8	34.0-120	
Dinoseb	ug/L	50.0	42.1	84.2	39.0-120	
Ethyl methanesulfonate	ug/L	50.0	27.8	55.6	10.0-120	
Famphur	ug/L	50.0	51.2	102	32.0-120	
Hexachloropropene	ug/L	50.0	25.7	51.4	10.0-120	
Hexachlorophene	ug/L	100	64.4	64.4	10.0-120	
Isodrin	ug/L	50.0	39.2	78.4	22.0-157	
Isosafrole	ug/L	50.0	41.3	82.6	25.0-133	
Kepone	ug/L	50.0	52.8	106	10.0-120	
Methapyrilene	ug/L	50.0	3.50	7.00	10.0-120	L0
3-Methylcholanthrene	ug/L	50.0	50.0	100	30.0-160	
Methyl methanesulfonate	ug/L	50.0	23.5	47.0	10.0-120	
1,4-Naphthoquinone	ug/L	50.0	6.08	12.2	50.0-150	L0
1-Naphthalenamine	ug/L	50.0	32.2	64.4	19.0-120	
2-Naphthalenamine	ug/L	50.0	17.8	35.6	10.0-120	
5-Nitro-o-toluidine	ug/L	50.0	42.6	85.2	34.0-120	
4-Nitroquinoline-n-oxide	ug/L	50.0	38.5	77.0	10.0-159	
N-Nitrosodiethylamine	ug/L	50.0	33.2	66.4	10.0-120	
N-Nitroso-di-n-butylamine	ug/L	50.0	43.0	86.0	13.0-143	
N-Nitrosomethylethylamine	ug/L	50.0	24.4	48.8	10.0-120	
N-Nitrosomorpholine	ug/L	50.0	21.5	43.0	10.0-120	
N-Nitrosopiperidine	ug/L	50.0	23.6	47.2	10.0-160	
N-Nitrosopyrrolidine	ug/L	50.0	32.1	64.2	10.0-124	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

LABORATORY CONTROL SAMPLE: R3942476-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pentachlorobenzene	ug/L	50.0	39.5	79.0	25.0-120	
Pentachloronitrobenzene	ug/L	50.0	64.5	129	34.0-132	
Phenacetin	ug/L	50.0	42.7	85.4	34.0-127	
p-Phenylenediamine	ug/L	50.0	0.0785	0.157	50.0-150	L0
2-Picoline	ug/L	50.0	0.568	1.14	10.0-120	L0
Pronamide	ug/L	50.0	51.4	103	38.0-130	
Safrole	ug/L	50.0	43.1	86.2	21.0-120	
Sulfotepp (Thiodiphosphoric Ac	ug/L	50.0	48.4	96.8	52.0-120	
Thionazin	ug/L	50.0	48.5	97.0	38.0-121	
O-Toluidine	ug/L	50.0	21.8	43.6	10.0-120	
1,3,5-Trinitrobenzene	ug/L	50.0	44.1	88.2	37.0-147	
O,O,O-Triethylphosphorothioate	ug/L	50.0	42.5	85.0	11.0-135	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 2077912
QC Batch Method: 8321
Analysis Method: EPA 8321
Analysis Description: SVOA (LCMS) SW-846 8321
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20279949009, 20279949010, 20279949011, 20279949012, 20279949013, 20279949014, 20279949015, 20279949016, 20279949017, 20279949018, 20279949019, 20279949020, 20279949025

METHOD BLANK: R3938286-2 Matrix: Water
Associated Lab Samples: 20279949009, 20279949010, 20279949011, 20279949012, 20279949013, 20279949014, 20279949015, 20279949016, 20279949017, 20279949018, 20279949019, 20279949020, 20279949025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2,4-D	ug/L	ND	2.00	1.00	06/18/23 23:43	
2,4,5-T	ug/L	ND	2.00	0.573	06/18/23 23:43	
2,4,5-TP (Silvex)	ug/L	ND	2.00	0.807	06/18/23 23:43	
2,4-DB-d3 (S)	%	106	70.0-130		06/18/23 23:43	

LABORATORY CONTROL SAMPLE: R3938286-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-D	ug/L	20.0	18.9	94.5	70.0-130	
2,4,5-T	ug/L	20.0	18.7	93.5	70.0-130	
2,4,5-TP (Silvex)	ug/L	20.0	18.3	91.5	70.0-130	
2,4-DB-d3 (S)	%			103	70.0-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3938286-3 R3938286-4

Parameter	Units	20279949025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4-D	ug/L	ND	20.0	20.0	20.1	21.1	101	105	70.0-130	4.85	30	
2,4,5-T	ug/L	ND	20.0	20.0	20.1	21.0	101	105	70.0-130	4.38	30	
2,4,5-TP (Silvex)	ug/L	ND	20.0	20.0	19.8	20.4	99.0	102	70.0-130	2.99	30	
2,4-DB-d3 (S)	%						101	101	70.0-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 2080648
QC Batch Method: 8321
Analysis Method: EPA 8321
Analysis Description: SVOA (LCMS) SW-846 8321
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20279949001, 20279949002, 20279949003, 20279949004, 20279949005, 20279949006, 20279949007, 20279949008, 20279949021, 20279949022

METHOD BLANK: R3939261-2 Matrix: Water
Associated Lab Samples: 20279949001, 20279949002, 20279949003, 20279949004, 20279949005, 20279949006, 20279949007, 20279949008, 20279949021, 20279949022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2,4-D	ug/L	ND	2.00	1.00	06/20/23 13:23	
2,4,5-T	ug/L	ND	2.00	0.573	06/20/23 13:23	
2,4,5-TP (Silvex)	ug/L	ND	2.00	0.807	06/20/23 13:23	
2,4-DB-d3 (S)	%	106	70.0-130		06/20/23 13:23	

LABORATORY CONTROL SAMPLE: R3939261-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-D	ug/L	20.0	18.1	90.5	70.0-130	
2,4,5-T	ug/L	20.0	18.3	91.5	70.0-130	
2,4,5-TP (Silvex)	ug/L	20.0	18.1	90.5	70.0-130	
2,4-DB-d3 (S)	%			105	70.0-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
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251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 2081500
QC Batch Method: 8321
Analysis Method: EPA 8321
Analysis Description: SVOA (LCMS) SW-846 8321
Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 20279949026

METHOD BLANK: R3939867-2 Matrix: Water

Associated Lab Samples: 20279949026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
2,4-D	ug/L	ND	2.00	1.00	06/21/23 14:52	
2,4,5-T	ug/L	ND	2.00	0.573	06/21/23 14:52	
2,4,5-TP (Silvex)	ug/L	ND	2.00	0.807	06/21/23 14:52	
2,4-DB-d3 (S)	%	106	70.0-130		06/21/23 14:52	

LABORATORY CONTROL SAMPLE: R3939867-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4-D	ug/L	20.0	18.3	91.5	70.0-130	
2,4,5-T	ug/L	20.0	19.6	98.0	70.0-130	
2,4,5-TP (Silvex)	ug/L	20.0	18.8	94.0	70.0-130	
2,4-DB-d3 (S)	%			118	70.0-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3939867-3 R3939867-4

Parameter	Units	L1626617-02 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
2,4-D	ug/L	ND	20.0	20.0	18.4	19.0	92.0	95.0	70.0-130	3.21	30	
2,4,5-T	ug/L	ND	20.0	20.0	18.7	19.3	93.5	96.5	70.0-130	3.16	30	
2,4,5-TP (Silvex)	ug/L	ND	20.0	20.0	18.4	19.0	92.0	95.0	70.0-130	3.21	30	
2,4-DB-d3 (S)	%						101	106	70.0-130			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 2079691
QC Batch Method: 8260B
Analysis Method: EPA 8260B
Analysis Description: VOA (GC/MS) 8260B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20279949009, 20279949010, 20279949011, 20279949012, 20279949013, 20279949014, 20279949015, 20279949016

METHOD BLANK: R3938908-3
Matrix: Water
Associated Lab Samples: 20279949009, 20279949010, 20279949011, 20279949012, 20279949013, 20279949014, 20279949015, 20279949016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetone	ug/L	ND	50.0	11.3	06/18/23 00:28	
Acrolein	ug/L	ND	50.0	2.54	06/18/23 00:28	
Acrylonitrile	ug/L	ND	10.0	0.671	06/18/23 00:28	
Allyl chloride	ug/L	ND	5.00	0.500	06/18/23 00:28	
Benzene	ug/L	ND	1.00	0.0941	06/18/23 00:28	
Bromodichloromethane	ug/L	ND	1.00	0.136	06/18/23 00:28	
Bromoform	ug/L	ND	1.00	0.129	06/18/23 00:28	
Bromomethane	ug/L	ND	5.00	0.605	06/18/23 00:28	
Carbon disulfide	ug/L	ND	1.00	0.0962	06/18/23 00:28	
Carbon tetrachloride	ug/L	ND	1.00	0.128	06/18/23 00:28	
Chlorobenzene	ug/L	ND	1.00	0.116	06/18/23 00:28	
Dibromochloromethane	ug/L	ND	1.00	0.140	06/18/23 00:28	
Chloroethane	ug/L	ND	5.00	0.192	06/18/23 00:28	
Chloroform	ug/L	ND	5.00	0.111	06/18/23 00:28	
Chloromethane	ug/L	ND	2.50	0.960	06/18/23 00:28	
Dibromomethane	ug/L	ND	1.00	0.122	06/18/23 00:28	
1,2-Dichlorobenzene	ug/L	ND	1.00	0.107	06/18/23 00:28	
trans-1,4-Dichloro-2-butene	ug/L	ND	2.50	0.467	06/18/23 00:28	
Dichlorodifluoromethane	ug/L	ND	5.00	0.374	06/18/23 00:28	
1,1-Dichloroethane	ug/L	ND	1.00	0.100	06/18/23 00:28	
1,2-Dichloroethane	ug/L	ND	1.00	0.0819	06/18/23 00:28	
1,1-Dichloroethene	ug/L	ND	1.00	0.188	06/18/23 00:28	
cis-1,2-Dichloroethene	ug/L	ND	1.00	0.126	06/18/23 00:28	
trans-1,2-Dichloroethene	ug/L	ND	1.00	0.149	06/18/23 00:28	
1,2-Dichloropropane	ug/L	ND	1.00	0.149	06/18/23 00:28	
cis-1,3-Dichloropropene	ug/L	ND	1.00	0.111	06/18/23 00:28	
trans-1,3-Dichloropropene	ug/L	ND	1.00	0.118	06/18/23 00:28	
Ethylbenzene	ug/L	ND	1.00	0.173	06/18/23 00:28	
2-Hexanone	ug/L	ND	10.0	0.787	06/18/23 00:28	
Iodomethane	ug/L	ND	10.0	6.00	06/18/23 00:28	
2-Butanone (MEK)	ug/L	ND	10.0	1.19	06/18/23 00:28	
Methylene Chloride	ug/L	ND	5.00	0.430	06/18/23 00:28	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.478	06/18/23 00:28	
Styrene	ug/L	ND	1.00	0.118	06/18/23 00:28	
1,1,1,2-Tetrachloroethane	ug/L	ND	1.00	0.147	06/18/23 00:28	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.00	0.133	06/18/23 00:28	
Tetrachloroethene	ug/L	ND	1.00	0.300	06/18/23 00:28	
Toluene	ug/L	ND	1.00	0.278	06/18/23 00:28	
1,1,1-Trichloroethane	ug/L	ND	1.00	0.149	06/18/23 00:28	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

METHOD BLANK: R3938908-3 Matrix: Water
Associated Lab Samples: 20279949009, 20279949010, 20279949011, 20279949012, 20279949013, 20279949014, 20279949015, 20279949016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,1,2-Trichloroethane	ug/L	ND	1.00	0.158	06/18/23 00:28	
Trichloroethene	ug/L	ND	1.00	0.190	06/18/23 00:28	
Trichlorofluoromethane	ug/L	ND	5.00	0.160	06/18/23 00:28	
1,2,3-Trichloropropane	ug/L	ND	2.50	0.237	06/18/23 00:28	
Vinyl acetate	ug/L	ND	10.0	0.692	06/18/23 00:28	
Vinyl chloride	ug/L	ND	1.00	0.234	06/18/23 00:28	
o-Xylene	ug/L	ND	1.00	0.174	06/18/23 00:28	
m&p-Xylene	ug/L	ND	2.00	0.430	06/18/23 00:28	
Xylene (Total)	ug/L	ND	3.00	0.174	06/18/23 00:28	
Toluene-d8 (S)	%	97.2	80.0-120		06/18/23 00:28	
1,2-Dichloroethane-d4 (S)	%	96.7	70.0-130		06/18/23 00:28	
4-Bromofluorobenzene (S)	%	92.8	77.0-126		06/18/23 00:28	

LABORATORY CONTROL SAMPLE & LCSD: R3938908-1 R3938908-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Acetone	ug/L	25.0	20.1	22.7	80.4	90.8	19.0-160	12.1	27	
Acrolein	ug/L	25.0	15.9	16.8	63.6	67.2	10.0-160	5.50	26	
Acrylonitrile	ug/L	25.0	27.7	31.1	111	124	55.0-149	11.6	20	
Allyl chloride	ug/L	25.0	23.5	28.5	94.0	114	72.0-128	19.2	20	
Benzene	ug/L	5.00	4.84	5.96	96.8	119	70.0-123	20.7	20	R1
Bromodichloromethane	ug/L	5.00	4.98	6.09	99.6	122	75.0-120	20.1	20	L0,R1
Bromoform	ug/L	5.00	4.89	5.81	97.8	116	68.0-132	17.2	20	
Bromomethane	ug/L	5.00	3.85	4.42	77.0	88.4	10.0-160	13.8	25	
Carbon disulfide	ug/L	5.00	5.12	5.96	102	119	61.0-128	15.2	20	
Carbon tetrachloride	ug/L	5.00	5.25	5.94	105	119	68.0-126	12.3	20	
Chlorobenzene	ug/L	5.00	5.51	6.90	110	138	80.0-121	22.4	20	L0,R1
Dibromochloromethane	ug/L	5.00	5.30	6.58	106	132	77.0-125	21.5	20	L0,R1
Chloroethane	ug/L	5.00	4.50	5.32	90.0	106	47.0-150	16.7	20	
Chloroform	ug/L	5.00	4.56	5.43	91.2	109	73.0-120	17.4	20	
Chloromethane	ug/L	5.00	4.28	5.40	85.6	108	41.0-142	23.1	20	R1
Dibromomethane	ug/L	5.00	5.12	6.04	102	121	80.0-120	16.5	20	L0
1,2-Dichlorobenzene	ug/L	5.00	5.68	6.76	114	135	79.0-121	17.4	20	L0
trans-1,4-Dichloro-2-butene	ug/L	5.00	3.13	3.83	62.6	76.6	33.0-144	20.1	20	R1
Dichlorodifluoromethane	ug/L	5.00	4.99	5.50	99.8	110	51.0-149	9.72	20	
1,1-Dichloroethane	ug/L	5.00	5.35	6.25	107	125	70.0-126	15.5	20	
1,2-Dichloroethane	ug/L	5.00	4.86	5.71	97.2	114	70.0-128	16.1	20	
1,1-Dichloroethene	ug/L	5.00	5.69	6.76	114	135	71.0-124	17.2	20	L0
cis-1,2-Dichloroethene	ug/L	5.00	5.15	5.78	103	116	73.0-120	11.5	20	
trans-1,2-Dichloroethene	ug/L	5.00	5.00	5.94	100	119	73.0-120	17.2	20	
1,2-Dichloropropane	ug/L	5.00	5.35	6.83	107	137	77.0-125	24.3	20	L0,R1
cis-1,3-Dichloropropene	ug/L	5.00	4.25	5.42	85.0	108	80.0-123	24.2	20	R1
trans-1,3-Dichloropropene	ug/L	5.00	5.28	6.67	106	133	78.0-124	23.3	20	L0,R1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
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251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

LABORATORY CONTROL SAMPLE & LCSD: R3938908-1 R3938908-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethylbenzene	ug/L	5.00	5.29	6.73	106	135	79.0-123	24.0	20	L0,R1
2-Hexanone	ug/L	25.0	33.4	41.3	134	165	67.0-149	21.2	20	L0,R1
Iodomethane	ug/L	25.0	24.0	28.3	96.0	113	33.0-147	16.4	26	
2-Butanone (MEK)	ug/L	25.0	23.6	29.5	94.4	118	44.0-160	22.2	20	R1
Methylene Chloride	ug/L	5.00	4.82	5.42	96.4	108	67.0-120	11.7	20	
4-Methyl-2-pentanone (MIBK)	ug/L	25.0	27.4	32.6	110	130	68.0-142	17.3	20	
Styrene	ug/L	5.00	4.84	5.95	96.8	119	73.0-130	20.6	20	R1
1,1,1,2-Tetrachloroethane	ug/L	5.00	5.19	6.36	104	127	75.0-125	20.3	20	L0,R1
1,1,2,2-Tetrachloroethane	ug/L	5.00	5.36	6.41	107	128	65.0-130	17.8	20	
Tetrachloroethene	ug/L	5.00	5.28	6.46	106	129	72.0-132	20.1	20	R1
Toluene	ug/L	5.00	5.31	6.59	106	132	79.0-120	21.5	20	L0,R1
1,1,1-Trichloroethane	ug/L	5.00	5.04	5.80	101	116	73.0-124	14.0	20	
1,1,2-Trichloroethane	ug/L	5.00	5.65	6.77	113	135	80.0-120	18.0	20	L0
Trichloroethene	ug/L	5.00	4.55	5.71	91.0	114	78.0-124	22.6	20	R1
Trichlorofluoromethane	ug/L	5.00	4.24	4.86	84.8	97.2	59.0-147	13.6	20	
1,2,3-Trichloropropane	ug/L	5.00	5.39	6.08	108	122	73.0-130	12.0	20	
Vinyl acetate	ug/L	25.0	22.8	23.7	91.2	94.8	11.0-160	3.87	20	
Vinyl chloride	ug/L	5.00	4.74	5.72	94.8	114	67.0-131	18.7	20	
o-Xylene	ug/L	5.00	4.72	5.73	94.4	115	80.0-122	19.3	20	
m&p-Xylene	ug/L	10.0	11.4	14.1	114	141	80.0-122	21.2	20	L0,R1
Xylene (Total)	ug/L	15.0	16.1	19.8	107	132	79.0-123	20.6	20	L0,R1
Toluene-d8 (S)	%				101	100	80.0-120			
1,2-Dichloroethane-d4 (S)	%				95.3	92.4	70.0-130			
4-Bromofluorobenzene (S)	%				101	95.6	77.0-126			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3938908-4 R3938908-5

Parameter	Units	L1625883-03 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acetone	ug/L	ND	25.0	25.0	23.4	22.0	93.6	88.0	10.0-160	6.17	35	
Acrolein	ug/L	ND	25.0	25.0	28.0	26.8	112	107	10.0-160	4.38	39	
Acrylonitrile	ug/L	ND	25.0	25.0	28.1	26.2	112	105	21.0-160	7.00	32	
Allyl chloride	ug/L	ND	125	125	25.2	18.5	20.2	14.8	39.0-145	30.7	30	ML,R1
Benzene	ug/L	ND	5.00	5.00	5.08	3.84	102	76.8	17.0-158	27.8	27	R1
Bromodichloromethane	ug/L	ND	5.00	5.00	5.26	4.15	105	83.0	31.0-150	23.6	27	
Bromoform	ug/L	ND	5.00	5.00	5.19	4.36	104	87.2	29.0-150	17.4	29	
Bromomethane	ug/L	ND	5.00	5.00	3.55	2.59	71.0	51.8	10.0-160	31.3	38	
Carbon disulfide	ug/L	0.176	5.00	5.00	4.64	3.26	89.3	61.7	10.0-156	34.9	28	R1
Carbon tetrachloride	ug/L	ND	5.00	5.00	5.15	3.60	103	72.0	23.0-159	35.4	28	R1
Chlorobenzene	ug/L	ND	5.00	5.00	5.75	4.46	115	89.2	33.0-152	25.3	27	
Dibromochloromethane	ug/L	ND	5.00	5.00	5.58	4.78	112	95.6	37.0-149	15.4	27	
Chloroethane	ug/L	ND	5.00	5.00	4.37	3.16	87.4	63.2	10.0-160	32.1	30	R1
Chloroform	ug/L	ND	5.00	5.00	4.65	3.61	93.0	72.2	29.0-154	25.2	28	
Chloromethane	ug/L	ND	5.00	5.00	4.27	2.98	85.4	59.6	10.0-160	35.6	29	R1
Dibromomethane	ug/L	ND	5.00	5.00	5.23	4.62	105	92.4	30.0-151	12.4	27	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3938908-4 R3938908-5

Parameter	Units	L1625883-03 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichlorobenzene	ug/L	ND	5.00	5.00	5.97	4.75	119	95.0	34.0-149	22.8	28	
trans-1,4-Dichloro-2-butene	ug/L	ND	5.00	5.00	4.11	4.12	82.2	82.4	10.0-157	0.243	37	
Dichlorodifluoromethane	ug/L	ND	5.00	5.00	4.86	3.19	97.2	63.8	10.0-160	41.5	29	R1
1,1-Dichloroethane	ug/L	ND	5.00	5.00	5.42	3.99	108	79.8	25.0-158	30.4	27	R1
1,2-Dichloroethane	ug/L	ND	5.00	5.00	4.94	4.15	98.8	83.0	29.0-151	17.4	27	
1,1-Dichloroethene	ug/L	ND	5.00	5.00	5.61	4.05	112	81.0	11.0-160	32.3	29	R1
cis-1,2-Dichloroethene	ug/L	ND	5.00	5.00	5.01	3.90	100	78.0	10.0-160	24.9	27	
trans-1,2-Dichloroethene	ug/L	ND	5.00	5.00	4.97	3.48	99.4	69.6	17.0-153	35.3	27	R1
1,2-Dichloropropane	ug/L	ND	5.00	5.00	5.79	4.50	116	90.0	30.0-156	25.1	27	
cis-1,3-Dichloropropene	ug/L	ND	5.00	5.00	4.26	3.53	85.2	70.6	34.0-149	18.7	28	
trans-1,3-Dichloropropene	ug/L	ND	5.00	5.00	5.77	4.85	115	97.0	32.0-149	17.3	28	
Ethylbenzene	ug/L	ND	5.00	5.00	5.84	4.27	117	85.4	30.0-155	31.1	27	R1
2-Hexanone	ug/L	ND	25.0	25.0	39.0	35.7	156	143	21.0-160	8.84	29	
Iodomethane	ug/L	ND	25.0	25.0	23.5	16.9	94.0	67.6	10.0-160	32.7	40	
2-Butanone (MEK)	ug/L	ND	25.0	25.0	26.8	25.1	107	100	10.0-160	6.55	32	
Methylene Chloride	ug/L	ND	5.00	5.00	4.72	3.62	94.4	72.4	23.0-144	26.4	28	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	25.0	30.1	27.5	120	110	29.0-160	9.03	29	
Styrene	ug/L	ND	5.00	5.00	5.00	3.86	100	77.2	33.0-155	25.7	28	
1,1,1,2-Tetrachloroethane	ug/L	ND	5.00	5.00	5.52	4.34	110	86.8	36.0-151	23.9	29	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.00	5.00	6.45	5.66	129	113	33.0-150	13.0	28	
Tetrachloroethene	ug/L	ND	5.00	5.00	5.55	3.85	111	77.0	10.0-160	36.2	27	R1
Toluene	ug/L	ND	5.00	5.00	5.42	4.06	108	81.2	26.0-154	28.7	28	R1
1,1,1-Trichloroethane	ug/L	ND	5.00	5.00	4.97	3.52	99.4	70.4	23.0-160	34.2	28	R1
1,1,2-Trichloroethane	ug/L	ND	5.00	5.00	6.31	5.27	126	105	35.0-147	18.0	27	
Trichloroethene	ug/L	ND	5.00	5.00	4.47	3.31	89.4	66.2	10.0-160	29.8	25	R1
Trichlorofluoromethane	ug/L	ND	5.00	5.00	4.24	3.04	84.8	60.8	17.0-160	33.0	31	R1
1,2,3-Trichloropropane	ug/L	ND	5.00	5.00	5.98	5.36	120	107	34.0-151	10.9	29	
Vinyl acetate	ug/L	ND	25.0	25.0	31.4	27.2	126	109	12.0-160	14.3	31	
Vinyl chloride	ug/L	ND	5.00	5.00	4.62	3.28	92.4	65.6	10.0-160	33.9	27	R1
o-Xylene	ug/L	ND	5.00	5.00	4.88	3.66	97.6	73.2	45.0-144	28.6	26	R1
m&p-Xylene	ug/L	ND	10.0	10.0	11.9	8.55	119	85.5	43.0-146	32.8	26	R1
Xylene (Total)	ug/L	ND	15.0	15.0	16.8	12.2	112	81.3	29.0-154	31.7	28	R1
Toluene-d8 (S)	%						96.9	95.4	80.0-120			
1,2-Dichloroethane-d4 (S)	%						89.2	91.6	70.0-130			
4-Bromofluorobenzene (S)	%						97.3	95.5	77.0-126			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 2080990
QC Batch Method: 8260B
Analysis Method: EPA 8260B
Analysis Description: VOA (GC/MS) 8260B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20279949001, 20279949002, 20279949003, 20279949004, 20279949005, 20279949009, 20279949010, 20279949011, 20279949012, 20279949013, 20279949014, 20279949015, 20279949016, 20279949017, 20279949018, 20279949019, 20279949020, 20279949025, 20279949029, 20279949030

METHOD BLANK: R3940742-4 Matrix: Water
Associated Lab Samples: 20279949001, 20279949002, 20279949003, 20279949004, 20279949005, 20279949009, 20279949010, 20279949011, 20279949012, 20279949013, 20279949014, 20279949015, 20279949016, 20279949017, 20279949018, 20279949019, 20279949020, 20279949025, 20279949029, 20279949030

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Ethylbenzene	ug/L	ND	1.00	0.173	06/22/23 11:13	
Toluene	ug/L	ND	1.00	0.278	06/22/23 11:13	
o-Xylene	ug/L	ND	1.00	0.174	06/22/23 11:13	
m&p-Xylene	ug/L	ND	2.00	0.430	06/22/23 11:13	
Xylene (Total)	ug/L	ND	3.00	0.174	06/22/23 11:13	
Acetonitrile	ug/L	ND	50.0	24.0	06/22/23 11:13	
Chloroprene	ug/L	ND	50.0	1.45	06/22/23 11:13	
Ethyl methacrylate	ug/L	ND	5.00	1.48	06/22/23 11:13	
Isobutanol	ug/L	ND	100	42.1	06/22/23 11:13	
Methacrylonitrile	ug/L	ND	50.0	14.2	06/22/23 11:13	
Methyl methacrylate	ug/L	ND	5.00	1.52	06/22/23 11:13	
Pentachloroethane	ug/L	ND	5.00	2.30	06/22/23 11:13	
Propionitrile	ug/L	ND	50.0	16.2	06/22/23 11:13	
Toluene-d8 (S)	%	98.2	80.0-120		06/22/23 11:13	
1,2-Dichloroethane-d4 (S)	%	102	70.0-130		06/22/23 11:13	
4-Bromofluorobenzene (S)	%	86.4	77.0-126		06/22/23 11:13	

LABORATORY CONTROL SAMPLE & LCSD: R3940742-1 R3940742-2

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethylbenzene	ug/L	5.00	4.57	4.37	91.4	87.4	79.0-123	4.47	20	
Toluene	ug/L	5.00	4.66	4.61	93.2	92.2	79.0-120	1.08	20	
o-Xylene	ug/L	5.00	4.07	4.06	81.4	81.2	80.0-122	0.246	20	
m&p-Xylene	ug/L	10.0	8.79	8.89	87.9	88.9	80.0-122	1.13	20	
Xylene (Total)	ug/L	15.0	12.9	13.0	86.0	86.7	79.0-123	0.772	20	
Toluene-d8 (S)	%				98.1	98.0	80.0-120			
1,2-Dichloroethane-d4 (S)	%				96.8	94.0	70.0-130			
4-Bromofluorobenzene (S)	%				88.9	87.0	77.0-126			

LABORATORY CONTROL SAMPLE: R3940742-3

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetonitrile	ug/L	500	413	82.6	40.0-160	
Chloroprene	ug/L	50.0	48.0	96.0	60.0-143	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

LABORATORY CONTROL SAMPLE: R3940742-3

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Ethyl methacrylate	ug/L	50.0	51.2	102	72.0-129	
Isobutanol	ug/L	1000	849	84.9	40.0-160	
Methacrylonitrile	ug/L	500	501	100	61.0-145	
Methyl methacrylate	ug/L	50.0	46.1	92.2	63.0-149	
Pentachloroethane	ug/L	50.0	52.5	105	10.0-160	
Propionitrile	ug/L	500	467	93.4	49.0-160	
Toluene-d8 (S)	%			102	80.0-120	
1,2-Dichloroethane-d4 (S)	%			92.2	70.0-130	
4-Bromofluorobenzene (S)	%			91.4	77.0-126	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 2082069
QC Batch Method: 8260B
Analysis Method: EPA 8260B
Analysis Description: VOA (GC/MS) 8260B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20279949001, 20279949002, 20279949003, 20279949004, 20279949005, 20279949006, 20279949007, 20279949008, 20279949017, 20279949018, 20279949019, 20279949020, 20279949021, 20279949022, 20279949025, 20279949026, 20279949027, 20279949028, 20279949029, 20279949030

METHOD BLANK: R3939564-2
Matrix: Water
Associated Lab Samples: 20279949001, 20279949002, 20279949003, 20279949004, 20279949005, 20279949006, 20279949007, 20279949008, 20279949017, 20279949018, 20279949019, 20279949020, 20279949021, 20279949022, 20279949025, 20279949026, 20279949027, 20279949028, 20279949029, 20279949030

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetone	ug/L	ND	50.0	11.3	06/17/23 16:13	
Acrolein	ug/L	ND	50.0	2.54	06/17/23 16:13	
Acrylonitrile	ug/L	ND	10.0	0.671	06/17/23 16:13	
Allyl chloride	ug/L	ND	5.00	0.500	06/17/23 16:13	
Benzene	ug/L	ND	1.00	0.0941	06/17/23 16:13	
Bromodichloromethane	ug/L	ND	1.00	0.136	06/17/23 16:13	
Bromoform	ug/L	ND	1.00	0.129	06/17/23 16:13	
Bromomethane	ug/L	ND	5.00	0.605	06/17/23 16:13	
Carbon disulfide	ug/L	ND	1.00	0.0962	06/17/23 16:13	
Carbon tetrachloride	ug/L	ND	1.00	0.128	06/17/23 16:13	
Chlorobenzene	ug/L	ND	1.00	0.116	06/17/23 16:13	
Dibromochloromethane	ug/L	ND	1.00	0.140	06/17/23 16:13	
Chloroethane	ug/L	ND	5.00	0.192	06/17/23 16:13	
Chloroform	ug/L	ND	5.00	0.111	06/17/23 16:13	
Chloromethane	ug/L	ND	2.50	0.960	06/17/23 16:13	
Dibromomethane	ug/L	ND	1.00	0.122	06/17/23 16:13	
1,2-Dichlorobenzene	ug/L	ND	1.00	0.107	06/17/23 16:13	
trans-1,4-Dichloro-2-butene	ug/L	ND	2.50	0.467	06/17/23 16:13	
Dichlorodifluoromethane	ug/L	ND	5.00	0.374	06/17/23 16:13	
1,1-Dichloroethane	ug/L	ND	1.00	0.100	06/17/23 16:13	
1,2-Dichloroethane	ug/L	ND	1.00	0.0819	06/17/23 16:13	
1,1-Dichloroethene	ug/L	ND	1.00	0.188	06/17/23 16:13	
cis-1,2-Dichloroethene	ug/L	ND	1.00	0.126	06/17/23 16:13	
trans-1,2-Dichloroethene	ug/L	ND	1.00	0.149	06/17/23 16:13	
1,2-Dichloropropane	ug/L	ND	1.00	0.149	06/17/23 16:13	
cis-1,3-Dichloropropene	ug/L	ND	1.00	0.111	06/17/23 16:13	
trans-1,3-Dichloropropene	ug/L	ND	1.00	0.118	06/17/23 16:13	
Ethylbenzene	ug/L	ND	1.00	0.173	06/17/23 16:13	
2-Hexanone	ug/L	ND	10.0	0.787	06/17/23 16:13	
Iodomethane	ug/L	ND	10.0	6.00	06/17/23 16:13	
2-Butanone (MEK)	ug/L	ND	10.0	1.19	06/17/23 16:13	
Methylene Chloride	ug/L	ND	5.00	0.430	06/17/23 16:13	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	0.478	06/17/23 16:13	
Styrene	ug/L	ND	1.00	0.118	06/17/23 16:13	
1,1,1,2-Tetrachloroethane	ug/L	ND	1.00	0.147	06/17/23 16:13	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.00	0.133	06/17/23 16:13	
Tetrachloroethene	ug/L	ND	1.00	0.300	06/17/23 16:13	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

METHOD BLANK: R3939564-2 Matrix: Water

Associated Lab Samples: 20279949001, 20279949002, 20279949003, 20279949004, 20279949005, 20279949006, 20279949007, 20279949008, 20279949017, 20279949018, 20279949019, 20279949020, 20279949021, 20279949022, 20279949025, 20279949026, 20279949027, 20279949028, 20279949029, 20279949030

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Toluene	ug/L	ND	1.00	0.278	06/17/23 16:13	
1,1,1-Trichloroethane	ug/L	ND	1.00	0.149	06/17/23 16:13	
1,1,2-Trichloroethane	ug/L	ND	1.00	0.158	06/17/23 16:13	
Trichloroethene	ug/L	ND	1.00	0.190	06/17/23 16:13	
Trichlorofluoromethane	ug/L	ND	5.00	0.160	06/17/23 16:13	
1,2,3-Trichloropropane	ug/L	ND	2.50	0.237	06/17/23 16:13	
Vinyl acetate	ug/L	ND	10.0	0.692	06/17/23 16:13	
Vinyl chloride	ug/L	ND	1.00	0.234	06/17/23 16:13	
o-Xylene	ug/L	ND	1.00	0.174	06/17/23 16:13	
m&p-Xylene	ug/L	ND	2.00	0.430	06/17/23 16:13	
Xylene (Total)	ug/L	ND	3.00	0.174	06/17/23 16:13	
Toluene-d8 (S)	%	101	80.0-120		06/17/23 16:13	
1,2-Dichloroethane-d4 (S)	%	109	70.0-130		06/17/23 16:13	
4-Bromofluorobenzene (S)	%	90.4	77.0-126		06/17/23 16:13	

LABORATORY CONTROL SAMPLE: R3939564-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	25.0	29.7	119	19.0-160	
Acrolein	ug/L	25.0	24.8	99.2	10.0-160	
Acrylonitrile	ug/L	25.0	29.8	119	55.0-149	
Allyl chloride	ug/L	25.0	26.6	106	72.0-128	
Benzene	ug/L	5.00	5.19	104	70.0-123	
Bromodichloromethane	ug/L	5.00	5.36	107	75.0-120	
Bromoform	ug/L	5.00	4.54	90.8	68.0-132	
Bromomethane	ug/L	5.00	4.80	96.0	10.0-160	
Carbon disulfide	ug/L	5.00	5.31	106	61.0-128	
Carbon tetrachloride	ug/L	5.00	5.42	108	68.0-126	
Chlorobenzene	ug/L	5.00	4.90	98.0	80.0-121	
Dibromochloromethane	ug/L	5.00	4.88	97.6	77.0-125	
Chloroethane	ug/L	5.00	5.33	107	47.0-150	
Chloroform	ug/L	5.00	5.15	103	73.0-120	
Chloromethane	ug/L	5.00	5.94	119	41.0-142	
Dibromomethane	ug/L	5.00	5.04	101	80.0-120	
1,2-Dichlorobenzene	ug/L	5.00	5.11	102	79.0-121	
trans-1,4-Dichloro-2-butene	ug/L	5.00	4.40	88.0	33.0-144	
Dichlorodifluoromethane	ug/L	5.00	5.05	101	51.0-149	
1,1-Dichloroethane	ug/L	5.00	5.57	111	70.0-126	
1,2-Dichloroethane	ug/L	5.00	5.26	105	70.0-128	
1,1-Dichloroethene	ug/L	5.00	5.77	115	71.0-124	
cis-1,2-Dichloroethene	ug/L	5.00	5.10	102	73.0-120	
trans-1,2-Dichloroethene	ug/L	5.00	5.15	103	73.0-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

LABORATORY CONTROL SAMPLE: R3939564-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/L	5.00	5.37	107	77.0-125	
cis-1,3-Dichloropropene	ug/L	5.00	6.10	122	80.0-123	
trans-1,3-Dichloropropene	ug/L	5.00	5.42	108	78.0-124	
Ethylbenzene	ug/L	5.00	5.11	102	79.0-123	
2-Hexanone	ug/L	25.0	22.8	91.2	67.0-149	
Iodomethane	ug/L	25.0	25.5	102	33.0-147	
2-Butanone (MEK)	ug/L	25.0	27.3	109	44.0-160	
Methylene Chloride	ug/L	5.00	4.91	98.2	67.0-120	
4-Methyl-2-pentanone (MIBK)	ug/L	25.0	28.9	116	68.0-142	
Styrene	ug/L	5.00	3.97	79.4	73.0-130	
1,1,1,2-Tetrachloroethane	ug/L	5.00	4.89	97.8	75.0-125	
1,1,2,2-Tetrachloroethane	ug/L	5.00	5.16	103	65.0-130	
Tetrachloroethene	ug/L	5.00	5.21	104	72.0-132	
Toluene	ug/L	5.00	4.93	98.6	79.0-120	
1,1,1-Trichloroethane	ug/L	5.00	5.41	108	73.0-124	
1,1,2-Trichloroethane	ug/L	5.00	5.13	103	80.0-120	
Trichloroethene	ug/L	5.00	5.29	106	78.0-124	
Trichlorofluoromethane	ug/L	5.00	4.44	88.8	59.0-147	
1,2,3-Trichloropropane	ug/L	5.00	5.06	101	73.0-130	
Vinyl acetate	ug/L	25.0	17.9	71.6	11.0-160	
Vinyl chloride	ug/L	5.00	4.79	95.8	67.0-131	
o-Xylene	ug/L	5.00	4.82	96.4	80.0-122	
m&p-Xylene	ug/L	10.0	10.1	101	80.0-122	
Xylene (Total)	ug/L	15.0	14.9	99.3	79.0-123	
Toluene-d8 (S)	%			102	80.0-120	
1,2-Dichloroethane-d4 (S)	%			105	70.0-130	
4-Bromofluorobenzene (S)	%			95.1	77.0-126	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 2082088
QC Batch Method: 8260B
Analysis Method: EPA 8260B
Analysis Description: VOA (GC/MS) 8260B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20279949006, 20279949007, 20279949008, 20279949021, 20279949022, 20279949026, 20279949027, 20279949028

METHOD BLANK: R3940099-2 Matrix: Water
Associated Lab Samples: 20279949006, 20279949007, 20279949008, 20279949021, 20279949022, 20279949026, 20279949027, 20279949028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Acetonitrile	ug/L	ND	50.0	24.0	06/21/23 12:20	
Chloroprene	ug/L	ND	50.0	1.45	06/21/23 12:20	
Ethyl methacrylate	ug/L	ND	5.00	1.48	06/21/23 12:20	
Methacrylonitrile	ug/L	ND	50.0	14.2	06/21/23 12:20	
Methyl methacrylate	ug/L	ND	5.00	1.52	06/21/23 12:20	
Pentachloroethane	ug/L	ND	5.00	2.30	06/21/23 12:20	
Propionitrile	ug/L	ND	50.0	16.2	06/21/23 12:20	
Toluene-d8 (S)	%	97	80.0-120		06/21/23 12:20	
1,2-Dichloroethane-d4 (S)	%	127	70.0-130		06/21/23 12:20	
4-Bromofluorobenzene (S)	%	92.7	77.0-126		06/21/23 12:20	

LABORATORY CONTROL SAMPLE: R3940099-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetonitrile	ug/L	500	676	135	40.0-160	
Chloroprene	ug/L	50.0	60.3	121	60.0-143	
Ethyl methacrylate	ug/L	50.0	58.7	117	72.0-129	
Methacrylonitrile	ug/L	500	606	121	61.0-145	
Methyl methacrylate	ug/L	50.0	63.8	128	63.0-149	
Pentachloroethane	ug/L	50.0	52.5	105	10.0-160	
Propionitrile	ug/L	500	724	145	49.0-160	
Toluene-d8 (S)	%			92.8	80.0-120	
1,2-Dichloroethane-d4 (S)	%			110	70.0-130	
4-Bromofluorobenzene (S)	%			89.6	77.0-126	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 2082781
QC Batch Method: 8260B
Analysis Method: EPA 8260B
Analysis Description: VOA (GC/MS) 8260B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 20279949006, 20279949007, 20279949008, 20279949021, 20279949022, 20279949026, 20279949027, 20279949028

METHOD BLANK: R3940732-4 Matrix: Water
Associated Lab Samples: 20279949006, 20279949007, 20279949008, 20279949021, 20279949022, 20279949026, 20279949027, 20279949028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Isobutanol	ug/L	ND	100	42.1	06/22/23 15:44	
Toluene-d8 (S)	%	106	80.0-120		06/22/23 15:44	
1,2-Dichloroethane-d4 (S)	%	108	70.0-130		06/22/23 15:44	
4-Bromofluorobenzene (S)	%	101	77.0-126		06/22/23 15:44	

LABORATORY CONTROL SAMPLE: R3940732-3

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Isobutanol	ug/L	1000	1520	152	40.0-160	
Toluene-d8 (S)	%			105	80.0-120	
1,2-Dichloroethane-d4 (S)	%			102	70.0-130	
4-Bromofluorobenzene (S)	%			104	77.0-126	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 767634
QC Batch Method: EPA 3510C
Analysis Method: EPA 8082
Analysis Description: EPA 8082A Water
Laboratory: Pace Analytical Gulf Coast
Associated Lab Samples: 20279949007, 20279949012, 20279949013, 20279949014

METHOD BLANK: 2492967 Matrix: Water
Associated Lab Samples: 20279949007, 20279949012, 20279949013, 20279949014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
PCB-1221 (Aroclor 1221)	ug/L	ND	1.00	0.400	06/17/23 15:17	
PCB-1232 (Aroclor 1232)	ug/L	ND	0.500	0.200	06/17/23 15:17	
PCB-1242 (Aroclor 1242)	ug/L	ND	0.500	0.200	06/17/23 15:17	
PCB-1248 (Aroclor 1248)	ug/L	ND	0.500	0.200	06/17/23 15:17	
PCB-1254 (Aroclor 1254)	ug/L	ND	0.500	0.200	06/17/23 15:17	
PCB-1262 (Aroclor 1262)	ug/L	ND	0.500	0.200	06/17/23 15:17	
PCB-1268 (Aroclor 1268)	ug/L	ND	1.00	0.300	06/17/23 15:17	
PCB, Total	ug/L	ND	1.00	0.400	06/17/23 15:17	
PCB-1016 (Aroclor 1016)	ug/L	ND	0.500	0.200	06/17/23 15:17	
PCB-1260 (Aroclor 1260)	ug/L	ND	0.500	0.200	06/17/23 15:17	
Decachlorobiphenyl (S)	%	105	30-139		06/17/23 15:17	
Tetrachloro-m-xylene (S)	%	88	48-137		06/17/23 15:17	

LABORATORY CONTROL SAMPLE & LCSD: 2492968 2492969

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	4	3.46	4.07	87	102	46-129	16	30	
PCB-1260 (Aroclor 1260)	ug/L	4	4.55	4.92	114	123	45-134	8	30	
Decachlorobiphenyl (S)	%				94	98	30-139			
Tetrachloro-m-xylene (S)	%				84	86	48-137			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
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QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 289034
QC Batch Method: SM 4500-S-2 D
Analysis Method: SM 4500-S-2 D
Analysis Description: 4500S2D Sulfide, Total
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20279949009, 20279949010

METHOD BLANK: 1385602 Matrix: Water
Associated Lab Samples: 20279949009, 20279949010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.020	0.012	06/15/23 08:29	

LABORATORY CONTROL SAMPLE: 1385603

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.2	0.21	103	90-110	

MATRIX SPIKE SAMPLE: 1385605

Parameter	Units	20280133001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.084	0.2	0.27	92	75-125	

SAMPLE DUPLICATE: 1385604

Parameter	Units	20280133001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.084	0.083	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 289133
QC Batch Method: SM 4500-S-2 D
Analysis Method: SM 4500-S-2 D
Analysis Description: 4500S2D Sulfide, Total
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20279949011, 20279949012, 20279949013

METHOD BLANK: 1386072 Matrix: Water
Associated Lab Samples: 20279949011, 20279949012, 20279949013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.020	0.012	06/15/23 15:24	

LABORATORY CONTROL SAMPLE: 1386073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.2	0.21	103	90-110	

MATRIX SPIKE SAMPLE: 1386075

Parameter	Units	20280246001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.042	0.2	0.025	-8	75-125	M1

SAMPLE DUPLICATE: 1386074

Parameter	Units	20280246001 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	0.042	0.037	13	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 289269
QC Batch Method: SM 4500-S-2 D
Analysis Method: SM 4500-S-2 D
Analysis Description: 4500S2D Sulfide, Total
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20279949014, 20279949015, 20279949016, 20279949017, 20279949018, 20279949019, 20279949020, 20279949025, 20279949026

METHOD BLANK: 1386898 Matrix: Water
Associated Lab Samples: 20279949014, 20279949015, 20279949016, 20279949017, 20279949018, 20279949019, 20279949020, 20279949025, 20279949026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.020	0.012	06/19/23 09:31	

LABORATORY CONTROL SAMPLE: 1386899

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.2	0.20	98	90-110	

MATRIX SPIKE SAMPLE: 1386901

Parameter	Units	20279949014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	0.2	0.19	95	75-125	

SAMPLE DUPLICATE: 1386900

Parameter	Units	20279949014 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 289407
QC Batch Method: SM 4500-S-2 D
Analysis Method: SM 4500-S-2 D
Analysis Description: 4500S2D Sulfide, Total
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20279949001, 20279949002, 20279949003, 20279949004, 20279949005, 20279949006, 20279949007, 20279949008, 20279949021, 20279949022

METHOD BLANK: 1387309 Matrix: Water
Associated Lab Samples: 20279949001, 20279949002, 20279949003, 20279949004, 20279949005, 20279949006, 20279949007, 20279949008, 20279949021, 20279949022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide, Total	mg/L	ND	0.020	0.012	06/20/23 09:21	

LABORATORY CONTROL SAMPLE: 1387310

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	0.2	0.18	91	90-110	

MATRIX SPIKE SAMPLE: 1387312

Parameter	Units	20279968002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide, Total	mg/L	ND	0.2	0.019J	10	75-125	M1

SAMPLE DUPLICATE: 1387311

Parameter	Units	20279968002 Result	Dup Result	RPD	Max RPD	Qualifiers
Sulfide, Total	mg/L	ND	ND		20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 448176
QC Batch Method: EPA 335.4
Analysis Method: EPA 335.4
Analysis Description: 335.4 Cyanide, Total
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 20279949001, 20279949002, 20279949003, 20279949004, 20279949005, 20279949006, 20279949007, 20279949008, 20279949009, 20279949010, 20279949011, 20279949012, 20279949013, 20279949014, 20279949015, 20279949016, 20279949017, 20279949018, 20279949019

METHOD BLANK: 2574790 Matrix: Water
Associated Lab Samples: 20279949001, 20279949002, 20279949003, 20279949004, 20279949005, 20279949006, 20279949007, 20279949008, 20279949009, 20279949010, 20279949011, 20279949012, 20279949013, 20279949014, 20279949015, 20279949016, 20279949017, 20279949018, 20279949019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.023	0.0069	06/26/23 10:09	

LABORATORY CONTROL SAMPLE: 2574791

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	0.1	0.11	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2574792 2574793

Parameter	Units	20279949009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	ND	0.1	0.1	0.097	0.096	97	96	90-110	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2574794 2574795

Parameter	Units	20279949018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	ND	0.1	0.1	0.099	0.10	96	98	90-110	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 448178
QC Batch Method: EPA 335.4
Analysis Method: EPA 335.4
Analysis Description: 335.4 Cyanide, Total
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 20279949020, 20279949021, 20279949022, 20279949025, 20279949026

METHOD BLANK: 2574800 Matrix: Water
Associated Lab Samples: 20279949020, 20279949021, 20279949022, 20279949025, 20279949026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.023	0.0069	06/26/23 10:32	

LABORATORY CONTROL SAMPLE: 2574801

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	0.1	0.11	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2574802 2574803

Parameter	Units	40263654002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.041	0.6	0.6	0.63	0.60	104	99	90-110	5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2574804 2574805

Parameter	Units	40263893003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cyanide	mg/L	<0.0069	0.1	0.1	0.097	0.098	97	98	90-110	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 290678
QC Batch Method: EPA 420.1
Analysis Method: EPA 420.1
Analysis Description: 420.1 Phenolics
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20279949001, 20279949002, 20279949003, 20279949004, 20279949005, 20279949006, 20279949009, 20279949010, 20279949011, 20279949012, 20279949013, 20279949014, 20279949015, 20279949016, 20279949017, 20279949018, 20279949019, 20279949020, 20279949025, 20279949026

METHOD BLANK: 1393275 Matrix: Water
Associated Lab Samples: 20279949001, 20279949002, 20279949003, 20279949004, 20279949005, 20279949006, 20279949009, 20279949010, 20279949011, 20279949012, 20279949013, 20279949014, 20279949015, 20279949016, 20279949017, 20279949018, 20279949019, 20279949020, 20279949025, 20279949026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phenolics, Total Recoverable	mg/L	0.011J	0.020	0.0093	07/07/23 10:00	B

LABORATORY CONTROL SAMPLE: 1393276

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE SAMPLE: 1393278

Parameter	Units	20279949009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	mg/L	0.010J	0.1	0.090	80	75-125	

SAMPLE DUPLICATE: 1393277

Parameter	Units	20279949009 Result	Dup Result	RPD	Max RPD	Qualifiers
Phenolics, Total Recoverable	mg/L	0.010J	0.010J		20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
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251-344-9106

QUALITY CONTROL DATA

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

QC Batch: 290684
QC Batch Method: EPA 420.1
Analysis Method: EPA 420.1
Analysis Description: 420.1 Phenolics
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20279949007, 20279949008, 20279949021, 20279949022

METHOD BLANK: 1393285 Matrix: Water
Associated Lab Samples: 20279949007, 20279949008, 20279949021, 20279949022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Phenolics, Total Recoverable	mg/L	0.012J	0.020	0.0093	07/06/23 15:40	

LABORATORY CONTROL SAMPLE: 1393286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenolics, Total Recoverable	mg/L	0.1	0.090	90	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALIFIERS

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

WORKORDER QUALIFIERS

WO: 20279949

[1] o Pyridine is reporting with critically low recovery in the laboratory control sample(s). This compound is a method defined poor performer. Results are estimated.

SAMPLE QUALIFIERS

Sample: 20279949003

[1] Pesticides (GC) by Method 8081 - Duplicate Analysis performed due to QC failure. Results confirm; reporting in hold data

Sample: 20279949004

[1] Pesticides (GC) by Method 8081 - Duplicate Analysis performed due to QC failure. Results confirm; reporting in hold data

[1] Semi Volatile Organic Compounds (GC/MS) by Method 8270C - Insufficient sample/extract volume for additional analysis

Sample: 20279949007

[1] Pesticides (GC) by Method 8081 - Duplicate Analysis performed due to surrogate failure. Results confirm; reporting in hold data

Sample: 20279949011

[1] Semi Volatile Organic Compounds (GC/MS) by Method 8270C - Insufficient sample/extract volume for additional analysis

Sample: 20279949014

[1] OP Pesticides by Method 8141 - Duplicate Analysis performed due to IS failure. No reportable in-hold data.

Sample: 20279949018

[1] Semi Volatile Organic Compounds (GC/MS) by Method 8270C - Insufficient sample/extract volume for additional analysis

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SAMPLE QUALIFIERS

Sample: 20279949025

[1] Pesticides (GC) by Method 8081 - Dilution due to matrix impact during extraction procedure. Surrogate failure due to matrix.

Sample: L1626019-01

[1] Semi Volatile Organic Compounds (GC/MS) by Method 8270C - Dilution and surrogate failure due to matrix interference.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
G3	Analyzed from headspace vial.
H1	Analysis conducted outside the recognized method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
J	Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
P9	RPD between the primary and confirmatory analysis exceeded 40%.
R1	RPD value was outside control limits.
SR	Surrogate recovery was below laboratory control limits. Results may be biased low.
ST	Surrogate recovery was above laboratory control limits. Results may be biased high.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20279949007	**9-1**	8011/504.1	2080391	EPA 8011	2080391
20279949012	**16-D**	8011/504.1	2080391	EPA 8011	2080391
20279949013	**16-I**	8011/504.1	2080391	EPA 8011	2080391
20279949014	**19-SR**	8011/504.1	2080391	EPA 8011	2080391
20279949001	**7-D**	3510C	2078827	EPA 8081	2078827
20279949002	**7-IR**	3510C	2078827	EPA 8081	2078827
20279949003	**7-S**	3510C	2078827	EPA 8081	2078827
20279949004	**8-D**	3510C	2078827	EPA 8081	2078827
20279949005	**8-DK**	3510C	2078827	EPA 8081	2078827
20279949006	**8-I**	3510C	2078827	EPA 8081	2078827
20279949007	**9-1**	3510C	2078827	EPA 8081	2078827
20279949008	**8-S**	3510C	2078827	EPA 8081	2078827
20279949009	**15-D**	3510C	2077981	EPA 8081	2077981
20279949010	**15-I**	3510C	2077981	EPA 8081	2077981
20279949011	**15-S**	3510C	2077981	EPA 8081	2077981
20279949012	**16-D**	3510C	2077981	EPA 8081	2077981
20279949013	**16-I**	3510C	2077981	EPA 8081	2077981
20279949014	**19-SR**	3510C	2077981	EPA 8081	2077981
20279949015	**31-DR**	3510C	2077981	EPA 8081	2077981
20279949016	**31-IR**	3510C	2077981	EPA 8081	2077981
20279949017	**32-I**	3510C	2077981	EPA 8081	2077981
20279949018	**32-S**	3510C	2077981	EPA 8081	2077981
20279949019	**Equipment Blank 1**	3510C	2077981	EPA 8081	2077981
20279949020	**Equipment Blank 2**	3510C	2077981	EPA 8081	2077981
20279949021	**Equipment Blank 3**	3510C	2078827	EPA 8081	2078827
20279949022	**Equipment Blank 4**	3510C	2078827	EPA 8081	2078827
20279949025	**Field Dup 1**	3510C	2077982	EPA 8081	2077982
20279949026	**Field Dup 2**	3510C	2078827	EPA 8081	2078827
20279949007	**9-1**	3510C	2078849	EPA 8141	2078849
20279949012	**16-D**	3510C	2077931	EPA 8141	2077931
20279949013	**16-I**	3510C	2077931	EPA 8141	2077931
20279949014	**19-SR**	3510C	2083299	EPA 8141	2083299
20279949007	**9-1**	EPA 3510C	767634	EPA 8082	768160
20279949012	**16-D**	EPA 3510C	767634	EPA 8082	767958
20279949013	**16-I**	EPA 3510C	767634	EPA 8082	767958
20279949014	**19-SR**	EPA 3510C	767634	EPA 8082	767958
20279949001	**7-D**	EPA 3010	289239	EPA 6020A	289335
20279949002	**7-IR**	EPA 3010	289239	EPA 6020A	289335
20279949003	**7-S**	EPA 3010	289239	EPA 6020A	289335
20279949004	**8-D**	EPA 3010	289239	EPA 6020A	289335
20279949005	**8-DK**	EPA 3010	289239	EPA 6020A	289335
20279949006	**8-I**	EPA 3010	289239	EPA 6020A	289335
20279949007	**9-1**	EPA 3010	289239	EPA 6020A	289335
20279949008	**8-S**	EPA 3010	289239	EPA 6020A	289335

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20279949009	**15-D**	EPA 3010	289026	EPA 6020A	289122
20279949010	**15-I**	EPA 3010	289026	EPA 6020A	289122
20279949011	**15-S**	EPA 3010	289026	EPA 6020A	289122
20279949012	**16-D**	EPA 3010	289026	EPA 6020A	289122
20279949013	**16-I**	EPA 3010	289026	EPA 6020A	289122
20279949014	**19-SR**	EPA 3010	289026	EPA 6020A	289122
20279949015	**31-DR**	EPA 3010	289026	EPA 6020A	289122
20279949016	**31-IR**	EPA 3010	289026	EPA 6020A	289122
20279949017	**32-I**	EPA 3010	289026	EPA 6020A	289122
20279949018	**32-S**	EPA 3010	289026	EPA 6020A	289122
20279949019	**Equipment Blank 1**	EPA 3010	289026	EPA 6020A	289122
20279949020	**Equipment Blank 2**	EPA 3010	289026	EPA 6020A	289122
20279949020	**Equipment Blank 2**	EPA 3010	289647	EPA 6020A	289674
20279949021	**Equipment Blank 3**	EPA 3010	289239	EPA 6020A	289335
20279949022	**Equipment Blank 4**	EPA 3010	289239	EPA 6020A	289335
20279949025	**Field Dup 1**	EPA 3010	289026	EPA 6020A	289122
20279949026	**Field Dup 2**	EPA 3010	289239	EPA 6020A	289335
20279949001	**7-D**	EPA 7470A	767631	EPA 7470	768075
20279949002	**7-IR**	EPA 7470A	767631	EPA 7470	768075
20279949003	**7-S**	EPA 7470A	767631	EPA 7470	768075
20279949004	**8-D**	EPA 7470A	767631	EPA 7470	768075
20279949005	**8-DK**	EPA 7470A	767631	EPA 7470	768075
20279949006	**8-I**	EPA 7470A	767631	EPA 7470	768075
20279949007	**9-1**	EPA 7470A	767631	EPA 7470	768075
20279949008	**8-S**	EPA 7470A	767631	EPA 7470	768075
20279949009	**15-D**	EPA 7470A	767631	EPA 7470	768075
20279949010	**15-I**	EPA 7470A	767631	EPA 7470	768075
20279949011	**15-S**	EPA 7470A	767631	EPA 7470	768075
20279949012	**16-D**	EPA 7470A	767631	EPA 7470	768075
20279949013	**16-I**	EPA 7470A	767631	EPA 7470	768075
20279949014	**19-SR**	EPA 7470A	767631	EPA 7470	768075
20279949015	**31-DR**	EPA 7470A	767631	EPA 7470	768075
20279949016	**31-IR**	EPA 7470A	767631	EPA 7470	768075
20279949017	**32-I**	EPA 7470A	767631	EPA 7470	768075
20279949018	**32-S**	EPA 7470A	767631	EPA 7470	768075
20279949019	**Equipment Blank 1**	EPA 7470A	767631	EPA 7470	768075
20279949020	**Equipment Blank 2**	EPA 7470A	767632	EPA 7470	767805
20279949021	**Equipment Blank 3**	EPA 7470A	767632	EPA 7470	767805
20279949022	**Equipment Blank 4**	EPA 7470A	767632	EPA 7470	767805
20279949025	**Field Dup 1**	EPA 7470A	767632	EPA 7470	767805
20279949026	**Field Dup 2**	EPA 7470A	767632	EPA 7470	767805
20279949001	**7-D**	3510C	2081083	EPA 8270C Modified	2081083
20279949002	**7-IR**	3510C	2081083	EPA 8270C Modified	2081083
20279949003	**7-S**	3510C	2081083	EPA 8270C Modified	2081083
20279949004	**8-D**	3510C	2081083	EPA 8270C Modified	2081083

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20279949005	**8-DK**	3510C	2081083	EPA 8270C Modified	2081083
20279949006	**8-I**	3510C	2081171	EPA 8270C Modified	2081171
20279949007	**9-1**	3510C	2081171	EPA 8270C Modified	2081171
20279949008	**8-S**	3510C	2081171	EPA 8270C Modified	2081171
20279949009	**15-D**	3510C	2081083	EPA 8270C Modified	2081083
20279949010	**15-I**	3510C	2081083	EPA 8270C Modified	2081083
20279949011	**15-S**	3510C	2081083	EPA 8270C Modified	2081083
20279949012	**16-D**	3510C	2081083	EPA 8270C Modified	2081083
20279949013	**16-I**	3510C	2081083	EPA 8270C Modified	2081083
20279949014	**19-SR**	3510C	2081083	EPA 8270C Modified	2081083
20279949015	**31-DR**	3510C	2081083	EPA 8270C Modified	2081083
20279949016	**31-IR**	3510C	2081083	EPA 8270C Modified	2081083
20279949017	**32-I**	3510C	2081083	EPA 8270C Modified	2081083
20279949018	**32-S**	3510C	2081083	EPA 8270C Modified	2081083
20279949019	**Equipment Blank 1**	3510C	2081083	EPA 8270C Modified	2081083
20279949020	**Equipment Blank 2**	3510C	2081083	EPA 8270C Modified	2081083
20279949021	**Equipment Blank 3**	3510C	2081171	EPA 8270C Modified	2081171
20279949022	**Equipment Blank 4**	3510C	2081171	EPA 8270C Modified	2081171
20279949025	**Field Dup 1**	3510C	2081083	EPA 8270C Modified	2081083
20279949026	**Field Dup 2**	3510C	2081171	EPA 8270C Modified	2081171
20279949001	**7-D**	3510C	2078839	EPA 8270C	2078839
20279949002	**7-IR**	3510C	2078839	EPA 8270C	2078839
20279949002	**7-IR**	3510C	2084830	EPA 8270C	2084830
20279949003	**7-S**	3510C	2078839	EPA 8270C	2078839
20279949004	**8-D**	3510C	2078839	EPA 8270C	2078839
20279949005	**8-DK**	3510C	2078839	EPA 8270C	2078839
20279949005	**8-DK**	3510C	2084830	EPA 8270C	2084830
20279949006	**8-I**	3510C	2078839	EPA 8270C	2078839
20279949007	**9-1**	3510C	2078839	EPA 8270C	2078839
20279949007	**9-1**	3510C	2084830	EPA 8270C	2084830
20279949008	**8-S**	3510C	2078839	EPA 8270C	2078839
20279949009	**15-D**	3510C	2078015	EPA 8270C	2078015
20279949010	**15-I**	3510C	2078015	EPA 8270C	2078015
20279949011	**15-S**	3510C	2078015	EPA 8270C	2078015
20279949011	**15-S**	3510C	2083029	EPA 8270C	2083029
20279949012	**16-D**	3510C	2078015	EPA 8270C	2078015
20279949013	**16-I**	3510C	2078015	EPA 8270C	2078015
20279949014	**19-SR**	3510C	2078015	EPA 8270C	2078015
20279949015	**31-DR**	3510C	2078015	EPA 8270C	2078015
20279949016	**31-IR**	3510C	2078015	EPA 8270C	2078015
20279949017	**32-I**	3510C	2078015	EPA 8270C	2078015

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20279949018	**32-S**	3510C	2078015	EPA 8270C	2078015
20279949018	**32-S**	3510C	2083029	EPA 8270C	2083029
20279949019	**Equipment Blank 1**	3510C	2078015	EPA 8270C	2078015
20279949020	**Equipment Blank 2**	3510C	2078015	EPA 8270C	2078015
20279949021	**Equipment Blank 3**	3510C	2078839	EPA 8270C	2078839
20279949022	**Equipment Blank 4**	3510C	2078839	EPA 8270C	2078839
20279949025	**Field Dup 1**	3510C	2078015	EPA 8270C	2078015
20279949026	**Field Dup 2**	3510C	2078837	EPA 8270C	2078837
20279949001	**7-D**	8321	2080648	EPA 8321	2080648
20279949002	**7-IR**	8321	2080648	EPA 8321	2080648
20279949003	**7-S**	8321	2080648	EPA 8321	2080648
20279949004	**8-D**	8321	2080648	EPA 8321	2080648
20279949005	**8-DK**	8321	2080648	EPA 8321	2080648
20279949006	**8-I**	8321	2080648	EPA 8321	2080648
20279949007	**9-1**	8321	2080648	EPA 8321	2080648
20279949008	**8-S**	8321	2080648	EPA 8321	2080648
20279949009	**15-D**	8321	2077912	EPA 8321	2077912
20279949010	**15-I**	8321	2077912	EPA 8321	2077912
20279949011	**15-S**	8321	2077912	EPA 8321	2077912
20279949012	**16-D**	8321	2077912	EPA 8321	2077912
20279949013	**16-I**	8321	2077912	EPA 8321	2077912
20279949014	**19-SR**	8321	2077912	EPA 8321	2077912
20279949015	**31-DR**	8321	2077912	EPA 8321	2077912
20279949016	**31-IR**	8321	2077912	EPA 8321	2077912
20279949017	**32-I**	8321	2077912	EPA 8321	2077912
20279949018	**32-S**	8321	2077912	EPA 8321	2077912
20279949019	**Equipment Blank 1**	8321	2077912	EPA 8321	2077912
20279949020	**Equipment Blank 2**	8321	2077912	EPA 8321	2077912
20279949021	**Equipment Blank 3**	8321	2080648	EPA 8321	2080648
20279949022	**Equipment Blank 4**	8321	2080648	EPA 8321	2080648
20279949025	**Field Dup 1**	8321	2077912	EPA 8321	2077912
20279949026	**Field Dup 2**	8321	2081500	EPA 8321	2081500
20279949001	**7-D**	8260B	2080990	EPA 8260B	2080990
20279949001	**7-D**	8260B	2082069	EPA 8260B	2082069
20279949002	**7-IR**	8260B	2080990	EPA 8260B	2080990
20279949002	**7-IR**	8260B	2082069	EPA 8260B	2082069
20279949003	**7-S**	8260B	2080990	EPA 8260B	2080990
20279949003	**7-S**	8260B	2082069	EPA 8260B	2082069
20279949004	**8-D**	8260B	2080990	EPA 8260B	2080990
20279949004	**8-D**	8260B	2082069	EPA 8260B	2082069

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20279949005	**8-DK**	8260B	2080990	EPA 8260B	2080990
20279949005	**8-DK**	8260B	2082069	EPA 8260B	2082069
20279949006	**8-I**	8260B	2082069	EPA 8260B	2082069
20279949006	**8-I**	8260B	2082088	EPA 8260B	2082088
20279949006	**8-I**	8260B	2082781	EPA 8260B	2082781
20279949007	**9-1**	8260B	2082069	EPA 8260B	2082069
20279949007	**9-1**	8260B	2082088	EPA 8260B	2082088
20279949007	**9-1**	8260B	2082781	EPA 8260B	2082781
20279949008	**8-S**	8260B	2082069	EPA 8260B	2082069
20279949008	**8-S**	8260B	2082088	EPA 8260B	2082088
20279949008	**8-S**	8260B	2082781	EPA 8260B	2082781
20279949009	**15-D**	EPA 8260B	2079691		
20279949009	**15-D**	8260B	2080990	EPA 8260B	2080990
20279949010	**15-I**	EPA 8260B	2079691		
20279949010	**15-I**	8260B	2080990	EPA 8260B	2080990
20279949011	**15-S**	EPA 8260B	2079691		
20279949011	**15-S**	8260B	2080990	EPA 8260B	2080990
20279949012	**16-D**	EPA 8260B	2079691		
20279949012	**16-D**	8260B	2080990	EPA 8260B	2080990
20279949013	**16-I**	EPA 8260B	2079691		
20279949013	**16-I**	8260B	2080990	EPA 8260B	2080990
20279949014	**19-SR**	EPA 8260B	2079691		
20279949014	**19-SR**	8260B	2080990	EPA 8260B	2080990
20279949015	**31-DR**	EPA 8260B	2079691		
20279949015	**31-DR**	8260B	2080990	EPA 8260B	2080990
20279949016	**31-IR**	EPA 8260B	2079691		
20279949016	**31-IR**	8260B	2080990	EPA 8260B	2080990
20279949017	**32-I**	8260B	2080990	EPA 8260B	2080990
20279949017	**32-I**	8260B	2082069	EPA 8260B	2082069
20279949018	**32-S**	8260B	2080990	EPA 8260B	2080990
20279949018	**32-S**	8260B	2082069	EPA 8260B	2082069
20279949019	**Equipment Blank 1**	8260B	2080990	EPA 8260B	2080990
20279949019	**Equipment Blank 1**	8260B	2082069	EPA 8260B	2082069

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20279949020	**Equipment Blank 2**	8260B	2080990	EPA 8260B	2080990
20279949020	**Equipment Blank 2**	8260B	2082069	EPA 8260B	2082069
20279949021	**Equipment Blank 3**	8260B	2082069	EPA 8260B	2082069
20279949021	**Equipment Blank 3**	8260B	2082088	EPA 8260B	2082088
20279949021	**Equipment Blank 3**	8260B	2082781	EPA 8260B	2082781
20279949022	**Equipment Blank 4**	8260B	2082069	EPA 8260B	2082069
20279949022	**Equipment Blank 4**	8260B	2082088	EPA 8260B	2082088
20279949022	**Equipment Blank 4**	8260B	2082781	EPA 8260B	2082781
20279949025	**Field Dup 1**	8260B	2080990	EPA 8260B	2080990
20279949025	**Field Dup 1**	8260B	2082069	EPA 8260B	2082069
20279949026	**Field Dup 2**	8260B	2082069	EPA 8260B	2082069
20279949026	**Field Dup 2**	8260B	2082088	EPA 8260B	2082088
20279949026	**Field Dup 2**	8260B	2082781	EPA 8260B	2082781
20279949027	**Trip Blank 1**	8260B	2082069	EPA 8260B	2082069
20279949027	**Trip Blank 1**	8260B	2082088	EPA 8260B	2082088
20279949027	**Trip Blank 1**	8260B	2082781	EPA 8260B	2082781
20279949028	**Trip Blank 2**	8260B	2082069	EPA 8260B	2082069
20279949028	**Trip Blank 2**	8260B	2082088	EPA 8260B	2082088
20279949028	**Trip Blank 2**	8260B	2082781	EPA 8260B	2082781
20279949029	**Trip Blank 3**	8260B	2080990	EPA 8260B	2080990
20279949029	**Trip Blank 3**	8260B	2082069	EPA 8260B	2082069
20279949030	**Trip Blank 4**	8260B	2080990	EPA 8260B	2080990
20279949030	**Trip Blank 4**	8260B	2082069	EPA 8260B	2082069
20279949001	**7-D**	SM 4500-S-2 D	289407		
20279949002	**7-IR**	SM 4500-S-2 D	289407		
20279949003	**7-S**	SM 4500-S-2 D	289407		
20279949004	**8-D**	SM 4500-S-2 D	289407		
20279949005	**8-DK**	SM 4500-S-2 D	289407		
20279949006	**8-I**	SM 4500-S-2 D	289407		
20279949007	**9-1**	SM 4500-S-2 D	289407		
20279949008	**8-S**	SM 4500-S-2 D	289407		
20279949009	**15-D**	SM 4500-S-2 D	289034		
20279949010	**15-I**	SM 4500-S-2 D	289034		
20279949011	**15-S**	SM 4500-S-2 D	289133		
20279949012	**16-D**	SM 4500-S-2 D	289133		
20279949013	**16-I**	SM 4500-S-2 D	289133		
20279949014	**19-SR**	SM 4500-S-2 D	289269		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20279949015	**31-DR**	SM 4500-S-2 D	289269		
20279949016	**31-IR**	SM 4500-S-2 D	289269		
20279949017	**32-I**	SM 4500-S-2 D	289269		
20279949018	**32-S**	SM 4500-S-2 D	289269		
20279949019	**Equipment Blank 1**	SM 4500-S-2 D	289269		
20279949020	**Equipment Blank 2**	SM 4500-S-2 D	289269		
20279949021	**Equipment Blank 3**	SM 4500-S-2 D	289407		
20279949022	**Equipment Blank 4**	SM 4500-S-2 D	289407		
20279949025	**Field Dup 1**	SM 4500-S-2 D	289269		
20279949026	**Field Dup 2**	SM 4500-S-2 D	289269		
20279949001	**7-D**	EPA 335.4	448176	EPA 335.4	448216
20279949002	**7-IR**	EPA 335.4	448176	EPA 335.4	448216
20279949003	**7-S**	EPA 335.4	448176	EPA 335.4	448216
20279949004	**8-D**	EPA 335.4	448176	EPA 335.4	448216
20279949005	**8-DK**	EPA 335.4	448176	EPA 335.4	448216
20279949006	**8-I**	EPA 335.4	448176	EPA 335.4	448216
20279949007	**9-1**	EPA 335.4	448176	EPA 335.4	448216
20279949008	**8-S**	EPA 335.4	448176	EPA 335.4	448216
20279949009	**15-D**	EPA 335.4	448176	EPA 335.4	448216
20279949010	**15-I**	EPA 335.4	448176	EPA 335.4	448216
20279949011	**15-S**	EPA 335.4	448176	EPA 335.4	448216
20279949012	**16-D**	EPA 335.4	448176	EPA 335.4	448216
20279949013	**16-I**	EPA 335.4	448176	EPA 335.4	448216
20279949014	**19-SR**	EPA 335.4	448176	EPA 335.4	448216
20279949015	**31-DR**	EPA 335.4	448176	EPA 335.4	448216
20279949016	**31-IR**	EPA 335.4	448176	EPA 335.4	448216
20279949017	**32-I**	EPA 335.4	448176	EPA 335.4	448216
20279949018	**32-S**	EPA 335.4	448176	EPA 335.4	448216
20279949019	**Equipment Blank 1**	EPA 335.4	448176	EPA 335.4	448216
20279949020	**Equipment Blank 2**	EPA 335.4	448178	EPA 335.4	448219
20279949021	**Equipment Blank 3**	EPA 335.4	448178	EPA 335.4	448219
20279949022	**Equipment Blank 4**	EPA 335.4	448178	EPA 335.4	448219
20279949025	**Field Dup 1**	EPA 335.4	448178	EPA 335.4	448219
20279949026	**Field Dup 2**	EPA 335.4	448178	EPA 335.4	448219
20279949001	**7-D**	EPA 420.1	290678	EPA 420.1	290719
20279949002	**7-IR**	EPA 420.1	290678	EPA 420.1	290719
20279949003	**7-S**	EPA 420.1	290678	EPA 420.1	290719
20279949004	**8-D**	EPA 420.1	290678	EPA 420.1	290719
20279949005	**8-DK**	EPA 420.1	290678	EPA 420.1	290719
20279949006	**8-I**	EPA 420.1	290678	EPA 420.1	290719
20279949007	**9-1**	EPA 420.1	290684	EPA 420.1	290704
20279949008	**8-S**	EPA 420.1	290684	EPA 420.1	290704
20279949009	**15-D**	EPA 420.1	290678	EPA 420.1	290719
20279949010	**15-I**	EPA 420.1	290678	EPA 420.1	290719
20279949011	**15-S**	EPA 420.1	290678	EPA 420.1	290719

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Alabama Wood Treating 06/12/23
Pace Project No.: 20279949

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20279949012	**16-D**	EPA 420.1	290678	EPA 420.1	290719
20279949013	**16-I**	EPA 420.1	290678	EPA 420.1	290719
20279949014	**19-SR**	EPA 420.1	290678	EPA 420.1	290719
20279949015	**31-DR**	EPA 420.1	290678	EPA 420.1	290719
20279949016	**31-IR**	EPA 420.1	290678	EPA 420.1	290719
20279949017	**32-I**	EPA 420.1	290678	EPA 420.1	290719
20279949018	**32-S**	EPA 420.1	290678	EPA 420.1	290719
20279949019	**Equipment Blank 1**	EPA 420.1	290678	EPA 420.1	290719
20279949020	**Equipment Blank 2**	EPA 420.1	290678	EPA 420.1	290719
20279949021	**Equipment Blank 3**	EPA 420.1	290684	EPA 420.1	290704
20279949022	**Equipment Blank 4**	EPA 420.1	290684	EPA 420.1	290704
20279949025	**Field Dup 1**	EPA 420.1	290678	EPA 420.1	290719
20279949026	**Field Dup 2**	EPA 420.1	290678	EPA 420.1	290719

Pace

CHAIN-OF-CUSTODY / Analytical Request Docu

WO# : 20279949

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be c

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.co

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Alabama State Port Authority	Report To: Gretchen Barrera	Attention:
Address: P.O. Box 1588	Copy To:	Company Name:
Mobile, AL 36633		Address:
Email: gretchen.barrera@alports.com	Purchase Order #:	Pace Quote:
Phone: (251)441-7086 Fax	Project Name: Alabama Wood Treating	Pace Project Manager: marykathryn.brenner@pacelabs.com,
Requested Due Date:	Project #:	Pace Profile #: 15447

Regulatory Agency

State / Location: AL

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Phenolics by 420.1 PGC	Metals (NOLA)/ Mercury PG	Aldrin 8081 PN	8260 VOCs Full List PN	8270 SVOC PN	8321 Chlorinated Herb PN	Sulfide NOLA	Cyanide GB	Pesticides 8081 PN	PCBs by 8082 PGC	EPA 8011 PN	Dioxin by 8290 (High res.) M	Residual Chlorine (Y/N)
1	7-D	WT		6-13	749				13	5	1	2	3	1			1		X	X	X	X	X	X	X	X			X	
2	7-IR	WT		6-13	910				13	5	1	2	3	1			1		X	X	X	X	X	X	X	X			X	
3	7-S	WT			920				13	5	1	2	3	1			1		X	X	X	X	X	X	X	X			X	
4	8-D	WT			1235				13	5	1	2	3	1			1		X	X	X	X	X	X	X	X			X	
5	8-DK	WT			1020				13	5	1	2	3	1			1		X	X	X	X	X	X	X	X			X	
6	8-I	WT			1145				13	5	1	2	3	1			1		X	X	X	X	X	X	X	X			X	
7	9-I	WT			1230				20	9	1	2	3	1	3		1		X	X	X	X	X	X	X	X	X	X	X	
8	8-S	WT			1040				13	5	1	2	3	1			1		X	X	X	X	X	X	X	X			X	
9	15-D	WT		6-12	1455				13	5	1	2	3	1			1		X	X	X	X	X	X	X	X			X	
10	15-I	WT		6-12	1630				13	5	1	2	3	1			1		X	X	X	X	X	X	X	X			X	
11	15-S	WT		6-12	1555				13	5	1	2	3	1			1		X	X	X	X	X	X	X	X			X	
12	16-D	WT		6-12	1336				20	9	1	2	3	1	3		1		X	X	X	X	X	X	X	X	X	X	X	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Day 1 of 2		6/13	850		6/13	850	4.8
					6/14	756	received Samples for
							6/12
Day 2 of 2		6-14	0756		6/14	7:56	1.8

Total Man Hours - 40

CHAIN-OF-CUSTODY / Analytical Request Doc

WO#: 20279949

PM: MKB Due Date: 06/27/23

CLIENT: MO-AlaStPort

Pace

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs

Section A	Section B	Section C	
Required Client Information:	Required Project Information:	Invoice Information:	
Company: Alabama State Port Authority	Report To: Gretchen Barrera	Attention:	
Address: P O Box 1588	Copy To:	Company Name	
Mobile, AL 36633		Address:	Regulatory Agency
Email: gretchen.barrera@alports.com	Purchase Order #:	Pace Quote:	
Phone: (251)441-7086 Fax	Project Name: Alabama Wood Treating	Pace Project Manager: marykathryn.brenner@pacelabs.com,	State / Location
Requested Due Date:	Project #:	Pace Profile #: 15447	AL

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Analyses Test: Phenolics by 420.1 PGC	Metals (NOLA)/ Mercury(PG	Aldrin 8081 PN	8260 VOCs Full List PN	8270 SVOC PN	8321 Chlorinated Herb PN	Sulfide NOLA	Cyanide GB	Pesticides 8081 PN	PCBs by 8082 PGC	EPA 8011 PN	Dioxin by 8290 (High res.) M	Residual Chlorine (Y/N)
	Requested Analysis Filtered (Y/N)																															
13	16-I	WT	G	6-12	1135				20	9	1	2	3	1	3		1		X	X	X	X	X	X	X	X	X	X	X	X	X	X
14	19-SR	WT	G	6/12/23	1620				20	9	1	2	3	1	3		1		X	X	X	X	X	X	X	X	X	X	X	X	X	X
15	31-DR	WT	G	6-12	0912				13	5	1	2	3	1			1		X	X	X	X	X	X	X	X						X
16	31-IR	WT	G	6/12/23	1020				13	5	1	2	3	1			1		X	X	X	X	X	X	X	X						X
17	32-I	WT	G	"	KMS				13	5	1	2	3	1			1		X	X	X	X	X	X	X	X						X
18	32-S	WT	G	"	1315				13	5	1	2	3	1			1		X	X	X	X	X	X	X	X						X
19	Equipment Blank 1	WT	G	6/12/23	915				13	5	1	2	3	1			1		X	X	X	X	X	X	X	X						X
20	Equipment Blank 2	WT	G	"	1710				13	5	1	2	3	1			1		X	X	X	X	X	X	X	X						X
21	Equipment Blank 3	WT	G	6/13	655				13	5	1	2	3	1			1		X	X	X	X	X	X	X	X						X
22	Equipment Blank 4	WT	G	"	1400				13	5	1	2	3	1			1		X	X	X	X	X	X	X	X						X
23	[redacted]	WT							13	5	1	2	3	1			1		X	X	X	X	X	X	X	X						X
24	[redacted]	WT							13	5	1	2	3	1			1		X	X	X	X	X	X	X	X						X

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Day 1 of 2	[signature]	6-13	0800	[signature]	6/13	8:00	4.8
Day 2 of 2	[signature]	6-14	0756	[signature]	6/14	07:56	1.8

CHAIN-OF-CUSTODY / Analytical Request Docu

WO#: 20279949

PM: MKB Due Date: 06/27/23

CLIENT: MO-AlaStPort

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.c

Section A	Section B	Section C	
Required Client Information:	**Required Project Information:**	**Invoice Information:**	
Company: Alabama State Port Authority	Report To: Gretchen Barrera	Attention:	
Address: P.O. Box 1588	Copy To:	Company Name:	**Regulatory Agency**
Mobile, AL 36633		Address:	
Email: gretchen.barrera@alports.com	Purchase Order #:	Pace Quote:	
Phone: (251)441-7086 Fax	Project Name: Alabama Wood Treating	Pace Project Manager: marykathryn.brenner@pacelabs.com,	**State / Location**
Requested Due Date:	Project #:	Pace Profile #: 15447	AL

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Analyses Test	Phenolics by 420.1	Metals/ Mercury	Aldrin 8081	8260 VOCs Full List	8270 SVOC PN	8321 Chlorinated Herb PN	Sulfide NOLA	Cyanide GB	Pesticides 8081 PN	PCBs by 8082 PGC	EPA 8011 PN	Dioxin by 8290(High res) MR	Residual Chlorine (Y/N)
	MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS																	Requested Analysis Filtered (Y/N)												
25	Field Dup 1	WT				6/12	9:30		13	5	1	2	3	1			1			X	X	X	X	X	X	X	X			X	
26	Field Dup 2	WT				6/13	8045 MWR		13	5	1	2	3	1			1			X	X	X	X	X	X	X	X			X	
27	Trip Blank 1	WT				~~6/13~~	8045 12		3				3									X								
28	Trip Blank 2	WT				6/13	800		3				3									X								
29	Trip Blank 3	WT				6/12	1:00		3				3									X								
30	Trip Blank 4	WT				6/12	1800		3				3									X								
31	[illegible]	WT							3				3									X								
32	[illegible]	WT							3				3									X								
33																														
34																														
35																														
36																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Day 1 of 2	[signature]	6-13	0800	[signature]	6/13	8:00	4.8
Day 2 of 2	[signature]	6-14	0756		6/14	7:56	1.8

Pace Analytical

Sample Condition Upon Receipt

4320 Midmost Dr Mobile, AL 36609

Project #:

WO# : 20279949

PM: MKB Due Date: 06/27/23

CLIENT: MO-AlaStPort

Courier: ☑ Pace ☐ Client ☐ FedEx ☐ UPS ☐ Other Tracking # _____

Custody Seal on Cooler/Box Present: [see COC] Custody Seals intact: ☐Yes ☐No

Thermometer Used: ☑ Therm Fisher IR 001 ☐ Other:

Type of Ice: Wet Blue None

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Date and Initials of person examining contents: 6/13/23 BJO

Temp must be measured from temperature blank when present

Comments:

Temperature Blank Present:	☐Yes	☐No	☑N/A	1	
Chain of Custody Present:	☑Yes	☐No	☐N/A	2	
Chain of Custody Complete:	☑Yes	☐No	☐N/A	3	
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	4	
Sampler Name on COC:	☑Yes	☐No	☐N/A	5	
Short Hold Time Analyses (<72 hr):	☑Yes	☐No	☐N/A	6	
Rush Turn Around Requested:	☐Yes	☑No	☐N/A	7	
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	8	
Sufficient Volume:	☑Yes	☐No	☐N/A	9	
Correct Containers Used:	☑Yes	☐No	☐N/A	10	
Filtered vol. Rec. for Diss. tests	☐Yes	☐No	☑N/A	11	
Sample Labels match COC:	☑Yes	☐No	☐N/A	12	
All containers received within manufacturer's precautionary and/or expiration dates:	☑Yes	☐No	☐N/A	13	
All containers needing chemical preservation have been checked (except VOA, micro, & O&G):	☑Yes	☐No	☐N/A	14	
All containers preservation checked found to be in compliance with EPA recommendation:	☑Yes	☐No	☐N/A	15	If No, was preserative added? ☐Yes ☐No If added record lot no.: HNO3 _____ H2SO4 _____
Headspace in VOA Vials (>6mm):	☑Yes	☐No	☐N/A	16	
Trip Blank Present:	☑Yes	☐No		17	

Client Notification/Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: Day 1 of 2

Pace Analytical

Sample Condition Upon Receipt

4320 Midmost Dr. Mobile, AL 36609

Project #:

WO# : 20279949

PM: MKB Due Date: 06/27/23

CLIENT: MO-AlaStPort

Courier: ☑ Pace ☐ Client ☐ FedEx ☐ UPS ☐ Other Tracking # _____

Custody Seal on Cooler/Box Present: [see COC] Custody Seals intact: ☐Yes ☐No

Thermometer Used: ☑ Therm Fisher IR 001 ☐ Other:

Type of Ice: Wet Blue None Samples on ice: [see COC]

Cooler Temperature: [see COC]

Date and Initials of person examining contents: 6/14/23 AZH

Temp must be measured from temperature blank when present

					Comments:
Temperature Blank Present:	☐Yes	☐No	☑N/A	1	
Chain of Custody Present:	☑Yes	☐No	☐N/A	2	
Chain of Custody Complete:	☑Yes	☐No	☐N/A	3	
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	4	
Sampler Name on COC:	☑Yes	☐No	☐N/A	5	
Short Hold Time Analyses (<72 hr):	☑Yes	☐No	☐N/A	6	
Rush Turn Around Requested:	☐Yes	☑No	☐N/A	7	
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	8	
Sufficient Volume:	☑Yes	☐No	☐N/A	9	
Correct Containers Used:	☑Yes	☐No	☐N/A	10	
Filtered vol. Rec. for Diss. tests	☐Yes	☐No	☑N/A	11	
Sample Labels match COC:	☑Yes	☐No	☐N/A	12	
All containers received within manufacturer's precautionary and/or expiration dates:	☑Yes	☐No	☐N/A	13	
All containers needing chemical preservation have been checked (except VOA, micro, & O&G):	☑Yes	☐No	☐N/A	14	
All containers preservation checked found to be in compliance with EPA recommendation:	☑Yes	☐No	☐N/A	15	If No, was preserative added? ☐Yes ☐No If added record lot no.: HNO3 _____ H2SO4 _____
Headspace in VOA Vials (>6mm):	☑Yes	☐No	☐N/A	16	
Trip Blank Present:	☐Yes	☐No		17	

Client Notification/Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Day 2 of 2

WO# : 20279949
PM: MKB Due Date: 06/27/23
CLIENT: MO-AlaStPort

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

DATE: 6-13-23 TIME: 0845 WELL NUMBER: 7-IR

WELL DATA

Casing Diameter: ____ (in.) Depth to Water: 7.51 (ft.) Depth to Bottom: 62.00 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: ____ feet

Conversion Factor (gal./ft.): x ____ (gallons/foot)

Total Volume of Casing: ____ gallons

# of Volumes to be Evacuated: x ____ (3 to 5)

Total Volume to be Evacuated: = ____ to ____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump
Pump *Bailer*

Type: Peristaltic Volume of Bailer: ____ (gal)

Rate: ____ Number of Bailers Required: ____ Removed: ____

Other Pump Volume (2.034 gal) + [Tubing Capacity (0.026 gal/ft) x Tubing Length (30 ft)] + Flow Cell Volume (0.132) = 2.244

Purge Time: Start: 0850 End: 0910 Volume Purged: ____ (gal)

FIELD ANALYSES

	Start		Intermediate	Intermediate	End
Volume purged (gal)	0.244	0.244	0.244		
Time (24-hour)	0850	~~0855~~ 0900	0910		
pH (S.U.)	7.08	7.11	7.09		
Cond. (umhos/cm)	0.036	0.038	0.039		
Temperature (°C)	26.0	25.9	26.1		
Turbidity (NTU)	1.05	1.10	1.07		
Appearance	clear	clear	clear		

SAMPLING INFORMATION

Sample Device: ____ Sample Date: ____

Device Composition: ____ Sample Time: ____

Sample Collected by: ____ of: ____

Sample Number(s): ____ Analytical Lab: ____

Sample Fractions: ____

SIGNATURES

Sampler: [signature] Reviewer: ____

Date: 6-13-23 Date: ____

WO#: 20279949
PM: MKB Due Date: 06/27/23
CLIENT: MO-AlaStPort

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

DATE: 6-13-23 TIME: 0940 WELL NUMBER: [illegible]

WELL DATA

Casing Diameter: ____ (in.)
Depth to Water: 12.0 (ft.)
Depth to Bottom: 128.0 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: ____ feet
Conversion Factor (gal./ft.): x ____ (gallons/foot)
Total Volume of Casing: ____ gallons
# of Volumes to be Evacuated: x ____ (3 to 5)
Total Volume to be Evacuated: = ____ to ____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Bladder
Pump *Bailer*

Type: Bladder
Rate: ____
Volume of Bailer: ____ (gal)
Number of Bailers Required: ____ Removed: ____

Other Pump Volume (0.034 gal) + [Tubing Capacity (0.026 gal/ft) x Tubing Length (40 ft)] + Flow Cell Volume (0.132) = 0.4

Purge Time: Start: 1000 End: 1020 Volume Purged: ____ (gal)

FIELD ANALYSES

	Start		Intermediate		Intermediate	End
Volume purged (gal)	0.4	0.4	0.4	0.4		
Time (24-hour)	1000	1005	1010	1015		
pH (S.U.)	7.39	7.61	7.60	7.62		
Cond. (umhos/cm)	5.80	5.79	5.77	5.77		
Temperature (°C)	27.1	26.9	~~26.7~~ 26.8	26.7		
Turbidity (NTU)	3.53	1.27	1.08	1.10		
Appearance	clear	clear	clear	clear		

SAMPLING INFORMATION

Sample Device: ____ Sample Date: ____
Device Composition: ____ Sample Time: ____
Sample Collected by: ____ of: ____
Sample Number(s): ____ Analytical Lab: ____
Sample Fractions: ____

SIGNATURES

Sampler: [signature] Reviewer: ____
Date: 6-13-23 Date: ____

WO# : 20279949
PM: MKB Due Date: 06/27/23
CLIENT: MO-AlaStPort

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

W

DATE: 6-13-23 TIME: 0717 WELL NUMBER: [illegible]

WELL DATA

Casing Diameter: ____ (in.)

Depth to Water: 12.31 (ft.) (measure to 0.01 ft. precision)

Depth to Bottom: 96.1 (ft.)

VOLUME TO BE REMOVED

Column of Water in Well: ____ feet

Conversion Factor (gal /ft.): x ____ (gallons/foot)

Total Volume of Casing: ____ gallons

# of Volumes to be Evacuated: x ____ (3 to 5)

Total Volume to be Evacuated: = ____ to ____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump

Pump

Type: 2nd Bladder

Rate: ____

Bailer

Volume of Bailer: ____ (gal)

Number of Bailers Required: ____ Removed: ____

Other Pump Volume (0.034 gal) + [Tubing Capacity (0.026 gal/ft) x Tubing Length (70 ft)] + Flow Cell Volume (0.132) = 0.348

Purge Time: Start: 0739 End: 0749 Volume Purged: ____ (gal)

FIELD ANALYSES

	Start		Intermediate	Intermediate	End
Volume purged (gal)	0348	0.348	0.348		
Time (24-hour)	0739	0744	~~0744~~ 2nd 0749		
pH (S.U.)	6.37	6.35	6.36		
Cond. (umhos/cm)	0.899	0893	0.896		
Temperature (°C)	24.7	24.8	24.6		
Turbidity (NTU)	2.15	2.10	2.11		
Appearance	clear	clear	clear		

SAMPLING INFORMATION

Sample Device: ____ Sample Date: ____

Device Composition: ____ Sample Time: ____

Sample Collected by: ____ of: ____

Sample Number(s): ____ Analytical Lab: ____

Sample Fractions: ____

SIGNATURES

Sampler: [signature] Reviewer: ____

Date: 6-13-23 Date: ____

WO#: 20279949
PM: MKB Due Date: 06/27/23
CLIENT: MO-AlaStPort

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

DATE: 6-13-23 TIME: 1220 WELL NUMBER: 8-U

WELL DATA

Casing Diameter: ____ (in.)
Depth to Water: 11.10 (ft.)
Depth to Bottom: 96.0 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: ____ feet
Conversion Factor (gal./ft.): x ____ (gallons/foot)
Total Volume of Casing: ____ gallons
# of Volumes to be Evacuated: x ____ (3 to 5)
Total Volume to be Evacuated: = ____ to ____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Bladder
Pump *Bailer*

Type: Bladder
Volume of Bailer: ____ (gal)
Number of Bailers Required: ____ Removed: ____
Rate: ____

Other Pump Volume (0.034 gal) + [Tubing Capacity (0.026 gal/ft) x Tubing Length (7 ft)] + Flow Cell Volume (0.132) = 0636

Purge Time: Start: 1225 End: 1235 Volume Purged: ____ (gal)

FIELD ANALYSES

	Start		Intermediate	Intermediate	End
Volume purged (gal)	0.636	0636	0636		
Time (24-hour)	1225	1230	1235		
pH (S.U.)	7.02	7.00	7.03		
Cond. (umhos/cm)	3.99	4.01	4.02		
Temperature (°C)	30.8	30.5	30.4		
Turbidity (NTU)	5.05	5.10	5.9		
Appearance	clear	clear	clear		

SAMPLING INFORMATION

Sample Device: ____ Sample Date: ____
Device Composition: ____ Sample Time: ____
Sample Collected by: ____ of: ____
Sample Number(s): ____ Analytical Lab: ____
Sample Fractions: ____

SIGNATURES

Sampler: [signature] Reviewer: ____
Date: 6-13-23 Date: ____

WO#: 20279949
PM: MKB Due Date: 06/27/23
CLIENT: MO-AlaStPort

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

DATE: 6-13-23 TIME: 1130 WELL NUMBER: 8-1

WELL DATA

Casing Diameter: ____ (in.) Depth to Water: ____ (ft.) Depth to Bottom: 70.00 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: ____ feet

Conversion Factor (gal./ft.): x ____ (gallons/foot)

Total Volume of Casing: ____ gallons

# of Volumes to be Evacuated: x ____ (3 to 5)

Total Volume to be Evacuated: = ____ to ____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Bladder

Pump **Bailer**

Type: Bladder Volume of Bailer: ____ (gal)

Number of Bailers
Rate: ____ Required: ____ Removed: ____

Other Pump Volume (0.034 gal) + [Tubing Capacity (0.026 gal/ft) x Tubing Length (50ft)] + Flow Cell Volume (0.132) = 0.692

Purge Time: Start: 1135 End: ____ Volume Purged: ____ (gal)

FIELD ANALYSES

	Start	Start (2nd)	Intermediate	Intermediate	Intermediate	End
Volume purged (gal)	0692	0692	0692	0.692		
Time (24-hour)	1135	1140	1140	1145		
pH (S.U.)	7.19		7.17	7.14		
Cond. (umhos/cm)	0.515		0510	0.512		
Temperature (°C)	27.6		27.4	27.4		
Turbidity (NTU)	9.01		8.78	9.02		
Appearance	clear		clear	clear		

SAMPLING INFORMATION

Sample Device: ____ Sample Date: ____

Device Composition: ____ Sample Time: ____

Sample Collected by: ____ of: ____

Sample Number(s): ____ Analytical Lab: ____

Sample Fractions: ____

SIGNATURES

Sampler: [signature] Reviewer: ____

Date: 6-13-23 Date: ____

WO#: 20279949
PM: MKB Due Date: 06/27/23
CLIENT: MO-AlaStPort

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

DATE: 6-13-23 TIME: 745 WELL NUMBER: [illegible]

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 11.41 (ft.) Depth to Bottom: 15.00 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal /ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump

Pump

Type: Peristaltic

Rate: _____

Bailer

Volume of Bailer: _____ (gal)
Number of Bailers Required: _____ Removed: _____

Other Pump Volume (0.034 gal) + [Tubing Capacity (0.026 gal/ft) x Tubing Length (15 ft)] + Flow Cell Volume (0.132) = 0.1998

Purge Time: Start: 745 End: 815 Volume Purged: 2 (gal)

FIELD ANALYSES

	Start	Intermediate	Intermediate	End
Volume purged (gal)	0.00	0.50 0.50	0.50	
Time (24-hour)	745	755 805	815	
pH (S.U.)	6.75	6.74 6.73	6.74	
Cond. (umhos/cm)	0.897	0.953 0.967	0.990	
Temperature (°C)	24.9	24.9 24.8	24.8	
Turbidity (NTU)	9.17	2.19 2.32	2.12	
Appearance	clear	clear clear	clear	
	Not Tested 11.40	11.41 11.48	11.51	

SAMPLING INFORMATION

Sample Device: _____ Sample Date: 6/13/23

Device Composition: _____ Sample Time: 820

Sample Collected by: Ben Austin of: _____

Sample Number(s): _____ Analytical Lab: _____

Sample Fractions: _____

SIGNATURES

Sampler: [signature] Reviewer: _____

Date: 6-13-23 Date: _____

WO#: 20279949
PM: MKB Due Date: 06/27/23
CLIENT: MO-AlaStPort

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

DATE: 6/12/23 TIME: 1155 WELL NUMBER: 9-1

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 10.96 (ft.) Depth to Bottom: 15.5 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump

Pump ***Bailer***

Type: Peristaltic Volume of Bailer: _____ (gal)

Number of Bailers

Rate: 0.1gpm Required: _____ Removed: _____

Other Pump Volume (0.034gal) + [Tubing Capacity (0.0026gal/ft) x Tubing length (13 ft)] + Flow Cell Volume (0.13) = 0.1

Purge Time: Start: 1150 End: 1225 Volume Purged: 2 (gal)

FIELD ANALYSES

	Start		*Intermediate*		*Intermediate*		*End*	
Volume purged (gal)	0.50	0.50	0.50	0.50				
Time (24-hour)	1155	1205	1215	1225				
pH (S.U.)	7.57	7.54	7.53	7.53				
Cond. (umhos/cm)	0.2200	0.2123	0.2106	0.2087				
Temperature (°C)	33.3	33.0	33.0	32.6				
Turbidity (NTU)	3.70	6.49	6.89	12.05				
Appearance	slightly yellow	slightly yellow	slightly yellow	slightly yellow				
	10.95	10.95	10.93	10.92				

SAMPLING INFORMATION

Sample Device: _____ Sample Date: 6/13/23

Device Composition: _____ Sample Time: 1230

Sample Collected by: Brad Hester of: _____

Sample Number(s): _____ Analytical Lab: _____

Sample Fractions: _____

SIGNATURES

Sampler: _____ Reviewer: _____

Date: 6/13/23 Date: _____

WO#: 20279949
PM: MKB Due Date: 06/27/23
CLIENT: MO-AlaStPort

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

DATE: 6-13-23 TIME: 1008 WELL NUMBER: 8-S

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 11.22 (ft.) Depth to Bottom: 20.50 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet
Conversion Factor (gal./ft.): x _____ (gallons/foot)
Total Volume of Casing: _____ gallons
# of Volumes to be Evacuated: x _____ (3 to 5)
Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.) Pump / Bailer

Type: Peristaltic Volume of Bailer: _____ (gal)
Number of Bailers
Rate: _____ Required: _____ Removed: _____

Other Pump Vol. (0.054 gal) + [Tubing cap. (0.0026 gal/ft) x Tubing Length (8ft)] + flow cell vol. (132) = 0.133

Purge Time: Start: 1008 End: _____ Volume Purged: _____ (gal)

FIELD ANALYSES

	Start		Intermediate		Intermediate		End	
Volume purged (gal)	~~0.5~~	0.5	0.5	0.5				
Time (24-hour)	1008	1018	1028	1038				
pH (S.U.)	6.98	6.91	6.92	6.94				
Cond. (umhos/cm)	0.911	0.909	0.898	0.854				
Temperature (°C)	29.1	29.2	29.6	30.1				
Turbidity (NTU)	7.92	4.46	3.95	5.59				
Appearance	clear	clear	clear	clear				
Depth to water	11.20	11.14	11.19	11.17				

SAMPLING INFORMATION

Sample Device: _____ Sample Date: 6/13/23
Device Composition: _____ Sample Time: 1040
Sample Collected by: Ben Hastie of: _____
Sample Number(s): _____ Analytical Lab: _____
Sample Fractions: _____

SIGNATURES

Sampler: _____ Reviewer: _____
Date: 6-13-23 Date: _____

WO#: 20279949
PM: MKB Due Date: 06/27/23
CLIENT: MO-AlaStPort

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

W

DATE: 6/12/23 TIME: 1440 WELL NUMBER: [illegible]

WELL DATA

Casing Diameter: ____ (in.)

Depth to Water: 7.21 (ft.) (measure to 0.01 ft. precision)

Depth to Bottom: 91.0 (ft.)

VOLUME TO BE REMOVED

Column of Water in Well: ____ feet

Conversion Factor (gal./ft.): x ____ (gallons/foot)

Total Volume of Casing: ____ gallons

# of Volumes to be Evacuated: x ____ (3 to 5)

Total Volume to be Evacuated: = ____ to ____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump

Pump *Bailer*

Type: Bladder

Volume of Bailer: ____ (gal)

Number of Bailers Required: ____ Removed: ____

Rate: 0.1 gpm

Other Pump Volume (0.034 gal) + [Tubing Capacity (0.026 gal/ft) x Tubing Length (60ft)] + Flow Cell Volume (0.132) = 0.322

Purge Time: Start: 1445 End: 1455 Volume Purged: ____ (gal)

FIELD ANALYSES

	Start		Intermediate	Intermediate	End
Volume purged (gal)	0.322	0.322	0.322		
Time (24-hour)	1445	1450	1455		
pH (S.U.)	6.69	6.65	6.67		
Cond. (umhos/cm)	0.899	0.893	0.895		
Temperature (°C)	36.8	36.8	36.7		
Turbidity (NTU)	40.4	40.2	39.9		
Appearance	Light tea color	clear	clear		

SAMPLING INFORMATION

Sample Device: ____ Sample Date: ____

Device Composition: ____ Sample Time: ____

Sample Collected by: ____ of: ____

Sample Number(s): ____ Analytical Lab: ____

Sample Fractions: ____

SIGNATURES

Sampler: [signature] Reviewer: ____

Date: 6-12-23 Date: ____

WO#: 20279949
PM: MKB Due Date: 06/27/23
CLIENT: MO-AlaStPort

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

DATE: 6/12/23 TIME: 1325 WE: [illegible]

WELL DATA

Casing Diameter: _____ (in.) Depth to Water: 10.40 (ft.) Depth to Bottom: 106.0 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump

Pump *Bailer*

Type: Bladder Volume of Bailer: _____ (gal)

Number of Bailers
Rate: 0.1gpm Required: _____ Removed: _____

Other Pump Volume (2.034 gal) + [Tubing Capacity (0.026 gal/ft) x Tubing Length (70ft)] + Flow Cell Volume (0.132) = 0.348

Purge Time: Start: 1326 End: 1336 Volume Purged: _____ (gal)

FIELD ANALYSES

	Start		Intermediate	Intermediate	End
Volume purged (gal)	0.35	0.35	0.35		
Time (24-hour)	1326	1331	1336		
pH (S.U.)	7.48	7.49	7.47		
Cond. (umhos/cm)	0.332	0.331	0.334		
Temperature (°C)	33.0	33.0	33.1		
Turbidity (NTU)	10.4	10.2	10.3		
Appearance	clear	clear	clear		

SAMPLING INFORMATION

Sample Device: _____ Sample Date: _____

Device Composition: _____ Sample Time: _____

Sample Collected by: _____ of: _____

Sample Number(s): _____ Analytical Lab: _____

Sample Fractions: _____

SIGNATURES

Sampler: [signature] Reviewer: _____

Date: 6-12-23 Date: _____

WO#: 20279949

PM: MKB **Due Date: 06/27/23**

CLIENT: MO-AlaStPort

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

DATE: 6/12/23 TIME: 1110 WELL NUMBER: 16-1

WELL DATA

Casing Diameter: _____ (in.) Depth to Water: 10.15 (ft.) Depth to Bottom: 50.0 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump

Pump *Bailer*

Type: Peristaltic Volume of Bailer: _____ (gal)

Number of Bailers Required: _____ Removed: _____

Rate: 0.1 gpm

Other Pump Volume (0.034 gal) + [Tubing Capacity (0.026 gal/ft) x Tubing Length (40 ft)] + Flow Cell Volume (0.132) = ~~2.5~~ 0.28 L

Purge Time: Start: 1120 End: 1135 Volume Purged: _____ (gal)

FIELD ANALYSES

	Start		Intermediate		Intermediate	End
Volume purged (gal)	0.26	0.26	0.26	0.26		
Time (24-hour)	1120	1125	1130	1135		
pH (S.U.)	7.41	~~7.3~~ 6.95	6.90	6.92		
Cond. (umhos/cm)	0.248	0.255	0.255	0.253		
Temperature (°C)	31.6	30.5	31.0	31.0		
Turbidity (NTU)	11.7	4.73	4.75	4.72		
Appearance	clear	clear	clear	clear		

SAMPLING INFORMATION

Sample Device: _____ Sample Date: _____

Device Composition: _____ Sample Time: _____

Sample Collected by: _____ of: _____

Sample Number(s): _____ Analytical Lab: _____

Sample Fractions: _____

SIGNATURES

Sampler: [signature] Reviewer: _____

Date: 6-12-23 Date: _____

WO#: 20279949
PM: MKB Due Date: 06/27/23
CLIENT: MO-AlaStPort

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

DATE: 6/12/23 TIME: 0831 WELL NUMBER: 31-DR

WELL DATA

Casing Diameter: _____ (in.) Depth to Water: 9.51 (ft.) Depth to Bottom: 108.9 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal /ft): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump

Pump *Bailer*

Type: Bladder Volume of Bailer: _____ (gal)

Rate: 0.4gpm Number of Bailers Required: _____ Removed: _____

Other Pump Volume (2.044 gal) + [Tubing Capacity (0.026 gal/ft) x Tubing Length (90 ft)] + Flow Cell Volume (0.132) = ~~0.4~~ 3.0

Purge Time: Start: 0831 End: 0912 Volume Purged: _____ (gal)

FIELD ANALYSES

	Start		Intermediate		Intermediate		End
Volume purged (gal)	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Time (24-hour)	0842	0847	0854	0854	0904	0909	~~0919~~ 0912
pH (S.U.)	6.63	6.60	6.59	6.60	6.60	6.61	6.60
Cond. (umhos/cm)	2.148	2.115	2.144	2.145	2.144	2.143	2.144
Temperature (°C)	23.9	24.8	25.4	24.3	24.9	24.7	24.7
Turbidity (NTU)	14.3	8.94	9.40	6.10	5.32	5.33	5.34
Appearance	clear	clear	clear	clear	clear	clear	clear

SAMPLING INFORMATION

Sample Device: _____ Sample Date: _____

Device Composition: _____ Sample Time: _____

Sample Collected by: _____ of: _____

Sample Number(s): _____ Analytical Lab: _____

Sample Fractions: _____

SIGNATURES

Sampler: [signature] Reviewer: _____

Date: 6-12-23 Date: _____

WO#: 20279949
PM: MKB Due Date: 06/27/23
CLIENT: MO-AlaStPort

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WI

DATE: 6/12/23 TIME: ~~1415~~ 1615 WELL NUMBER: 15-1

WELL DATA

Casing Diameter: ____ (in.)

Depth to Water: 10.4 (ft.)

Depth to Bottom: 48.5 (ft.)

(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: ____ feet

Conversion Factor (gal./ft.): x ____ (gallons/foot)

Total Volume of Casing: ____ gallons

# of Volumes to be Evacuated: x ____ (3 to 5)

Total Volume to be Evacuated: = ____ to ____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump

Pump ***Bailer***

BH 6/12/23

Type: ~~Bladder~~ Peristaltic

Volume of Bailer: ____ (gal)

Number of Bailers Required: ____ Removed: ____

Rate: 0.1gpm

Other Pump Volume (0.034 gal) + [Tubing Capacity (0.026 gal/ft) x Tubing Length (30 ft)] + Flow Cell Volume (0.132) = 0.244

Purge Time: Start: 1620 End: 1630 Volume Purged: ____ (gal)

FIELD ANALYSES

	Start		*Intermediate*	*Intermediate*	*End*
Volume purged (gal)	0.244	0.244	0.244		
Time (24-hour)	1620	1625	1630		
pH (S.U.)	7.76	7.75	7.74		
Cond. (umhos/cm)	0264	0.265	0267		
Temperature (°C)	32.1	32.0	32.1		
Turbidity (NTU)	9.08	9.10	9.09		
Appearance	clear	clear	clear		

SAMPLING INFORMATION

Sample Device: ____ Sample Date: ____

Device Composition: ____ Sample Time: ____

Sample Collected by: ____ of: ____

Sample Number(s): ____ Analytical Lab: ____

Sample Fractions: ____

SIGNATURES

Sampler: [signature] Reviewer: ____

Date: 6-12-23 Date: ____

WO#: 20279949
PM: MKB Due Date: 06/27/23
CLIENT: MO-AlaStPort

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WE

DATE: 6/12/23 TIME: 1536 WELL NUMBER: 15-S

WELL DATA

Casing Diameter: ____ (in.)

Depth to Water: 10.35 (ft.)

Depth to Bottom: 15.0 (ft.)

(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: ____ feet

Conversion Factor (gal./ft.): x ____ (gallons/foot)

Total Volume of Casing: ____ gallons

# of Volumes to be Evacuated: x ____ (3 to 5)

Total Volume to be Evacuated: = ____ to ____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump

Pump *Bailer*

Type: Peristaltic

Volume of Bailer: ____ (gal)

Number of Bailers Required: ____ Removed: ____

Rate: 0.1 gpm

Other Pump Volume (0.034 gal) + [Tubing Capacity (0.026 gal/ft) x Tubing Length (13 ft)] + Flow Cell Volume (0.132) = 0.19

Purge Time: Start: 1537 End: 1555 Volume Purged: ____ (gal)

FIELD ANALYSES

	Start		Intermediate	Intermediate	End
Volume purged (gal)	0.199	0.199	0.199		
Time (24-hour)	1545	1550	1555		
pH (S.U.)	6.56	6.55	6.55		
Cond. (umhos/cm)	1.556	1.557	1.555		
Temperature (°C)	33.4	33.4	33.2		
Turbidity (NTU)	6.8	6.9	6.9		
Appearance	light tan color	clear	clear		

SAMPLING INFORMATION

Sample Device: ____ Sample Date: ____

Device Composition: ____ Sample Time: ____

Sample Collected by: ____ of: ____

Sample Number(s): ____ Analytical Lab: ____

Sample Fractions: ____

SIGNATURES

Sampler: [signature] Reviewer: ____

Date: 6-12-23 Date: ____

WO#: 20279949
PM: MKB Due Date: 06/27/23
CLIENT: MO-AlaStPort

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WE

DATE: 6/12/23 TIME: 1130 WELL NUMBER: [illegible]

WELL DATA

Casing Diameter: ____ (in.) Depth to Water: 6.57 (ft.) Depth to Bottom: 20.00 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: ____ feet

Conversion Factor (gal./ft.): x ____ (gallons/foot)

Total Volume of Casing: ____ gallons

# of Volumes to be Evacuated: x ____ (3 to 5)

Total Volume to be Evacuated: = ____ to ____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): ____

Pump ***Bailer***

Type: Peristaltic Volume of Bailer: ____ (gal)

Number of Bailers

Rate: ____ Required: ____ Removed: ____

Other Pump Volume (2.04 gal) + [Tubing Capacity (0.026 gal/ft) x Tubing Length (6 ft)] + Flow Cell Volume (0.132) = ~0.1868

Purge Time: Start: 1150 End: 1310 Volume Purged: 2 (gal)

FIELD ANALYSES

	Start		*Intermediate*		*Intermediate*	*End*
Volume purged (gal)	0.50	0.50	0.50	0.25	0.25	
Time (24-hour)	1150	1200	1210	1340	1310	
pH (S.U.)	7.11	6.97	6.87	6.84	6.86	
Cond. (umhos/cm)	0.3644	0.3249	0.3300	0.3319	0.3325	
Temperature (°C)	28.1	28.3	29.2	30.7	31.3	
Turbidity (NTU)	2.22	10.92	11.00	9.21	6.85	
Appearance	clear	clear	clear	clear	clear	
Depth to water	6.56	6.59	6.56	6.55	6.56	

purple tubing

SAMPLING INFORMATION

Sample Device: ____ Sample Date: 6/12/23

Device Composition: ____ Sample Time: ____

Sample Collected by: Ben Hastie of: ____

Sample Number(s): ____ Analytical Lab: ____

Sample Fractions: ____

SIGNATURES

Sampler: [signature] Reviewer: ____

Date: 6/12/23 Date: ____

WO#: 20279949
PM: MKB Due Date: 06/27/23
CLIENT: MO-AlaStPort

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

DATE: 6-12-23 TIME: 925 WELL NUMBER: 21-2R

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 10.17 (ft) Depth to Bottom: 53.6 (ft)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet
Conversion Factor (gal./ft.): x _____ (gallons/foot)
Total Volume of Casing: _____ gallons
# of Volumes to be Evacuated: x _____ (3 to 5)
Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump

Pump
Type: ~~Peristaltic~~ Bladder
BK 6/13/23
Rate: _____

Bailer
Volume of Bailer: _____ (gal)
Number of Bailers Required: _____ Removed: _____

Other Pump Volume (2.034 gal) + [Tubing Capacity (0.026 gal/ft) x Tubing Length (254 ft)] + Flow Cell Volume (0.132) = 0.231

Purge Time: Start: _____ End: _____ Volume Purged: _____ (gal)

FIELD ANALYSES

	Start		Intermediate		Intermediate	End
Volume purged (gal)	0.25	0.25	0.25	0.25	0.25	
Time (24-hour)	925	932	940	948	955	
pH (S.U.)	6.11	6.10	6.08	6.07	6.07	
Cond. (umhos/cm)	0.2321	0.2308	0.2280	0.2255	0.2244	
Temperature (°C)	32.9	32.8	32.2	31.8	31.4	
Turbidity (NTU)	7.21	7.59	11.09	8.89	10.54	
Appearance	clear	clear	clear	clear	clear	
Depth to Water	10.17	10.17	10.16	10.17	10.17	

SAMPLING INFORMATION

Sample Device: _____ Sample Date: 6/12/23
Device Composition: _____ Sample Time: 1000
Sample Collected by: Ben Hastie of: _____
Sample Number(s): _____ Analytical Lab: _____
Sample Fractions: _____

SIGNATURES

Sampler: _____ Reviewer: _____
Date: 6-12-23 Date: _____

WO#: 20279949
PM: MKB Due Date: 06/27/23
CLIENT: MO-AlaStPort

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WI

DATE: 6-12-23 TIME: 1405 WELL NUMBER: 32-I

WELL DATA

Casing Diameter: 2 (in.) Depth to Water: 7.91 (ft.) Depth to Bottom: 48.00 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal./ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump

Pump *Bailer*

Type: Peristaltic Volume of Bailer: _____ (gal)

Rate: _____ Number of Bailers Required: _____ Removed: _____

Other Pump Volume (2.034 gal) + [Tubing Capacity (0.163 gal/ft) x Tubing Length (25 ft)] + Flow Cell Volume (0.132) = 0.231

Purge Time: Start: 1405 End: 1455 Volume Purged: 3 (gal)

FIELD ANALYSES

	Start		Intermediate		Intermediate		End
Volume purged (gal)	0.50	0.50	0.50	0.50	0.50	0.50	
Time (24-hour)	1405	1415	1425	1435	1445	1455	
pH (S.U.)	7.44	7.15	6.61	6.52	6.09	6.07	
Cond. (umhos/cm)	0.1480	0.1387	0.2172	0.754	0.882	0.905	
Temperature (°C)	30.1	28.9	29.0	30.3	31.4	32.7	
Turbidity (NTU)	12.9	13.6	9.9	14.2	12.57	12.58	
Appearance	Slightly cloudy	Slightly cloudy	Cloudy	Cloudy	Slightly cloudy	Slightly cloudy	
Depth to water	7.91	7.90	7.90	7.90	7.68	7.68	

SAMPLING INFORMATION

Sample Device: _____ Sample Date: 6/12/23

Device Composition: _____ Sample Time: 1445

Sample Collected by: Bentley of: _____

Sample Number(s): _____ Analytical Lab: _____

Sample Fractions: _____

SIGNATURES

Sampler: _____ Reviewer: _____

Date: 6-12-23 Date: _____

WO#: 20279949
PM: MKB Due Date: 06/27/23
CLIENT: MO-AlaStPort

SEMI-ANNUAL GROUNDWATER SAMPLING
ALABAMA WOOD TREATING CORPORATION SITE

WEL

DATE: 6/12/23 TIME: 1555 WELL NUMBER: 17-SR

WELL DATA

Casing Diameter: 2 (in.) Depth to Water 6.72 (ft.) Depth to Bottom: 20.0 (ft.)
(measure to 0.01 ft. precision)

VOLUME TO BE REMOVED

Column of Water in Well: _____ feet

Conversion Factor (gal /ft.): x _____ (gallons/foot)

Total Volume of Casing: _____ gallons

# of Volumes to be Evacuated: x _____ (3 to 5)

Total Volume to be Evacuated: = _____ to _____ gallons

Casing Diameter (in.)	Gallons per Foot of Casing:
2 in.	0.1632
3 in.	0.3672
4 in.	0.6528
5 in.	1.02
6 in.	1.4688

PURGING INFORMATION

METHOD (Pump, Bailer, etc.): Pump

Pump *Bailer*

Type: Peristaltic Volume of Bailer: _____ (gal)

Number of Bailers Required: _____ Removed: _____

Rate: 0.4pm

Other Pump Volume (0.034 gal) + [Tubing Capacity (0.02 gal/ft) x Tubing Length (8 ft)] + Flow Cell Volume (0.132) = 0.1808

Purge Time: Start: 1505 End: 1625 Volume Purged: 2 (gal)

FIELD ANALYSES

	Start		Intermediate		Intermediate		End	
Volume purged (gal)	0.50	0.50	0.50	0.50				
Time (24-hour)	1555	1605	1615	1625				
pH (S.U.)	6.80	6.79	6.86	6.82				
Cond. (umhos/cm)	0.664	0.664	0.690	0.688				
Temperature (°C)	24.3	26.9	26.8	27.3				
Turbidity (NTU)	14.1	12.8	12.06	16.				
Appearance	slightly cloudy	slightly cloudy	slightly cloudy	slightly cloudy				
pH (S.U.)	6.80	6.79	6.86	6.82				

SAMPLING INFORMATION

Sample Device: Peristaltic Sample Date: 6/12/23

Device Composition: _____ Sample Time: 1630

Sample Collected by: Ben Hester of: _____

Sample Number(s): _____ Analytical Lab: _____

Sample Fractions: _____

SIGNATURES

Sampler: _____ Reviewer: _____

Date: 6/12/23 Date: _____

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, LLC.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Report Prepared for:

Mary Kathryn Brenner
PACE New Orleans
4320 Midmost Drive
Mobile AL 36609

REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

Report Information:

Pace Project #: 10657438
Sample Receipt Date: 06/14/2023
Client Project #: 20279949
Client Sub PO #: N/A
State Cert #: 40770

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Scott Unze, your Pace Project Manager.

This report has been reviewed by:

July 06, 2023

Scott Unze, Project Manager
(612) 607-6383
(612) 607-6444 (fax)
scott.unze@pacelabs.com

Report Prepared Date:
July 6, 2023

Report of Laboratory Analysis

Pace Analytical Services, LLC.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DISCUSSION

This report presents the results from the analyses performed on twenty-four samples submitted by a representative of Pace Analytical Services, LLC. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. The reporting limits were statistically derived method detection limits (MDLs) and were adjusted for sample extraction amount. Estimated maximum possible concentration (EMPC) values were treated as positives in the toxic equivalence calculations.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 25-120%. Except for twenty low values, which were flagged "R" on the results tables, the labeled internal standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

Values were flagged "I" where incorrect isotope ratios were obtained. Concentrations below the calibration range were flagged "J" and should be regarded as estimates. In cases where the estimated detection limit (EDL) values were above the MDLs, the EDLs were provided and flagged "A".

A laboratory method blank was prepared and analyzed with each sample batch as part of our routine quality control procedures. The results show the blanks to be free of PCDDs and PCDFs at the reporting limits.

Laboratory spike samples were also prepared using clean reference matrix that had been fortified with native standard materials. The results showed that the spiked native compounds were recovered at 54-122% with relative percent differences of 0.0-14.8%. The recoveries obtained for HpCDD, OCDF, and OCDD in LCS-106862 and LCSD-106863 were below the 70-130% target range, flagged "R" on the results tables, and may indicate low biases for these congeners in the associated field sample determinations. Matrix spikes were not prepared with the extraction batches.

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
		Missouri	10100
A2LA	2926.01	Montana	CERT0092
Alabama	40770	Nebraska	NE-OS-18-06
Alaska-DW	MN00064	Nevada	MN00064
Alaska-UST	17-009	New Hampshire	2081
Arizona	AZ0014	New Jersey	MN002
Arkansas - WW	88-0680	New York	11647
Arkansas-DW	MN00064	North Carolina-	27700
California	2929	North Carolina-	530
Colorado	MN00064	North Dakota	R-036
Connecticut	PH-0256	Ohio-DW	41244
Florida	E87605	Ohio-VAP (170	CL101
Georgia	959	Ohio-VAP (180	CL110
Hawaii	MN00064	Oklahoma	9507
Idaho	MN00064	Oregon-Primary	MN300001
Illinois	200011	Oregon-Second	MN200001
Indiana	C-MN-01	Pennsylvania	68-00563
Iowa	368	Puerto Rico	MN00064
Kansas	E-10167	South Carolina	74003
Kentucky-DW	90062	Tennessee	TN02818
Kentucky-WW	90062	Texas	T104704192
Louisiana-DEQ	AI-84596	Utah	MN00064
Louisiana-DW	MN00064	Vermont	VT-027053137
Maine	MN00064	Virginia	460163
Maryland	322	Washington	C486
Michigan	9909	West Virginia-D	382
Minnesota	027-053-137	West Virginia-D	9952C
Minnesota-Ag	via MN 027-053	Wisconsin	999407970
Minnesota-Petr	1240	Wyoming-UST	via A2LA 2926.
Mississippi	MN00064		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
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Appendix A

Sample Management

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: AL
Cert. Needed: ☐ Yes ☐ No
Owner Received Date: 6/13/2023 Results Requested By: 6/27/2023

Workorder: 20279949 **Workorder Name:** Alabama Wood Treating 06/12/23

Report To	Subcontract To
Mary Kathryn Brenner Pace Analytical Mobile Labs 4320 Midmost Dr Mobile, AL 36609 USA Phone 251-344-9106	Pace Analytical Minneapolis 1700 Elm Street SE Minneapolis, MN 55414 Phone (612)607-1700

WO#: 10657438

10657438

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Subbed work within PASI DXM	Requested Analysis: Dioxin	LAB USE ONLY
1	7-D	PS	6/12/2023 08:23	20279949001	Water	1	X		001
2	7-IR	PS	6/12/2023 08:23	20279949002	Water	1	X		002
3	7-S	PS	6/12/2023 08:23	20279949003	Water	1	X		003
4	8-D	PS	6/12/2023 08:23	20279949004	Water	1	X		004
5	8-DK	PS	6/12/2023 08:23	20279949005	Water	1	X		005
6	8-I	PS	6/12/2023 08:23	20279949006	Water	1	X		006
7	9-1	PS	6/12/2023 08:23	20279949007	Water	1	X		007
8	8-S	PS	6/12/2023 08:23	20279949008	Water	1	X		008
9	15-D	PS	6/12/2023 14:55	20279949009	Water	1	X		009
10	15-I	PS	6/12/2023 16:30	20279949010	Water	1	X		010
11	15-S	PS	6/12/2023 15:55	20279949011	Water	1	X		011
12	16-D	PS	6/12/2023 13:36	20279949012	Water	1	X		012
13	16-I	PS	6/12/2023 11:35	20279949013	Water	1	X		013
14	19-SR	PS	6/12/2023 16:20	20279949014	Water	1	X		014
15	31-DR	PS	6/12/2023 09:12	20279949015	Water	1	X		015
16	31-IR	PS	6/12/2023 10:00	20279949016	Water	1	X		016
17	32-I	PS	6/12/2023 14:45	20279949017	Water	1	X		017
18	32-S	PS	6/12/2023 13:15	20279949018	Water	1	X		018
19	Equipment Blank 1	PS	6/12/2023 09:15	20279949019	Water	1	X		019

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: AL
Cert. Needed: ☐ Yes ☐ No

Workorder: 20279949 **Workorder Name:** Alabama Wood Treating 06/12/23

Owner Received Date: 6/13/2023 **Results Requested By:** 6/27/2023

Report To	Subcontract To
Mary Kathryn Brenner Pace Analytical Mobile Labs 4320 Midmost Dr Mobile, AL 36609 USA Phone 251-344-9106	Pace Analytical Minneapolis 1700 Elm Street SE Minneapolis, MN 55414 Phone (612)607-1700

						Preserved Containers						Requested Analysis													
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Unpreserved						-Subbed-work_within-PAST-BXNH	Dioxin 6/13/23 AS												LAB USE ONLY
20	Equipment Blank 2	PS	6/12/2023 17:10	20279949020	Water	1						X													020
21	Equipment Blank 3	PS	6/12/2023 08:23	20279949021	Water	1						X													021
22	Equipment Blank 4	PS	6/12/2023 08:23	20279949022	Water	1						X													022
23	Equipment Blank 5	PS	6/12/2023 08:23	20279949023	Water	1						X													023
24	Equipment Blank 6	PS	6/12/2023 08:23	20279949024	Water	1						X													024
25	Field Dup 1	PS	6/12/2023 09:30	20279949025	Water	1						X													025
26	Field Dup 2	PS	6/12/2023 09:30	20279949026	Water	1						X													026

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	6/13/23 1530	[signature]	6/14/23 900
2				
3				

Comments

IR10 Report with MDL and J Flags

Only highlighted samples sent, rest will ship tomorrow

Cooler Temperature on Receipt 3.9 °C | **Custody Seal** Y or (N) | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

Sample Condition Upon Receipt

Client Name: PACE AL

Project #: [illegible]

WO#: 10657438

PM: SCU Due Date: 07/06/23

CLIENT: PASI-NOLA

Courier: [x] FedEx [ ] UPS [ ] USPS [ ] Client [ ] Pace [ ] SpeeDee [ ] Commercial

Tracking Number: 1324 5289 3315 [ ] See Exceptions ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present? [ ] Yes [x] No **Seals Intact?** [ ] Yes [x] No **Biological Tissue Frozen?** [ ] Yes [ ] No [x] N/A

Packing Material: [ ] Bubble Wrap [x] Bubble Bags [ ] None [x] Other pb **Temp Blank?** [ ] Yes [x] No

Thermometer: [ ] T1 (0461) [ ] T2 (0436) [ ] T3 (0459) [x] T4 (0402) [ ] T5 (0178) [ ] T6 (0235) [ ] T7 (0042) [ ] T8 (0775) [ ] T9(0727) [ ] 01339252/1710

Type of Ice: [x] Wet [ ] Blue [ ] Dry [ ] None [x] Melted CL 6/14/23

Did Samples Originate in West Virginia? [ ] Yes [x] No **Were All Container Temps Taken?** [ ] Yes [ ] No [x] N/A

Temp should be above freezing to 6 °C **Cooler temp Read w/Temp Blank:** _____ °C

Correction Factor: -0.3 **Cooler Temp Corrected w/temp blank:** _____ °C

Average Corrected Temp (no temp blank only): 3.9 °C

[x] See Exceptions ENV-FRM-MIN4-0142 [ ] 1 Container

USDA Regulated Soil: ([x] N/A, water sample/other: _____)

Date/Initials of Person Examining Contents: CL 6/14/23

Did samples originate in a quarantine zone within the United States: AL, AR, AZ CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check maps)? [ ] Yes [ ] No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? [ ] Yes [ ] No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

Location (Check one): [ ] Duluth [x] Minneapolis [ ] Virginia				**COMMENTS**
Chain of Custody Present and Filled Out?	[x] Yes	[ ] No		1.
Chain of Custody Relinquished?	[x] Yes	[ ] No		2.
Sampler Name and/or Signature on COC?	[ ] Yes	[ ] No	[x] N/A	3.
Samples Arrived within Hold Time?	[x] Yes	[ ] No		4. If fecal: [ ] <8 hrs [ ] >8 hr, <24 [ ] No
Short Hold Time Analysis (<72 hr)?	[ ] Yes	[x] No		5. [ ] Fecal Coliform [ ] HPC [ ] Total Coliform/E.coli [ ] BOD/cBOD [ ] Hex Chrom [ ] Turbidity [ ] Nitrate [ ] Nitrite [ ] Orthophos [ ] Other
Rush Turn Around Time Requested?	[ ] Yes	[x] No		6.
Sufficient Sample Volume?	[x] Yes	[ ] No		7.
Correct Containers Used?	[x] Yes	[ ] No	[ ] N/A	8.
-Pace Containers Used?	[x] Yes	[ ] No		
Containers Intact?	[x] Yes	[ ] No		9.
Field Filtered Volume Received for Dissolved Tests?	[ ] Yes	[ ] No	[x] N/A	10. Is sediment visible in the dissolved container? [ ] Yes [ ] No
Is sufficient information available to reconcile the samples to the COC?	[ ] Yes	[x] No		11. **If no, write ID/Date/Time of container below:** [x] See Exceptions ENV-FRM-MIN4-0142
Matrix: [x] Water [ ] Soil [ ] Oil [ ] Other				
All containers needing acid/base preservation have been checked?	[ ] Yes	[ ] No	[x] N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO3, H2SO4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	[ ] Yes	[ ] No	[x] N/A	[ ] NaOH [ ] HNO3 [ ] H2SO4 [ ] Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxins/PFAS (*If adding preservative to a container, it must be added to associated field and equipment blanks--verify with PM first.)	[ ] Yes	[ ] No	[x] N/A	Positive for Residual Chlorine? [ ] Yes [ ] No [ ] See Exceptions ENV-FRM-MIN4-0142 **pH Paper Lot #** Residual Chlorine / 0-6 Roll / 0-6 Strip / 0-14 Strip
Headspace in Methyl Mercury Container?	[ ] Yes	[ ] No	[x] N/A	13.
Extra labels present on soil VOA or WIDRO containers?	[ ] Yes	[ ] No	[x] N/A	14. [ ] See Exceptions ENV-FRM-MIN4-0142
Headspace in VOA Vials (greater than 6mm)?	[ ] Yes	[ ] No	[x] N/A	
3 Trip Blanks Present?	[ ] Yes	[ ] No	[x] N/A	15.
Trip Blank Custody Seals Present?	[ ] Yes	[ ] No	[x] N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** [ ] Yes [ ] No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____ Method 8290 full list.

Project Manager Review: Sara C. Mays **Date:** 06/14/23

NOTE: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: _____ **Line:** _____

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-MIN4-0142 v02_Sample Condition Upon Receipt (SCUR) Exception Form
	Effective Date: 09/22/2022

Workorder #: _____

No Temp Blank		
Read Temp	Corrected Temp	Average temp
5.6	5.3	
3.1	2.8	
4.9	4.6	
3.4	3.1	3.9

PM Notified of Out of Temp Cooler? ☐ Yes ☐ No

If yes, indicate who was contacted, date and time.
If no, indicate reason why.

_____

Multiple Cooler Project? ☐ Yes ☐ No

If anything is OVER 6.0° C, you MUST document containers in this section HERE

Tracking Number	Temperature

Out of Temp Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples

Sample ID	Type Of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance After Addition?		Initials
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	

Comments:

No Sample ID 16-D is not with the shipment, but sample ID Equipment Blank 2 is.

Qualtrax ID: 52763

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: AL
Cert. Needed: ☐ Yes ☐ No

Workorder: 20279949 **Workorder Name:** Alabama Wood Treating 06/12/23

Owner Received Date: 6/13/2023 Results Requested By: 6/27/2023

Report To	Subcontract To
Mary Kathryn Brenner Pace Analytical Mobile Labs 4320 Midmost Dr Mobile, AL 36609 USA Phone 251-344-9106	Pace Analytical Minneapolis 1700 Elm Street SE Minneapolis, MN 55414 Phone (612)607-1700

WO# : 10657438

10657438

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved						Requested Analysis: Dioxin												LAB USE ONLY
1	7-D	PS	6/13/2023 07:49	20279949001	Water	1						X												
2	7-IR	PS	6/13/2023 09:10	20279949002	Water	1						X												
3	7-S	PS	6/13/2023 08:20	20279949003	Water	1						X												
4	8-D	PS	6/13/2023 12:35	20279949004	Water	1						X												
5	8-DK	PS	6/13/2023 10:20	20279949005	Water	1						X												
6	8-I	PS	6/13/2023 11:45	20279949006	Water	1						X												
7	9-1	PS	6/13/2023 12:30	20279949007	Water	1						X												
8	8-S	PS	6/13/2023 10:40	20279949008	Water	1						X												
9	15-D	PS	6/12/2023 14:55	20279949009	Water	1						X												
10	15-I	PS	6/12/2023 16:30	20279949010	Water	1						X												
11	15-S	PS	6/12/2023 15:55	20279949011	Water	1						X												
12	16-D	PS	6/12/2023 13:36	20279949012	Water	1						X												
13	16-I	PS	6/12/2023 11:35	20279949013	Water	1						X												
14	19-SR	PS	6/12/2023 16:20	20279949014	Water	1						X												
15	31-DR	PS	6/12/2023 09:12	20279949015	Water	1						X												
16	31-IR	PS	6/12/2023 10:00	20279949016	Water	1						X												
17	32-I	PS	6/12/2023 14:45	20279949017	Water	1						X												
18	32-S	PS	6/12/2023 13:15	20279949018	Water	1						X												
19	Equipment Blank 1	PS	6/12/2023 09:15	20279949019	Water	1						X												

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: AL
Cert. Needed: ☐ Yes ☐ No

Workorder: 20279949 **Workorder Name:** Alabama Wood Treating 06/12/23 **Owner Received Date:** 6/13/2023 **Results Requested By:** 6/27/2023

Report To	Subcontract To
Mary Kathryn Brenner Pace Analytical Mobile Labs 4320 Midmost Dr Mobile, AL 36609 USA Phone 251-344-9106	Pace Analytical Minneapolis 1700 Elm Street SE Minneapolis, MN 55414 Phone (612)607-1700

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Requested Analysis: Dioxin	LAB USE ONLY
20	Equipment Blank 2	PS	6/12/2023 17:10	20279949020	Water	1	X	
21	Equipment Blank 3	PS	6/13/2023 06:55	20279949021	Water	1	X	
22	Equipment Blank 4	PS	6/13/2023 14:00	20279949022	Water	1	X	
23	Equipment Blank 5	PS	6/12/2023 08:23	20279949023	Water	1	X	
24	Equipment Blank 6	PS	6/12/2023 08:23	20279949024	Water	1	X	
25	Field Dup 1	PS	6/12/2023 09:30	20279949025	Water	1	X	
26	Field Dup 2	PS	6/12/2023 09:30	20279949026	Water	1	X	

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	6/14/23 1530	[signature] 6/15/23	8:50
2				
3				

Comments
IR10 Report with MDL and J Flags

Cooler Temperature on Receipt 1.8 °C | **Custody Seal** Y or (N) | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

Sample Condition Upon Receipt

Client Name: PACE AL

Project #: WO#: 10657438

PM: SCU Due Date: 07/06/23

CLIENT: PASI-NOLA

Courier: ☑ FedEx ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial

Tracking Number: 1324 5289 3392 ☐ See Exceptions ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present? ☐ Yes ☐ No **Seals Intact?** ☐ Yes ☐ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other **Temp Blank?** ☐ Yes ☒ No

Thermometer: ☐ T1 (0461) ☐ T2 (0436) ☐ T3 (0459) ☒ T4 (0402) ☐ T5 (0178) ☐ T6 (0235) ☐ T7 (0042) ☐ T8 (0775) ☐ T9(0727) ☐ 01339252/1710 **Type of Ice:** ☑ Wet ☐ Blue ☐ Dry ☐ None ☐ Melted

Did Samples Originate in West Virginia? ☐ Yes ☐ No **Were All Container Temps Taken?** ☐ Yes ☐ No ☐ N/A

Temp should be above freezing to 6 °C **Cooler temp Read w/Temp Blank:** _____ °C

Correction Factor: -0.3 **Cooler Temp Corrected w/temp blank:** _____ °C

Average Corrected Temp (no temp blank only): 1.8 °C

☑ See Exceptions ENV-FRM-MIN4-0142 ☐ 1 Container

USDA Regulated Soil: (☐ N/A, water sample/other: _____) **Date/Initials of Person Examining Contents:** _____

Did samples originate in a quarantine zone within the United States: AL, AR, AZ CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

Location (Check one): ☐ Duluth ☒ Minneapolis ☐ Virginia

				COMMENTS
Chain of Custody Present and Filled Out?	☑ Yes	☐ No		1.
Chain of Custody Relinquished?	☑ Yes	☐ No		2.
Sampler Name and/or Signature on COC?	☐ Yes	☐ No	☒ N/A	3.
Samples Arrived within Hold Time?	☑ Yes	☐ No		4. If fecal: ☐ <8 hrs ☐ >8 hr, <24 ☐ No
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E.coli ☐ BOD/cBOD ☐ Hex Chrom ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested?	☐ Yes	☒ No		6.
Sufficient Sample Volume?	☑ Yes	☐ No		7.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	8.
-Pace Containers Used?	☑ Yes	☐ No		
Containers Intact?	☑ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC?	☐ Yes	☒ No		11. **If no, write ID/Date/Time of container below:** Field Dup 2 sent with batch ☐ See Exceptions ENV-FRM-MIN4-0142
Matrix: ☑ Water ☐ Soil ☐ Oil ☐ Other				
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☒ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO3, H2SO4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	☐ Yes	☐ No	☒ N/A	☐ NaOH ☐ HNO3 ☐ H2SO4 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxins/PFAS (*If adding preservative to a container, it must be added to associated field and equipment blanks--verify with PM first.)	☐ Yes	☐ No	☒ N/A	Positive for Residual Chlorine? ☐ Yes ☐ No ☐ See Exceptions ENV-FRM-MIN4-0142
				pH Paper Lot #
				Residual Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Headspace in Methyl Mercury Container?	☐ Yes	☐ No	☒ N/A	13.
Extra labels present on soil VOA or WIDRO containers?	☐ Yes	☐ No	☒ N/A	14. ☐ See Exceptions ENV-FRM-MIN4-0142
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☐ No	☒ N/A	
3 Trip Blanks Present?	☐ Yes	☐ No	☒ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Sara C. Hughes **Date:** 06/15/23

NOTE: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: CL **Line:** 3

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-MIN4-0142 v02_Sample Condition Upon Receipt (SCUR) Exception Form
	Effective Date: 09/22/2022

Workorder #: _____

No Temp Blank		
Read Temp	**Corrected Temp**	**Average temp**
2.7	2.4	1.8
1.5	1.2	
2.6	2.3	
1.4	1.1	

PM Notified of Out of Temp Cooler? ☐ Yes ☐ No

If yes, indicate who was contacted, date and time.
If no, indicate reason why.

_____

Multiple Cooler Project? ☐ Yes ☐ No

If anything is OVER 6.0° C, you MUST document containers in this section HERE

Tracking Number	Temperature

Out of Temp Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples

Sample ID	Type Of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance After Addition?		Initials
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	

Comments:

_____

_____

_____

Qualtrax ID: 52763

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Reporting Flags

A = Reporting Limit based on signal to noise (EDL)

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

H2 = Extracted outside of holding time

I = Isotope ratio out of specification

J = Estimated value

L = Suppressive interference, analyte may be biased low

Nn = Value obtained from additional analysis

P = PCDE Interference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Appendix B

Sample Analysis Summary

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	7-D		
Lab Sample ID	20279949001		
Filename	U230630B_09		
Injected By	JRH		
Total Amount Extracted	1060 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 08:23
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_02 & U230630B_18	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	06/30/2023 23:59

Native Isomers	Conc pg/L	EMPC pg/L	MDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	2.1	A	2,3,7,8-TCDF-13C	2.00	76
Total TCDF	ND	-----	2.1		2,3,7,8-TCDD-13C	2.00	64
					1,2,3,7,8-PeCDF-13C	2.00	93
2,3,7,8-TCDD	ND	-----	2.1		2,3,4,7,8-PeCDF-13C	2.00	95
Total TCDD	ND	-----	2.1		1,2,3,7,8-PeCDD-13C	2.00	106
					1,2,3,4,7,8-HxCDF-13C	2.00	77
1,2,3,7,8-PeCDF	ND	-----	2.4		1,2,3,6,7,8-HxCDF-13C	2.00	69
2,3,4,7,8-PeCDF	ND	-----	1.7		2,3,4,6,7,8-HxCDF-13C	2.00	70
Total PeCDF	ND	-----	1.7		1,2,3,7,8,9-HxCDF-13C	2.00	71
					1,2,3,4,7,8-HxCDD-13C	2.00	67
1,2,3,7,8-PeCDD	ND	-----	2.0		1,2,3,6,7,8-HxCDD-13C	2.00	70
Total PeCDD	ND	-----	2.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	44
					1,2,3,4,7,8,9-HpCDF-13C	2.00	49
1,2,3,4,7,8-HxCDF	ND	-----	4.7		1,2,3,4,6,7,8-HpCDD-13C	2.00	52
1,2,3,6,7,8-HxCDF	ND	-----	4.1		OCDD-13C	4.00	57
2,3,4,6,7,8-HxCDF	ND	-----	4.0				
1,2,3,7,8,9-HxCDF	ND	-----	4.3		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	4.0		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	3.4		2,3,7,8-TCDD-37Cl4	0.20	75
1,2,3,6,7,8-HxCDD	ND	-----	4.2				
1,2,3,7,8,9-HxCDD	ND	-----	5.1				
Total HxCDD	ND	-----	3.4				
1,2,3,4,6,7,8-HpCDF	ND	-----	4.1		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	4.0		Equivalence: 0.0060 pg/L		
Total HpCDF	ND	-----	4.0		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	4.7	A			
Total HpCDD	ND	-----	4.7				
OCDF	ND	-----	9.6				
OCDD	-----	20	10	IJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
A = Reporting Limit based on signal to noise (EDL)
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	7-IR		
Lab Sample ID	20279949002		
Filename	U230630B_10		
Injected By	JRH		
Total Amount Extracted	1010 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 08:23
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_02 & U230630B_18	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	07/01/2023 00:45

Native Isomers	Conc pg/L	EMPC pg/L	MDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	2.0		2,3,7,8-TCDF-13C	2.00	69
Total TCDF	ND	-----	2.0		2,3,7,8-TCDD-13C	2.00	57
					1,2,3,7,8-PeCDF-13C	2.00	80
2,3,7,8-TCDD	ND	-----	2.2		2,3,4,7,8-PeCDF-13C	2.00	83
Total TCDD	ND	-----	2.2		1,2,3,7,8-PeCDD-13C	2.00	86
					1,2,3,4,7,8-HxCDF-13C	2.00	69
1,2,3,7,8-PeCDF	ND	-----	2.5		1,2,3,6,7,8-HxCDF-13C	2.00	62
2,3,4,7,8-PeCDF	ND	-----	1.8		2,3,4,6,7,8-HxCDF-13C	2.00	63
Total PeCDF	ND	-----	1.8		1,2,3,7,8,9-HxCDF-13C	2.00	65
					1,2,3,4,7,8-HxCDD-13C	2.00	59
1,2,3,7,8-PeCDD	ND	-----	2.0		1,2,3,6,7,8-HxCDD-13C	2.00	64
Total PeCDD	ND	-----	2.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	41
					1,2,3,4,7,8,9-HpCDF-13C	2.00	43
1,2,3,4,7,8-HxCDF	ND	-----	4.9		1,2,3,4,6,7,8-HpCDD-13C	2.00	47
1,2,3,6,7,8-HxCDF	ND	-----	4.3		OCDD-13C	4.00	50
2,3,4,6,7,8-HxCDF	ND	-----	4.2				
1,2,3,7,8,9-HxCDF	ND	-----	4.5		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	4.2		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	3.5		2,3,7,8-TCDD-37Cl4	0.20	65
1,2,3,6,7,8-HxCDD	ND	-----	4.4				
1,2,3,7,8,9-HxCDD	ND	-----	5.4				
Total HxCDD	ND	-----	3.5				
1,2,3,4,6,7,8-HpCDF	ND	-----	4.2		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	5.2	A	Equivalence: 0.0037 pg/L		
Total HpCDF	ND	-----	4.2		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	5.0	A			
Total HpCDD	ND	-----	5.0				
OCDF	ND	-----	10				
OCDD	12	-----	11	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
A = Reporting Limit based on signal to noise (EDL)

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	7-S		
Lab Sample ID	20279949003		
Filename	U230630B_11		
Injected By	JRH		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 08:23
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_02 & U230630B_18	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	07/01/2023 01:31

Native Isomers	Conc pg/L	EMPC pg/L	MDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	1.9		2,3,7,8-TCDF-13C	2.00	72
Total TCDF	ND	-----	1.9		2,3,7,8-TCDD-13C	2.00	58
					1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	ND	-----	2.2	A	2,3,4,7,8-PeCDF-13C	2.00	80
Total TCDD	ND	-----	2.2		1,2,3,7,8-PeCDD-13C	2.00	86
					1,2,3,4,7,8-HxCDF-13C	2.00	61
1,2,3,7,8-PeCDF	ND	-----	2.4		1,2,3,6,7,8-HxCDF-13C	2.00	55
2,3,4,7,8-PeCDF	ND	-----	1.8		2,3,4,6,7,8-HxCDF-13C	2.00	60
Total PeCDF	ND	-----	1.8		1,2,3,7,8,9-HxCDF-13C	2.00	62
					1,2,3,4,7,8-HxCDD-13C	2.00	54
1,2,3,7,8-PeCDD	ND	-----	2.8	A	1,2,3,6,7,8-HxCDD-13C	2.00	62
Total PeCDD	ND	-----	2.8		1,2,3,4,6,7,8-HpCDF-13C	2.00	40
					1,2,3,4,7,8,9-HpCDF-13C	2.00	43
1,2,3,4,7,8-HxCDF	ND	-----	4.8		1,2,3,4,6,7,8-HpCDD-13C	2.00	48
1,2,3,6,7,8-HxCDF	ND	-----	4.2		OCDD-13C	4.00	46
2,3,4,6,7,8-HxCDF	ND	-----	4.1				
1,2,3,7,8,9-HxCDF	ND	-----	4.4		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	4.1		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	3.4		2,3,7,8-TCDD-37Cl4	0.20	75
1,2,3,6,7,8-HxCDD	ND	-----	4.3				
1,2,3,7,8,9-HxCDD	ND	-----	5.2				
Total HxCDD	ND	-----	3.4				
1,2,3,4,6,7,8-HpCDF	ND	-----	4.1		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	4.4	A	Equivalence: 0.0035 pg/L		
Total HpCDF	ND	-----	4.1		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	4.6	A			
Total HpCDD	ND	-----	4.6				
OCDF	ND	-----	9.8				
OCDD	12	-----	11	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
A = Reporting Limit based on signal to noise (EDL)

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	8-D		
Lab Sample ID	20279949004		
Filename	U230630B_12		
Injected By	JRH		
Total Amount Extracted	1000 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 08:23
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_02 & U230630B_18	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	07/01/2023 02:17

Native Isomers	Conc pg/L	EMPC pg/L	MDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	2.0		2,3,7,8-TCDF-13C	2.00	72
Total TCDF	ND	-----	2.0		2,3,7,8-TCDD-13C	2.00	65
					1,2,3,7,8-PeCDF-13C	2.00	89
2,3,7,8-TCDD	ND	-----	2.2		2,3,4,7,8-PeCDF-13C	2.00	91
Total TCDD	ND	-----	2.2		1,2,3,7,8-PeCDD-13C	2.00	98
					1,2,3,4,7,8-HxCDF-13C	2.00	71
1,2,3,7,8-PeCDF	ND	-----	2.5		1,2,3,6,7,8-HxCDF-13C	2.00	66
2,3,4,7,8-PeCDF	ND	-----	1.8		2,3,4,6,7,8-HxCDF-13C	2.00	69
Total PeCDF	ND	-----	1.8		1,2,3,7,8,9-HxCDF-13C	2.00	72
					1,2,3,4,7,8-HxCDD-13C	2.00	66
1,2,3,7,8-PeCDD	ND	-----	2.1		1,2,3,6,7,8-HxCDD-13C	2.00	68
Total PeCDD	ND	-----	2.1		1,2,3,4,6,7,8-HpCDF-13C	2.00	55
					1,2,3,4,7,8,9-HpCDF-13C	2.00	59
1,2,3,4,7,8-HxCDF	ND	-----	5.0		1,2,3,4,6,7,8-HpCDD-13C	2.00	62
1,2,3,6,7,8-HxCDF	ND	-----	4.4		OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	ND	-----	4.3				
1,2,3,7,8,9-HxCDF	ND	-----	4.6		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	4.3		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	3.6		2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	ND	-----	4.5				
1,2,3,7,8,9-HxCDD	ND	-----	5.4				
Total HxCDD	ND	-----	3.6				
1,2,3,4,6,7,8-HpCDF	ND	-----	4.3		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	4.2		Equivalence: 0.0034 pg/L		
Total HpCDF	ND	-----	4.2		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	4.3				
Total HpCDD	ND	-----	4.3				
OCDF	ND	-----	10				
OCDD	11	-----	11	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	8-DK		
Lab Sample ID	20279949005		
Filename	U230630B_13		
Injected By	JRH		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 08:23
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_02 & U230630B_18	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	07/01/2023 03:04

Native Isomers	Conc pg/L	EMPC pg/L	MDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	1.9		2,3,7,8-TCDF-13C	2.00	82
Total TCDF	ND	-----	1.9		2,3,7,8-TCDD-13C	2.00	75
					1,2,3,7,8-PeCDF-13C	2.00	99
2,3,7,8-TCDD	ND	-----	2.1		2,3,4,7,8-PeCDF-13C	2.00	101
Total TCDD	ND	-----	2.1		1,2,3,7,8-PeCDD-13C	2.00	112
					1,2,3,4,7,8-HxCDF-13C	2.00	75
1,2,3,7,8-PeCDF	ND	-----	2.4		1,2,3,6,7,8-HxCDF-13C	2.00	68
2,3,4,7,8-PeCDF	ND	-----	1.8		2,3,4,6,7,8-HxCDF-13C	2.00	73
Total PeCDF	ND	-----	1.8		1,2,3,7,8,9-HxCDF-13C	2.00	77
					1,2,3,4,7,8-HxCDD-13C	2.00	71
1,2,3,7,8-PeCDD	ND	-----	2.0		1,2,3,6,7,8-HxCDD-13C	2.00	72
Total PeCDD	ND	-----	2.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	53
					1,2,3,4,7,8,9-HpCDF-13C	2.00	57
1,2,3,4,7,8-HxCDF	ND	-----	4.8		1,2,3,4,6,7,8-HpCDD-13C	2.00	60
1,2,3,6,7,8-HxCDF	ND	-----	4.2		OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	ND	-----	4.1				
1,2,3,7,8,9-HxCDF	ND	-----	4.4		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	4.1		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	3.5		2,3,7,8-TCDD-37Cl4	0.20	83
1,2,3,6,7,8-HxCDD	ND	-----	4.3				
1,2,3,7,8,9-HxCDD	ND	-----	5.2				
Total HxCDD	ND	-----	3.5				
1,2,3,4,6,7,8-HpCDF	ND	-----	4.1		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	4.1		Equivalence: 0.0071 pg/L		
Total HpCDF	ND	-----	4.1		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	4.1				
Total HpCDD	ND	-----	4.1				
OCDF	ND	-----	9.8				
OCDD	24	-----	11	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414

Tel: 612-607-1700
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	8-I		
Lab Sample ID	20279949006		
Filename	U230630B_14		
Injected By	JRH		
Total Amount Extracted	1060 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 08:23
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_02 & U230630B_18	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	07/01/2023 03:50

Native Isomers	Conc pg/L	EMPC pg/L	MDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	1.9		2,3,7,8-TCDF-13C	2.00	73
Total TCDF	ND	-----	1.9		2,3,7,8-TCDD-13C	2.00	66
					1,2,3,7,8-PeCDF-13C	2.00	89
2,3,7,8-TCDD	ND	-----	3.1	A	2,3,4,7,8-PeCDF-13C	2.00	93
Total TCDD	ND	-----	3.1		1,2,3,7,8-PeCDD-13C	2.00	103
					1,2,3,4,7,8-HxCDF-13C	2.00	72
1,2,3,7,8-PeCDF	ND	-----	2.4		1,2,3,6,7,8-HxCDF-13C	2.00	67
2,3,4,7,8-PeCDF	ND	-----	1.7		2,3,4,6,7,8-HxCDF-13C	2.00	68
Total PeCDF	ND	-----	1.7		1,2,3,7,8,9-HxCDF-13C	2.00	71
					1,2,3,4,7,8-HxCDD-13C	2.00	64
1,2,3,7,8-PeCDD	ND	-----	2.0		1,2,3,6,7,8-HxCDD-13C	2.00	68
Total PeCDD	ND	-----	2.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	46
					1,2,3,4,7,8,9-HpCDF-13C	2.00	47
1,2,3,4,7,8-HxCDF	ND	-----	4.7		1,2,3,4,6,7,8-HpCDD-13C	2.00	51
1,2,3,6,7,8-HxCDF	ND	-----	4.1		OCDD-13C	4.00	49
2,3,4,6,7,8-HxCDF	ND	-----	4.0				
1,2,3,7,8,9-HxCDF	ND	-----	4.3		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	4.0		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	3.4		2,3,7,8-TCDD-37Cl4	0.20	76
1,2,3,6,7,8-HxCDD	ND	-----	4.2				
1,2,3,7,8,9-HxCDD	ND	-----	5.1				
Total HxCDD	ND	-----	3.4				
1,2,3,4,6,7,8-HpCDF	ND	-----	4.1		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	4.0		Equivalence: 0.0053 pg/L		
Total HpCDF	ND	-----	4.0		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	4.0				
Total HpCDD	ND	-----	4.0				
OCDF	ND	-----	9.6				
OCDD	-----	18	10	IJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
A = Reporting Limit based on signal to noise (EDL)
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	9-1		
Lab Sample ID	20279949007		
Filename	U230630B_15		
Injected By	JRH		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 08:23
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_02 & U230630B_18	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	07/01/2023 04:36

Native Isomers	Conc pg/L	EMPC pg/L	MDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	2.0		2,3,7,8-TCDF-13C	2.00	71
Total TCDF	ND	-----	2.0		2,3,7,8-TCDD-13C	2.00	55
					1,2,3,7,8-PeCDF-13C	2.00	90
2,3,7,8-TCDD	ND	-----	2.6	A	2,3,4,7,8-PeCDF-13C	2.00	90
Total TCDD	ND	-----	2.6		1,2,3,7,8-PeCDD-13C	2.00	99
					1,2,3,4,7,8-HxCDF-13C	2.00	80
1,2,3,7,8-PeCDF	ND	-----	2.4		1,2,3,6,7,8-HxCDF-13C	2.00	73
2,3,4,7,8-PeCDF	ND	-----	1.8		2,3,4,6,7,8-HxCDF-13C	2.00	77
Total PeCDF	ND	-----	1.8		1,2,3,7,8,9-HxCDF-13C	2.00	76
					1,2,3,4,7,8-HxCDD-13C	2.00	72
1,2,3,7,8-PeCDD	ND	-----	2.0		1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD	ND	-----	2.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	59
					1,2,3,4,7,8,9-HpCDF-13C	2.00	56
1,2,3,4,7,8-HxCDF	ND	-----	4.8		1,2,3,4,6,7,8-HpCDD-13C	2.00	62
1,2,3,6,7,8-HxCDF	ND	-----	4.3		OCDD-13C	4.00	68
2,3,4,6,7,8-HxCDF	ND	-----	4.1				
1,2,3,7,8,9-HxCDF	ND	-----	4.5		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	4.1		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	3.5		2,3,7,8-TCDD-37Cl4	0.20	70
1,2,3,6,7,8-HxCDD	ND	-----	4.3				
1,2,3,7,8,9-HxCDD	ND	-----	5.3				
Total HxCDD	ND	-----	3.5				
1,2,3,4,6,7,8-HpCDF	ND	-----	4.2		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	4.1		Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	4.1		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	4.1				
Total HpCDD	ND	-----	4.1				
OCDF	ND	-----	9.9				
OCDD	ND	-----	11				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

A = Reporting Limit based on signal to noise (EDL)

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	8-S		
Lab Sample ID	20279949008		
Filename	U230630B_16		
Injected By	JRH		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 08:23
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_02 & U230630B_18	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	07/01/2023 05:22

Native Isomers	Conc pg/L	EMPC pg/L	MDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	2.0		2,3,7,8-TCDF-13C	2.00	76
Total TCDF	ND	-----	2.0		2,3,7,8-TCDD-13C	2.00	67
					1,2,3,7,8-PeCDF-13C	2.00	93
2,3,7,8-TCDD	ND	-----	2.2	A	2,3,4,7,8-PeCDF-13C	2.00	94
Total TCDD	ND	-----	2.2		1,2,3,7,8-PeCDD-13C	2.00	101
					1,2,3,4,7,8-HxCDF-13C	2.00	73
1,2,3,7,8-PeCDF	ND	-----	2.4		1,2,3,6,7,8-HxCDF-13C	2.00	70
2,3,4,7,8-PeCDF	ND	-----	1.8		2,3,4,6,7,8-HxCDF-13C	2.00	70
Total PeCDF	ND	-----	1.8		1,2,3,7,8,9-HxCDF-13C	2.00	76
					1,2,3,4,7,8-HxCDD-13C	2.00	66
1,2,3,7,8-PeCDD	ND	-----	2.0		1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD	ND	-----	2.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	57
					1,2,3,4,7,8,9-HpCDF-13C	2.00	60
1,2,3,4,7,8-HxCDF	ND	-----	4.8		1,2,3,4,6,7,8-HpCDD-13C	2.00	63
1,2,3,6,7,8-HxCDF	ND	-----	4.3		OCDD-13C	4.00	69
2,3,4,6,7,8-HxCDF	ND	-----	4.2				
1,2,3,7,8,9-HxCDF	ND	-----	4.5		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	4.2		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	3.5		2,3,7,8-TCDD-37Cl4	0.20	75
1,2,3,6,7,8-HxCDD	ND	-----	4.4				
1,2,3,7,8,9-HxCDD	ND	-----	5.3				
Total HxCDD	ND	-----	3.5				
1,2,3,4,6,7,8-HpCDF	ND	-----	4.2		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	4.1		Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	4.1		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	4.1				
Total HpCDD	ND	-----	4.1				
OCDF	ND	-----	9.9				
OCDD	ND	-----	11				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

A = Reporting Limit based on signal to noise (EDL)

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	15-D		
Lab Sample ID	20279949009		
Filename	L230626B_12		
Injected By	SMT		
Total Amount Extracted	1020 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 14:55
ICAL ID	L230613	Received	06/14/2023 09:00
CCal Filename(s)	L230626B_01 & L230626B_22	Extracted	06/15/2023 12:00
Method Blank ID	BLANK-106861	Analyzed	06/26/2023 18:34

Native Isomers	Conc pg/L	EMPC pg/L	MDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	2.0		2,3,7,8-TCDF-13C	2.00	94
Total TCDF	ND	-----	2.0		2,3,7,8-TCDD-13C	2.00	87
					1,2,3,7,8-PeCDF-13C	2.00	75
2,3,7,8-TCDD	ND	-----	2.2		2,3,4,7,8-PeCDF-13C	2.00	100
Total TCDD	2.5	-----	2.2	J	1,2,3,7,8-PeCDD-13C	2.00	99
					1,2,3,4,7,8-HxCDF-13C	2.00	102
1,2,3,7,8-PeCDF	ND	-----	2.5		1,2,3,6,7,8-HxCDF-13C	2.00	44
2,3,4,7,8-PeCDF	ND	-----	1.8		2,3,4,6,7,8-HxCDF-13C	2.00	113
Total PeCDF	ND	-----	1.8		1,2,3,7,8,9-HxCDF-13C	2.00	108
					1,2,3,4,7,8-HxCDD-13C	2.00	116
1,2,3,7,8-PeCDD	ND	-----	2.0		1,2,3,6,7,8-HxCDD-13C	2.00	96
Total PeCDD	ND	-----	2.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	95
					1,2,3,4,7,8,9-HpCDF-13C	2.00	53
1,2,3,4,7,8-HxCDF	ND	-----	4.9		1,2,3,4,6,7,8-HpCDD-13C	2.00	94
1,2,3,6,7,8-HxCDF	ND	-----	4.3		OCDD-13C	4.00	74
2,3,4,6,7,8-HxCDF	ND	-----	4.2				
1,2,3,7,8,9-HxCDF	ND	-----	4.5		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	4.2		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	3.5		2,3,7,8-TCDD-37Cl4	0.20	89
1,2,3,6,7,8-HxCDD	ND	-----	4.4				
1,2,3,7,8,9-HxCDD	ND	-----	5.3				
Total HxCDD	ND	-----	3.5				
1,2,3,4,6,7,8-HpCDF	ND	-----	4.2		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	4.2		Equivalence: 0.11 pg/L		
Total HpCDF	ND	-----	4.2		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	8.3	-----	4.2	J			
Total HpCDD	16	-----	4.2	J			
OCDF	ND	-----	10				
OCDD	90	-----	11	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	15-I		
Lab Sample ID	20279949010		
Filename	L230626B_13		
Injected By	SMT		
Total Amount Extracted	1050 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 16:30
ICAL ID	L230613	Received	06/14/2023 09:00
CCal Filename(s)	L230626B_01 & L230626B_22	Extracted	06/15/2023 12:00
Method Blank ID	BLANK-106861	Analyzed	06/26/2023 19:19

Native Isomers	Conc pg/L	EMPC pg/L	MDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	1.9		2,3,7,8-TCDF-13C	2.00	83
Total TCDF	ND	-----	1.9		2,3,7,8-TCDD-13C	2.00	74
					1,2,3,7,8-PeCDF-13C	2.00	55
2,3,7,8-TCDD	ND	-----	2.1		2,3,4,7,8-PeCDF-13C	2.00	86
Total TCDD	ND	-----	2.1		1,2,3,7,8-PeCDD-13C	2.00	83
					1,2,3,4,7,8-HxCDF-13C	2.00	99
1,2,3,7,8-PeCDF	ND	-----	2.4		1,2,3,6,7,8-HxCDF-13C	2.00	45
2,3,4,7,8-PeCDF	ND	-----	1.7		2,3,4,6,7,8-HxCDF-13C	2.00	113
Total PeCDF	ND	-----	1.7		1,2,3,7,8,9-HxCDF-13C	2.00	95
					1,2,3,4,7,8-HxCDD-13C	2.00	115
1,2,3,7,8-PeCDD	ND	-----	2.0		1,2,3,6,7,8-HxCDD-13C	2.00	93
Total PeCDD	ND	-----	2.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	96
					1,2,3,4,7,8,9-HpCDF-13C	2.00	53
1,2,3,4,7,8-HxCDF	ND	-----	4.7		1,2,3,4,6,7,8-HpCDD-13C	2.00	91
1,2,3,6,7,8-HxCDF	ND	-----	4.2		OCDD-13C	4.00	74
2,3,4,6,7,8-HxCDF	ND	-----	4.1				
1,2,3,7,8,9-HxCDF	ND	-----	4.4		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	4.1		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	3.4		2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	ND	-----	4.3				
1,2,3,7,8,9-HxCDD	ND	-----	5.2				
Total HxCDD	ND	-----	3.4				
1,2,3,4,6,7,8-HpCDF	ND	-----	4.1		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	4.0		Equivalence: 0.0064 pg/L		
Total HpCDF	ND	-----	4.0		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	4.1				
Total HpCDD	ND	-----	4.1				
OCDF	ND	-----	9.7				
OCDD	-----	21	11	IJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	15-S		
Lab Sample ID	20279949011		
Filename	L230626B_14		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 15:55
ICAL ID	L230613	Received	06/14/2023 09:00
CCal Filename(s)	L230626B_01 & L230626B_22	Extracted	06/15/2023 12:00
Method Blank ID	BLANK-106861	Analyzed	06/26/2023 20:05

Native Isomers	Conc pg/L	EMPC pg/L	MDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	2.0		2,3,7,8-TCDF-13C	2.00	89
Total TCDF	ND	-----	2.0		2,3,7,8-TCDD-13C	2.00	83
					1,2,3,7,8-PeCDF-13C	2.00	57
2,3,7,8-TCDD	ND	-----	2.1		2,3,4,7,8-PeCDF-13C	2.00	95
Total TCDD	ND	-----	2.1		1,2,3,7,8-PeCDD-13C	2.00	95
					1,2,3,4,7,8-HxCDF-13C	2.00	107
1,2,3,7,8-PeCDF	ND	-----	2.4		1,2,3,6,7,8-HxCDF-13C	2.00	47
2,3,4,7,8-PeCDF	ND	-----	1.8		2,3,4,6,7,8-HxCDF-13C	2.00	120
Total PeCDF	ND	-----	1.8		1,2,3,7,8,9-HxCDF-13C	2.00	110
					1,2,3,4,7,8-HxCDD-13C	2.00	118
1,2,3,7,8-PeCDD	ND	-----	2.0		1,2,3,6,7,8-HxCDD-13C	2.00	98
Total PeCDD	ND	-----	2.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	100
					1,2,3,4,7,8,9-HpCDF-13C	2.00	59
1,2,3,4,7,8-HxCDF	ND	-----	4.9		1,2,3,4,6,7,8-HpCDD-13C	2.00	103
1,2,3,6,7,8-HxCDF	ND	-----	4.3		OCDD-13C	4.00	80
2,3,4,6,7,8-HxCDF	ND	-----	4.2				
1,2,3,7,8,9-HxCDF	ND	-----	4.5		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	4.2		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	3.5		2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	ND	-----	4.4				
1,2,3,7,8,9-HxCDD	ND	-----	5.3				
Total HxCDD	ND	-----	3.5				
1,2,3,4,6,7,8-HpCDF	ND	-----	4.2		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	4.1		Equivalence: 0.0054 pg/L		
Total HpCDF	ND	-----	4.1		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	4.2				
Total HpCDD	ND	-----	4.2				
OCDF	ND	-----	9.9				
OCDD	-----	18	11	IJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414

Tel: 612-607-1700
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	16-D		
Lab Sample ID	20279949012		
Filename	U230701A_02		
Injected By	JRH		
Total Amount Extracted	1060 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 13:36
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_18 & U230701A_16	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	07/01/2023 08:27

Native Isomers	Conc pg/L	EMPC pg/L	MDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	1.9		2,3,7,8-TCDF-13C	2.00	72
Total TCDF	ND	-----	1.9		2,3,7,8-TCDD-13C	2.00	58
					1,2,3,7,8-PeCDF-13C	2.00	89
2,3,7,8-TCDD	ND	-----	2.1		2,3,4,7,8-PeCDF-13C	2.00	86
Total TCDD	ND	-----	2.1		1,2,3,7,8-PeCDD-13C	2.00	93
					1,2,3,4,7,8-HxCDF-13C	2.00	65
1,2,3,7,8-PeCDF	ND	-----	2.4		1,2,3,6,7,8-HxCDF-13C	2.00	67
2,3,4,7,8-PeCDF	ND	-----	1.7		2,3,4,6,7,8-HxCDF-13C	2.00	67
Total PeCDF	ND	-----	1.7		1,2,3,7,8,9-HxCDF-13C	2.00	70
					1,2,3,4,7,8-HxCDD-13C	2.00	64
1,2,3,7,8-PeCDD	ND	-----	2.0		1,2,3,6,7,8-HxCDD-13C	2.00	68
Total PeCDD	ND	-----	2.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	57
					1,2,3,4,7,8,9-HpCDF-13C	2.00	64
1,2,3,4,7,8-HxCDF	ND	-----	4.7		1,2,3,4,6,7,8-HpCDD-13C	2.00	63
1,2,3,6,7,8-HxCDF	ND	-----	4.2		OCDD-13C	4.00	64
2,3,4,6,7,8-HxCDF	ND	-----	4.1				
1,2,3,7,8,9-HxCDF	ND	-----	4.4		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	4.1		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	3.4		2,3,7,8-TCDD-37Cl4	0.20	67
1,2,3,6,7,8-HxCDD	ND	-----	4.3				
1,2,3,7,8,9-HxCDD	ND	-----	5.1				
Total HxCDD	ND	-----	3.4				
1,2,3,4,6,7,8-HpCDF	ND	-----	4.1		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	4.0		Equivalence: 0.012 pg/L		
Total HpCDF	ND	-----	4.0		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	4.0				
Total HpCDD	ND	-----	4.0				
OCDF	ND	-----	9.7				
OCDD	41	-----	11	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	16-I		
Lab Sample ID	20279949013		
Filename	U230625B_11		
Injected By	JRH		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 11:35
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230625A_17 & U230625B_16	Extracted	06/15/2023 12:00
Method Blank ID	BLANK-106861	Analyzed	06/25/2023 22:25

Native Isomers	Conc pg/L	EMPC pg/L	MDL pg/L		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	2.0		2,3,7,8-TCDF-13C	2.00	71	
Total TCDF	ND	-----	2.0		2,3,7,8-TCDD-13C	2.00	68	
					1,2,3,7,8-PeCDF-13C	2.00	60	
2,3,7,8-TCDD	ND	-----	2.3	A	2,3,4,7,8-PeCDF-13C	2.00	61	
Total TCDD	ND	-----	2.3		1,2,3,7,8-PeCDD-13C	2.00	66	
					1,2,3,4,7,8-HxCDF-13C	2.00	56	
1,2,3,7,8-PeCDF	ND	-----	2.4		1,2,3,6,7,8-HxCDF-13C	2.00	47	
2,3,4,7,8-PeCDF	ND	-----	1.8		2,3,4,6,7,8-HxCDF-13C	2.00	56	
Total PeCDF	ND	-----	1.8		1,2,3,7,8,9-HxCDF-13C	2.00	54	
					1,2,3,4,7,8-HxCDD-13C	2.00	55	
1,2,3,7,8-PeCDD	ND	-----	2.1	A	1,2,3,6,7,8-HxCDD-13C	2.00	61	
Total PeCDD	ND	-----	2.1		1,2,3,4,6,7,8-HpCDF-13C	2.00	38	R
					1,2,3,4,7,8,9-HpCDF-13C	2.00	33	R
1,2,3,4,7,8-HxCDF	ND	-----	4.9		1,2,3,4,6,7,8-HpCDD-13C	2.00	42	
1,2,3,6,7,8-HxCDF	ND	-----	4.3		OCDD-13C	4.00	25	R
2,3,4,6,7,8-HxCDF	ND	-----	4.2					
1,2,3,7,8,9-HxCDF	ND	-----	4.5		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	ND	-----	4.2		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	ND	-----	3.5		2,3,7,8-TCDD-37Cl4	0.20	80	
1,2,3,6,7,8-HxCDD	ND	-----	4.4					
1,2,3,7,8,9-HxCDD	ND	-----	5.3					
Total HxCDD	ND	-----	3.5					
1,2,3,4,6,7,8-HpCDF	ND	-----	4.8	A	Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	5.6	A	Equivalence: 0.048 pg/L			
Total HpCDF	ND	-----	4.8		(Lower-bound - Using 2005 WHO Factors)			
1,2,3,4,6,7,8-HpCDD	-----	4.2	4.2	IJ				
Total HpCDD	ND	-----	4.2					
OCDF	ND	-----	9.9					
OCDD	-----	21	11	IJA				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
A = Reporting Limit based on signal to noise (EDL)
R = Recovery outside target range
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	19-SR		
Lab Sample ID	20279949014		
Filename	U230625B_12		
Injected By	JRH		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 16:20
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230625A_17 & U230625B_16	Extracted	06/15/2023 12:00
Method Blank ID	BLANK-106861	Analyzed	06/25/2023 23:11

Native Isomers	Conc pg/L	EMPC pg/L	MDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	2.0		2,3,7,8-TCDF-13C	2.00	80
Total TCDF	ND	-----	2.0		2,3,7,8-TCDD-13C	2.00	72
					1,2,3,7,8-PeCDF-13C	2.00	81
2,3,7,8-TCDD	ND	-----	2.1		2,3,4,7,8-PeCDF-13C	2.00	79
Total TCDD	ND	-----	2.1		1,2,3,7,8-PeCDD-13C	2.00	83
					1,2,3,4,7,8-HxCDF-13C	2.00	80
1,2,3,7,8-PeCDF	ND	-----	2.4		1,2,3,6,7,8-HxCDF-13C	2.00	77
2,3,4,7,8-PeCDF	ND	-----	1.8		2,3,4,6,7,8-HxCDF-13C	2.00	76
Total PeCDF	ND	-----	1.8		1,2,3,7,8,9-HxCDF-13C	2.00	72
					1,2,3,4,7,8-HxCDD-13C	2.00	76
1,2,3,7,8-PeCDD	ND	-----	2.0		1,2,3,6,7,8-HxCDD-13C	2.00	83
Total PeCDD	ND	-----	2.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	60
					1,2,3,4,7,8,9-HpCDF-13C	2.00	55
1,2,3,4,7,8-HxCDF	ND	-----	4.8		1,2,3,4,6,7,8-HpCDD-13C	2.00	68
1,2,3,6,7,8-HxCDF	ND	-----	4.2		OCDD-13C	4.00	46
2,3,4,6,7,8-HxCDF	ND	-----	4.1				
1,2,3,7,8,9-HxCDF	ND	-----	4.4		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	4.1		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	3.5		2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	ND	-----	4.3				
1,2,3,7,8,9-HxCDD	ND	-----	5.2				
Total HxCDD	ND	-----	3.5				
1,2,3,4,6,7,8-HpCDF	ND	-----	4.8	A	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	5.4	A	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	4.8		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	5.4	A			
Total HpCDD	ND	-----	5.4				
OCDF	ND	-----	13	A			
OCDD	ND	-----	11				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

A = Reporting Limit based on signal to noise (EDL)

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	31-DR		
Lab Sample ID	20279949015		
Filename	U230625B_13		
Injected By	JRH		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 09:12
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230625A_17 & U230625B_16	Extracted	06/15/2023 12:00
Method Blank ID	BLANK-106861	Analyzed	06/25/2023 23:57

Native Isomers	Conc pg/L	EMPC pg/L	MDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	2.0		2,3,7,8-TCDF-13C	2.00	80
Total TCDF	ND	-----	2.0		2,3,7,8-TCDD-13C	2.00	76
					1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	ND	-----	2.1		2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD	ND	-----	2.1		1,2,3,7,8-PeCDD-13C	2.00	83
					1,2,3,4,7,8-HxCDF-13C	2.00	81
1,2,3,7,8-PeCDF	ND	-----	2.4		1,2,3,6,7,8-HxCDF-13C	2.00	62
2,3,4,7,8-PeCDF	ND	-----	1.8		2,3,4,6,7,8-HxCDF-13C	2.00	72
Total PeCDF	ND	-----	1.8		1,2,3,7,8,9-HxCDF-13C	2.00	76
					1,2,3,4,7,8-HxCDD-13C	2.00	70
1,2,3,7,8-PeCDD	ND	-----	2.0		1,2,3,6,7,8-HxCDD-13C	2.00	83
Total PeCDD	ND	-----	2.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	58
					1,2,3,4,7,8,9-HpCDF-13C	2.00	51
1,2,3,4,7,8-HxCDF	ND	-----	4.8		1,2,3,4,6,7,8-HpCDD-13C	2.00	65
1,2,3,6,7,8-HxCDF	ND	-----	4.3		OCDD-13C	4.00	46
2,3,4,6,7,8-HxCDF	ND	-----	4.1				
1,2,3,7,8,9-HxCDF	ND	-----	4.5		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	4.1		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	3.5		2,3,7,8-TCDD-37Cl4	0.20	81
1,2,3,6,7,8-HxCDD	ND	-----	4.3				
1,2,3,7,8,9-HxCDD	ND	-----	5.3				
Total HxCDD	6.8	-----	3.5	J			
1,2,3,4,6,7,8-HpCDF	ND	-----	4.2		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	5.9	A	Equivalence: 0.100 pg/L		
Total HpCDF	ND	-----	4.2		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	7.7	-----	4.1	J			
Total HpCDD	7.7	-----	4.1	J			
OCDF	ND	-----	9.9				
OCDD	76	-----	11	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
A = Reporting Limit based on signal to noise (EDL)

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	31-IR		
Lab Sample ID	20279949016		
Filename	U230625B_14		
Injected By	JRH		
Total Amount Extracted	1020 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 10:00
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230625A_17 & U230625B_16	Extracted	06/15/2023 12:00
Method Blank ID	BLANK-106861	Analyzed	06/26/2023 00:44

Native Isomers	Conc pg/L	EMPC pg/L	MDL pg/L		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	2.0		2,3,7,8-TCDF-13C	2.00	74	
Total TCDF	ND	-----	2.0		2,3,7,8-TCDD-13C	2.00	70	
					1,2,3,7,8-PeCDF-13C	2.00	68	
2,3,7,8-TCDD	ND	-----	2.2		2,3,4,7,8-PeCDF-13C	2.00	69	
Total TCDD	ND	-----	2.2		1,2,3,7,8-PeCDD-13C	2.00	74	
					1,2,3,4,7,8-HxCDF-13C	2.00	67	
1,2,3,7,8-PeCDF	ND	-----	2.5		1,2,3,6,7,8-HxCDF-13C	2.00	53	
2,3,4,7,8-PeCDF	1.9	-----	1.8	J	2,3,4,6,7,8-HxCDF-13C	2.00	72	
Total PeCDF	1.9	-----	1.8	J	1,2,3,7,8,9-HxCDF-13C	2.00	67	
					1,2,3,4,7,8-HxCDD-13C	2.00	70	
1,2,3,7,8-PeCDD	ND	-----	2.0		1,2,3,6,7,8-HxCDD-13C	2.00	74	
Total PeCDD	ND	-----	2.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	54	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	39	R
1,2,3,4,7,8-HxCDF	ND	-----	4.9		1,2,3,4,6,7,8-HpCDD-13C	2.00	58	
1,2,3,6,7,8-HxCDF	ND	-----	4.3		OCDD-13C	4.00	41	
2,3,4,6,7,8-HxCDF	ND	-----	4.2					
1,2,3,7,8,9-HxCDF	ND	-----	4.5		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	ND	-----	4.2		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	ND	-----	3.5		2,3,7,8-TCDD-37Cl4	0.20	80	
1,2,3,6,7,8-HxCDD	ND	-----	4.4					
1,2,3,7,8,9-HxCDD	ND	-----	5.3					
Total HxCDD	ND	-----	3.5					
1,2,3,4,6,7,8-HpCDF	ND	-----	6.8	A	Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	9.6	A	Equivalence: 0.59 pg/L			
Total HpCDF	ND	-----	6.8		(Lower-bound - Using 2005 WHO Factors)			
1,2,3,4,6,7,8-HpCDD	ND	-----	4.2					
Total HpCDD	4.3	-----	4.2	J				
OCDF	ND	-----	10	A				
OCDD	26	-----	11	J				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
A = Reporting Limit based on signal to noise (EDL)
R = Recovery outside target range

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	32-I		
Lab Sample ID	20279949017		
Filename	U230625B_15		
Injected By	JRH		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 14:45
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230625A_17 & U230625B_16	Extracted	06/15/2023 12:00
Method Blank ID	BLANK-106861	Analyzed	06/26/2023 01:30

Native Isomers	Conc pg/L	EMPC pg/L	MDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	1.9		2,3,7,8-TCDF-13C	2.00	80
Total TCDF	ND	-----	1.9		2,3,7,8-TCDD-13C	2.00	75
					1,2,3,7,8-PeCDF-13C	2.00	80
2,3,7,8-TCDD	ND	-----	2.1		2,3,4,7,8-PeCDF-13C	2.00	77
Total TCDD	ND	-----	2.1		1,2,3,7,8-PeCDD-13C	2.00	84
					1,2,3,4,7,8-HxCDF-13C	2.00	90
1,2,3,7,8-PeCDF	ND	-----	2.4		1,2,3,6,7,8-HxCDF-13C	2.00	73
2,3,4,7,8-PeCDF	ND	-----	1.8		2,3,4,6,7,8-HxCDF-13C	2.00	88
Total PeCDF	ND	-----	1.8		1,2,3,7,8,9-HxCDF-13C	2.00	81
					1,2,3,4,7,8-HxCDD-13C	2.00	82
1,2,3,7,8-PeCDD	ND	-----	2.0		1,2,3,6,7,8-HxCDD-13C	2.00	90
Total PeCDD	ND	-----	2.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	68
					1,2,3,4,7,8,9-HpCDF-13C	2.00	55
1,2,3,4,7,8-HxCDF	ND	-----	4.8		1,2,3,4,6,7,8-HpCDD-13C	2.00	75
1,2,3,6,7,8-HxCDF	ND	-----	4.2		OCDD-13C	4.00	57
2,3,4,6,7,8-HxCDF	ND	-----	4.1				
1,2,3,7,8,9-HxCDF	ND	-----	4.4		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	4.1		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	4.5	A	2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	ND	-----	4.3				
1,2,3,7,8,9-HxCDD	ND	-----	5.2				
Total HxCDD	ND	-----	4.3				
1,2,3,4,6,7,8-HpCDF	ND	-----	6.3	A	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	9.1	A	Equivalence: 0.081 pg/L		
Total HpCDF	ND	-----	6.3		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	6.5	-----	4.1	J			
Total HpCDD	29	-----	4.1	J			
OCDF	ND	-----	9.8				
OCDD	-----	55	11	IJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
A = Reporting Limit based on signal to noise (EDL)
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	32-S		
Lab Sample ID	20279949018		
Filename	L230626B_15		
Injected By	SMT		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 13:15
ICAL ID	L230613	Received	06/14/2023 09:00
CCal Filename(s)	L230626B_01 & L230626B_22	Extracted	06/15/2023 12:00
Method Blank ID	BLANK-106861	Analyzed	06/26/2023 20:50

Native Isomers	Conc pg/L	EMPC pg/L	MDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	1.9		2,3,7,8-TCDF-13C	2.00	88
Total TCDF	ND	-----	1.9		2,3,7,8-TCDD-13C	2.00	83
					1,2,3,7,8-PeCDF-13C	2.00	68
2,3,7,8-TCDD	ND	-----	2.1		2,3,4,7,8-PeCDF-13C	2.00	90
Total TCDD	ND	-----	2.1		1,2,3,7,8-PeCDD-13C	2.00	90
					1,2,3,4,7,8-HxCDF-13C	2.00	102
1,2,3,7,8-PeCDF	ND	-----	2.4		1,2,3,6,7,8-HxCDF-13C	2.00	50
2,3,4,7,8-PeCDF	ND	-----	1.8		2,3,4,6,7,8-HxCDF-13C	2.00	112
Total PeCDF	ND	-----	1.8		1,2,3,7,8,9-HxCDF-13C	2.00	104
					1,2,3,4,7,8-HxCDD-13C	2.00	111
1,2,3,7,8-PeCDD	ND	-----	2.0		1,2,3,6,7,8-HxCDD-13C	2.00	93
Total PeCDD	ND	-----	2.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	92
					1,2,3,4,7,8,9-HpCDF-13C	2.00	57
1,2,3,4,7,8-HxCDF	ND	-----	4.8		1,2,3,4,6,7,8-HpCDD-13C	2.00	101
1,2,3,6,7,8-HxCDF	ND	-----	4.2		OCDD-13C	4.00	75
2,3,4,6,7,8-HxCDF	ND	-----	4.1				
1,2,3,7,8,9-HxCDF	ND	-----	4.4		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	4.1		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	3.4		2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	ND	-----	4.3				
1,2,3,7,8,9-HxCDD	ND	-----	5.2				
Total HxCDD	ND	-----	3.4				
1,2,3,4,6,7,8-HpCDF	ND	-----	4.1		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	4.1		Equivalence: 0.019 pg/L		
Total HpCDF	ND	-----	4.1		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	5.2	A			
Total HpCDD	25	-----	5.2	J			
OCDF	ND	-----	9.8				
OCDD	64	-----	11	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
A = Reporting Limit based on signal to noise (EDL)

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	Equipment Blank 1		
Lab Sample ID	20279949019		
Filename	U230701A_03		
Injected By	JRH		
Total Amount Extracted	1000 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 09:15
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_18 & U230701A_16	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	07/01/2023 09:13

Native Isomers	Conc pg/L	EMPC pg/L	MDL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	2.0	2,3,7,8-TCDF-13C	2.00	80
Total TCDF	ND	-----	2.0	2,3,7,8-TCDD-13C	2.00	73
				1,2,3,7,8-PeCDF-13C	2.00	101
2,3,7,8-TCDD	ND	-----	2.2	2,3,4,7,8-PeCDF-13C	2.00	101
Total TCDD	ND	-----	2.2	1,2,3,7,8-PeCDD-13C	2.00	107
				1,2,3,4,7,8-HxCDF-13C	2.00	79
1,2,3,7,8-PeCDF	ND	-----	2.5	1,2,3,6,7,8-HxCDF-13C	2.00	77
2,3,4,7,8-PeCDF	ND	-----	1.8	2,3,4,6,7,8-HxCDF-13C	2.00	79
Total PeCDF	ND	-----	1.8	1,2,3,7,8,9-HxCDF-13C	2.00	83
				1,2,3,4,7,8-HxCDD-13C	2.00	74
1,2,3,7,8-PeCDD	ND	-----	2.1	1,2,3,6,7,8-HxCDD-13C	2.00	79
Total PeCDD	ND	-----	2.1	1,2,3,4,6,7,8-HpCDF-13C	2.00	66
				1,2,3,4,7,8,9-HpCDF-13C	2.00	70
1,2,3,4,7,8-HxCDF	ND	-----	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	74
1,2,3,6,7,8-HxCDF	ND	-----	4.4	OCDD-13C	4.00	72
2,3,4,6,7,8-HxCDF	ND	-----	4.3			
1,2,3,7,8,9-HxCDF	ND	-----	4.6	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	4.3	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	3.6	2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	ND	-----	4.5			
1,2,3,7,8,9-HxCDD	ND	-----	5.4			
Total HxCDD	ND	-----	3.6			
1,2,3,4,6,7,8-HpCDF	ND	-----	4.3	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	4.2	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	4.2	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	4.3			
Total HpCDD	ND	-----	4.3			
OCDF	ND	-----	10			
OCDD	ND	-----	11			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	Equipment Blank 2		
Lab Sample ID	20279949020		
Filename	U230701A_04		
Injected By	JRH		
Total Amount Extracted	1060 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 17:10
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_18 & U230701A_16	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	07/01/2023 10:00

Native Isomers	Conc pg/L	EMPC pg/L	MDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	1.9		2,3,7,8-TCDF-13C	2.00	63
Total TCDF	ND	-----	1.9		2,3,7,8-TCDD-13C	2.00	55
					1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	ND	-----	2.6	A	2,3,4,7,8-PeCDF-13C	2.00	79
Total TCDD	ND	-----	2.6		1,2,3,7,8-PeCDD-13C	2.00	86
					1,2,3,4,7,8-HxCDF-13C	2.00	63
1,2,3,7,8-PeCDF	ND	-----	2.4		1,2,3,6,7,8-HxCDF-13C	2.00	57
2,3,4,7,8-PeCDF	ND	-----	1.7		2,3,4,6,7,8-HxCDF-13C	2.00	60
Total PeCDF	ND	-----	1.7		1,2,3,7,8,9-HxCDF-13C	2.00	62
					1,2,3,4,7,8-HxCDD-13C	2.00	53
1,2,3,7,8-PeCDD	ND	-----	1.9		1,2,3,6,7,8-HxCDD-13C	2.00	63
Total PeCDD	ND	-----	1.9		1,2,3,4,6,7,8-HpCDF-13C	2.00	46
					1,2,3,4,7,8,9-HpCDF-13C	2.00	45
1,2,3,4,7,8-HxCDF	ND	-----	4.7		1,2,3,4,6,7,8-HpCDD-13C	2.00	49
1,2,3,6,7,8-HxCDF	ND	-----	4.1		OCDD-13C	4.00	50
2,3,4,6,7,8-HxCDF	ND	-----	4.0				
1,2,3,7,8,9-HxCDF	ND	-----	4.3		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	4.0		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	3.4		2,3,7,8-TCDD-37Cl4	0.20	76
1,2,3,6,7,8-HxCDD	ND	-----	4.2				
1,2,3,7,8,9-HxCDD	ND	-----	5.1				
Total HxCDD	ND	-----	3.4				
1,2,3,4,6,7,8-HpCDF	ND	-----	4.0		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	4.0		Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	4.0		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	4.0				
Total HpCDD	ND	-----	4.0				
OCDF	ND	-----	9.6				
OCDD	ND	-----	10				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

A = Reporting Limit based on signal to noise (EDL)

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	Equipment Blank 3		
Lab Sample ID	20279949021		
Filename	U230701A_05		
Injected By	JRH		
Total Amount Extracted	1020 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 08:23
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_18 & U230701A_16	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	07/01/2023 10:46

Native Isomers	Conc pg/L	EMPC pg/L	MDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	2.0		2,3,7,8-TCDF-13C	2.00	70
Total TCDF	ND	-----	2.0		2,3,7,8-TCDD-13C	2.00	61
					1,2,3,7,8-PeCDF-13C	2.00	82
2,3,7,8-TCDD	ND	-----	2.2		2,3,4,7,8-PeCDF-13C	2.00	85
Total TCDD	ND	-----	2.2		1,2,3,7,8-PeCDD-13C	2.00	89
					1,2,3,4,7,8-HxCDF-13C	2.00	64
1,2,3,7,8-PeCDF	ND	-----	2.5		1,2,3,6,7,8-HxCDF-13C	2.00	64
2,3,4,7,8-PeCDF	ND	-----	1.8		2,3,4,6,7,8-HxCDF-13C	2.00	63
Total PeCDF	ND	-----	1.8		1,2,3,7,8,9-HxCDF-13C	2.00	64
					1,2,3,4,7,8-HxCDD-13C	2.00	59
1,2,3,7,8-PeCDD	ND	-----	2.0		1,2,3,6,7,8-HxCDD-13C	2.00	65
Total PeCDD	ND	-----	2.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	48
					1,2,3,4,7,8,9-HpCDF-13C	2.00	51
1,2,3,4,7,8-HxCDF	ND	-----	4.9		1,2,3,4,6,7,8-HpCDD-13C	2.00	55
1,2,3,6,7,8-HxCDF	ND	-----	4.3		OCDD-13C	4.00	56
2,3,4,6,7,8-HxCDF	ND	-----	4.2				
1,2,3,7,8,9-HxCDF	ND	-----	4.5		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	4.2		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	3.5		2,3,7,8-TCDD-37Cl4	0.20	75
1,2,3,6,7,8-HxCDD	ND	-----	4.4				
1,2,3,7,8,9-HxCDD	ND	-----	5.3				
Total HxCDD	ND	-----	3.5				
1,2,3,4,6,7,8-HpCDF	ND	-----	4.2		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	4.2	A	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	4.2		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	4.2				
Total HpCDD	ND	-----	4.2				
OCDF	ND	-----	10				
OCDD	ND	-----	11				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

A = Reporting Limit based on signal to noise (EDL)

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	Equipment Blank 4		
Lab Sample ID	20279949022		
Filename	U230701A_06		
Injected By	JRH		
Total Amount Extracted	1060 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 08:23
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_18 & U230701A_16	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	07/01/2023 11:32

Native Isomers	Conc pg/L	EMPC pg/L	MDL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	1.9	2,3,7,8-TCDF-13C	2.00	69
Total TCDF	ND	-----	1.9	2,3,7,8-TCDD-13C	2.00	58
				1,2,3,7,8-PeCDF-13C	2.00	84
2,3,7,8-TCDD	ND	-----	2.1	2,3,4,7,8-PeCDF-13C	2.00	83
Total TCDD	ND	-----	2.1	1,2,3,7,8-PeCDD-13C	2.00	88
				1,2,3,4,7,8-HxCDF-13C	2.00	60
1,2,3,7,8-PeCDF	ND	-----	2.4	1,2,3,6,7,8-HxCDF-13C	2.00	59
2,3,4,7,8-PeCDF	ND	-----	1.7	2,3,4,6,7,8-HxCDF-13C	2.00	60
Total PeCDF	ND	-----	1.7	1,2,3,7,8,9-HxCDF-13C	2.00	62
				1,2,3,4,7,8-HxCDD-13C	2.00	53
1,2,3,7,8-PeCDD	ND	-----	1.9	1,2,3,6,7,8-HxCDD-13C	2.00	62
Total PeCDD	ND	-----	1.9	1,2,3,4,6,7,8-HpCDF-13C	2.00	46
				1,2,3,4,7,8,9-HpCDF-13C	2.00	44
1,2,3,4,7,8-HxCDF	ND	-----	4.7	1,2,3,4,6,7,8-HpCDD-13C	2.00	50
1,2,3,6,7,8-HxCDF	ND	-----	4.1	OCDD-13C	4.00	48
2,3,4,6,7,8-HxCDF	ND	-----	4.0			
1,2,3,7,8,9-HxCDF	ND	-----	4.3	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	4.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	3.4	2,3,7,8-TCDD-37Cl4	0.20	71
1,2,3,6,7,8-HxCDD	ND	-----	4.2			
1,2,3,7,8,9-HxCDD	ND	-----	5.1			
Total HxCDD	ND	-----	3.4			
1,2,3,4,6,7,8-HpCDF	ND	-----	4.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	4.0	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	4.0	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	4.0			
Total HpCDD	ND	-----	4.0			
OCDF	ND	-----	9.6			
OCDD	ND	-----	10			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Tel: 612-607-1700
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	Field Dup 1		
Lab Sample ID	20279949025		
Filename	U230701A_07		
Injected By	JRH		
Total Amount Extracted	1010 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 09:30
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_18 & U230701A_16	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	07/01/2023 12:19

Native Isomers	Conc pg/L	EMPC pg/L	MDL pg/L		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	2.0		2,3,7,8-TCDF-13C	2.00	56	
Total TCDF	ND	-----	2.0		2,3,7,8-TCDD-13C	2.00	44	
					1,2,3,7,8-PeCDF-13C	2.00	65	
2,3,7,8-TCDD	ND	-----	2.2		2,3,4,7,8-PeCDF-13C	2.00	66	
Total TCDD	ND	-----	2.2		1,2,3,7,8-PeCDD-13C	2.00	73	
					1,2,3,4,7,8-HxCDF-13C	2.00	52	
1,2,3,7,8-PeCDF	ND	-----	2.5		1,2,3,6,7,8-HxCDF-13C	2.00	51	
2,3,4,7,8-PeCDF	ND	-----	1.8		2,3,4,6,7,8-HxCDF-13C	2.00	52	
Total PeCDF	ND	-----	1.8		1,2,3,7,8,9-HxCDF-13C	2.00	57	
					1,2,3,4,7,8-HxCDD-13C	2.00	47	
1,2,3,7,8-PeCDD	ND	-----	2.1		1,2,3,6,7,8-HxCDD-13C	2.00	52	
Total PeCDD	ND	-----	2.1		1,2,3,4,6,7,8-HpCDF-13C	2.00	39	R
					1,2,3,4,7,8,9-HpCDF-13C	2.00	42	
1,2,3,4,7,8-HxCDF	ND	-----	5.0		1,2,3,4,6,7,8-HpCDD-13C	2.00	46	
1,2,3,6,7,8-HxCDF	ND	-----	4.4		OCDD-13C	4.00	45	
2,3,4,6,7,8-HxCDF	ND	-----	4.3					
1,2,3,7,8,9-HxCDF	ND	-----	4.6		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	ND	-----	4.3		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	ND	-----	3.6		2,3,7,8-TCDD-37Cl4	0.20	56	
1,2,3,6,7,8-HxCDD	ND	-----	4.5					
1,2,3,7,8,9-HxCDD	ND	-----	5.4					
Total HxCDD	4.2	-----	3.6	J				
1,2,3,4,6,7,8-HpCDF	ND	-----	4.3		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	4.2	A	Equivalence: 0.015 pg/L			
Total HpCDF	ND	-----	4.2		(Lower-bound - Using 2005 WHO Factors)			
1,2,3,4,6,7,8-HpCDD	ND	-----	4.2					
Total HpCDD	9.0	-----	4.2	J				
OCDF	ND	-----	10					
OCDD	51	-----	11	J				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
A = Reporting Limit based on signal to noise (EDL)
R = Recovery outside target range

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414

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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	Field Dup 2		
Lab Sample ID	20279949026		
Filename	U230701A_08		
Injected By	JRH		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 09:30
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_18 & U230701A_16	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	07/01/2023 13:05

Native Isomers	Conc pg/L	EMPC pg/L	MDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	1.9		2,3,7,8-TCDF-13C	2.00	73
Total TCDF	ND	-----	1.9		2,3,7,8-TCDD-13C	2.00	58
					1,2,3,7,8-PeCDF-13C	2.00	89
2,3,7,8-TCDD	ND	-----	2.1		2,3,4,7,8-PeCDF-13C	2.00	90
Total TCDD	ND	-----	2.1		1,2,3,7,8-PeCDD-13C	2.00	102
					1,2,3,4,7,8-HxCDF-13C	2.00	72
1,2,3,7,8-PeCDF	ND	-----	2.4		1,2,3,6,7,8-HxCDF-13C	2.00	71
2,3,4,7,8-PeCDF	ND	-----	1.8		2,3,4,6,7,8-HxCDF-13C	2.00	71
Total PeCDF	ND	-----	1.8		1,2,3,7,8,9-HxCDF-13C	2.00	74
					1,2,3,4,7,8-HxCDD-13C	2.00	66
1,2,3,7,8-PeCDD	ND	-----	2.0		1,2,3,6,7,8-HxCDD-13C	2.00	72
Total PeCDD	ND	-----	2.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	54
					1,2,3,4,7,8,9-HpCDF-13C	2.00	58
1,2,3,4,7,8-HxCDF	ND	-----	4.8		1,2,3,4,6,7,8-HpCDD-13C	2.00	62
1,2,3,6,7,8-HxCDF	ND	-----	4.2		OCDD-13C	4.00	61
2,3,4,6,7,8-HxCDF	ND	-----	4.1				
1,2,3,7,8,9-HxCDF	ND	-----	4.4		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	4.1		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	3.4		2,3,7,8-TCDD-37Cl4	0.20	70
1,2,3,6,7,8-HxCDD	ND	-----	4.3				
1,2,3,7,8,9-HxCDD	ND	-----	5.2				
Total HxCDD	ND	-----	3.4				
1,2,3,4,6,7,8-HpCDF	ND	-----	4.1		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	4.1		Equivalence: 0.13 pg/L		
Total HpCDF	ND	-----	4.1		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	11	4.1	IJ			
Total HpCDD	ND	-----	4.1				
OCDF	ND	-----	9.8				
OCDD	58	-----	11	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414

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Method 8290 Blank Analysis Results

Lab Sample Name	DFBLKWI		
Lab Sample ID	BLANK-106861	Matrix	Water
Filename	U230620A_04	Dilution	NA
Total Amount Extracted	1020 mL	Extracted	06/15/2023 12:00
ICAL ID	U230524	Analyzed	06/20/2023 14:12
CCal Filename(s)	U230619B_17 & U230620A_18	Injected By	SMT

Native Isomers	Conc pg/L	EMPC pg/L	MDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	2.0		2,3,7,8-TCDF-13C	2.00	70
Total TCDF	ND	-----	2.0		2,3,7,8-TCDD-13C	2.00	66
					1,2,3,7,8-PeCDF-13C	2.00	72
2,3,7,8-TCDD	ND	-----	2.1		2,3,4,7,8-PeCDF-13C	2.00	68
Total TCDD	ND	-----	2.1		1,2,3,7,8-PeCDD-13C	2.00	73
					1,2,3,4,7,8-HxCDF-13C	2.00	77
1,2,3,7,8-PeCDF	ND	-----	2.4		1,2,3,6,7,8-HxCDF-13C	2.00	64
2,3,4,7,8-PeCDF	ND	-----	1.8		2,3,4,6,7,8-HxCDF-13C	2.00	73
Total PeCDF	ND	-----	1.8		1,2,3,7,8,9-HxCDF-13C	2.00	72
					1,2,3,4,7,8-HxCDD-13C	2.00	72
1,2,3,7,8-PeCDD	ND	-----	2.0		1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD	ND	-----	2.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	56
					1,2,3,4,7,8,9-HpCDF-13C	2.00	55
1,2,3,4,7,8-HxCDF	ND	-----	4.9		1,2,3,4,6,7,8-HpCDD-13C	2.00	63
1,2,3,6,7,8-HxCDF	ND	-----	4.3		OCDD-13C	4.00	53
2,3,4,6,7,8-HxCDF	ND	-----	4.2				
1,2,3,7,8,9-HxCDF	ND	-----	4.5		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	4.2		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	3.5		2,3,7,8-TCDD-37Cl4	0.20	76
1,2,3,6,7,8-HxCDD	ND	-----	4.4				
1,2,3,7,8,9-HxCDD	ND	-----	5.3				
Total HxCDD	ND	-----	3.5				
1,2,3,4,6,7,8-HpCDF	ND	-----	4.2		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	4.1		Equivalence: 0.0037 pg/L		
Total HpCDF	ND	-----	4.1		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	4.2				
Total HpCDD	ND	-----	4.2				
OCDF	ND	-----	10.0				
OCDD	-----	12	11	IJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

J = Estimated value
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

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Method 8290 Blank Analysis Results

Lab Sample Name	DFBLKWJ		
Lab Sample ID	BLANK-106864	Matrix	Water
Filename	U230627A_08	Dilution	NA
Total Amount Extracted	984 mL	Extracted	06/15/2023 15:29
ICAL ID	U230524	Analyzed	06/27/2023 18:04
CCal Filename(s)	U230627A_02 & U230627A_18	Injected By	SMT

Native Isomers	Conc pg/L	EMPC pg/L	MDL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	2.1	2,3,7,8-TCDF-13C	2.00	67
Total TCDF	ND	-----	2.1	2,3,7,8-TCDD-13C	2.00	60
				1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	ND	-----	2.2	2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD	ND	-----	2.2	1,2,3,7,8-PeCDD-13C	2.00	84
				1,2,3,4,7,8-HxCDF-13C	2.00	63
1,2,3,7,8-PeCDF	ND	-----	2.5	1,2,3,6,7,8-HxCDF-13C	2.00	60
2,3,4,7,8-PeCDF	ND	-----	1.9	2,3,4,6,7,8-HxCDF-13C	2.00	61
Total PeCDF	ND	-----	1.9	1,2,3,7,8,9-HxCDF-13C	2.00	63
				1,2,3,4,7,8-HxCDD-13C	2.00	62
1,2,3,7,8-PeCDD	ND	-----	2.1	1,2,3,6,7,8-HxCDD-13C	2.00	70
Total PeCDD	ND	-----	2.1	1,2,3,4,6,7,8-HpCDF-13C	2.00	58
				1,2,3,4,7,8,9-HpCDF-13C	2.00	62
1,2,3,4,7,8-HxCDF	ND	-----	5.1	1,2,3,4,6,7,8-HpCDD-13C	2.00	70
1,2,3,6,7,8-HxCDF	ND	-----	4.5	OCDD-13C	4.00	65
2,3,4,6,7,8-HxCDF	ND	-----	4.4			
1,2,3,7,8,9-HxCDF	ND	-----	4.7	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	4.4	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	3.6	2,3,7,8-TCDD-37Cl4	0.20	67
1,2,3,6,7,8-HxCDD	ND	-----	4.6			
1,2,3,7,8,9-HxCDD	ND	-----	5.5			
Total HxCDD	ND	-----	3.6			
1,2,3,4,6,7,8-HpCDF	ND	-----	4.4	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	4.3	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	4.3	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	4.3			
Total HpCDD	ND	-----	4.3			
OCDF	ND	-----	10			
OCDD	ND	-----	11			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
MDL = Method Detection Limit

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-106862		
Filename	U230620A_01	Matrix	Water
Total Amount Extracted	1030 mL	Dilution	NA
ICAL ID	U230524	Extracted	06/15/2023 12:00
CCal Filename(s)	U230619B_17 & U230620A_18	Analyzed	06/20/2023 11:55
Method Blank ID	BLANK-106861	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.22	110	2,3,7,8-TCDF-13C	2.0	72
Total TCDF				2,3,7,8-TCDD-13C	2.0	69
				1,2,3,7,8-PeCDF-13C	2.0	78
2,3,7,8-TCDD	0.20	0.23	115	2,3,4,7,8-PeCDF-13C	2.0	71
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	76
				1,2,3,4,7,8-HxCDF-13C	2.0	74
1,2,3,7,8-PeCDF	1.0	1.1	107	1,2,3,6,7,8-HxCDF-13C	2.0	66
2,3,4,7,8-PeCDF	1.0	1.1	112	2,3,4,6,7,8-HxCDF-13C	2.0	74
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	73
				1,2,3,4,7,8-HxCDD-13C	2.0	64
1,2,3,7,8-PeCDD	1.0	0.95	95	1,2,3,6,7,8-HxCDD-13C	2.0	79
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	58
				1,2,3,4,7,8,9-HpCDF-13C	2.0	56
1,2,3,4,7,8-HxCDF	1.0	0.96	96	1,2,3,4,6,7,8-HpCDD-13C	2.0	61
1,2,3,6,7,8-HxCDF	1.0	1.0	102	OCDD-13C	4.0	53
2,3,4,6,7,8-HxCDF	1.0	1.0	102			
1,2,3,7,8,9-HxCDF	1.0	1.1	106	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.0	102	2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	1.0	0.97	97			
1,2,3,7,8,9-HxCDD	1.0	1.0	100			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	0.77	77			
1,2,3,4,7,8,9-HpCDF	1.0	0.77	77			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.66	66 R			
Total HpCDD						
OCDF	2.0	1.2	60 R			
OCDD	2.0	1.1	54 R			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-106865		
Filename	U230627A_03	Matrix	Water
Total Amount Extracted	985 mL	Dilution	NA
ICAL ID	U230524	Extracted	06/15/2023 15:29
CCal Filename(s)	U230627A_02 & U230627A_18	Analyzed	06/27/2023 14:13
Method Blank ID	BLANK-106864	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.23	115	2,3,7,8-TCDF-13C	2.0	51
Total TCDF				2,3,7,8-TCDD-13C	2.0	45
				1,2,3,7,8-PeCDF-13C	2.0	62
2,3,7,8-TCDD	0.20	0.23	116	2,3,4,7,8-PeCDF-13C	2.0	62
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	68
				1,2,3,4,7,8-HxCDF-13C	2.0	56
1,2,3,7,8-PeCDF	1.0	1.1	106	1,2,3,6,7,8-HxCDF-13C	2.0	55
2,3,4,7,8-PeCDF	1.0	1.1	112	2,3,4,6,7,8-HxCDF-13C	2.0	53
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	53
				1,2,3,4,7,8-HxCDD-13C	2.0	53
1,2,3,7,8-PeCDD	1.0	1.0	103	1,2,3,6,7,8-HxCDD-13C	2.0	57
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	49
				1,2,3,4,7,8,9-HpCDF-13C	2.0	51
1,2,3,4,7,8-HxCDF	1.0	1.1	106	1,2,3,4,6,7,8-HpCDD-13C	2.0	60
1,2,3,6,7,8-HxCDF	1.0	1.1	115	OCDD-13C	4.0	53
2,3,4,6,7,8-HxCDF	1.0	1.1	115			
1,2,3,7,8,9-HxCDF	1.0	1.2	116	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.1	112	2,3,7,8-TCDD-37Cl4	0.20	71
1,2,3,6,7,8-HxCDD	1.0	1.1	107			
1,2,3,7,8,9-HxCDD	1.0	1.1	115			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.1	111			
1,2,3,4,7,8,9-HpCDF	1.0	1.2	118			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	1.0	103			
Total HpCDD						
OCDF	2.0	2.4	121			
OCDD	2.0	2.4	122			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCSD-106863		
Filename	U230620A_02	Matrix	Water
Total Amount Extracted	1010 mL	Dilution	NA
ICAL ID	U230524	Extracted	06/15/2023 12:00
CCal Filename(s)	U230619B_17 & U230620A_18	Analyzed	06/20/2023 12:40
Method Blank ID	BLANK-106861	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.24	118	2,3,7,8-TCDF-13C	2.0	67
Total TCDF				2,3,7,8-TCDD-13C	2.0	64
				1,2,3,7,8-PeCDF-13C	2.0	74
2,3,7,8-TCDD	0.20	0.24	118	2,3,4,7,8-PeCDF-13C	2.0	74
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	78
				1,2,3,4,7,8-HxCDF-13C	2.0	67
1,2,3,7,8-PeCDF	1.0	1.1	110	1,2,3,6,7,8-HxCDF-13C	2.0	48
2,3,4,7,8-PeCDF	1.0	1.1	112	2,3,4,6,7,8-HxCDF-13C	2.0	63
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	68
				1,2,3,4,7,8-HxCDD-13C	2.0	63
1,2,3,7,8-PeCDD	1.0	0.95	95	1,2,3,6,7,8-HxCDD-13C	2.0	72
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	52
				1,2,3,4,7,8,9-HpCDF-13C	2.0	49
1,2,3,4,7,8-HxCDF	1.0	0.96	96	1,2,3,4,6,7,8-HpCDD-13C	2.0	56
1,2,3,6,7,8-HxCDF	1.0	0.95	95	OCDD-13C	4.0	54
2,3,4,6,7,8-HxCDF	1.0	1.1	106			
1,2,3,7,8,9-HxCDF	1.0	1.0	104	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.1	106	2,3,7,8-TCDD-37Cl4	0.20	74
1,2,3,6,7,8-HxCDD	1.0	0.92	92			
1,2,3,7,8,9-HxCDD	1.0	0.96	96			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	0.74	74			
1,2,3,4,7,8,9-HpCDF	1.0	0.72	72			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.62	62 R			
Total HpCDD						
OCDF	2.0	1.1	54 R			
OCDD	2.0	1.1	54 R			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCSD-106866		
Filename	U230627A_04	Matrix	Water
Total Amount Extracted	979 mL	Dilution	NA
ICAL ID	U230524	Extracted	06/15/2023 15:29
CCal Filename(s)	U230627A_02 & U230627A_18	Analyzed	06/27/2023 14:59
Method Blank ID	BLANK-106864	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.21	103	2,3,7,8-TCDF-13C	2.0	14 R
Total TCDF				2,3,7,8-TCDD-13C	2.0	13 R
				1,2,3,7,8-PeCDF-13C	2.0	16 R
2,3,7,8-TCDD	0.20	0.20	100	2,3,4,7,8-PeCDF-13C	2.0	15 R
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	17 R
				1,2,3,4,7,8-HxCDF-13C	2.0	15 R
1,2,3,7,8-PeCDF	1.0	0.95	95	1,2,3,6,7,8-HxCDF-13C	2.0	14 R
2,3,4,7,8-PeCDF	1.0	1.0	101	2,3,4,6,7,8-HxCDF-13C	2.0	14 R
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	14 R
				1,2,3,4,7,8-HxCDD-13C	2.0	14 R
1,2,3,7,8-PeCDD	1.0	0.95	95	1,2,3,6,7,8-HxCDD-13C	2.0	15 R
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	13 R
				1,2,3,4,7,8,9-HpCDF-13C	2.0	14 R
1,2,3,4,7,8-HxCDF	1.0	1.0	100	1,2,3,4,6,7,8-HpCDD-13C	2.0	17 R
1,2,3,6,7,8-HxCDF	1.0	1.0	101	OCDD-13C	4.0	15 R
2,3,4,6,7,8-HxCDF	1.0	1.00	100			
1,2,3,7,8,9-HxCDF	1.0	1.0	103	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.0	104	2,3,7,8-TCDD-37Cl4	0.20	15
1,2,3,6,7,8-HxCDD	1.0	1.0	102			
1,2,3,7,8,9-HxCDD	1.0	1.0	103			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.0	104			
1,2,3,4,7,8,9-HpCDF	1.0	1.0	102			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.92	92			
Total HpCDD						
OCDF	2.0	2.1	106			
OCDD	2.0	2.2	109			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 8290

Spike Recovery Relative Percent Difference (RPD) Results

Client	PACE New Orleans		
Spike 1 ID	LCS-106862	Spike 2 ID	LCSD-106863
Spike 1 Filename	U230620A_01	Spike 2 Filename	U230620A_02

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDF	110	118	7.0
2,3,7,8-TCDD	115	118	2.6
1,2,3,7,8-PeCDF	107	110	2.8
2,3,4,7,8-PeCDF	112	112	0.0
1,2,3,7,8-PeCDD	95	95	0.0
1,2,3,4,7,8-HxCDF	96	96	0.0
1,2,3,6,7,8-HxCDF	102	95	7.1
2,3,4,6,7,8-HxCDF	102	106	3.8
1,2,3,7,8,9-HxCDF	106	104	1.9
1,2,3,4,7,8-HxCDD	102	106	3.8
1,2,3,6,7,8-HxCDD	97	92	5.3
1,2,3,7,8,9-HxCDD	100	96	4.1
1,2,3,4,6,7,8-HpCDF	77	74	4.0
1,2,3,4,7,8,9-HpCDF	77	72	6.7
1,2,3,4,6,7,8-HpCDD	66	62	6.3
OCDF	60	54	10.5
OCDD	54	54	0.0

%REC = Percent Recovered
RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSIS

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Method 8290

Spike Recovery Relative Percent Difference (RPD) Results

Client	PACE New Orleans		
Spike 1 ID	LCS-106865	Spike 2 ID	LCSD-106866
Spike 1 Filename	U230627A_03	Spike 2 Filename	U230627A_04

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDF	115	103	11.0
2,3,7,8-TCDD	116	100	14.8
1,2,3,7,8-PeCDF	106	95	10.9
2,3,4,7,8-PeCDF	112	101	10.3
1,2,3,7,8-PeCDD	103	95	8.1
1,2,3,4,7,8-HxCDF	106	100	5.8
1,2,3,6,7,8-HxCDF	115	101	13.0
2,3,4,6,7,8-HxCDF	115	100	14.0
1,2,3,7,8,9-HxCDF	116	103	11.9
1,2,3,4,7,8-HxCDD	112	104	7.4
1,2,3,6,7,8-HxCDD	107	102	4.8
1,2,3,7,8,9-HxCDD	115	103	11.0
1,2,3,4,6,7,8-HpCDF	111	104	6.5
1,2,3,4,7,8,9-HpCDF	118	102	14.5
1,2,3,4,6,7,8-HpCDD	103	92	11.3
OCDF	121	106	13.2
OCDD	122	109	11.3

%REC = Percent Recovered
RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSIS

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Report Prepared for:

Mary Kathryn Brenner
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REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

Report Information:

Pace Project #: 10657438
Sample Receipt Date: 06/14/2023
Client Project #: 20279949
Client Sub PO #: N/A
State Cert #: 40770

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Scott Unze, your Pace Project Manager.

This report has been reviewed by:

February 27, 2024

Scott Unze, Project Manager
(612) 607-6383
(612) 607-6444 (fax)
scott.unze@pacelabs.com

Report Prepared Date:
February 27, 2024

Report of Laboratory Analysis

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DISCUSSION

This report presents the results from the analyses performed on twenty-four samples submitted by a representative of Pace Analytical Services, LLC. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. The estimated detection limits (EDLs) were based on signal-to-noise measurements. Estimated maximum possible concentration (EMPC) values were treated as positives in the toxic equivalence calculations. This report was revised to report EDLs by client request.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 25-120%. Except for twenty low values, which were flagged "R" on the results tables, the labeled internal standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

Values were flagged "I" where incorrect isotope ratios were obtained. Concentrations below the calibration range were flagged "J" and should be regarded as estimates.

A laboratory method blank was prepared and analyzed with each sample batch as part of our routine quality control procedures. The results show Blank-106861 to contain a trace level of Total HxCDF. This level was below the calibration range of the method. Sample levels similar to the corresponding blank levels were flagged "B" on the results tables and may be, at least partially, attributed to the background.

Laboratory spike samples were also prepared using clean reference matrix that had been fortified with native standard materials. The results showed that the spiked native compounds were recovered at 54-122% with relative percent differences of 0.0-14.8%. The recoveries obtained for HpCDD, OCDF, and OCDD in LCS-106862 and LCSD-106863 were below the 70-130% target range, flagged "R" on the results tables, and may indicate low biases for these congeners in the associated field sample determinations. Matrix spikes were not prepared with the extraction batches.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
		Missouri	10100
A2LA	2926.01	Montana	CERT0092
Alabama	40770	Nebraska	NE-OS-18-06
Alaska-DW	MN00064	Nevada	MN00064
Alaska-UST	17-009	New Hampshire	2081
Arizona	AZ0014	New Jersey	MN002
Arkansas - WW	88-0680	New York	11647
Arkansas-DW	MN00064	North Carolina-	27700
California	2929	North Carolina-	530
Colorado	MN00064	North Dakota	R-036
Connecticut	PH-0256	Ohio-DW	41244
Florida	E87605	Ohio-VAP (170	CL101
Georgia	959	Ohio-VAP (180	CL110
Hawaii	MN00064	Oklahoma	9507
Idaho	MN00064	Oregon-Primary	MN300001
Illinois	200011	Oregon-Second	MN200001
Indiana	C-MN-01	Pennsylvania	68-00563
Iowa	368	Puerto Rico	MN00064
Kansas	E-10167	South Carolina	74003
Kentucky-DW	90062	Tennessee	TN02818
Kentucky-WW	90062	Texas	T104704192
Louisiana-DEQ	AI-84596	Utah	MN00064
Louisiana-DW	MN00064	Vermont	VT-027053137
Maine	MN00064	Virginia	460163
Maryland	322	Washington	C486
Michigan	9909	West Virginia-D	382
Minnesota	027-053-137	West Virginia-D	9952C
Minnesota-Ag	via MN 027-053	Wisconsin	999407970
Minnesota-Petr	1240	Wyoming-UST	via A2LA 2926.
Mississippi	MN00064		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Appendix A

Sample Management

REPORT OF LABORATORY ANALYSIS

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: AL
Cert. Needed: ☐ Yes ☐ No

Workorder: 20279949 **Workorder Name:** Alabama Wood Treating 06/12/23

Owner Received Date: 6/13/2023 **Results Requested By:** 6/27/2023

Report To	Subcontract To
Mary Kathryn Brenner Pace Analytical Mobile Labs 4320 Midmost Dr Mobile, AL 36609 USA Phone 251-344-9106	Pace Analytical Minneapolis 1700 Elm Street SE Minneapolis, MN 55414 Phone (612)607-1700

Requested Analysis

WO#: 10657438

10657438

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Subbed work within PASI DXM	Dioxin Calculations	LAB USE ONLY
1	7-D	PS	6/12/2023 08:23	20279949001	Water	1	X		W1
2	7-IR	PS	6/12/2023 08:23	20279949002	Water	1	X		W2
3	7-S	PS	6/12/2023 08:23	20279949003	Water	1	X		W3
4	8-D	PS	6/12/2023 08:23	20279949004	Water	1	X		W4
5	8-DK	PS	6/12/2023 08:23	20279949005	Water	1	X		W5
6	8-I	PS	6/12/2023 08:23	20279949006	Water	1	X		W6
7	9-1	PS	6/12/2023 08:23	20279949007	Water	1	X		W7
8	8-S	PS	6/12/2023 08:23	20279949008	Water	1	X		W8
9	15-D	PS	6/12/2023 14:55	20279949009	Water	1	X		W9
10	15-I	PS	6/12/2023 16:30	20279949010	Water	1	X		010
11	15-S	PS	6/12/2023 15:55	20279949011	Water	1	X		011
12	16-D	PS	6/12/2023 13:36	20279949012	Water	1	X		012
13	16-I	PS	6/12/2023 11:35	20279949013	Water	1	X		013
14	19-SR	PS	6/12/2023 16:20	20279949014	Water	1	X		014
15	31-DR	PS	6/12/2023 09:12	20279949015	Water	1	X		015
16	31-IR	PS	6/12/2023 10:00	20279949016	Water	1	X		016
17	32-I	PS	6/12/2023 14:45	20279949017	Water	1	X		017
18	32-S	PS	6/12/2023 13:15	20279949018	Water	1	X		018
19	Equipment Blank 1	PS	6/12/2023 09:15	20279949019	Water	1	X		019

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: AL
Cert. Needed: ☐ Yes ☐ No

Workorder: 20279949 **Workorder Name:** Alabama Wood Treating 06/12/23

Owner Received Date: 6/13/2023 **Results Requested By:** 6/27/2023

Report To	Subcontract To
Mary Kathryn Brenner Pace Analytical Mobile Labs 4320 Midmost Dr Mobile, AL 36609 USA Phone 251-344-9106	Pace Analytical Minneapolis 1700 Elm Street SE Minneapolis, MN 55414 Phone (612)607-1700

						Preserved Containers						Requested Analysis													
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Unpreserved						-Subbed-work_within-PAST-BXNH	Dioxin 6/13/23 AS												LAB USE ONLY
20	Equipment Blank 2	PS	6/12/2023 17:10	20279949020	Water	1						X													020
21	Equipment Blank 3	PS	6/12/2023 08:23	20279949021	Water	1						X													021
22	Equipment Blank 4	PS	6/12/2023 08:23	20279949022	Water	1						X													022
23	Equipment Blank 5	PS	6/12/2023 08:23	20279949023	Water	1						X													023
24	Equipment Blank 6	PS	6/12/2023 08:23	20279949024	Water	1						X													024
25	Field Dup 1	PS	6/12/2023 09:30	20279949025	Water	1						X													025
26	Field Dup 2	PS	6/12/2023 09:30	20279949026	Water	1						X													026

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	6/13/23 1530	[signature]	6/14/23 900
2				
3				

Comments

IR10 Report with MDL and J Flags

Only highlighted samples sent, rest will ship tomorrow

Cooler Temperature on Receipt 3.9 °C | **Custody Seal** Y or (N) | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.*

Sample Condition Upon Receipt

Client Name: PACE AL

Project #: [redacted]

WO#: 10657438

PM: SCU Due Date: 07/06/23

CLIENT: PASI-NOLA

Courier: [x] FedEx [ ] UPS [ ] USPS [ ] Client [ ] Pace [ ] SpeeDee [ ] Commercial

Tracking Number: 1324 5289 3315 [ ] See Exceptions ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present? [ ] Yes [x] No **Seals Intact?** [ ] Yes [x] No **Biological Tissue Frozen?** [ ] Yes [ ] No [x] N/A

Packing Material: [ ] Bubble Wrap [x] Bubble Bags [ ] None [x] Other pb **Temp Blank?** [ ] Yes [x] No

Thermometer: [ ] T1 (0461) [ ] T2 (0436) [ ] T3 (0459) [x] T4 (0402) [ ] T5 (0178) [ ] T6 (0235) [ ] T7 (0042) [ ] T8 (0775) [ ] T9(0727) [ ] 01339252/1710

Type of Ice: [x] Wet [ ] Blue [ ] Dry [ ] None [x] Melted CL 6/14/23

Did Samples Originate in West Virginia? [ ] Yes [x] No **Were All Container Temps Taken?** [ ] Yes [ ] No [x] N/A

Temp should be above freezing to 6 °C **Cooler temp Read w/Temp Blank:** _____ °C

Correction Factor: -0.3 **Cooler Temp Corrected w/temp blank:** _____ °C

Average Corrected Temp (no temp blank only): 3.9 °C

[x] See Exceptions ENV-FRM-MIN4-0142 [ ] 1 Container

USDA Regulated Soil: ([x] N/A, water sample/other: _____)

Date/Initials of Person Examining Contents: CL 6/14/23

Did samples originate in a quarantine zone within the United States: AL, AR, AZ CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check maps)? [ ] Yes [ ] No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? [ ] Yes [ ] No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

Location (Check one): [ ] Duluth [x] Minneapolis [ ] Virginia				**COMMENTS**
Chain of Custody Present and Filled Out?	[x] Yes	[ ] No		1.
Chain of Custody Relinquished?	[x] Yes	[ ] No		2.
Sampler Name and/or Signature on COC?	[ ] Yes	[ ] No	[x] N/A	3.
Samples Arrived within Hold Time?	[x] Yes	[ ] No		4. If fecal: [ ] <8 hrs [ ] >8 hr, <24 [ ] No
Short Hold Time Analysis (<72 hr)?	[ ] Yes	[x] No		5. [ ] Fecal Coliform [ ] HPC [ ] Total Coliform/E.coli [ ] BOD/cBOD [ ] Hex Chrom [ ] Turbidity [ ] Nitrate [ ] Nitrite [ ] Orthophos [ ] Other
Rush Turn Around Time Requested?	[ ] Yes	[x] No		6.
Sufficient Sample Volume?	[x] Yes	[ ] No		7.
Correct Containers Used?	[x] Yes	[ ] No	[ ] N/A	8.
-Pace Containers Used?	[x] Yes	[ ] No		
Containers Intact?	[x] Yes	[ ] No		9.
Field Filtered Volume Received for Dissolved Tests?	[ ] Yes	[ ] No	[x] N/A	10. Is sediment visible in the dissolved container? [ ] Yes [ ] No
Is sufficient information available to reconcile the samples to the COC?	[ ] Yes	[x] No		11. **If no, write ID/Date/Time of container below:** [x] See Exceptions ENV-FRM-MIN4-0142
Matrix: [x] Water [ ] Soil [ ] Oil [ ] Other				
All containers needing acid/base preservation have been checked?	[ ] Yes	[ ] No	[x] N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO3, H2SO4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	[ ] Yes	[ ] No	[x] N/A	[ ] NaOH [ ] HNO3 [ ] H2SO4 [ ] Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxins/PFAS (*If adding preservative to a container, it must be added to associated field and equipment blanks--verify with PM first.)	[ ] Yes	[ ] No	[x] N/A	Positive for Residual Chlorine? [ ] Yes [ ] No [ ] See Exceptions ENV-FRM-MIN4-0142 **pH Paper Lot #** Residual Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Headspace in Methyl Mercury Container?	[ ] Yes	[ ] No	[x] N/A	13.
Extra labels present on soil VOA or WIDRO containers?	[ ] Yes	[ ] No	[x] N/A	14. [ ] See Exceptions ENV-FRM-MIN4-0142
Headspace in VOA Vials (greater than 6mm)?	[ ] Yes	[ ] No	[x] N/A	
3 Trip Blanks Present?	[ ] Yes	[ ] No	[x] N/A	15.
Trip Blank Custody Seals Present?	[ ] Yes	[ ] No	[x] N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** [ ] Yes [ ] No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____ Method 8290 full list.

Project Manager Review: Sara C. Mays **Date:** 06/14/23

NOTE: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: _____ **Line:** _____

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-MIN4-0142 v02_Sample Condition Upon Receipt (SCUR) Exception Form
	Effective Date: 09/22/2022

Workorder #: _____

No Temp Blank		
Read Temp	Corrected Temp	Average temp
5.6	5.3	
3.1	2.8	
4.9	4.6	
3.4	3.1	3.9

PM Notified of Out of Temp Cooler? ☐ Yes ☐ No

If yes, indicate who was contacted, date and time.
If no, indicate reason why.

_____

Multiple Cooler Project? ☐ Yes ☐ No

If anything is OVER 6.0° C, you MUST document containers in this section HERE

Tracking Number	Temperature

Out of Temp Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples

Sample ID	Type Of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance After Addition?		Initials
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	

Comments:

No Sample ID 16-D is not with the shipment, but sample ID Equipment Blank 2 is.

Qualtrax ID: 52763

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: AL
Cert. Needed: ☐ Yes ☐ No

Workorder: 20279949 **Workorder Name:** Alabama Wood Treating 06/12/23 **Owner Received Date:** 6/13/2023 **Results Requested By:** 6/27/2023

Report To	Subcontract To
Mary Kathryn Brenner Pace Analytical Mobile Labs 4320 Midmost Dr Mobile, AL 36609 USA Phone 251-344-9106	Pace Analytical Minneapolis 1700 Elm Street SE Minneapolis, MN 55414 Phone (612)607-1700

WO# : 10657438

10657438

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Requested Analysis: Dioxin	LAB USE ONLY
1	7-D	PS	6/13/2023 07:49	20279949001	Water	1	X	
2	7-IR	PS	6/13/2023 09:10	20279949002	Water	1	X	
3	7-S	PS	6/13/2023 08:20	20279949003	Water	1	X	
4	8-D	PS	6/13/2023 12:35	20279949004	Water	1	X	
5	8-DK	PS	6/13/2023 10:20	20279949005	Water	1	X	
6	8-I	PS	6/13/2023 11:45	20279949006	Water	1	X	
7	9-1	PS	6/13/2023 12:30	20279949007	Water	1	X	
8	8-S	PS	6/13/2023 10:40	20279949008	Water	1	X	
9	15-D	PS	6/12/2023 14:55	20279949009	Water	1	X	
10	15-I	PS	6/12/2023 16:30	20279949010	Water	1	X	
11	15-S	PS	6/12/2023 15:55	20279949011	Water	1	X	
12	16-D	PS	6/12/2023 13:36	20279949012	Water	1	X	
13	16-I	PS	6/12/2023 11:35	20279949013	Water	1	X	
14	19-SR	PS	6/12/2023 16:20	20279949014	Water	1	X	
15	31-DR	PS	6/12/2023 09:12	20279949015	Water	1	X	
16	31-IR	PS	6/12/2023 10:00	20279949016	Water	1	X	
17	32-I	PS	6/12/2023 14:45	20279949017	Water	1	X	
18	32-S	PS	6/12/2023 13:15	20279949018	Water	1	X	
19	Equipment Blank 1	PS	6/12/2023 09:15	20279949019	Water	1	X	

Internal Transfer Chain of Custody

Pace Analytical®
www.pacelabs.com

☐ Samples Pre-Logged into eCOC.

State Of Origin: AL
Cert. Needed: ☐ Yes ☐ No

Workorder: 20279949 **Workorder Name:** Alabama Wood Treating 06/12/23 **Owner Received Date:** 6/13/2023 **Results Requested By:** 6/27/2023

Report To	Subcontract To
Mary Kathryn Brenner Pace Analytical Mobile Labs 4320 Midmost Dr Mobile, AL 36609 USA Phone 251-344-9106	Pace Analytical Minneapolis 1700 Elm Street SE Minneapolis, MN 55414 Phone (612)607-1700

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Requested Analysis: Dioxin	LAB USE ONLY
20	Equipment Blank 2	PS	6/12/2023 17:10	20279949020	Water	1	X	
21	Equipment Blank 3	PS	6/13/2023 06:55	20279949021	Water	1	X	
22	Equipment Blank 4	PS	6/13/2023 14:00	20279949022	Water	1	X	
23	Equipment Blank 5	PS	6/12/2023 08:23	20279949023	Water	1	X	
24	Equipment Blank 6	PS	6/12/2023 08:23	20279949024	Water	1	X	
25	Field Dup 1	PS	6/12/2023 09:30	20279949025	Water	1	X	
26	Field Dup 2	PS	6/12/2023 09:30	20279949026	Water	1	X	

Transfers	Released By	Date/Time	Received By	Date/Time
1	[signature]	6/14/23 1530	[signature] 6/15/23	8:50
2				
3				

Comments
IR10 Report with MDL and J Flags

Cooler Temperature on Receipt 1.8 °C | **Custody Seal** Y or (N) | **Received on Ice** (Y) or N | **Samples Intact** (Y) or N

****In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.*
This chain of custody is considered complete as is since this information is available in the owner laboratory.

Sample Condition Upon Receipt

Client Name: PACE AL

Project #: WO#: 10657438

PM: SCU Due Date: 07/06/23

CLIENT: PASI-NOLA

Courier: ☑ FedEx ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial

Tracking Number: 1324 5289 3392 ☐ See Exceptions ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present? ☐ Yes ☐ No **Seals Intact?** ☐ Yes ☐ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other **Temp Blank?** ☐ Yes ☒ No

Thermometer: ☐ T1 (0461) ☐ T2 (0436) ☐ T3 (0459) ☒ T4 (0402) ☐ T5 (0178) ☐ T6 (0235) ☐ T7 (0042) ☐ T8 (0775) ☐ T9(0727) ☐ 01339252/1710 **Type of Ice:** ☑ Wet ☐ Blue ☐ Dry ☐ None ☐ Melted

Did Samples Originate in West Virginia? ☐ Yes ☐ No **Were All Container Temps Taken?** ☐ Yes ☐ No ☐ N/A

Temp should be above freezing to 6 °C **Cooler temp Read w/Temp Blank:** _____ °C

Correction Factor: -0.3 **Cooler Temp Corrected w/temp blank:** _____ °C

Average Corrected Temp (no temp blank only): 1.8 °C

☑ See Exceptions ENV-FRM-MIN4-0142 ☐ 1 Container

USDA Regulated Soil: (☐ N/A, water sample/other: _____) **Date/Initials of Person Examining Contents:** _____

Did samples originate in a quarantine zone within the United States: AL, AR, AZ CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

Location (Check one): ☐ Duluth ☒ Minneapolis ☐ Virginia				**COMMENTS**
Chain of Custody Present and Filled Out?	☑ Yes	☐ No		1.
Chain of Custody Relinquished?	☑ Yes	☐ No		2.
Sampler Name and/or Signature on COC?	☐ Yes	☐ No	☒ N/A	3.
Samples Arrived within Hold Time?	☑ Yes	☐ No		4. If fecal: ☐ <8 hrs ☐ >8 hr, <24 ☐ No
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E.coli ☐ BOD/cBOD ☐ Hex Chrom ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested?	☐ Yes	☒ No		6.
Sufficient Sample Volume?	☑ Yes	☐ No		7.
Correct Containers Used? -Pace Containers Used?	☑ Yes ☑ Yes	☐ No ☐ No	☐ N/A	8.
Containers Intact?	☑ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☒ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC? Matrix: ☑ Water ☐ Soil ☐ Oil ☐ Other	☐ Yes	☒ No		11. **If no, write ID/Date/Time of container below:** Field Dup 2 sent with batch ☐ See Exceptions ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	12. Sample # ☐ NaOH ☐ HNO3 ☐ H2SO4 ☐ Zinc Acetate
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO3, H2SO4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxins/PFAS (*If adding preservative to a container, it must be added to associated field and equipment blanks--verify with PM first.)	☐ Yes	☐ No	☑ N/A	Positive for Residual Chlorine? ☐ Yes ☐ No ☐ See Exceptions ENV-FRM-MIN4-0142 **pH Paper Lot #** Residual Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Headspace in Methyl Mercury Container?	☐ Yes	☐ No	☒ N/A	13.
Extra labels present on soil VOA or WIDRO containers?	☐ Yes	☐ No	☑ N/A	14. ☐ See Exceptions ENV-FRM-MIN4-0142
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☐ No	☑ N/A	
3 Trip Blanks Present?	☐ Yes	☐ No	☒ N/A	15.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Sara C. Hughes **Date:** 06/15/23

NOTE: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: CL **Line:** 3

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-MIN4-0142 v02_Sample Condition Upon Receipt (SCUR) Exception Form
	Effective Date: 09/22/2022

Workorder #: _____

No Temp Blank		
Read Temp	**Corrected Temp**	**Average temp**
2.7	2.4	1.8
1.5	1.2	
2.6	2.3	
1.4	1.1	

PM Notified of Out of Temp Cooler? ☐ Yes ☐ No

If yes, indicate who was contacted, date and time.
If no, indicate reason why.

_____

Multiple Cooler Project? ☐ Yes ☐ No

If anything is OVER 6.0° C, you MUST document containers in this section HERE

Tracking Number	Temperature

Out of Temp Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples

Sample ID	Type Of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance After Addition?		Initials
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	

Comments:

_____

_____

_____

Qualtrax ID: 52763

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Reporting Flags

A = Reporting Limit based on signal to noise (EDL)

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

H2 = Extracted outside of holding time

I = Isotope ratio out of specification

J = Estimated value

L = Suppressive interference, analyte may be biased low

Nn = Value obtained from additional analysis

P = PCDE Interference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Appendix B

Sample Analysis Summary

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	7-D		
Lab Sample ID	20279949001		
Filename	U230630B_09		
Injected By	JRH		
Total Amount Extracted	1060 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 08:23
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_02 & U230630B_18	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	06/30/2023 23:59

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	2.1		2,3,7,8-TCDF-13C	2.00	76
Total TCDF	ND	-----	2.1		2,3,7,8-TCDD-13C	2.00	64
					1,2,3,7,8-PeCDF-13C	2.00	93
2,3,7,8-TCDD	ND	-----	1.8		2,3,4,7,8-PeCDF-13C	2.00	95
Total TCDD	ND	-----	1.8		1,2,3,7,8-PeCDD-13C	2.00	106
					1,2,3,4,7,8-HxCDF-13C	2.00	77
1,2,3,7,8-PeCDF	ND	-----	1.5		1,2,3,6,7,8-HxCDF-13C	2.00	69
2,3,4,7,8-PeCDF	ND	-----	1.6		2,3,4,6,7,8-HxCDF-13C	2.00	70
Total PeCDF	ND	-----	1.5		1,2,3,7,8,9-HxCDF-13C	2.00	71
					1,2,3,4,7,8-HxCDD-13C	2.00	67
1,2,3,7,8-PeCDD	ND	-----	1.9		1,2,3,6,7,8-HxCDD-13C	2.00	70
Total PeCDD	ND	-----	1.9		1,2,3,4,6,7,8-HpCDF-13C	2.00	44
					1,2,3,4,7,8,9-HpCDF-13C	2.00	49
1,2,3,4,7,8-HxCDF	ND	-----	1.2		1,2,3,4,6,7,8-HpCDD-13C	2.00	52
1,2,3,6,7,8-HxCDF	ND	-----	1.7		OCDD-13C	4.00	57
2,3,4,6,7,8-HxCDF	ND	-----	1.5				
1,2,3,7,8,9-HxCDF	ND	-----	1.7		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	1.2		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	2.6		2,3,7,8-TCDD-37Cl4	0.20	75
1,2,3,6,7,8-HxCDD	ND	-----	1.7				
1,2,3,7,8,9-HxCDD	ND	-----	1.7				
Total HxCDD	ND	-----	1.7				
1,2,3,4,6,7,8-HpCDF	ND	-----	2.4		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.7		Equivalence: 0.0060 pg/L		
Total HpCDF	ND	-----	2.4		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	4.7				
Total HpCDD	ND	-----	4.7				
OCDF	ND	-----	5.7				
OCDD	-----	20	10	IJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	7-IR		
Lab Sample ID	20279949002		
Filename	U230630B_10		
Injected By	JRH		
Total Amount Extracted	1010 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 08:23
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_02 & U230630B_18	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	07/01/2023 00:45

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	1.3		2,3,7,8-TCDF-13C	2.00	69
Total TCDF	ND	-----	1.3		2,3,7,8-TCDD-13C	2.00	57
					1,2,3,7,8-PeCDF-13C	2.00	80
2,3,7,8-TCDD	ND	-----	1.7		2,3,4,7,8-PeCDF-13C	2.00	83
Total TCDD	ND	-----	1.7		1,2,3,7,8-PeCDD-13C	2.00	86
					1,2,3,4,7,8-HxCDF-13C	2.00	69
1,2,3,7,8-PeCDF	ND	-----	1.4		1,2,3,6,7,8-HxCDF-13C	2.00	62
2,3,4,7,8-PeCDF	ND	-----	1.3		2,3,4,6,7,8-HxCDF-13C	2.00	63
Total PeCDF	ND	-----	1.3		1,2,3,7,8,9-HxCDF-13C	2.00	65
					1,2,3,4,7,8-HxCDD-13C	2.00	59
1,2,3,7,8-PeCDD	ND	-----	1.3		1,2,3,6,7,8-HxCDD-13C	2.00	64
Total PeCDD	ND	-----	1.3		1,2,3,4,6,7,8-HpCDF-13C	2.00	41
					1,2,3,4,7,8,9-HpCDF-13C	2.00	43
1,2,3,4,7,8-HxCDF	ND	-----	1.5		1,2,3,4,6,7,8-HpCDD-13C	2.00	47
1,2,3,6,7,8-HxCDF	ND	-----	1.7		OCDD-13C	4.00	50
2,3,4,6,7,8-HxCDF	ND	-----	1.6				
1,2,3,7,8,9-HxCDF	ND	-----	2.2		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	1.5		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	3.5		2,3,7,8-TCDD-37Cl4	0.20	65
1,2,3,6,7,8-HxCDD	ND	-----	1.3				
1,2,3,7,8,9-HxCDD	ND	-----	3.4				
Total HxCDD	ND	-----	1.3				
1,2,3,4,6,7,8-HpCDF	ND	-----	3.7		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	5.2		Equivalence: 0.0037 pg/L		
Total HpCDF	ND	-----	3.7		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	5.0				
Total HpCDD	ND	-----	5.0				
OCDF	ND	-----	4.7				
OCDD	12	-----	9.1	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Tel: 612-607-1700
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	7-S		
Lab Sample ID	20279949003		
Filename	U230630B_11		
Injected By	JRH		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 08:23
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_02 & U230630B_18	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	07/01/2023 01:31

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.88		2,3,7,8-TCDF-13C	2.00	72
Total TCDF	ND	-----	0.88		2,3,7,8-TCDD-13C	2.00	58
					1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	ND	-----	2.2		2,3,4,7,8-PeCDF-13C	2.00	80
Total TCDD	ND	-----	2.2		1,2,3,7,8-PeCDD-13C	2.00	86
					1,2,3,4,7,8-HxCDF-13C	2.00	61
1,2,3,7,8-PeCDF	ND	-----	1.4		1,2,3,6,7,8-HxCDF-13C	2.00	55
2,3,4,7,8-PeCDF	ND	-----	1.3		2,3,4,6,7,8-HxCDF-13C	2.00	60
Total PeCDF	ND	-----	1.3		1,2,3,7,8,9-HxCDF-13C	2.00	62
					1,2,3,4,7,8-HxCDD-13C	2.00	54
1,2,3,7,8-PeCDD	ND	-----	2.8		1,2,3,6,7,8-HxCDD-13C	2.00	62
Total PeCDD	ND	-----	2.8		1,2,3,4,6,7,8-HpCDF-13C	2.00	40
					1,2,3,4,7,8,9-HpCDF-13C	2.00	43
1,2,3,4,7,8-HxCDF	ND	-----	2.1		1,2,3,4,6,7,8-HpCDD-13C	2.00	48
1,2,3,6,7,8-HxCDF	ND	-----	1.9		OCDD-13C	4.00	46
2,3,4,6,7,8-HxCDF	ND	-----	1.1				
1,2,3,7,8,9-HxCDF	ND	-----	2.5		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	1.1		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	2.7		2,3,7,8-TCDD-37Cl4	0.20	75
1,2,3,6,7,8-HxCDD	ND	-----	2.7				
1,2,3,7,8,9-HxCDD	ND	-----	3.2				
Total HxCDD	ND	-----	2.7				
1,2,3,4,6,7,8-HpCDF	ND	-----	3.2		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	4.4		Equivalence: 0.0035 pg/L		
Total HpCDF	ND	-----	3.2		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	4.6				
Total HpCDD	ND	-----	4.6				
OCDF	ND	-----	7.2				
OCDD	12	-----	4.0	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	8-D		
Lab Sample ID	20279949004		
Filename	U230630B_12		
Injected By	JRH		
Total Amount Extracted	1000 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 08:23
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_02 & U230630B_18	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	07/01/2023 02:17

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	1.5		2,3,7,8-TCDF-13C	2.00	72
Total TCDF	ND	-----	1.5		2,3,7,8-TCDD-13C	2.00	65
					1,2,3,7,8-PeCDF-13C	2.00	89
2,3,7,8-TCDD	ND	-----	1.9		2,3,4,7,8-PeCDF-13C	2.00	91
Total TCDD	ND	-----	1.9		1,2,3,7,8-PeCDD-13C	2.00	98
					1,2,3,4,7,8-HxCDF-13C	2.00	71
1,2,3,7,8-PeCDF	ND	-----	1.2		1,2,3,6,7,8-HxCDF-13C	2.00	66
2,3,4,7,8-PeCDF	ND	-----	0.67		2,3,4,6,7,8-HxCDF-13C	2.00	69
Total PeCDF	ND	-----	0.67		1,2,3,7,8,9-HxCDF-13C	2.00	72
					1,2,3,4,7,8-HxCDD-13C	2.00	66
1,2,3,7,8-PeCDD	ND	-----	1.7		1,2,3,6,7,8-HxCDD-13C	2.00	68
Total PeCDD	ND	-----	1.7		1,2,3,4,6,7,8-HpCDF-13C	2.00	55
					1,2,3,4,7,8,9-HpCDF-13C	2.00	59
1,2,3,4,7,8-HxCDF	ND	-----	0.82		1,2,3,4,6,7,8-HpCDD-13C	2.00	62
1,2,3,6,7,8-HxCDF	ND	-----	0.89		OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	ND	-----	0.65				
1,2,3,7,8,9-HxCDF	ND	-----	1.2		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.65		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.0		2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	ND	-----	1.1				
1,2,3,7,8,9-HxCDD	ND	-----	1.4				
Total HxCDD	ND	-----	1.0				
1,2,3,4,6,7,8-HpCDF	ND	-----	2.4		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.9		Equivalence: 0.0034 pg/L		
Total HpCDF	ND	-----	2.4		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	1.6				
Total HpCDD	3.0	-----	1.6	J			
OCDF	ND	-----	3.3				
OCDD	11	-----	6.9	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	8-DK		
Lab Sample ID	20279949005		
Filename	U230630B_13		
Injected By	JRH		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 08:23
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_02 & U230630B_18	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	07/01/2023 03:04

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.77		2,3,7,8-TCDF-13C	2.00	82
Total TCDF	ND	-----	0.77		2,3,7,8-TCDD-13C	2.00	75
					1,2,3,7,8-PeCDF-13C	2.00	99
2,3,7,8-TCDD	ND	-----	1.6		2,3,4,7,8-PeCDF-13C	2.00	101
Total TCDD	ND	-----	1.6		1,2,3,7,8-PeCDD-13C	2.00	112
					1,2,3,4,7,8-HxCDF-13C	2.00	75
1,2,3,7,8-PeCDF	ND	-----	1.6		1,2,3,6,7,8-HxCDF-13C	2.00	68
2,3,4,7,8-PeCDF	ND	-----	1.2		2,3,4,6,7,8-HxCDF-13C	2.00	73
Total PeCDF	ND	-----	1.2		1,2,3,7,8,9-HxCDF-13C	2.00	77
					1,2,3,4,7,8-HxCDD-13C	2.00	71
1,2,3,7,8-PeCDD	ND	-----	1.6		1,2,3,6,7,8-HxCDD-13C	2.00	72
Total PeCDD	ND	-----	1.6		1,2,3,4,6,7,8-HpCDF-13C	2.00	53
					1,2,3,4,7,8,9-HpCDF-13C	2.00	57
1,2,3,4,7,8-HxCDF	ND	-----	1.1		1,2,3,4,6,7,8-HpCDD-13C	2.00	60
1,2,3,6,7,8-HxCDF	ND	-----	1.1		OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	ND	-----	1.4				
1,2,3,7,8,9-HxCDF	ND	-----	1.1		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	1.1		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.5		2,3,7,8-TCDD-37Cl4	0.20	83
1,2,3,6,7,8-HxCDD	ND	-----	1.5				
1,2,3,7,8,9-HxCDD	ND	-----	1.4				
Total HxCDD	ND	-----	1.4				
1,2,3,4,6,7,8-HpCDF	ND	-----	2.5		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	3.6		Equivalence: 0.0071 pg/L		
Total HpCDF	ND	-----	2.5		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	2.8				
Total HpCDD	3.3	-----	2.8	J			
OCDF	ND	-----	3.8				
OCDD	24	-----	5.1	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Tel: 612-607-1700
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	8-I		
Lab Sample ID	20279949006		
Filename	U230630B_14		
Injected By	JRH		
Total Amount Extracted	1060 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 08:23
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_02 & U230630B_18	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	07/01/2023 03:50

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	1.3		2,3,7,8-TCDF-13C	2.00	73
Total TCDF	ND	-----	1.3		2,3,7,8-TCDD-13C	2.00	66
					1,2,3,7,8-PeCDF-13C	2.00	89
2,3,7,8-TCDD	ND	-----	3.1		2,3,4,7,8-PeCDF-13C	2.00	93
Total TCDD	ND	-----	3.1		1,2,3,7,8-PeCDD-13C	2.00	103
					1,2,3,4,7,8-HxCDF-13C	2.00	72
1,2,3,7,8-PeCDF	ND	-----	1.8		1,2,3,6,7,8-HxCDF-13C	2.00	67
2,3,4,7,8-PeCDF	ND	-----	1.1		2,3,4,6,7,8-HxCDF-13C	2.00	68
Total PeCDF	ND	-----	1.1		1,2,3,7,8,9-HxCDF-13C	2.00	71
					1,2,3,4,7,8-HxCDD-13C	2.00	64
1,2,3,7,8-PeCDD	ND	-----	1.9		1,2,3,6,7,8-HxCDD-13C	2.00	68
Total PeCDD	ND	-----	1.9		1,2,3,4,6,7,8-HpCDF-13C	2.00	46
					1,2,3,4,7,8,9-HpCDF-13C	2.00	47
1,2,3,4,7,8-HxCDF	ND	-----	1.2		1,2,3,4,6,7,8-HpCDD-13C	2.00	51
1,2,3,6,7,8-HxCDF	ND	-----	2.3		OCDD-13C	4.00	49
2,3,4,6,7,8-HxCDF	ND	-----	1.3				
1,2,3,7,8,9-HxCDF	ND	-----	1.2		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	1.2		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	2.5		2,3,7,8-TCDD-37Cl4	0.20	76
1,2,3,6,7,8-HxCDD	ND	-----	1.8				
1,2,3,7,8,9-HxCDD	ND	-----	1.8				
Total HxCDD	ND	-----	1.8				
1,2,3,4,6,7,8-HpCDF	ND	-----	3.6		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	3.7		Equivalence: 0.0053 pg/L		
Total HpCDF	ND	-----	3.6		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	4.0				
Total HpCDD	ND	-----	4.0				
OCDF	ND	-----	5.9				
OCDD	-----	18	9.1	IJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	9-1		
Lab Sample ID	20279949007		
Filename	U230630B_15		
Injected By	JRH		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 08:23
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_02 & U230630B_18	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	07/01/2023 04:36

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	1.8		2,3,7,8-TCDF-13C	2.00	71
Total TCDF	ND	-----	1.8		2,3,7,8-TCDD-13C	2.00	55
					1,2,3,7,8-PeCDF-13C	2.00	90
2,3,7,8-TCDD	ND	-----	2.6		2,3,4,7,8-PeCDF-13C	2.00	90
Total TCDD	ND	-----	2.6		1,2,3,7,8-PeCDD-13C	2.00	99
					1,2,3,4,7,8-HxCDF-13C	2.00	80
1,2,3,7,8-PeCDF	ND	-----	1.7		1,2,3,6,7,8-HxCDF-13C	2.00	73
2,3,4,7,8-PeCDF	ND	-----	1.1		2,3,4,6,7,8-HxCDF-13C	2.00	77
Total PeCDF	ND	-----	1.1		1,2,3,7,8,9-HxCDF-13C	2.00	76
					1,2,3,4,7,8-HxCDD-13C	2.00	72
1,2,3,7,8-PeCDD	ND	-----	1.0		1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD	ND	-----	1.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	59
					1,2,3,4,7,8,9-HpCDF-13C	2.00	56
1,2,3,4,7,8-HxCDF	ND	-----	1.4		1,2,3,4,6,7,8-HpCDD-13C	2.00	62
1,2,3,6,7,8-HxCDF	ND	-----	1.6		OCDD-13C	4.00	68
2,3,4,6,7,8-HxCDF	ND	-----	1.1				
1,2,3,7,8,9-HxCDF	ND	-----	1.9		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	1.1		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	2.7		2,3,7,8-TCDD-37Cl4	0.20	70
1,2,3,6,7,8-HxCDD	ND	-----	2.5				
1,2,3,7,8,9-HxCDD	ND	-----	2.6				
Total HxCDD	ND	-----	2.5				
1,2,3,4,6,7,8-HpCDF	ND	-----	3.1		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	3.3		Equivalence: 0.0031 pg/L		
Total HpCDF	ND	-----	3.1		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	1.6				
Total HpCDD	4.1	-----	1.6	J			
OCDF	ND	-----	5.1				
OCDD	-----	10	5.9	IJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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Tel: 612-607-1700
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	8-S		
Lab Sample ID	20279949008		
Filename	U230630B_16		
Injected By	JRH		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 08:23
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_02 & U230630B_18	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	07/01/2023 05:22

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	1.5	2,3,7,8-TCDF-13C	2.00	76
Total TCDF	ND	-----	1.5	2,3,7,8-TCDD-13C	2.00	67
				1,2,3,7,8-PeCDF-13C	2.00	93
2,3,7,8-TCDD	ND	-----	2.2	2,3,4,7,8-PeCDF-13C	2.00	94
Total TCDD	ND	-----	2.2	1,2,3,7,8-PeCDD-13C	2.00	101
				1,2,3,4,7,8-HxCDF-13C	2.00	73
1,2,3,7,8-PeCDF	ND	-----	1.5	1,2,3,6,7,8-HxCDF-13C	2.00	70
2,3,4,7,8-PeCDF	ND	-----	0.82	2,3,4,6,7,8-HxCDF-13C	2.00	70
Total PeCDF	ND	-----	0.82	1,2,3,7,8,9-HxCDF-13C	2.00	76
				1,2,3,4,7,8-HxCDD-13C	2.00	66
1,2,3,7,8-PeCDD	ND	-----	1.6	1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD	ND	-----	1.6	1,2,3,4,6,7,8-HpCDF-13C	2.00	57
				1,2,3,4,7,8,9-HpCDF-13C	2.00	60
1,2,3,4,7,8-HxCDF	ND	-----	1.7	1,2,3,4,6,7,8-HpCDD-13C	2.00	63
1,2,3,6,7,8-HxCDF	ND	-----	1.5	OCDD-13C	4.00	69
2,3,4,6,7,8-HxCDF	ND	-----	1.6			
1,2,3,7,8,9-HxCDF	ND	-----	1.2	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	1.2	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	2.2	2,3,7,8-TCDD-37Cl4	0.20	75
1,2,3,6,7,8-HxCDD	ND	-----	1.5			
1,2,3,7,8,9-HxCDD	ND	-----	2.1			
Total HxCDD	ND	-----	1.5			
1,2,3,4,6,7,8-HpCDF	ND	-----	1.8	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.2	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	1.8	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	1.8			
Total HpCDD	ND	-----	1.8			
OCDF	ND	-----	3.9			
OCDD	ND	-----	3.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	15-D		
Lab Sample ID	20279949009		
Filename	L230626B_12		
Injected By	SMT		
Total Amount Extracted	1020 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 14:55
ICAL ID	L230613	Received	06/14/2023 09:00
CCal Filename(s)	L230626B_01 & L230626B_22	Extracted	06/15/2023 12:00
Method Blank ID	BLANK-106861	Analyzed	06/26/2023 18:34

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.69		2,3,7,8-TCDF-13C	2.00	94
Total TCDF	ND	-----	0.69		2,3,7,8-TCDD-13C	2.00	87
					1,2,3,7,8-PeCDF-13C	2.00	75
2,3,7,8-TCDD	ND	-----	0.93		2,3,4,7,8-PeCDF-13C	2.00	100
Total TCDD	2.5	-----	0.93	J	1,2,3,7,8-PeCDD-13C	2.00	99
					1,2,3,4,7,8-HxCDF-13C	2.00	102
1,2,3,7,8-PeCDF	1.4	-----	1.4	J	1,2,3,6,7,8-HxCDF-13C	2.00	44
2,3,4,7,8-PeCDF	ND	-----	0.40		2,3,4,6,7,8-HxCDF-13C	2.00	113
Total PeCDF	1.4	-----	0.40	J	1,2,3,7,8,9-HxCDF-13C	2.00	108
					1,2,3,4,7,8-HxCDD-13C	2.00	116
1,2,3,7,8-PeCDD	ND	-----	0.71		1,2,3,6,7,8-HxCDD-13C	2.00	96
Total PeCDD	ND	-----	0.71		1,2,3,4,6,7,8-HpCDF-13C	2.00	95
					1,2,3,4,7,8,9-HpCDF-13C	2.00	53
1,2,3,4,7,8-HxCDF	ND	-----	0.69		1,2,3,4,6,7,8-HpCDD-13C	2.00	94
1,2,3,6,7,8-HxCDF	ND	-----	2.1		OCDD-13C	4.00	74
2,3,4,6,7,8-HxCDF	ND	-----	0.59				
1,2,3,7,8,9-HxCDF	-----	1.3	0.72	IJ	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.59		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	-----	1.3	0.80	IJ	2,3,7,8-TCDD-37Cl4	0.20	89
1,2,3,6,7,8-HxCDD	ND	-----	1.0				
1,2,3,7,8,9-HxCDD	ND	-----	1.0				
Total HxCDD	ND	-----	0.80				
1,2,3,4,6,7,8-HpCDF	ND	-----	1.7		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	3.8		Equivalence: 0.42 pg/L		
Total HpCDF	ND	-----	1.7		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	8.3	-----	1.6	J			
Total HpCDD	16	-----	1.6	J			
OCDF	ND	-----	2.6				
OCDD	90	-----	5.5	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	15-I		
Lab Sample ID	20279949010		
Filename	L230626B_13		
Injected By	SMT		
Total Amount Extracted	1050 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 16:30
ICAL ID	L230613	Received	06/14/2023 09:00
CCal Filename(s)	L230626B_01 & L230626B_22	Extracted	06/15/2023 12:00
Method Blank ID	BLANK-106861	Analyzed	06/26/2023 19:19

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.47		2,3,7,8-TCDF-13C	2.00	83
Total TCDF	ND	-----	0.47		2,3,7,8-TCDD-13C	2.00	74
					1,2,3,7,8-PeCDF-13C	2.00	55
2,3,7,8-TCDD	ND	-----	0.73		2,3,4,7,8-PeCDF-13C	2.00	86
Total TCDD	1.3	-----	0.73	J	1,2,3,7,8-PeCDD-13C	2.00	83
					1,2,3,4,7,8-HxCDF-13C	2.00	99
1,2,3,7,8-PeCDF	ND	-----	0.97		1,2,3,6,7,8-HxCDF-13C	2.00	45
2,3,4,7,8-PeCDF	ND	-----	0.56		2,3,4,6,7,8-HxCDF-13C	2.00	113
Total PeCDF	ND	-----	0.56		1,2,3,7,8,9-HxCDF-13C	2.00	95
					1,2,3,4,7,8-HxCDD-13C	2.00	115
1,2,3,7,8-PeCDD	ND	-----	0.98		1,2,3,6,7,8-HxCDD-13C	2.00	93
Total PeCDD	ND	-----	0.98		1,2,3,4,6,7,8-HpCDF-13C	2.00	96
					1,2,3,4,7,8,9-HpCDF-13C	2.00	53
1,2,3,4,7,8-HxCDF	ND	-----	1.4		1,2,3,4,6,7,8-HpCDD-13C	2.00	91
1,2,3,6,7,8-HxCDF	ND	-----	3.1		OCDD-13C	4.00	74
2,3,4,6,7,8-HxCDF	ND	-----	1.3				
1,2,3,7,8,9-HxCDF	2.8	-----	1.6	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	2.8	-----	1.3	BJ	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	-----	2.5	1.1	IJ	2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	ND	-----	1.3				
1,2,3,7,8,9-HxCDD	ND	-----	1.3				
Total HxCDD	ND	-----	1.1				
1,2,3,4,6,7,8-HpCDF	ND	-----	2.2		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	3.3		Equivalence: 0.56 pg/L		
Total HpCDF	ND	-----	2.2		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	2.6	-----	1.9	J			
Total HpCDD	6.2	-----	1.9	J			
OCDF	ND	-----	4.8				
OCDD	-----	21	5.8	IJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	15-S		
Lab Sample ID	20279949011		
Filename	L230626B_14		
Injected By	SMT		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 15:55
ICAL ID	L230613	Received	06/14/2023 09:00
CCal Filename(s)	L230626B_01 & L230626B_22	Extracted	06/15/2023 12:00
Method Blank ID	BLANK-106861	Analyzed	06/26/2023 20:05

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.73		2,3,7,8-TCDF-13C	2.00	89
Total TCDF	ND	-----	0.73		2,3,7,8-TCDD-13C	2.00	83
					1,2,3,7,8-PeCDF-13C	2.00	57
2,3,7,8-TCDD	ND	-----	1.0		2,3,4,7,8-PeCDF-13C	2.00	95
Total TCDD	2.0	-----	1.0	J	1,2,3,7,8-PeCDD-13C	2.00	95
					1,2,3,4,7,8-HxCDF-13C	2.00	107
1,2,3,7,8-PeCDF	ND	-----	1.2		1,2,3,6,7,8-HxCDF-13C	2.00	47
2,3,4,7,8-PeCDF	ND	-----	0.76		2,3,4,6,7,8-HxCDF-13C	2.00	120
Total PeCDF	ND	-----	0.76		1,2,3,7,8,9-HxCDF-13C	2.00	110
					1,2,3,4,7,8-HxCDD-13C	2.00	118
1,2,3,7,8-PeCDD	ND	-----	0.73		1,2,3,6,7,8-HxCDD-13C	2.00	98
Total PeCDD	ND	-----	0.73		1,2,3,4,6,7,8-HpCDF-13C	2.00	100
					1,2,3,4,7,8,9-HpCDF-13C	2.00	59
1,2,3,4,7,8-HxCDF	ND	-----	0.94		1,2,3,4,6,7,8-HpCDD-13C	2.00	103
1,2,3,6,7,8-HxCDF	ND	-----	1.6		OCDD-13C	4.00	80
2,3,4,6,7,8-HxCDF	ND	-----	0.64				
1,2,3,7,8,9-HxCDF	ND	-----	0.71		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.64		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	2.9	-----	0.94	J	2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	ND	-----	1.6				
1,2,3,7,8,9-HxCDD	ND	-----	1.3				
Total HxCDD	2.9	-----	0.94	J			
1,2,3,4,6,7,8-HpCDF	ND	-----	2.4		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.7		Equivalence: 0.30 pg/L		
Total HpCDF	ND	-----	2.4		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	2.0				
Total HpCDD	ND	-----	2.0				
OCDF	ND	-----	2.5				
OCDD	-----	18	4.2	IJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
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NC = Not Calculated

J = Estimated value
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	16-D		
Lab Sample ID	20279949012		
Filename	U230701A_02		
Injected By	JRH		
Total Amount Extracted	1060 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 13:36
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_18 & U230701A_16	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	07/01/2023 08:27

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	1.7		2,3,7,8-TCDF-13C	2.00	72
Total TCDF	ND	-----	1.7		2,3,7,8-TCDD-13C	2.00	58
					1,2,3,7,8-PeCDF-13C	2.00	89
2,3,7,8-TCDD	ND	-----	1.7		2,3,4,7,8-PeCDF-13C	2.00	86
Total TCDD	ND	-----	1.7		1,2,3,7,8-PeCDD-13C	2.00	93
					1,2,3,4,7,8-HxCDF-13C	2.00	65
1,2,3,7,8-PeCDF	ND	-----	0.49		1,2,3,6,7,8-HxCDF-13C	2.00	67
2,3,4,7,8-PeCDF	ND	-----	0.97		2,3,4,6,7,8-HxCDF-13C	2.00	67
Total PeCDF	ND	-----	0.49		1,2,3,7,8,9-HxCDF-13C	2.00	70
					1,2,3,4,7,8-HxCDD-13C	2.00	64
1,2,3,7,8-PeCDD	ND	-----	1.6		1,2,3,6,7,8-HxCDD-13C	2.00	68
Total PeCDD	ND	-----	1.6		1,2,3,4,6,7,8-HpCDF-13C	2.00	57
					1,2,3,4,7,8,9-HpCDF-13C	2.00	64
1,2,3,4,7,8-HxCDF	ND	-----	0.94		1,2,3,4,6,7,8-HpCDD-13C	2.00	63
1,2,3,6,7,8-HxCDF	ND	-----	0.74		OCDD-13C	4.00	64
2,3,4,6,7,8-HxCDF	ND	-----	0.70				
1,2,3,7,8,9-HxCDF	ND	-----	0.64		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.64		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.9	-----	1.6	J	2,3,7,8-TCDD-37Cl4	0.20	67
1,2,3,6,7,8-HxCDD	ND	-----	0.88				
1,2,3,7,8,9-HxCDD	ND	-----	1.3				
Total HxCDD	1.9	-----	0.88	J			
1,2,3,4,6,7,8-HpCDF	ND	-----	1.1		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.6		Equivalence: 0.23 pg/L		
Total HpCDF	ND	-----	1.1		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	2.6	2.5	IJ			
Total HpCDD	ND	-----	2.5				
OCDF	ND	-----	2.2				
OCDD	41	-----	3.9	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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Tel: 612-607-1700
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	16-I		
Lab Sample ID	20279949013		
Filename	U230625B_11		
Injected By	JRH		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 11:35
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230625A_17 & U230625B_16	Extracted	06/15/2023 12:00
Method Blank ID	BLANK-106861	Analyzed	06/25/2023 22:25

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	1.3		2,3,7,8-TCDF-13C	2.00	71	
Total TCDF	ND	-----	1.3		2,3,7,8-TCDD-13C	2.00	68	
					1,2,3,7,8-PeCDF-13C	2.00	60	
2,3,7,8-TCDD	ND	-----	2.3		2,3,4,7,8-PeCDF-13C	2.00	61	
Total TCDD	ND	-----	2.3		1,2,3,7,8-PeCDD-13C	2.00	66	
					1,2,3,4,7,8-HxCDF-13C	2.00	56	
1,2,3,7,8-PeCDF	ND	-----	2.1		1,2,3,6,7,8-HxCDF-13C	2.00	47	
2,3,4,7,8-PeCDF	ND	-----	1.3		2,3,4,6,7,8-HxCDF-13C	2.00	56	
Total PeCDF	ND	-----	1.3		1,2,3,7,8,9-HxCDF-13C	2.00	54	
					1,2,3,4,7,8-HxCDD-13C	2.00	55	
1,2,3,7,8-PeCDD	ND	-----	2.1		1,2,3,6,7,8-HxCDD-13C	2.00	61	
Total PeCDD	ND	-----	2.1		1,2,3,4,6,7,8-HpCDF-13C	2.00	38	R
					1,2,3,4,7,8,9-HpCDF-13C	2.00	33	R
1,2,3,4,7,8-HxCDF	ND	-----	2.4		1,2,3,4,6,7,8-HpCDD-13C	2.00	42	
1,2,3,6,7,8-HxCDF	ND	-----	2.1		OCDD-13C	4.00	25	R
2,3,4,6,7,8-HxCDF	ND	-----	2.2					
1,2,3,7,8,9-HxCDF	ND	-----	3.9		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	ND	-----	2.1		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	ND	-----	3.4		2,3,7,8-TCDD-37Cl4	0.20	80	
1,2,3,6,7,8-HxCDD	1.9	-----	1.2	J				
1,2,3,7,8,9-HxCDD	-----	3.2	2.4	IJ				
Total HxCDD	1.9	-----	1.2	J				
1,2,3,4,6,7,8-HpCDF	ND	-----	4.8		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	5.6		Equivalence: 0.56 pg/L			
Total HpCDF	ND	-----	4.8		(Lower-bound - Using 2005 WHO Factors)			
1,2,3,4,6,7,8-HpCDD	-----	4.2	3.3	IJ				
Total HpCDD	ND	-----	3.3					
OCDF	ND	-----	7.0					
OCDD	-----	21	11	IJ				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
R = Recovery outside target range
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	19-SR		
Lab Sample ID	20279949014		
Filename	U230625B_12		
Injected By	JRH		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 16:20
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230625A_17 & U230625B_16	Extracted	06/15/2023 12:00
Method Blank ID	BLANK-106861	Analyzed	06/25/2023 23:11

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	1.3	2,3,7,8-TCDF-13C	2.00	80
Total TCDF	ND	-----	1.3	2,3,7,8-TCDD-13C	2.00	72
				1,2,3,7,8-PeCDF-13C	2.00	81
2,3,7,8-TCDD	ND	-----	1.5	2,3,4,7,8-PeCDF-13C	2.00	79
Total TCDD	ND	-----	1.5	1,2,3,7,8-PeCDD-13C	2.00	83
				1,2,3,4,7,8-HxCDF-13C	2.00	80
1,2,3,7,8-PeCDF	ND	-----	1.9	1,2,3,6,7,8-HxCDF-13C	2.00	77
2,3,4,7,8-PeCDF	ND	-----	1.2	2,3,4,6,7,8-HxCDF-13C	2.00	76
Total PeCDF	ND	-----	1.2	1,2,3,7,8,9-HxCDF-13C	2.00	72
				1,2,3,4,7,8-HxCDD-13C	2.00	76
1,2,3,7,8-PeCDD	ND	-----	1.5	1,2,3,6,7,8-HxCDD-13C	2.00	83
Total PeCDD	ND	-----	1.5	1,2,3,4,6,7,8-HpCDF-13C	2.00	60
				1,2,3,4,7,8,9-HpCDF-13C	2.00	55
1,2,3,4,7,8-HxCDF	ND	-----	1.2	1,2,3,4,6,7,8-HpCDD-13C	2.00	68
1,2,3,6,7,8-HxCDF	ND	-----	2.0	OCDD-13C	4.00	46
2,3,4,6,7,8-HxCDF	ND	-----	2.4			
1,2,3,7,8,9-HxCDF	ND	-----	1.7	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	1.2	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	2.4	2,3,7,8-TCDD-37Cl4	0.20	79
1,2,3,6,7,8-HxCDD	ND	-----	2.9			
1,2,3,7,8,9-HxCDD	ND	-----	4.2			
Total HxCDD	ND	-----	2.4			
1,2,3,4,6,7,8-HpCDF	ND	-----	4.8	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	5.4	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	4.8	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	5.4			
Total HpCDD	ND	-----	5.4			
OCDF	ND	-----	13			
OCDD	ND	-----	7.3			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	31-DR		
Lab Sample ID	20279949015		
Filename	U230625B_13		
Injected By	JRH		
Total Amount Extracted	1030 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 09:12
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230625A_17 & U230625B_16	Extracted	06/15/2023 12:00
Method Blank ID	BLANK-106861	Analyzed	06/25/2023 23:57

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	1.5		2,3,7,8-TCDF-13C	2.00	80
Total TCDF	ND	-----	1.5		2,3,7,8-TCDD-13C	2.00	76
					1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	ND	-----	2.1		2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD	ND	-----	2.1		1,2,3,7,8-PeCDD-13C	2.00	83
					1,2,3,4,7,8-HxCDF-13C	2.00	81
1,2,3,7,8-PeCDF	ND	-----	2.2		1,2,3,6,7,8-HxCDF-13C	2.00	62
2,3,4,7,8-PeCDF	ND	-----	0.69		2,3,4,6,7,8-HxCDF-13C	2.00	72
Total PeCDF	ND	-----	0.69		1,2,3,7,8,9-HxCDF-13C	2.00	76
					1,2,3,4,7,8-HxCDD-13C	2.00	70
1,2,3,7,8-PeCDD	ND	-----	1.3		1,2,3,6,7,8-HxCDD-13C	2.00	83
Total PeCDD	ND	-----	1.3		1,2,3,4,6,7,8-HpCDF-13C	2.00	58
					1,2,3,4,7,8,9-HpCDF-13C	2.00	51
1,2,3,4,7,8-HxCDF	1.8	-----	1.4	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	65
1,2,3,6,7,8-HxCDF	ND	-----	1.5		OCDD-13C	4.00	46
2,3,4,6,7,8-HxCDF	ND	-----	1.4				
1,2,3,7,8,9-HxCDF	ND	-----	1.8		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	1.8	-----	1.4	BJ	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.6		2,3,7,8-TCDD-37Cl4	0.20	81
1,2,3,6,7,8-HxCDD	ND	-----	1.8				
1,2,3,7,8,9-HxCDD	ND	-----	1.5				
Total HxCDD	6.8	-----	1.5	J			
1,2,3,4,6,7,8-HpCDF	ND	-----	2.7		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	5.9		Equivalence: 0.28 pg/L		
Total HpCDF	ND	-----	2.7		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	7.7	-----	2.0	J			
Total HpCDD	7.7	-----	2.0	J			
OCDF	ND	-----	4.4				
OCDD	76	-----	7.0	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	31-IR		
Lab Sample ID	20279949016		
Filename	U230625B_14		
Injected By	JRH		
Total Amount Extracted	1020 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 10:00
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230625A_17 & U230625B_16	Extracted	06/15/2023 12:00
Method Blank ID	BLANK-106861	Analyzed	06/26/2023 00:44

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	1.3		2,3,7,8-TCDF-13C	2.00	74	
Total TCDF	ND	-----	1.3		2,3,7,8-TCDD-13C	2.00	70	
					1,2,3,7,8-PeCDF-13C	2.00	68	
2,3,7,8-TCDD	ND	-----	1.00		2,3,4,7,8-PeCDF-13C	2.00	69	
Total TCDD	ND	-----	1.00		1,2,3,7,8-PeCDD-13C	2.00	74	
					1,2,3,4,7,8-HxCDF-13C	2.00	67	
1,2,3,7,8-PeCDF	ND	-----	1.7		1,2,3,6,7,8-HxCDF-13C	2.00	53	
2,3,4,7,8-PeCDF	1.9	-----	0.88	J	2,3,4,6,7,8-HxCDF-13C	2.00	72	
Total PeCDF	1.9	-----	0.88	J	1,2,3,7,8,9-HxCDF-13C	2.00	67	
					1,2,3,4,7,8-HxCDD-13C	2.00	70	
1,2,3,7,8-PeCDD	ND	-----	1.8		1,2,3,6,7,8-HxCDD-13C	2.00	74	
Total PeCDD	ND	-----	1.8		1,2,3,4,6,7,8-HpCDF-13C	2.00	54	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	39	R
1,2,3,4,7,8-HxCDF	ND	-----	1.6		1,2,3,4,6,7,8-HpCDD-13C	2.00	58	
1,2,3,6,7,8-HxCDF	ND	-----	1.7		OCDD-13C	4.00	41	
2,3,4,6,7,8-HxCDF	ND	-----	2.5					
1,2,3,7,8,9-HxCDF	ND	-----	2.1		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	ND	-----	1.6		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	-----	3.4	2.4	IJ	2,3,7,8-TCDD-37Cl4	0.20	80	
1,2,3,6,7,8-HxCDD	ND	-----	2.2					
1,2,3,7,8,9-HxCDD	2.6	-----	2.5	J				
Total HxCDD	2.6	-----	2.2	J				
1,2,3,4,6,7,8-HpCDF	ND	-----	6.8		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	9.6		Equivalence: 1.2 pg/L			
Total HpCDF	ND	-----	6.8		(Lower-bound - Using 2005 WHO Factors)			
1,2,3,4,6,7,8-HpCDD	3.4	-----	2.4	J				
Total HpCDD	7.7	-----	2.4	J				
OCDF	ND	-----	10					
OCDD	26	-----	7.3	J				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
R = Recovery outside target range
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	32-I		
Lab Sample ID	20279949017		
Filename	U230625B_15		
Injected By	JRH		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 14:45
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230625A_17 & U230625B_16	Extracted	06/15/2023 12:00
Method Blank ID	BLANK-106861	Analyzed	06/26/2023 01:30

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.64		2,3,7,8-TCDF-13C	2.00	80
Total TCDF	ND	-----	0.64		2,3,7,8-TCDD-13C	2.00	75
					1,2,3,7,8-PeCDF-13C	2.00	80
2,3,7,8-TCDD	ND	-----	0.93		2,3,4,7,8-PeCDF-13C	2.00	77
Total TCDD	ND	-----	0.93		1,2,3,7,8-PeCDD-13C	2.00	84
					1,2,3,4,7,8-HxCDF-13C	2.00	90
1,2,3,7,8-PeCDF	ND	-----	1.4		1,2,3,6,7,8-HxCDF-13C	2.00	73
2,3,4,7,8-PeCDF	ND	-----	1.7		2,3,4,6,7,8-HxCDF-13C	2.00	88
Total PeCDF	ND	-----	1.4		1,2,3,7,8,9-HxCDF-13C	2.00	81
					1,2,3,4,7,8-HxCDD-13C	2.00	82
1,2,3,7,8-PeCDD	2.0	-----	1.8	J	1,2,3,6,7,8-HxCDD-13C	2.00	90
Total PeCDD	2.0	-----	1.8	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	68
					1,2,3,4,7,8,9-HpCDF-13C	2.00	55
1,2,3,4,7,8-HxCDF	1.9	-----	1.5	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	75
1,2,3,6,7,8-HxCDF	ND	-----	1.4		OCDD-13C	4.00	57
2,3,4,6,7,8-HxCDF	ND	-----	1.5				
1,2,3,7,8,9-HxCDF	2.0	-----	1.2	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	6.0	-----	1.2	BJ	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	4.5		2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	ND	-----	2.5				
1,2,3,7,8,9-HxCDD	ND	-----	1.1				
Total HxCDD	ND	-----	1.1				
1,2,3,4,6,7,8-HpCDF	ND	-----	6.3		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	9.1		Equivalence: 2.5 pg/L		
Total HpCDF	ND	-----	6.3		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	6.5	-----	3.7	J			
Total HpCDD	29	-----	3.7	J			
OCDF	-----	5.1	4.5	IJ			
OCDD	-----	55	4.0	IJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	32-S		
Lab Sample ID	20279949018		
Filename	L230626B_15		
Injected By	SMT		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 13:15
ICAL ID	L230613	Received	06/14/2023 09:00
CCal Filename(s)	L230626B_01 & L230626B_22	Extracted	06/15/2023 12:00
Method Blank ID	BLANK-106861	Analyzed	06/26/2023 20:50

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.72		2,3,7,8-TCDF-13C	2.00	88
Total TCDF	ND	-----	0.72		2,3,7,8-TCDD-13C	2.00	83
					1,2,3,7,8-PeCDF-13C	2.00	68
2,3,7,8-TCDD	ND	-----	0.93		2,3,4,7,8-PeCDF-13C	2.00	90
Total TCDD	ND	-----	0.93		1,2,3,7,8-PeCDD-13C	2.00	90
					1,2,3,4,7,8-HxCDF-13C	2.00	102
1,2,3,7,8-PeCDF	1.7	-----	1.1	J	1,2,3,6,7,8-HxCDF-13C	2.00	50
2,3,4,7,8-PeCDF	-----	1.3	0.83	IJ	2,3,4,6,7,8-HxCDF-13C	2.00	112
Total PeCDF	1.7	-----	0.83	J	1,2,3,7,8,9-HxCDF-13C	2.00	104
					1,2,3,4,7,8-HxCDD-13C	2.00	111
1,2,3,7,8-PeCDD	ND	-----	1.2		1,2,3,6,7,8-HxCDD-13C	2.00	93
Total PeCDD	ND	-----	1.2		1,2,3,4,6,7,8-HpCDF-13C	2.00	92
					1,2,3,4,7,8,9-HpCDF-13C	2.00	57
1,2,3,4,7,8-HxCDF	ND	-----	1.5		1,2,3,4,6,7,8-HpCDD-13C	2.00	101
1,2,3,6,7,8-HxCDF	ND	-----	2.3		OCDD-13C	4.00	75
2,3,4,6,7,8-HxCDF	-----	1.4	1.1	IJ			
1,2,3,7,8,9-HxCDF	-----	2.9	1.6	IJ	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	1.1		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	3.2	-----	2.0	J	2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	-----	1.7	1.1	IJ			
1,2,3,7,8,9-HxCDD	ND	-----	1.2				
Total HxCDD	3.2	-----	1.1	J			
1,2,3,4,6,7,8-HpCDF	ND	-----	1.8		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.6		Equivalence: 1.4 pg/L		
Total HpCDF	ND	-----	1.8		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	5.2				
Total HpCDD	25	-----	5.2	J			
OCDF	-----	5.4	4.4	IJ			
OCDD	64	-----	5.8	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	Equipment Blank 1		
Lab Sample ID	20279949019		
Filename	U230701A_03		
Injected By	JRH		
Total Amount Extracted	1000 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 09:15
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_18 & U230701A_16	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	07/01/2023 09:13

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.81	2,3,7,8-TCDF-13C	2.00	80
Total TCDF	ND	-----	0.81	2,3,7,8-TCDD-13C	2.00	73
				1,2,3,7,8-PeCDF-13C	2.00	101
2,3,7,8-TCDD	ND	-----	1.7	2,3,4,7,8-PeCDF-13C	2.00	101
Total TCDD	ND	-----	1.7	1,2,3,7,8-PeCDD-13C	2.00	107
				1,2,3,4,7,8-HxCDF-13C	2.00	79
1,2,3,7,8-PeCDF	ND	-----	0.91	1,2,3,6,7,8-HxCDF-13C	2.00	77
2,3,4,7,8-PeCDF	ND	-----	0.58	2,3,4,6,7,8-HxCDF-13C	2.00	79
Total PeCDF	ND	-----	0.58	1,2,3,7,8,9-HxCDF-13C	2.00	83
				1,2,3,4,7,8-HxCDD-13C	2.00	74
1,2,3,7,8-PeCDD	ND	-----	1.4	1,2,3,6,7,8-HxCDD-13C	2.00	79
Total PeCDD	ND	-----	1.4	1,2,3,4,6,7,8-HpCDF-13C	2.00	66
				1,2,3,4,7,8,9-HpCDF-13C	2.00	70
1,2,3,4,7,8-HxCDF	ND	-----	0.73	1,2,3,4,6,7,8-HpCDD-13C	2.00	74
1,2,3,6,7,8-HxCDF	ND	-----	0.45	OCDD-13C	4.00	72
2,3,4,6,7,8-HxCDF	ND	-----	0.89			
1,2,3,7,8,9-HxCDF	ND	-----	0.97	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.45	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.3	2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	ND	-----	1.5			
1,2,3,7,8,9-HxCDD	ND	-----	1.2			
Total HxCDD	ND	-----	1.2			
1,2,3,4,6,7,8-HpCDF	ND	-----	1.2	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	1.7	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	1.2	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	1.4			
Total HpCDD	ND	-----	1.4			
OCDF	ND	-----	2.4			
OCDD	ND	-----	4.3			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414

Tel: 612-607-1700
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	Equipment Blank 2		
Lab Sample ID	20279949020		
Filename	U230701A_04		
Injected By	JRH		
Total Amount Extracted	1060 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 17:10
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_18 & U230701A_16	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	07/01/2023 10:00

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	1.1	2,3,7,8-TCDF-13C	2.00	63
Total TCDF	ND	-----	1.1	2,3,7,8-TCDD-13C	2.00	55
				1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	ND	-----	2.6	2,3,4,7,8-PeCDF-13C	2.00	79
Total TCDD	ND	-----	2.6	1,2,3,7,8-PeCDD-13C	2.00	86
				1,2,3,4,7,8-HxCDF-13C	2.00	63
1,2,3,7,8-PeCDF	ND	-----	1.2	1,2,3,6,7,8-HxCDF-13C	2.00	57
2,3,4,7,8-PeCDF	ND	-----	0.97	2,3,4,6,7,8-HxCDF-13C	2.00	60
Total PeCDF	ND	-----	0.97	1,2,3,7,8,9-HxCDF-13C	2.00	62
				1,2,3,4,7,8-HxCDD-13C	2.00	53
1,2,3,7,8-PeCDD	ND	-----	1.6	1,2,3,6,7,8-HxCDD-13C	2.00	63
Total PeCDD	ND	-----	1.6	1,2,3,4,6,7,8-HpCDF-13C	2.00	46
				1,2,3,4,7,8,9-HpCDF-13C	2.00	45
1,2,3,4,7,8-HxCDF	ND	-----	1.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	49
1,2,3,6,7,8-HxCDF	ND	-----	1.3	OCDD-13C	4.00	50
2,3,4,6,7,8-HxCDF	ND	-----	1.4			
1,2,3,7,8,9-HxCDF	ND	-----	1.7	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	1.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	3.1	2,3,7,8-TCDD-37Cl4	0.20	76
1,2,3,6,7,8-HxCDD	ND	-----	1.7			
1,2,3,7,8,9-HxCDD	ND	-----	1.4			
Total HxCDD	ND	-----	1.4			
1,2,3,4,6,7,8-HpCDF	ND	-----	2.3	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	3.1	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	2.3	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	2.5			
Total HpCDD	ND	-----	2.5			
OCDF	ND	-----	4.9			
OCDD	ND	-----	7.1			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	Equipment Blank 3		
Lab Sample ID	20279949021		
Filename	U230701A_05		
Injected By	JRH		
Total Amount Extracted	1020 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 08:23
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_18 & U230701A_16	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	07/01/2023 10:46

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	1.2	2,3,7,8-TCDF-13C	2.00	70
Total TCDF	ND	-----	1.2	2,3,7,8-TCDD-13C	2.00	61
				1,2,3,7,8-PeCDF-13C	2.00	82
2,3,7,8-TCDD	ND	-----	1.5	2,3,4,7,8-PeCDF-13C	2.00	85
Total TCDD	ND	-----	1.5	1,2,3,7,8-PeCDD-13C	2.00	89
				1,2,3,4,7,8-HxCDF-13C	2.00	64
1,2,3,7,8-PeCDF	ND	-----	1.0	1,2,3,6,7,8-HxCDF-13C	2.00	64
2,3,4,7,8-PeCDF	ND	-----	1.4	2,3,4,6,7,8-HxCDF-13C	2.00	63
Total PeCDF	ND	-----	1.0	1,2,3,7,8,9-HxCDF-13C	2.00	64
				1,2,3,4,7,8-HxCDD-13C	2.00	59
1,2,3,7,8-PeCDD	ND	-----	1.6	1,2,3,6,7,8-HxCDD-13C	2.00	65
Total PeCDD	ND	-----	1.6	1,2,3,4,6,7,8-HpCDF-13C	2.00	48
				1,2,3,4,7,8,9-HpCDF-13C	2.00	51
1,2,3,4,7,8-HxCDF	ND	-----	0.68	1,2,3,4,6,7,8-HpCDD-13C	2.00	55
1,2,3,6,7,8-HxCDF	ND	-----	1.2	OCDD-13C	4.00	56
2,3,4,6,7,8-HxCDF	ND	-----	1.0			
1,2,3,7,8,9-HxCDF	ND	-----	1.8	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.68	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	2.9	2,3,7,8-TCDD-37Cl4	0.20	75
1,2,3,6,7,8-HxCDD	ND	-----	1.7			
1,2,3,7,8,9-HxCDD	ND	-----	1.2			
Total HxCDD	ND	-----	1.2			
1,2,3,4,6,7,8-HpCDF	ND	-----	2.4	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	4.2	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	2.4	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	3.6			
Total HpCDD	ND	-----	3.6			
OCDF	ND	-----	2.5			
OCDD	ND	-----	4.3			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	Equipment Blank 4		
Lab Sample ID	20279949022		
Filename	U230701A_06		
Injected By	JRH		
Total Amount Extracted	1060 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 08:23
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_18 & U230701A_16	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	07/01/2023 11:32

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.74		2,3,7,8-TCDF-13C	2.00	69
Total TCDF	ND	-----	0.74		2,3,7,8-TCDD-13C	2.00	58
					1,2,3,7,8-PeCDF-13C	2.00	84
2,3,7,8-TCDD	ND	-----	1.4		2,3,4,7,8-PeCDF-13C	2.00	83
Total TCDD	ND	-----	1.4		1,2,3,7,8-PeCDD-13C	2.00	88
					1,2,3,4,7,8-HxCDF-13C	2.00	60
1,2,3,7,8-PeCDF	ND	-----	0.68		1,2,3,6,7,8-HxCDF-13C	2.00	59
2,3,4,7,8-PeCDF	ND	-----	0.62		2,3,4,6,7,8-HxCDF-13C	2.00	60
Total PeCDF	ND	-----	0.62		1,2,3,7,8,9-HxCDF-13C	2.00	62
					1,2,3,4,7,8-HxCDD-13C	2.00	53
1,2,3,7,8-PeCDD	ND	-----	1.3		1,2,3,6,7,8-HxCDD-13C	2.00	62
Total PeCDD	ND	-----	1.3		1,2,3,4,6,7,8-HpCDF-13C	2.00	46
					1,2,3,4,7,8,9-HpCDF-13C	2.00	44
1,2,3,4,7,8-HxCDF	ND	-----	0.81		1,2,3,4,6,7,8-HpCDD-13C	2.00	50
1,2,3,6,7,8-HxCDF	ND	-----	0.95		OCDD-13C	4.00	48
2,3,4,6,7,8-HxCDF	ND	-----	0.84				
1,2,3,7,8,9-HxCDF	ND	-----	1.2		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.81		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.4		2,3,7,8-TCDD-37Cl4	0.20	71
1,2,3,6,7,8-HxCDD	ND	-----	1.3				
1,2,3,7,8,9-HxCDD	ND	-----	1.2				
Total HxCDD	1.6	-----	1.2	J			
1,2,3,4,6,7,8-HpCDF	ND	-----	2.0		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.8		Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	2.0		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	2.1				
Total HpCDD	ND	-----	2.1				
OCDF	ND	-----	4.4				
OCDD	ND	-----	5.3				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	Field Dup 1		
Lab Sample ID	20279949025		
Filename	U230701A_07		
Injected By	JRH		
Total Amount Extracted	1010 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 09:30
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_18 & U230701A_16	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	07/01/2023 12:19

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	ND	-----	0.75		2,3,7,8-TCDF-13C	2.00	56	
Total TCDF	ND	-----	0.75		2,3,7,8-TCDD-13C	2.00	44	
					1,2,3,7,8-PeCDF-13C	2.00	65	
2,3,7,8-TCDD	ND	-----	1.8		2,3,4,7,8-PeCDF-13C	2.00	66	
Total TCDD	ND	-----	1.8		1,2,3,7,8-PeCDD-13C	2.00	73	
					1,2,3,4,7,8-HxCDF-13C	2.00	52	
1,2,3,7,8-PeCDF	ND	-----	0.97		1,2,3,6,7,8-HxCDF-13C	2.00	51	
2,3,4,7,8-PeCDF	ND	-----	0.74		2,3,4,6,7,8-HxCDF-13C	2.00	52	
Total PeCDF	ND	-----	0.74		1,2,3,7,8,9-HxCDF-13C	2.00	57	
					1,2,3,4,7,8-HxCDD-13C	2.00	47	
1,2,3,7,8-PeCDD	ND	-----	1.3		1,2,3,6,7,8-HxCDD-13C	2.00	52	
Total PeCDD	ND	-----	1.3		1,2,3,4,6,7,8-HpCDF-13C	2.00	39	R
					1,2,3,4,7,8,9-HpCDF-13C	2.00	42	
1,2,3,4,7,8-HxCDF	ND	-----	0.93		1,2,3,4,6,7,8-HpCDD-13C	2.00	46	
1,2,3,6,7,8-HxCDF	ND	-----	1.2		OCDD-13C	4.00	45	
2,3,4,6,7,8-HxCDF	ND	-----	1.5					
1,2,3,7,8,9-HxCDF	ND	-----	1.8		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	ND	-----	0.93		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	ND	-----	2.6		2,3,7,8-TCDD-37Cl4	0.20	56	
1,2,3,6,7,8-HxCDD	ND	-----	2.3					
1,2,3,7,8,9-HxCDD	ND	-----	2.5					
Total HxCDD	4.2	-----	2.3	J				
1,2,3,4,6,7,8-HpCDF	ND	-----	2.8		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	4.2		Equivalence: 0.015 pg/L			
Total HpCDF	ND	-----	2.8		(Lower-bound - Using 2005 WHO Factors)			
1,2,3,4,6,7,8-HpCDD	ND	-----	2.9					
Total HpCDD	9.0	-----	2.9	J				
OCDF	ND	-----	4.9					
OCDD	51	-----	7.1	J				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
R = Recovery outside target range

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - PACE New Orleans

Client's Sample ID	Field Dup 2		
Lab Sample ID	20279949026		
Filename	U230701A_08		
Injected By	JRH		
Total Amount Extracted	1040 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	06/12/2023 09:30
ICAL ID	U230524	Received	06/14/2023 09:00
CCal Filename(s)	U230630B_18 & U230701A_16	Extracted	06/15/2023 15:29
Method Blank ID	BLANK-106864	Analyzed	07/01/2023 13:05

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.81		2,3,7,8-TCDF-13C	2.00	73
Total TCDF	ND	-----	0.81		2,3,7,8-TCDD-13C	2.00	58
					1,2,3,7,8-PeCDF-13C	2.00	89
2,3,7,8-TCDD	ND	-----	1.7		2,3,4,7,8-PeCDF-13C	2.00	90
Total TCDD	ND	-----	1.7		1,2,3,7,8-PeCDD-13C	2.00	102
					1,2,3,4,7,8-HxCDF-13C	2.00	72
1,2,3,7,8-PeCDF	ND	-----	0.89		1,2,3,6,7,8-HxCDF-13C	2.00	71
2,3,4,7,8-PeCDF	ND	-----	0.66		2,3,4,6,7,8-HxCDF-13C	2.00	71
Total PeCDF	ND	-----	0.66		1,2,3,7,8,9-HxCDF-13C	2.00	74
					1,2,3,4,7,8-HxCDD-13C	2.00	66
1,2,3,7,8-PeCDD	ND	-----	1.0		1,2,3,6,7,8-HxCDD-13C	2.00	72
Total PeCDD	ND	-----	1.0		1,2,3,4,6,7,8-HpCDF-13C	2.00	54
					1,2,3,4,7,8,9-HpCDF-13C	2.00	58
1,2,3,4,7,8-HxCDF	ND	-----	0.87		1,2,3,4,6,7,8-HpCDD-13C	2.00	62
1,2,3,6,7,8-HxCDF	ND	-----	0.98		OCDD-13C	4.00	61
2,3,4,6,7,8-HxCDF	ND	-----	0.83				
1,2,3,7,8,9-HxCDF	1.1	-----	0.98	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	1.1	-----	0.83	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	2.5	-----	1.6	J	2,3,7,8-TCDD-37Cl4	0.20	70
1,2,3,6,7,8-HxCDD	ND	-----	1.5				
1,2,3,7,8,9-HxCDD	ND	-----	1.4				
Total HxCDD	2.5	-----	1.4	J			
1,2,3,4,6,7,8-HpCDF	ND	-----	1.9		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.9		Equivalence: 0.49 pg/L		
Total HpCDF	ND	-----	1.9		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	11	2.3	IJ			
Total HpCDD	ND	-----	2.3				
OCDF	ND	-----	4.4				
OCDD	58	-----	5.4	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Blank Analysis Results

Lab Sample Name	DFBLKWI		
Lab Sample ID	BLANK-106861	Matrix	Water
Filename	U230620A_04	Dilution	NA
Total Amount Extracted	1020 mL	Extracted	06/15/2023 12:00
ICAL ID	U230524	Analyzed	06/20/2023 14:12
CCal Filename(s)	U230619B_17 & U230620A_18	Injected By	SMT

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.77		2,3,7,8-TCDF-13C	2.00	70
Total TCDF	ND	-----	0.77		2,3,7,8-TCDD-13C	2.00	66
					1,2,3,7,8-PeCDF-13C	2.00	72
2,3,7,8-TCDD	ND	-----	1.6		2,3,4,7,8-PeCDF-13C	2.00	68
Total TCDD	ND	-----	1.6		1,2,3,7,8-PeCDD-13C	2.00	73
					1,2,3,4,7,8-HxCDF-13C	2.00	77
1,2,3,7,8-PeCDF	ND	-----	1.1		1,2,3,6,7,8-HxCDF-13C	2.00	64
2,3,4,7,8-PeCDF	ND	-----	0.74		2,3,4,6,7,8-HxCDF-13C	2.00	73
Total PeCDF	ND	-----	0.74		1,2,3,7,8,9-HxCDF-13C	2.00	72
					1,2,3,4,7,8-HxCDD-13C	2.00	72
1,2,3,7,8-PeCDD	ND	-----	1.2		1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD	ND	-----	1.2		1,2,3,4,6,7,8-HpCDF-13C	2.00	56
					1,2,3,4,7,8,9-HpCDF-13C	2.00	55
1,2,3,4,7,8-HxCDF	ND	-----	0.96		1,2,3,4,6,7,8-HpCDD-13C	2.00	63
1,2,3,6,7,8-HxCDF	ND	-----	1.4		OCDD-13C	4.00	53
2,3,4,6,7,8-HxCDF	ND	-----	0.91				
1,2,3,7,8,9-HxCDF	ND	-----	1.5		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	1.6	-----	0.91	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.7		2,3,7,8-TCDD-37Cl4	0.20	76
1,2,3,6,7,8-HxCDD	ND	-----	1.3				
1,2,3,7,8,9-HxCDD	ND	-----	1.6				
Total HxCDD	ND	-----	1.3				
1,2,3,4,6,7,8-HpCDF	ND	-----	1.9		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.9		Equivalence: 0.0037 pg/L		
Total HpCDF	ND	-----	1.9		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	3.2				
Total HpCDD	ND	-----	3.2				
OCDF	ND	-----	4.9				
OCDD	-----	12	6.5	IJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

J = Estimated value
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Method 8290 Blank Analysis Results

Lab Sample Name	DFBLKWJ		
Lab Sample ID	BLANK-106864	Matrix	Water
Filename	U230627A_08	Dilution	NA
Total Amount Extracted	984 mL	Extracted	06/15/2023 15:29
ICAL ID	U230524	Analyzed	06/27/2023 18:04
CCal Filename(s)	U230627A_02 & U230627A_18	Injected By	SMT

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	1.0	2,3,7,8-TCDF-13C	2.00	67
Total TCDF	ND	-----	1.0	2,3,7,8-TCDD-13C	2.00	60
				1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	ND	-----	1.9	2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD	ND	-----	1.9	1,2,3,7,8-PeCDD-13C	2.00	84
				1,2,3,4,7,8-HxCDF-13C	2.00	63
1,2,3,7,8-PeCDF	ND	-----	1.5	1,2,3,6,7,8-HxCDF-13C	2.00	60
2,3,4,7,8-PeCDF	ND	-----	1.1	2,3,4,6,7,8-HxCDF-13C	2.00	61
Total PeCDF	ND	-----	1.1	1,2,3,7,8,9-HxCDF-13C	2.00	63
				1,2,3,4,7,8-HxCDD-13C	2.00	62
1,2,3,7,8-PeCDD	ND	-----	1.1	1,2,3,6,7,8-HxCDD-13C	2.00	70
Total PeCDD	ND	-----	1.1	1,2,3,4,6,7,8-HpCDF-13C	2.00	58
				1,2,3,4,7,8,9-HpCDF-13C	2.00	62
1,2,3,4,7,8-HxCDF	ND	-----	1.1	1,2,3,4,6,7,8-HpCDD-13C	2.00	70
1,2,3,6,7,8-HxCDF	ND	-----	1.5	OCDD-13C	4.00	65
2,3,4,6,7,8-HxCDF	ND	-----	1.3			
1,2,3,7,8,9-HxCDF	ND	-----	1.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	1.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.8	2,3,7,8-TCDD-37Cl4	0.20	67
1,2,3,6,7,8-HxCDD	ND	-----	1.5			
1,2,3,7,8,9-HxCDD	ND	-----	2.0			
Total HxCDD	ND	-----	1.5			
1,2,3,4,6,7,8-HpCDF	ND	-----	2.4	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.2	Equivalence: 0.00 pg/L		
Total HpCDF	ND	-----	2.2	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	1.8			
Total HpCDD	ND	-----	1.8			
OCDF	ND	-----	3.7			
OCDD	ND	-----	4.9			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

REPORT OF LABORATORY ANALYSIS

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-106862		
Filename	U230620A_01	Matrix	Water
Total Amount Extracted	1030 mL	Dilution	NA
ICAL ID	U230524	Extracted	06/15/2023 12:00
CCal Filename(s)	U230619B_17 & U230620A_18	Analyzed	06/20/2023 11:55
Method Blank ID	BLANK-106861	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.22	110	2,3,7,8-TCDF-13C	2.0	72
Total TCDF				2,3,7,8-TCDD-13C	2.0	69
				1,2,3,7,8-PeCDF-13C	2.0	78
2,3,7,8-TCDD	0.20	0.23	115	2,3,4,7,8-PeCDF-13C	2.0	71
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	76
				1,2,3,4,7,8-HxCDF-13C	2.0	74
1,2,3,7,8-PeCDF	1.0	1.1	107	1,2,3,6,7,8-HxCDF-13C	2.0	66
2,3,4,7,8-PeCDF	1.0	1.1	112	2,3,4,6,7,8-HxCDF-13C	2.0	74
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	73
				1,2,3,4,7,8-HxCDD-13C	2.0	64
1,2,3,7,8-PeCDD	1.0	0.95	95	1,2,3,6,7,8-HxCDD-13C	2.0	79
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	58
				1,2,3,4,7,8,9-HpCDF-13C	2.0	56
1,2,3,4,7,8-HxCDF	1.0	0.96	96	1,2,3,4,6,7,8-HpCDD-13C	2.0	61
1,2,3,6,7,8-HxCDF	1.0	1.0	102	OCDD-13C	4.0	53
2,3,4,6,7,8-HxCDF	1.0	1.0	102			
1,2,3,7,8,9-HxCDF	1.0	1.1	106	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.0	102	2,3,7,8-TCDD-37Cl4	0.20	78
1,2,3,6,7,8-HxCDD	1.0	0.97	97			
1,2,3,7,8,9-HxCDD	1.0	1.0	100			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	0.77	77			
1,2,3,4,7,8,9-HpCDF	1.0	0.77	77			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.66	66 R			
Total HpCDD						
OCDF	2.0	1.2	60 R			
OCDD	2.0	1.1	54 R			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-106865		
Filename	U230627A_03	Matrix	Water
Total Amount Extracted	985 mL	Dilution	NA
ICAL ID	U230524	Extracted	06/15/2023 15:29
CCal Filename(s)	U230627A_02 & U230627A_18	Analyzed	06/27/2023 14:13
Method Blank ID	BLANK-106864	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.23	115	2,3,7,8-TCDF-13C	2.0	51
Total TCDF				2,3,7,8-TCDD-13C	2.0	45
				1,2,3,7,8-PeCDF-13C	2.0	62
2,3,7,8-TCDD	0.20	0.23	116	2,3,4,7,8-PeCDF-13C	2.0	62
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	68
				1,2,3,4,7,8-HxCDF-13C	2.0	56
1,2,3,7,8-PeCDF	1.0	1.1	106	1,2,3,6,7,8-HxCDF-13C	2.0	55
2,3,4,7,8-PeCDF	1.0	1.1	112	2,3,4,6,7,8-HxCDF-13C	2.0	53
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	53
				1,2,3,4,7,8-HxCDD-13C	2.0	53
1,2,3,7,8-PeCDD	1.0	1.0	103	1,2,3,6,7,8-HxCDD-13C	2.0	57
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	49
				1,2,3,4,7,8,9-HpCDF-13C	2.0	51
1,2,3,4,7,8-HxCDF	1.0	1.1	106	1,2,3,4,6,7,8-HpCDD-13C	2.0	60
1,2,3,6,7,8-HxCDF	1.0	1.1	115	OCDD-13C	4.0	53
2,3,4,6,7,8-HxCDF	1.0	1.1	115			
1,2,3,7,8,9-HxCDF	1.0	1.2	116	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.1	112	2,3,7,8-TCDD-37Cl4	0.20	71
1,2,3,6,7,8-HxCDD	1.0	1.1	107			
1,2,3,7,8,9-HxCDD	1.0	1.1	115			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.1	111			
1,2,3,4,7,8,9-HpCDF	1.0	1.2	118			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	1.0	103			
Total HpCDD						
OCDF	2.0	2.4	121			
OCDD	2.0	2.4	122			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCSD-106863		
Filename	U230620A_02	Matrix	Water
Total Amount Extracted	1010 mL	Dilution	NA
ICAL ID	U230524	Extracted	06/15/2023 12:00
CCal Filename(s)	U230619B_17 & U230620A_18	Analyzed	06/20/2023 12:40
Method Blank ID	BLANK-106861	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.24	118	2,3,7,8-TCDF-13C	2.0	67
Total TCDF				2,3,7,8-TCDD-13C	2.0	64
				1,2,3,7,8-PeCDF-13C	2.0	74
2,3,7,8-TCDD	0.20	0.24	118	2,3,4,7,8-PeCDF-13C	2.0	74
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	78
				1,2,3,4,7,8-HxCDF-13C	2.0	67
1,2,3,7,8-PeCDF	1.0	1.1	110	1,2,3,6,7,8-HxCDF-13C	2.0	48
2,3,4,7,8-PeCDF	1.0	1.1	112	2,3,4,6,7,8-HxCDF-13C	2.0	63
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	68
				1,2,3,4,7,8-HxCDD-13C	2.0	63
1,2,3,7,8-PeCDD	1.0	0.95	95	1,2,3,6,7,8-HxCDD-13C	2.0	72
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	52
				1,2,3,4,7,8,9-HpCDF-13C	2.0	49
1,2,3,4,7,8-HxCDF	1.0	0.96	96	1,2,3,4,6,7,8-HpCDD-13C	2.0	56
1,2,3,6,7,8-HxCDF	1.0	0.95	95	OCDD-13C	4.0	54
2,3,4,6,7,8-HxCDF	1.0	1.1	106			
1,2,3,7,8,9-HxCDF	1.0	1.0	104	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.1	106	2,3,7,8-TCDD-37Cl4	0.20	74
1,2,3,6,7,8-HxCDD	1.0	0.92	92			
1,2,3,7,8,9-HxCDD	1.0	0.96	96			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	0.74	74			
1,2,3,4,7,8,9-HpCDF	1.0	0.72	72			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.62	62 R			
Total HpCDD						
OCDF	2.0	1.1	54 R			
OCDD	2.0	1.1	54 R			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCSD-106866		
Filename	U230627A_04	Matrix	Water
Total Amount Extracted	979 mL	Dilution	NA
ICAL ID	U230524	Extracted	06/15/2023 15:29
CCal Filename(s)	U230627A_02 & U230627A_18	Analyzed	06/27/2023 14:59
Method Blank ID	BLANK-106864	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.21	103	2,3,7,8-TCDF-13C	2.0	14 R
Total TCDF				2,3,7,8-TCDD-13C	2.0	13 R
				1,2,3,7,8-PeCDF-13C	2.0	16 R
2,3,7,8-TCDD	0.20	0.20	100	2,3,4,7,8-PeCDF-13C	2.0	15 R
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	17 R
				1,2,3,4,7,8-HxCDF-13C	2.0	15 R
1,2,3,7,8-PeCDF	1.0	0.95	95	1,2,3,6,7,8-HxCDF-13C	2.0	14 R
2,3,4,7,8-PeCDF	1.0	1.0	101	2,3,4,6,7,8-HxCDF-13C	2.0	14 R
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	14 R
				1,2,3,4,7,8-HxCDD-13C	2.0	14 R
1,2,3,7,8-PeCDD	1.0	0.95	95	1,2,3,6,7,8-HxCDD-13C	2.0	15 R
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	13 R
				1,2,3,4,7,8,9-HpCDF-13C	2.0	14 R
1,2,3,4,7,8-HxCDF	1.0	1.0	100	1,2,3,4,6,7,8-HpCDD-13C	2.0	17 R
1,2,3,6,7,8-HxCDF	1.0	1.0	101	OCDD-13C	4.0	15 R
2,3,4,6,7,8-HxCDF	1.0	1.00	100			
1,2,3,7,8,9-HxCDF	1.0	1.0	103	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.0	104	2,3,7,8-TCDD-37Cl4	0.20	15
1,2,3,6,7,8-HxCDD	1.0	1.0	102			
1,2,3,7,8,9-HxCDD	1.0	1.0	103			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.0	104			
1,2,3,4,7,8,9-HpCDF	1.0	1.0	102			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	0.92	92			
Total HpCDD						
OCDF	2.0	2.1	106			
OCDD	2.0	2.2	109			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 8290

Spike Recovery Relative Percent Difference (RPD) Results

Client	PACE New Orleans		
Spike 1 ID	LCS-106862	Spike 2 ID	LCSD-106863
Spike 1 Filename	U230620A_01	Spike 2 Filename	U230620A_02

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDF	110	118	7.0
2,3,7,8-TCDD	115	118	2.6
1,2,3,7,8-PeCDF	107	110	2.8
2,3,4,7,8-PeCDF	112	112	0.0
1,2,3,7,8-PeCDD	95	95	0.0
1,2,3,4,7,8-HxCDF	96	96	0.0
1,2,3,6,7,8-HxCDF	102	95	7.1
2,3,4,6,7,8-HxCDF	102	106	3.8
1,2,3,7,8,9-HxCDF	106	104	1.9
1,2,3,4,7,8-HxCDD	102	106	3.8
1,2,3,6,7,8-HxCDD	97	92	5.3
1,2,3,7,8,9-HxCDD	100	96	4.1
1,2,3,4,6,7,8-HpCDF	77	74	4.0
1,2,3,4,7,8,9-HpCDF	77	72	6.7
1,2,3,4,6,7,8-HpCDD	66	62	6.3
OCDF	60	54	10.5
OCDD	54	54	0.0

%REC = Percent Recovered
RPD = The difference between the two values divided by the mean value

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Method 8290

Spike Recovery Relative Percent Difference (RPD) Results

Client	PACE New Orleans		
Spike 1 ID	LCS-106865	Spike 2 ID	LCSD-106866
Spike 1 Filename	U230627A_03	Spike 2 Filename	U230627A_04

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDF	115	103	11.0
2,3,7,8-TCDD	116	100	14.8
1,2,3,7,8-PeCDF	106	95	10.9
2,3,4,7,8-PeCDF	112	101	10.3
1,2,3,7,8-PeCDD	103	95	8.1
1,2,3,4,7,8-HxCDF	106	100	5.8
1,2,3,6,7,8-HxCDF	115	101	13.0
2,3,4,6,7,8-HxCDF	115	100	14.0
1,2,3,7,8,9-HxCDF	116	103	11.9
1,2,3,4,7,8-HxCDD	112	104	7.4
1,2,3,6,7,8-HxCDD	107	102	4.8
1,2,3,7,8,9-HxCDD	115	103	11.0
1,2,3,4,6,7,8-HpCDF	111	104	6.5
1,2,3,4,7,8,9-HpCDF	118	102	14.5
1,2,3,4,6,7,8-HpCDD	103	92	11.3
OCDF	121	106	13.2
OCDD	122	109	11.3

%REC = Percent Recovered
RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSIS

Appendix F

ACL Calculations and Dioxin/Furan Screening Criteria

APPENDIX F

ACL CALCULATIONS AND DIOXIN/FURAN SCREENING CRITERIA

Introduction

Alternate Concentration Limits (ACLs) for the ASPA were developed and presented in the Corrective Measure Study (CMS) dated September 2001, which was approved by ADEM in a letter dated November 9, 2001. In response to ADEM's comments during the 2013 application process, ASPA reviewed the calculations used to generate the ACLs and confirmed the values were prepared in accordance with appropriate ADEM regulations and guidance.

For the 2024 application process, ADEM has again requested that ASPA review the ACL calculations and update them as appropriate based on current ADEM and USEPA guidance (ADEM, 2017, ADEM 2021, ADEM, 2023, USEPA, 1987, and USEPA Region 4 and TechLaw, undated).

With the 2024 Renewal Application three new constituents are being added to the corrective action monitoring program: aldrin, cobalt, and 1,1-dichloroethane. These three constituents were detected in groundwater at concentrations greater than initial screening criteria or groundwater protection standards. In addition, screening criteria were calculated for the dioxin/furans detected in groundwater.

An environmental covenant has been recorded for the property that prohibits the use of groundwater as a potable source. Therefore, ACLs were calculated that are protective of the actual potential exposure associated with site groundwater mixing with surface water in the Mobile River.

The basis of the ACL methodology is re-presented below along with the description of the process used to calculate the ACLs. The detail regarding the process was originally presented in the Corrective Measures Study. The methodology and calculations were reviewed and updated as appropriate for the noted constituents.

Basis/Methodology

In Section 6.10 and Appendix C of the updated ARBCA Guidance Manual (ADEM, 2017), ADEM presents the concept of a Dilution Attenuation Factor (DAF) that may be used to calculate allowable source water concentrations in groundwater at different distances between the surface water and the source. During the process of developing ACLs in the CMS, the Alabama State Port Authority (ASPA) calculated a dilution-attenuation factor of 2.75×10^5 for groundwater that is based on mixing with hydraulically-connected surface water (i.e., the Mobile River) (Harding ESE, 2001).

Assumptions for the DAF, as provided in the CMS, include the following:

- Discharge to the Mobile River will not cause adverse ecological effects,
- Discharge to the Mobile River will not cause statistically significant increases in constituent concentrations in the Mobile River,
- Discharge to the Mobile River will not cause measurable constituent concentrations in the Mobile River (resulting concentrations will be less than analytical detection limits),

- Discharge to the Mobile River will not cause exceedances of Alabama Surface Water Quality Standards (ADEM, 2021),
- Discharge to the Mobile River will not result in significant human health risks, and
- The uppermost aquifer affected by the site cannot be used as a potable water supply due to adverse natural water quality, specifically high Total Dissolved Solids, exceeding Alabama Maximum Contaminant Levels (MCLs). The high level of Total Dissolved Solids in the aquifer is a natural condition that is unrelated to waste management practices at the site.

The assumptions used in the DAF calculations were presented in Section 4.1.3.13 of the CMS (Derivation of ACLs). The Mobile River was assumed to be the point of exposure (POE). The rate of discharge to the Mobile River was calculated using site-specific parameters that are discussed below to evaluate whether the parameters are still applicable to current site conditions or should be updated. Per ARBCA guidance, the 7Q10 flow was used to estimate the upstream flow. As a result, the ACL equation was developed as presented below where the ACL in micrograms per liter (µg/L) is equal to the acceptable surface water concentration (Csw) times the DAF (which was 2.75 x 10^5 as determined in the CMS).

$$ACL\left(\frac{\mu g}{L}\right) = \frac{CswR}{KiAf_0} = \frac{4.8x10^9 \frac{L}{day} x\ Cws\ (\frac{\mu g}{L})}{15\frac{ft}{day} x\ 0.0004\ x\ 1350\ ft\ x\ 95\ ft\ x\ 28.32\frac{L}{ft^3}\ x\ 0.8} = 2.75\ x\ 10^5\ \ Csw \text{ (per the CMS)}$$

The 7Q10 is the minimum 7-day low flow that occurs once in 10 years (7Q10). The value used in the CMS is referenced to *Assessment of AWTC Site Groundwater Contamination of Water Quality of the Mobile River and Bay* (Limno-Tech, Inc., 1989). In that document, the estimated freshwater flow of the combined Mobile River system before it splits into four separate channels (i.e., the Mobile, the Tensaw, the Apalachee, and the Blakely Rivers) was noted to be 62,800 ft^3/sec (5.4 x 10^9 ft^3/day) with a conservative low flow (7Q10) of 7,800 ft^3/sec (6.7 x 10^8 ft^3/day). After consultation with the U.S. Army Corps of Engineers, it was determined that the branch of the Mobile River that flows past the Site comprises one-quarter (1/4) of the flow or an average flow of 1.4 x 10^9 ft^3/day and a 7Q10 low flow of 1.7 x 10^8 ft^3/day (Limno-Tech, Inc., 1989), or 4.8 x 10^9 L/day.

To update the 7Q10 low flow value, the study area as described by Limno-Tech was re-delineated using StreamStats (USGS, 2024). The drainage area of interest was determined by selecting a location prior to the branching of the Tensaw River from the Mobile River (see supporting StreamStats report following Appendix F tables). StreamStats estimated the 7Q10 at that point to be 9,920 cfs, and assuming one-quarter of the flow as representative of the Mobile River at the Port results in a 7Q10 of 2,480 cfs. or 6.1 x 10^9 L/day.

The hydraulic conductivity value (K) of 15 ft/day remains unchanged and represents the average of the hydraulic conductivity values calculated using data derived from slug tests, bail-down tests, falling head permeability tests and grain size analyses (Harding ESE, 2001) The 2021 CMER presented a range of hydraulic gradients (i) for the shallow (0.00117 ft/ft to 0.00158 ft/ft), intermediate (0.000602 ft/ft – 0.000727 ft/ft), and deep (0.000412 ft/ft – 0.000436 ft/ft) groundwater based on water level gauging conducted in June and December 2021. As noted in the CMS, the significant impact of localized soil and hydraulic conditions severely limit the

accuracy and applicability of calculated shallow zone velocities. Based on the 2021 hydraulic gradients the value used in the DAF calculation was revised to 0.00054 ft/ft which represents that average of gradient of the intermediate and deep groundwater zones.

The value of 28.32 L/ft^3 is a conversion factor for the number of liters per cubic foot. The value of 0.8 represents the fraction of freshwater at the point of groundwater discharge and is unchanged as it is used to adjust the equation to estimate surface water concentrations in the Mobile River channel resulting from freshwater discharge of groundwater, and not the influx of saline or marine water from the bay.

With the change to the 7Q10 and the hydraulic gradient, the updated ACL calculation with a DAF of 2.59 x 10^5 is:

$$ACL\left(\frac{\mu g}{L}\right) = \frac{CswR}{KiAFf_0} = \frac{6.1x10^9 \ \frac{L}{day} x \ Cws \ (\frac{\mu g}{L})}{15\frac{ft}{day} x \ 0.00054 \ x \ 1350 \ ft \ x \ 95 \ ft \ x \ 28.32\frac{L}{ft^3} \ x \ 0.8} = 2.59 \ x \ 10^5 \ \ Csw$$

ASPA also completed a review of the parameters used to identify an acceptable surface water concentration. These factors included:

1. Groundwater hazardous constituents should be non-detectable in the Mobile River. Analytical detection limits for the ACL constituents were presented in CMS Table 4.8, herein provided as Table F-1. The analytical detection limits have been updated to reflect representative method detection limits based on the analytical results for 15-I as reported in the 2021 CMER (Wood, 2022).
2. Benchmark concentrations that are protective of the representative receptors potentially exposed to surface water were presented in CMS Table 4.7. These concentrations were obtained from the ADEM-approved ecological risk assessment (ERA). The lowest of these benchmark concentrations for each chemical addressed in the ERA was used as the surface water ecological benchmark value and are listed on Table F-1. If a value is not available for a referenced constituent, it is noted as "NA".
3. Alabama Water Quality Criteria (ADEM, 2021) and Marine Water Quality Criteria from current sources. Because of the designated use of the Mobile River and Mobile Bay as Fish & Wildlife and Limited Warmwater Fishery, the Marine Acute and Chronic Aquatic Water Quality Criteria were deemed most applicable to the Mobile River next to ASPA. Additional sources for marine water quality criteria include USEPA Region 4 Saltwater Screening Values for hazardous waste sites (2018), Canadian Council of Ministers of the Environment (2024), and USEPA Region 3 Marine Benchmarks (2006). The lesser of the acute and chronic criteria was selected and presented in CMS Table 4.8, which is updated and herein presented as Table F-1.

As summarized in Table F-1, the lesser of the groundwater detection limit, the ecological risk assessment benchmark concentrations, and the Marine Water Quality Criteria was selected as the Csw. The selected Csw was then multiplied by the site-specific DAF to generate a chemical-specific ACLsw (Table F-1). Water solubilities for the site-specific compounds were verified using

the most current RSL Chemical-specific Parameters Supporting Table (USEPA, 2023) and are listed on Table F-2, which is an update of CMS Table 4.1.

As a next step, the ACLs with the potential for vapor intrusion were evaluated. The current ARBCA guidance (2017) indicates that groundwater concentrations protective of indoor inhalation should be estimated using the Johnson & Ettinger model. This model, Johnson & Ettinger Model Version 6.0 (USEPA, 2018) was used to calculate the groundwater concentrations protective of indoor air for the compounds considered to have the potential to volatilize from groundwater (Table F-2). This is an update to the previous methodology.

The average groundwater temperature was assumed to be 20 °C based on general information provided in the Johnson & Ettinger Model documentation (2017) for the Mobile, Alabama area. The average depth to groundwater for the shallow zone was determined to be 8.82 feet (2.69 meters) based on the June 2021 and December 2021 gauging events. The soil was assumed to be classified as sand. The potential for groundwater volatilization to indoor air was evaluated based on a default commercial slab-on-grade building.

The target groundwater concentrations protective of indoor air are the ACLair values and are presented on Table F-3. Historical tables F-3 through F-5 have been replaced with Table F-3 and the supporting Johnson and Ettinger documentation which follows the Appendix F tables. Typically, the lower of the ACLsw and ACLair values would be selected as the protective risk-based values. However, the environmental covenant placed on the property precludes the construction of occupied buildings. Therefore, the exposure pathway for groundwater volatilization to indoor air is incomplete. The ACLmin values presented on Table F-3 are equivalent to the ACLsw which represent the potentially complete exposure pathway for groundwater discharge to surface water.

Table F-3 also lists the historical maximum observed groundwater concentrations from the CMS. These values serve as baseline concentrations and are used to monitor concentration trends (i.e., no increases from baseline or background conditions) in comparison to the maximum concentrations from 2013 to 2023. The selected ACL for each compound is the lower of the ACLsw and the historical baseline maximum observed concentration.

Dioxin/Furan Congeners

Dioxin and furan congeners are added to the compliance monitoring program based on detection. The following congeners have been detected during Appendix IX compliance monitoring:

- Total PeCDD
- Total PeCDF
- Total TCDF
- 1,2,3,4,7,8,9-HpCDF
- 1,2,3,4,7,8-HxCDD
- 1,2,3,4,7,8-HxCDF
- 1,2,3,6,7,8-HxCDD
- 1,2,3,6,7,8-HxCDF
- 1,2,3,7,8,9-HxCDD
- 1,2,3,7,8,9-HxCDF
- 1,2,3,7,8-PeCDD
- 1,2,3,7,8-PeCDF
- 2,3,4,6,7,8-HxCDF
- 2,3,4,7,8-PeCDF
- 2,3,7,8-TCDD
- 2,3,7,8-TCDF

In correspondence dated September 6, 2019 (ADEM, 2019), the Alabama Department of Environmental Management (ADEM) provided two potential approaches (Option 2a and Option 2b) for establishing alternate concentration limits (ACLs) for dioxin/furan congeners. Option 2a is to calculate congener-specific ACLs based on the screening level for 2,3,7,8-TCDD and established congener-specific toxicity equivalency factors (TEFs). Detected concentrations of each congener are then compared to the congener-specific screening criterion to determine compliance. Option 2b is to establish a screening criterion for total 2,3,7,8-TCDD toxicity equivalency (TEQ) and determine compliance by multiplying congener-specific concentrations by their established TEF, summing the resulting concentrations, and comparing the sum to the screening criterion for 2,3,7,8-TCDD TEQ. The use of Option 2b was previously discussed with ADEM. However, it has become apparent that the laboratory data will be more readily managed, with fewer opportunities to introduce error, if Option 2a is utilized.

Therefore, the Alabama State Port Authority (ASPA) has selected to use Option 2a. In accordance with the selected approach, congener-specific screening criteria were calculated by dividing the 2,3,7,8-tetrachlorodienzo-p-dioxin (TCDD) screening level concentration (i.e., the USEPA Maximum Contaminant Level (MCL) for drinking water of 3.0E-08 milligrams per liter [mg/L]) by the congener-specific TEF as identified by the World Health Organization and summarized in *Recommended Toxicity Equivalence Factors (TEFs) for Human Health Risk Assessments of 2,3,7,8-Tetrachlorodibenzo-p-dioxin and Dioxin-like Compounds (*USEPA, 2010). The resulting congener-specific screening criterion in units of mg/L as summarized in Table F-4 are the proposed permit limits. Table F-4 also presents the proposed screening criteria in units of picograms per liter (pg/L) to allow for comparison to screening criteria presented in the previous Corrective Measures Effectiveness Reports.

A screening criterion is not proposed for total 2,3,7,8-TCDD TEQ as the compounds will be evaluated on a congener-specific basis. In addition, as TEFs are not available for “total” compounds and the congeners are evaluated on an individual basis, the existing concentration limits for the “total” congeners including HpCDD, total; HpCDF, total; HxCDF, total; HxCDD, total; and TCDD, total, are requested to be removed from the Permit Table III.3 and are no longer proposed as screening criteria. These “total” compounds will still be monitored and should remain in the permit, but will not be compared to acceptable concentration limits.

Summary and Conclusions

Groundwater is not a potential source for drinking water because of its brackish nature and total dissolved solids content. The potential for vapor intrusion into buildings is also not complete as the environmental covenant on the property precludes the construction of occupied buildings. Discharge to surface water (Mobile River) is the most likely exposure endpoint and is addressed through a site-specific transport and mixing DAF. This approach is designed to be protective of ecological receptors, which are the more sensitive surface water receptors than human receptors in the risk assessments, and protective of aquatic species. The ACLs were also designed to prevent detectable concentrations of groundwater constituents in surface water or increasing concentrations within the site aquifers.

In summary, ACLs are based on complete exposure pathways for the site. A multiple-step process was used to identify the ACLs as described above. Based on the potentially complete exposure pathways the selected ACL for each compound is the lower of the ACLsw and historical baseline maximum detection. The ACLs are presented in units of micrograms per liter (µg/L) in accordance with the historical ACL demonstrations, and a column has been added to present the ACLs in units of milligrams per liter (mg/L) also. The majority of the selected ACLs are based on the baseline groundwater concentrations, with no application of the DAF. Thus, the ACLs remain protective of human health and the environment.

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APPENDIX F TABLES

TABLE F-1 (Updated Table 4.8 from the Corrective Measures Study)
CALCULATED ACLs FOR THE PROTECTION OF THE MOBILE RIVER/MOBILE BAY SYSTEM
Alabama Wood Treating Corporation Site, Mobile, Alabama
Alabama State Port Authority

ACL Constituent	Minimum Ecological Benchmark[1] (µg/L)	Method Detection Limit[2] (µg/L)	Marine Chronic Water Quality Criteria (µg/L)[1]	Source for Water Quality Criteria[1]	Lesser of MDL, Benchmark, or Criterion (µg/L)	ACL_{SW} (µg/L)	ACL_{SW} (mg/L)
Acenaphthene	197	0.0886	15	REGION 4, 2018	0.0886	2.30E+04	23
Acenaphthylene	197	0.0921	28	REGION 4, 2018	0.0921	2.39E+04	24
Aldrin	NA	0.0198	0.0001	REGION 4, 2018	0.0001	2.59E+01	0.026
Anthracene	0.35	0.0804	0.43	REGION 4, 2018	0.0804	2.08E+04	21
Arsenic	401	0.20000	36	ADEM	0.200	5.18E+04	52
Benz(a)anthracene	0.3	0.199	0.350	REGION 4, 2018	0.199	5.16E+04	52
Benzene	8250	0.0941	110	REGION 4, 2018	0.0941	2.44E+04	24
Benzo(a)pyrene	0.3	0.0381	0.02	REGION 4, 2018	0.02	5.18E+03	5
Benzo(b)fluoranthene	0.3	0.130	0.06	REGION 4, 2018	0.06	1.56E+04	16
Benzo(ghi)perylene	0.3	0.121	0.012	REGION 4, 2018	0.012	3.11E+03	3
Benzo(k)fluoranthene	0.3	0.120	0.06	REGION 4, 2018	0.06	1.56E+04	16
Bis(2-ethylhexyl) phthalate	8.4	0.895	6.0	REGION 4, 2018	0.895	2.32E+05	232
Chrysene	NA	0.130	0.35	REGION 4, 2018	0.1	3.37E+04	34
Cobalt	NA	0.6000	19	REGION 4, 2018	0.6	1.56E+05	156
Copper	0.23	0.83	3.1	ADEM	0.23	5.96E+04	60
Dibenzofuran	20	0.0970	61	REGION 4, 2018	0.097	2.51E+04	25
Dichloroethane, 1,1	NA	0.100	2,692	REGION 4, 2018	0.100	2.59E+04	26
Dimethylphenol 2,4-	NA	0.0636	193	REGION 4, 2018	0.0636	1.65E+04	16
Di-n-octyl phthalate	708	0.932	215	REGION 4, 2018	0.932	2.42E+05	242
Dioxane, 1,4-	NA	0.0447	200733	REGION 4, 2018	0.0447	1.16E+04	12
Fluoranthene	30	0.102	0.82	REGION 4, 2018	0.102	2.64E+04	26
Fluorene	15	0.0844	24	REGION 4, 2018	0.084	2.19E+04	22
Hexachloroethane	12	0.127	33	REGION 4, 2018	0.127	3.29E+04	33
Indeno(1,2,3-cd)pyrene	3	0.279	0.012	REGION 4, 2018	0.012	3.11E+03	3
Methylaniline, 2- (o-Toluidine)	NA	3.5	NA	--	3.5	9.15E+05	915
Methylnaphthalene, 1-	526	0.0790	52	REGION 4, 2018	0.0790	2.05E+04	20
Methylnaphthalene, 2-	526	0.117	52	REGION 4, 2018	0.117	3.03E+04	30
Methylphenol, 3-	489	0.168	995	REGION 4, 2018	0.168	4.35E+04	44
Methylphenol, 4-	489	0.168	995	REGION 4, 2018	0.168	4.35E+04	44
Naphthalene	620	0.159	1.4	REGION 4, 2018	0.159	4.12E+04	41
Naphthylamine, 1-	NA	0.289	NA	--	0.289	7.49E+04	75

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Alabama State Port Authority

ACL Constituent	Minimum Ecological Benchmark[1] (µg/L)	Method Detection Limit[2] (µg/L)	Marine Chronic Water Quality Criteria (µg/L)[1]	Source for Water Quality Criteria[1]	Lesser of MDL, Benchmark, or Criterion (µg/L)	ACL_{SW} (µg/L)	ACL_{SW} (mg/L)
Naphthylamine, 2-	NA	4.48	NA	--	4.48	1.16E+06	1,161
Nitrosodiphenylamine, N-	332	2.37	48	REGION 4, 2018	2.37	6.14E+05	614
Pentachlorophenol	13	0.313	7.9	ADEM	0.313	8.11E+04	81
Phenanthrene	3	0.112	4.6	REGION 4, 2018	0.112	2.90E+04	29
Phenol	200	4.33	58	REGION 4, 2018	4.33	1.12E+06	1,122
Phenolics, total	200	4.33	58	--	4.33	1.12E+06	1,122
Pyrene	3.0	5.0	0.11	REGION 4, 2018	0.11	2.85E+04	29
Vanadium	NA	2.3	27	REGION 4, 2018	2.3	5.96E+05	596
Vinyl chloride	NA	0.234	2276	REGION 4, 2018	0.234	6.06E+04	61
Xylenes, total	6680	0.174	260	REGION 4, 2018	0.174	4.51E+04	45

1 - ESE, 2000

2 - Method Detection Limits obtained from representative sample 15-1 as summarized in the 2021 CMER.

3 - Alabama Toxic Pollutant Criteria for Protection of Aquatic Life, Lesser of Marine Chronic or Marine Acute (Source = ADEM). If not available, secondary source: USEPA Region 4 Saltwater Surface Water Screening Value (Region 4 EPA, 2018); USEPA Region 3 Marine Benchmarks (BTAG, 2006) and

4 - Freshwater chronic values are used for cobalt and vanadium (USEPA Region 4, 2018)

ACL_{SW} = Alternate Cleanup Level for Surface Water

MDL = Method Detection Limit

ug/L = micrograms per liter

NA = Not available

PREPARED/DATE: SBM 03/25/24

CHECKED BY/DATE: IMR 03/25/24

TABLE F-2 (Updated Table 4.1 from the Corrective Measures Study)
Physiochemical Properties of Hazardous Constituents Detected in Groundwater
Alabama Wood Treating Corporation Site, Mobile, Alabama
Alabama State Port Authority

Organic COPC	MW (g/mol)	Water Solubility (mg/L at 25°C)	Vapor Pressure (mmHg at 25°C)	H (atm-m^3/mol @ 25°C)	H' (unitless)	Koc (L/kg)	log Kow (L/kg)	Da (cm^2/sec)	Dw (cm^2/sec)	Volatile? (e)
Acenaphthene	154.21 (a)	3.9E+00 (a)	2.15E-03 (a)	1.8E-04 (a)	7.5E-03 (a)	5.0E+03 (a)	3.9 (a)	5.1E-02 (a)	8.3E-06 (a)	YES
Acenaphthylene	152.2 (b)	1.6E+01 (b)	6.68E-03 (c)	4.7E-03 (b)	4.7E-03 (b)	5.0E+03 (b)	3.9 (d)	4.5E-02 (d)	7.0E-06 (d)	YES
Aldrin	365 (a)	1.7E-02 (a)	1.2E-04 (a)	4.4E-05 (a)	1.8E-03 (a)	8.2E+04 (a)	6.5 (a)	2.3E-02 (a)	5.8E-06 (a)	**YES**
Anthracene	178.24 (a)	4.3E-02 (a)	6.53E-06 (a)	5.6E-05 (a)	2.3E-03 (a)	1.6E+04 (a)	4.5 (a)	3.9E-02 (a)	7.9E-06 (a)	**YES**
Arsenic	74.922 (a)	NA	NA	NA	NA	NA	NA	NA	NA	NO
Benz[a]anthracene	228.3 (a)	9.4E-03 (a)	2.10E-07 (a)	1.2E-05 (a)	4.9E-04 (a)	1.8E+05 (a)	5.8 (a)	2.6E-02 (a)	6.7E-06 (a)	**YES**
Benzene	78.115 (a)	1.8E+03 (a)	9.48E+01 (a)	5.6E-03 (a)	2.3E-01 (a)	1.5E+02 (a)	2.1 (a)	9.0E-02 (a)	1.0E-05 (a)	**YES**
Benzo[a]pyrene	252.32 (a)	1.6E-03 (a)	5.49E-09 (a)	4.6E-07 (a)	1.9E-05 (a)	5.9E+05 (a)	6.1 (a)	2.5E-02 (a)	6.6E-06 (a)	NO
Benzo[b]fluoranthene	252.32 (a)	1.5E-03 (a)	5.00E-07 (a)	6.6E-07 (a)	2.7E-05 (a)	6.0E+05 (a)	5.8 (a)	2.5E-02 (a)	6.4E-06 (a)	NO
Benzo[ghi]perylene	276.34 (b)	2.6E-04 (b)	1.00E-10 (c)	3.3E-07 (b)	1.4E-05 (b)	2.0E+06 (b)	6.6 (d)	2.4E-02 (d)	6.1E-06 (d)	NO
Benzo[k]fluoranthene	252.32 (a)	8.0E-04 (a)	9.65E-10 (a)	5.8E-07 (a)	2.4E-05 (a)	5.9E+05 (a)	6.1 (a)	2.5E-02 (a)	6.4E-06 (a)	NO
Bis[2-ethylhexyl]phthalate	390.57 (a)	2.7E-01 (a)	1.42E-07 (a)	2.7E-07 (a)	1.1E-05 (a)	1.2E+05 (a)	7.6 (a)	1.7E-02 (a)	4.2E-06 (a)	NO
Chrysene	228.3 (a)	2.0E-03 (a)	6.23E-09 (a)	5.2E-06 (a)	2.1E-04 (a)	1.8E+05 (a)	5.8 (a)	2.6E-02 (a)	6.7E-06 (a)	NO
Cobalt	58.93 (a)	NA	NA	NA	NA	NA	NA	NA	NA	NO
Copper	63.546 (a)	NA	NA	NA	NA	NA	NA	NA	NA	NO
Dibenzofuran	168.2 (a)	3.1E+00 (a)	2.48E-03 (a)	2.1E-04 (a)	8.7E-03 (a)	9.2E+03 (a)	4.1 (a)	6.5E-02 (a)	7.4E-06 (a)	**YES**
Dichloroethane, 1,1-	98.96 (a)	5.0E+03 (a)	2.3E+02 (a)	5.6E-03 (a)	2.3E-01 (a)	3.2E+01 (a)	1.79 (a)	8.4E-02 (a)	1.1E-05 (a)	**YES**
Dimethylphenol, 2,4-	122.17 (a)	7.9E+03 (a)	1.02E-01 (a)	9.5E-07 (a)	3.9E-05 (a)	4.9E+02 (a)	2.3 (a)	6.2E-02 (a)	8.3E-06 (a)	NO
Di-N-octyl phthalate	390.57 (a)	2.2E-02 (a)	1.00E-07 (a)	2.6E-06 (a)	1.1E-04 (a)	1.4E+05 (a)	8.1 (a)	3.6E-02 (a)	4.2E-06 (a)	NO
Dioxane, 1,4-	88.107 (a)	1.0E+06 (a)	3.81E+01 (a)	4.8E-06 (a)	2.0E-04 (a)	2.6E+00 (a)	-0.27 (a)	8.7E-02 (a)	1.1E-05 (a)	**YES**
Fluoranthene	202.26 (a)	2.6E-01 (a)	9.22E-06 (a)	8.9E-06 (a)	3.6E-04 (a)	5.5E+04 (a)	5.2 (a)	2.8E-02 (a)	7.2E-06 (a)	NO
Fluorene	166.22 (a)	1.7E+00 (a)	6.00E-04 (a)	9.6E-05 (a)	3.9E-03 (a)	9.2E+03 (a)	4.2 (a)	4.4E-02 (a)	7.9E-06 (a)	YES
Hexachloroethane	236.74 (a)	5.0E+01 (a)	2.10E-01 (a)	3.9E-03 (a)	1.6E-01 (a)	2.0E+02 (a)	4.1 (a)	3.2E-02 (a)	8.9E-06 (a)	YES
Indeno[1,2,3-cd]pyrene	276.34 (a)	1.9E-04 (a)	1.25E-10 (a)	3.5E-07 (a)	1.4E-05 (a)	2.0E+06 (a)	6.7 (a)	2.5E-02 (a)	6.4E-06 (a)	NO
Methylaniline, 2- (o-Toluidine)	107.16 (c)	1.7E+04 (a)	2.60E-01 (a)	2.0E-06 (a)	8.1E-05 (a)	1.2E+02 (a)	1.3 (a)	7.2E-02 (a)	9.2E-06 (a)	NO
Methylnaphthalene, 1-	142.2 (a)	2.6E+01 (a)	6.70E-02 (a)	5.1E-04 (a)	2.1E-02 (a)	2.5E+03 (a)	3.9 (a)	5.3E-02 (a)	7.8E-06 (a)	YES
Methylnaphthalene, 2-	142.2 (a)	2.5E+01 (a)	5.50E-02 (a)	5.2E-04 (a)	2.1E-02 (a)	2.5E+03 (a)	3.9 (a)	5.2E-02 (a)	7.8E-06 (a)	YES
Indeno[1,2,3-cd]pyrene	276.34 (a)	1.9E-04 (a)	1.25E-10 (a)	3.5E-07 (a)	1.4E-05 (a)	2.0E+06 (a)	6.7 (a)	2.5E-02 (a)	6.4E-06 (a)	NO
Methylphenol, 4-	108.14 (a)	2.2E+04 (a)	1.10E-01 (a)	1.0E-06 (a)	4.1E-05 (a)	3.0E+02 (a)	1.9 (a)	7.2E-02 (a)	9.2E-06 (a)	NO
Naphthalene	128.18 (a)	3.1E+01 (a)	8.50E-02 (a)	4.4E-04 (a)	1.8E-02 (a)	1.5E+03 (a)	3.3 (a)	6.0E-02 (a)	8.4E-06 (a)	YES
Naphthylamine, 1-	143.19 (b)	1.7E+03 (b)	4.18E-03 (c)	1.1E-07 (b)	4.5E-06 (b)	2.5E+03 (b)	2.3 (d)	5.2E-02 (d)	7.8E-06 (d)	NO
Naphthylamine, 2-	143.19 (a)	1.9E+02 (a)	2.56E-04 (a)	8.1E-08 (a)	3.3E-06 (a)	2.5E+03 (a)	2.3 (a)	6.4E-02 (a)	1.0E-05 (a)	NO
Nitrosodiphenylamine, N-	198.23 (a)	3.5E+01 (a)	1.00E-01 (a)	1.2E-06 (a)	4.9E-05 (a)	2.6E+03 (a)	3.1 (a)	5.6E-02 (a)	6.5E-06 (a)	NO
Pentachlorophenol	266.34 (a)	1.4E+01 (a)	1.10E-04 (a)	2.5E-08 (a)	1.0E-06 (a)	5.9E+02 (a)	5.1 (a)	3.0E-02 (a)	8.0E-06 (a)	NO
Phenanthrene	178.24 (b)	1.2E+00 (b)	1.21E-04 (c)	1.7E-03 (b)	1.7E-03 (b)	1.7E+04 (b)	4.5 (d)	3.5E-02 (d)	6.7E-06 (d)	YES
Phenol	94.114 (a)	8.3E+04 (a)	3.50E-01 (a)	3.3E-07 (a)	1.4E-05 (a)	1.9E+02 (a)	1.5 (a)	8.3E-02 (a)	1.0E-05 (a)	NO
Phenolics, total	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	202.26 (a)	1.4E-01 (a)	4.50E-06 (a)	1.2E-05 (a)	4.9E-04 (a)	5.4E+04 (a)	4.9 (a)	2.8E-02 (a)	7.2E-06 (a)	YES
Vanadium	50.94 (a)	NA	NA	NA	NA	NA	NA	NA	NA	NO
Vinyl Chloride	62.499 (a)	8.8E+03 (a)	2.98E+03 (a)	2.8E-02 (a)	1.1E+00 (a)	2.2E+01 (a)	1.4 (a)	1.1E-01 (a)	1.2E-05 (a)	YES

TABLE F-2 (Updated Table 4.1 from the Corrective Measures Study)
Physiochemical Properties of Hazardous Constituents Detected in Groundwater
Alabama Wood Treating Corporation Site, Mobile, Alabama
Alabama State Port Authority

Organic COPC	MW (g/mol)	Water Solubility (mg/L at 25°C)	Vapor Pressure (mmHg at 25°C)	H (atm-m^3/mol @ 25°C)	H' (unitless)	Koc (L/kg)	log Kow (L/kg)	Da (cm^2/sec)	Dw (cm^2/sec)	Volatile? (e)
Xylenes	106.17 (a)	1.1E+02 (a)	7.99E+00 (a)	6.6E-03 (a)	2.7E-01 (a)	3.8E+02 (a)	3.2 (a)	6.9E-02 (a)	8.5E-06 (a)	YES

Notes:
(a) USEPA Regional Screening Level Table; https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables
(b) USEPA Screening Level Calculator
(c) USEPA VISL calculator (November 2023)
(d) ORNL Risk Assessment Information System (RAIS) (November 2023)
(e) Volatile constituents are those constituents with a vapor pressure greater than 1 mmHg and/or a H value of greater than 1E-05 atm-m^3/mol
MW = Molecular Weight
H = Henry's Law Constant
Koc = Soil organic carbon-water partition coefficient
Kow = octanol/water partition coefficient
Da = Diffusivity in air
Dw = Diffusivity in water
g = grams
mol = mole
mmHg = millimeters of mercury
atm = atmospheres of pressure
m^3 = cubic meters
L/kg = liters per kilogram
cm^2/sec = square centimeters per second

PREPARED/DATE: SBM 03/25/24
CHECKED BY/DATE: IMR 03/25/24

TABLE F-3 (Updated Table 4.10 from the Corrective Measures Study)
MINIMUM ACLs FOR THE AWTC SITE
Alabama Wood Treating Corporation Site, Mobile, Alabama
Alabama State Port Authority

ACL Constituent	ACL_{SW} (µg/L)	ACL_{Air} (µg/L)	ACL_{Min} (see note) (µg/L)	Historical Baseline Maximum Observed Concentration (µg/L)	2013-2023 Maximum Observed Concentration (µg/L)	ACL (µg/L)	ACL (mg/L)
Acenaphthene	2.30.E+04	No tox	2.30.E+04	1.79.E+04	3.10.E+02	17,900	17.9
Acenaphthylene	2.39.E+04	No tox	2.39.E+04	2.50.E+02	3.84.E+00	250	0.25
Aldrin	2.59.E+01	2.67E+01	2.59.E+01	No info	1.50.E-02	26	0.026
Anthracene	2.08.E+04	No tox	2.08.E+04	3.60.E+03	2.10.E+01	3,600	3.6
Arsenic	5.18.E+04	--	5.18.E+04	3.90.E+02	1.90.E+03	390	0.39
Benz(a)anthracene	5.16.E+04	2.08E+03	5.16.E+04	8.96.E+03	1.10.E+00	8,960	9.0
Benzene	2.44.E+04	5.02E+01	2.44.E+04	1.70.E+02	2.20.E+02	170	0.17
Benzo(a)pyrene	5.18.E+03	--	5.18.E+03	6.65.E+03	9.70.E-02	5,184	5.2
Benzo(b)fluoranthene	1.56.E+04	--	1.56.E+04	1.13.E+04	2.20.E-01	11,300	11.3
Benzo(ghi)perylene	3.11.E+03	--	3.11.E+03	3.43.E+03	2.10.E-01	3,110	3.1
Benzo(k)fluoranthene	1.56.E+04	--	1.56.E+04	1.40.E+03	1.30.E-01	1,400	1.4
Bis(2-ethylhexyl) phthalate	2.32.E+05	--	2.32.E+05	2.90.E+02	4.10.E+02	290	0.29
Chrysene	3.37.E+04	--	3.37.E+04	8.66.E+03	4.60.E-01	8,660	8.66
Cobalt	1.56.E+05	--	1.56.E+05	No info	9.60.E+00	155,509	156
Copper	5.96.E+04	--	5.96.E+04	No info	3.80.E+01	59,612	60
Dibenzofuran	2.51.E+04	No tox	2.51.E+04	1.12.E+04	5.00.E+01	11,200	11.2
Dichloroethane, 1,1	2.59.E+04	2.53E+02	2.59.E+04	No info	1.30.E+01	25,918	26
Dimethylphenol 2,4-	1.65.E+04	--	1.65.E+04	1.30.E+04	1.06.E+02	13,000	13
Di-n-octyl phthalate	2.42.E+05	--	2.42.E+05	1.20.E+03	1.40.E+00	1,200	1.2
Dioxane, 1,4-	1.16.E+04	4.31E+04	1.16.E+04	No info	1.29.E+01	11,585	11.6
Fluoranthene	2.64.E+04	--	2.64.E+04	2.93.E+04	1.30.E+01	26,437	26
Fluorene	2.19.E+04	No tox	2.19.E+04	1.44.E+04	1.60.E+02	14,400	14.4
Hexachloroethane	3.29.E+04	1.60E+02	3.29.E+04	No info	ND	32,916	33
Indeno(1,2,3-cd)pyrene	3.11.E+03	--	3.11.E+03	2.79.E+03	2.10.E-01	2,790	2.8
Methylaniline, 2- (o-Toluidine)	9.15.E+05	--	9.15.E+05	2.90.E+02	5.80.E+01	290	0.29
Methylnaphthalene, 1-	2.05.E+04	No tox	2.05.E+04	7.80.E+02	3.98.E+01	780	0.78
Methylnaphthalene, 2-	3.03.E+04	No tox	3.03.E+04	1.82.E+04	1.00.E+02	18,200	18.2
Methylphenol, 3-	4.35.E+04	--	4.35.E+04	3.40.E+03	7.60.E+00	3,400	3.4
Methylphenol, 4-	4.35.E+04	--	4.35.E+04	3.40.E+03	7.60.E+00	3,400	3.4
Naphthalene	4.12.E+04	2.26E+02	4.12.E+04	1.12.E+05	1.02.E+03	41,210	41
Naphthylamine, 1-	7.49.E+04	--	7.49.E+04	No info	1.90.E+01	74,903	75
Naphthylamine, 2-	1.16.E+06	--	1.16.E+06	No info	1.80.E+01	1,161,134	1,161
Nitrosodiphenylamine, N-	6.14.E+05	No tox	6.14.E+05	4.44.E+03	1.20.E+00	4,440	4.4
Pentachlorophenol	8.11.E+04	--	8.11.E+04	1.04.E+03	6.10.E+00	1,040	1.04

TABLE F-3 (Updated Table 4.10 from the Corrective Measures Study)
MINIMUM ACLs FOR THE AWTC SITE
Alabama Wood Treating Corporation Site, Mobile, Alabama
Alabama State Port Authority

ACL Constituent	ACL_{SW} (µg/L)	ACL_{Air} (µg/L)	ACL_{Min} (see note) (µg/L)	Historical Baseline Maximum Observed Concentration (µg/L)	2013-2023 Maximum Observed Concentration (µg/L)	ACL (µg/L)	ACL (mg/L)
Phenanthrene	2.90.E+04	No tox	2.90.E+04	5.43.E+04	1.30.E+02	29,028	29
Phenol	1.12.E+06	--	1.12.E+06	No info	8.70.E+00	1,122,256	1,122
Phenolics, total	1.12.E+06	--	1.12.E+06	No info	8.70.E+00	1,122,256	1,122
Pyrene	2.85.E+04	No tox	2.85.E+04	3.81.E+04	1.70.E+01	28,510	29
Vanadium	5.96.E+05	--	5.96.E+05	No info	1.80.E+01	596,118	596
Vinyl chloride	6.06.E+04	1.04E+00	6.06.E+04	No info	5.20.E+00	60,648	61
Xylenes, total	4.51.E+04	1.60E+04	4.51.E+04	2.60.E+02	3.38.E+01	260	0.26

No Tox = no inhalation toxicity factors

ACL = Alternate Cleanup Level

ACL_{SW} = Alternate Cleanup Level for Surface Water

ACL_{Air} = Alternate Cleanup Level for Air

ACL_{Min} = Minimum Alternate Cleanup Level for Surface Water. Air no longer factors into ACLmin as the exposure pathway is incomplete due to the environmental covenant placed on the property.

AWTC = Alabama Wood Treating Company

PREPARED/DATE: SBM 03/25/24

ug/L = micrograms per liter

CHECKED BY/DATE: IMR 03/25/24

-- = Constituent is non-volatile

Table F-4
Screening Criteria - Detected Dioxin/Furan Congeners
Alabama Wood Treating Corporation
Mobile, Alabama

Analytic Method	Chemical Name	Maximum Contaminant Level (MCL)[a] (mg/L)	WHO TEF[b]	Screening Level (mg/L)	Screening Level in pg/L (For Reference Only)
Dioxin/Furan Congeners in Current Permit (presented for reference)					
SW8290A	1,2,3,4,6,7,8,9-OCDD (OCDD) [a/k/a Octachlorodibenzo-p-dioxin (OCDD)]	NE	0.0003	1.0E-04	100,000
SW8290A	1,2,3,4,6,7,8,9-OCDF (OCDF) [a/k/a Octachlorodibenzofuran (OCDF)]	NE	0.0003	1.0E-04	100,000
SW8290A	1,2,3,4,6,7,8-HpCDD	NE	0.01	3.0E-06	3,000
SW8290A	1,2,3,4,6,7,8-HpCDF	NE	0.01	3.0E-06	3,000
Dioxin/Furan Congeners to be incorporated into Permit					
SW8290A	1,2,3,4,7,8,9-HpCDF	NE	0.01	3.0E-06	3,000
SW8290A	1,2,3,4,7,8-HxCDD	NE	0.1	3.0E-07	300
SW8290A	1,2,3,4,7,8-HxCDF	NE	0.1	3.0E-07	300
SW8290A	1,2,3,6,7,8-HxCDD	NE	0.1	3.0E-07	300
SW8290A	1,2,3,6,7,8-HxCDF	NE	0.1	3.0E-07	300
SW8290A	1,2,3,7,8,9-HxCDD	NE	0.1	3.0E-07	300
SW8290A	1,2,3,7,8,9-HxCDF	NE	0.1	3.0E-07	300
SW8290A	1,2,3,7,8-PeCDD	NE	1	3.0E-08	30
SW8290A	1,2,3,7,8-PeCDF	NE	0.03	1.0E-06	1,000
SW8290A	2,3,4,6,7,8-HxCDF	NE	0.1	3.0E-07	300
SW8290A	2,3,4,7,8-PeCDF	NE	0.3	1.0E-07	100
SW8290A	2,3,7,8-TCDD	3.0E-08	1	3.0E-08	30
SW8290A	2,3,7,8-TCDF	NE	0.1	3.0E-07	300
Dioxin/Furan "Total" Concentration Limits for Table III.3 of the Permit					
SW8290A	PeCDD, total	NE	NE	--	--
SW8290A	PeCDF, total	NE	NE	--	--
SW8290A	HpCDD, total	NE	NE	--	--
SW8290A	HpCDF, total	NE	NE	--	--
SW8290A	HxCDD, total	NE	NE	--	--
SW8290A	HxCDF, total	NE	NE	--	--
SW8290A	TCDF, total	NE	NE	--	--
SW8290A	TCDD, total	NE	NE	--	--

Notes:
[a] National Primary Drinking Water Regulations as summarized by the USEPA at https://www.epa.gov/ground-water-and-drinking-water/national-
[b]World Health Organization TEFs as presented in *Recommended Toxicity Equivalence Factors (TEFs) for Human Health Risk Assessments of 2,3,7,8-Tetrachlorodibenzo-p-dioxin and Dioxin-like Compounds,* USEPA, 2010.

NE = Not Established
TEF = Toxicity Equivalence Factors
WHO = World Health Organization
mg/L = milligrams per liter
pg/L = picograms per liter

Prepared by: SBM 03/13/2023
Checked by: IMR 03/14/2023

APPENDIX F
JOHNSON & ETTINGER MODEL SUPPORT

Table of Inputs and Outputs for Multiple Chemicals

Note: Parameters other than the chemical concentration must be entered in the MODEL sheet and must be the same for all chemicals. Warnings and errors are displayed in only on the MODEL sheet.

			Acenaphthene	**Aldrin**	Anthracene	Benz[a]anthracene	Benzene	Dibenzofuran	Dichloroethane, 1,1-	Dioxane, 1,4-	Fluorene	Hexachloroethane	Methylnaphthalene, 1-
Source Characteristics:	Units	Symbol	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value
Source medium		Source	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Groundwater concentration	(ug/L)	Cmedium	310	0.015	21	1.1	220	50	13	12.9	160	ND	39.8
Depth below grade to water table	(m)	Ls	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62
Average groundwater temperature	(^{o}C)	Ts	20	20	20	20	20	20	20	20	20	20	20
Calc: Source vapor concentration	(ug/m3)	Cs	1494	0	29	0	40309	36	2460	2	403	0	515
Calc: % of pure component saturated vapor concentration	(%)	%Sat	8.375%	0.001%	45.995%	11.472%	0.010%	0.161%	0.000%	0.000%	7.511%	0.000%	0.100%
Chemical:	Units	Symbol	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value
Chemical Name		Chem	Acenaphthene	Aldrin	Anthracene	Benz[a]anthracene	Benzene	Dibenzofuran	Dichloroethane, 1,1-	Dioxane, 1,4-	Fluorene	Hexachloroethane	Methylnaphthalene, 1-
CAS No.		CAS	83-32-9	309-00-2	120-12-7	56-55-3	71-43-2	132-64-9	75-34-3	123-91-1	86-73-7	67-72-1	90-12-0
Toxicity Factors													
Unit risk factor	$(ug/m^3)^{-1}$	IUR	Not Available	4.90E-03	0.00E+00	6.00E-05	7.80E-06	Not Available	1.60E-06	5.00E-06	Not Available	1.10E-05	Not Available
Mutagenic compound		Mut	No	No	No	Yes	No	No	No	No	No	No	No
Reference concentration	(ug/m^3)	RfC	Not Available	Not Available	Not Available	Not Available	3.00E-02	Not Available	Not Available	3.00E-02	Not Available	3.00E-02	Not Available
Chemical Properties:	Units	Symbol	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value
Pure component water solubility	(mg/L)	S	3.90E+00	1.70E-02	4.34E-02	9.40E-03	1.79E+03	3.10E+00	5.04E+03	1.00E+06	1.69E+00	5.00E+01	2.58E+01
Henry's Law Constant @ 25^{o}C	($atm\text{-}m^3/mol$)	Hc	1.84E-04	4.40E-05	5.56E-05	1.20E-05	5.55E-03	2.13E-04	5.62E-03	4.80E-06	9.62E-05	3.89E-03	5.14E-04
Calc: Henry's Law Constant @ 25^{o}C	(dimensionless)	Hr	7.52E-03	1.80E-03	2.27E-03	4.91E-04	2.27E-01	8.71E-03	2.30E-01	1.96E-04	3.93E-03	1.59E-01	2.10E-02
Calc: Henry's Law Constant @ system temperature	(dimensionless)	Hs	4.82E-03	1.09E-03	1.37E-03	2.69E-04	1.83E-01	7.22E-04	1.89E-01	1.51E-04	2.52E-03	1.08E-01	1.29E-02
Diffusivity in air	(cm2/s)	Dair	5.06E-02	2.28E-02	3.90E-02	2.61E-02	8.95E-02	6.51E-02	8.36E-02	8.74E-02	4.40E-02	3.21E-02	5.28E-02
Diffusivity in water	(cm2/s)	Dwater	8.33E-06	5.84E-06	7.85E-06	6.75E-06	1.03E-05	7.38E-06	1.06E-05	1.05E-05	7.89E-06	8.89E-06	7.85E-06
Building Characteristics:	Units	Symbol	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value
Building setting		Bldg_Setting	Commercial	Commercial	Commercial	Commercial	Commercial	Commercial	Commercial	Commercial	Commercial	Commercial	Commercial
Foundation type		Found_Type	Slab-on-grade	Slab-on-grade	Slab-on-grade	Slab-on-grade	Slab-on-grade	Slab-on-grade	Slab-on-grade	Slab-on-grade	Slab-on-grade	Slab-on-grade	Slab-on-grade
Depth below grade to base of foundation	(m)	Lb	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Foundation thickness	(m)	Lf	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Fraction of foundation area with cracks	(-)	eta	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Enclosed space floor area	(m2)	Ab	1500.00	1500.00	1500.00	1500.00	1500.00	1500.00	1500.00	1500.00	1500.00	1500.00	1500.00
Enclosed space mixing height	(m)	Hb	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Indoor air exchange rate	(1/hr)	ach	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Qsoil/Qbuilding	(-)	Qsoil_Qb	0.0030	0.0030	0.0030	0.0030	0.0030	0.0030	0.0030	0.0030	0.0030	0.0030	0.0030
Calc: Building ventilation rate	(m3/hr)	Qb	6750.00	6750.00	6750.00	6750.00	6750.00	6750.00	6750.00	6750.00	6750.00	6750.00	6750.00
Calc: Average vapor flow rate into building	(m3/hr)	Qsoil	20.25	20.25	20.25	20.25	20.25	20.25	20.25	20.25	20.25	20.25	20.25
Vadose zone characteristics:	Units	Symbol	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value
Stratum A (Top of soil profile):													
Stratum A SCS soil type		SCS_A	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
Stratum A thickness (from surface)	(m)	hSA	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62	2.62
Stratum A total porosity	(-)	nSA	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375
Stratum A water-filled porosity	(-)	nwSA	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054
Stratum A bulk density	(g/cm^3)	rhoSA	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660	1.660
Stratum B (Soil layer below Stratum A):													
Stratum B SCS soil type		SCS_B	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present
Stratum B thickness	(m)	hSB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stratum B total porosity	(-)	nSB											
Stratum B water-filled porosity	(-)	nwSB											

Prepared by: SBM 03/24/24
Reviewed by: IMR 03/25/24

Table of Inputs and Outputs for Multiple Chemicals

Note: Parameters other than the chemical concentration must be entered in the MODEL sheet and must be the same for all chemicals. Warnings and errors are displayed in only on the MODEL sheet.

					Acenaphthene	**Aldrin**	Anthracene	Benz[a]anthracene	Benzene	Dibenzofuran	Dichloroethane, 1,1-	Dioxane, 1,4-	Fluorene	Hexachloroethane	Methylnaphthalene, 1-
		Stratum B bulk density	(g/cm^3)	rhoSB											
Stratum C (Soil layer below Stratum B):															
	Stratum C SCS soil type			SCS_C	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present	Not Present
	Stratum C thickness		(m)	hSC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		Stratum C total porosity	(-)	nSC											
		Stratum C water-filled porosity	(-)	nwSC											
		Stratum C bulk density	(g/cm^3)	rhoSC											
Stratum directly above the water table															
		Stratum A, B, or C		src_soil	Stratum A	Stratum A	Stratum A	Stratum A	Stratum A	Stratum A	Stratum A	Stratum A	Stratum A	Stratum A	Stratum A
		Height of capillary fringe	(m)	hcz	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170
		Capillary zone total porosity	(-)	ncz	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375	0.375
		Capillary zone water filled porosity	(-)	nwcz	0.253	0.253	0.253	0.253	0.253	0.253	0.253	0.253	0.253	0.253	0.253
Exposure Parameters:			Units	Symbol	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value
	Target risk for carcinogens		(-)	Target_CR	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06
	Target hazard quotient for non-carcinogens		(-)	Target_HQ	1	1	1	1	1	1	1	1	1	1	1
	Exposure Scenario			Scenario	Commercial	Commercial	Commercial	Commercial	Commercial	Commercial	Commercial	Commercial	Commercial	Commercial	Commercial
	Averaging time for carcinogens		(yrs)	ATc	70	70	70	70	70	70	70	70	70	70	70
	Averaging time for non-carcinogens		(yrs)	ATnc	25	25	25	25	25	25	25	25	25	25	25
	Exposure duration		(yrs)	ED	25	25	25	25	25	25	25	25	25	25	25
	Exposure frequency		(days/yr)	EF	250	250	250	250	250	250	250	250	250	250	250
	Exposure time		(hrs/24 hrs)	ET	8	8	8	8	8	8	8	8	8	8	8
	Mutagenic mode-of-action factor		(yrs)	MMOAF	72	72	72	72	72	72	72	72	72	72	72
Source to Indoor Air Attenuation Factor			Units	Symbol	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value
Groundwater to indoor air attenuation coefficient			(-)	alpha	1.2E-04	8.6E-05	1.3E-04	1.3E-04	1.7E-04	2.1E-04	1.6E-04	3.8E-04	1.2E-04	6.4E-05	1.1E-04
				Range	5.6E-05 - 1.2E-04	4.7E-05 - 8.8E-05	5.7E-05 - 1.3E-04	5.7E-05 - 1.3E-04	6.4E-05 - 1.8E-04	6.9E-05 - 2.3E-04	6.3E-05 - 1.7E-04	8.1E-05 - 4.3E-04	5.6E-05 - 1.3E-04	4.0E-05 - 6.6E-05	5.4E-05 - 1.1E-04
Predicted Indoor Air Concentration					Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value
Indoor air concentration due to vapor intrusion			(ug/m3)	Cia	1.8E-01	1.4E-06	3.7E-03	3.8E-05	6.9E+00	7.6E-03	3.9E-01	7.3E-04	4.9E-02	0.0E+00	5.7E-02
				Range	8.3E-02 - 1.9E-01	7.7E-07 - 1.4E-06	1.6E-03 - 3.8E-03	1.7E-05 - 3.9E-05	2.6E+00 - 7.3E+00	2.5E-03 - 8.2E-03	1.5E-01 - 4.2E-01	1.6E-04 - 8.3E-04	2.2E-02 - 5.1E-02	0.0E+00 -	2.8E-02 - 5.9E-02
			(ppbv)	Cia	2.8E-02	9.4E-08	5.1E-04	4.0E-06	2.2E+00	1.1E-03	9.7E-02	2.0E-04	7.2E-03	0.0E+00	9.8E-03
				Range	1.3E-02 - 3.0E-02	5.1E-08 - 9.7E-08	2.3E-04 - 5.3E-04	1.8E-06 - 4.2E-06	8.1E-01 - 2.3E+00	3.6E-04 - 1.2E-03	3.8E-02 - 1.0E-01	4.4E-05 - 2.3E-04	3.3E-03 - 7.4E-03	0.0E+00 - 0.0E+00	4.7E-03 - 1.0E-02
Predicted Vapor Concentration Beneath the Foundation					Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value
Subslab vapor concentration			(ug/m3)	Css	6.0E+01	4.7E-04	1.2E+00	1.3E-02	2.3E+03	2.5E+00	1.3E+02	2.4E-01	1.6E+01	0.0E+00	1.9E+01
				Range	3.7E+00 - 8.3E+02	2.9E-05 - 7.7E-03	7.7E-02 - 1.6E+01	7.8E-04 - 1.7E-01	1.5E+02 - 2.6E+04	1.6E-01 - 2.5E+01	8.3E+00 - 1.5E+03	1.7E-02 - 1.6E+00	1.0E+00 - 2.2E+02	0.0E+00 - 0.0E+00	1.2E+00 - 2.8E+02
			(ppbv)	Css	9.5E+00	3.1E-05	1.7E-01	1.3E-03	7.2E+02	3.7E-01	3.2E+01	6.8E-02	2.4E+00	0.0E+00	3.3E+00
				Range	5.9E-01 - 1.3E+02	1.9E-06 - 5.1E-04	1.1E-02 - 2.3E+00	8.4E-05 - 1.8E-02	4.6E+01 - 8.1E+03	2.4E-02 - 3.6E+00	2.1E+00 - 3.8E+02	4.6E-03 - 4.4E-01	1.5E-01 - 3.3E+01	0.0E+00 - 0.0E+00	2.0E-01 - 4.7E+01
Diffusive Transport Upward Through Vadose Zone					Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value
Effective diffusion coefficient through Stratum A			(cm2/sec)	DeffA	8.2E-03	3.7E-03	6.3E-03	4.2E-03	1.4E-02	1.1E-02	1.4E-02	1.4E-02	7.1E-03	5.2E-03	8.5E-03
Effective diffusion coefficient through Stratum B			(cm2/sec)	DeffB											
Effective diffusion coefficient through Stratum C			(cm2/sec)	DeffC											
Effective diffusion coefficient through capillary zone			(cm2/sec)	DeffCZ	4.5E-04	5.4E-04	6.7E-04	2.0E-03	5.8E-04	1.2E-03	5.4E-04	5.7E-03	5.1E-04	2.1E-04	3.8E-04
Effective diffusion coefficient through unsaturated zone			(cm2/sec)	DeffT	3.7E-03	2.6E-03	4.0E-03	3.9E-03	5.4E-03	6.7E-03	5.0E-03	1.3E-02	3.7E-03	2.0E-03	3.4E-03
Critical Parameters					Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value
α for diffusive transport from source to building with			(-)	A_Param	1.3E-04	8.8E-05	1.3E-04	1.3E-04	1.8E-04	2.3E-04	1.7E-04	4.3E-04	1.3E-04	6.6E-05	1.2E-04
Pe (Peclet Number) for transport through the foundation			(-)	B_Param	9.0E+02	2.0E+03	1.2E+03	1.7E+03	5.1E+02	7.0E+02	5.4E+02	5.2E+02	1.0E+03	1.4E+03	8.6E+02
α for convective transport from subslab to building			(-)	C_Param	3.0E-03	3.0E-03	3.0E-03	3.0E-03	3.0E-03	3.0E-03	3.0E-03	3.0E-03	3.0E-03	3.0E-03	3.0E-03
					9.0E+02	2.0E+03	1.2E+03	1.7E+03	5.1E+02	6.9E+02	5.4E+02	5.2E+02	1.0E+03	1.4E+03	8.6E+02
Interpretation															
					Advection is the domina	Advection is the domir	Advection is the domir	Advection is the domir	Advection is the domin	Advection is the dor	Advection is the dor	Advection is the dor	Advection is the dor	Advection is the dor	Advection is the dor
					Diffusion through soil is th	Diffusion through soil is	Diffusion through soil is	Diffusion through soil is	Diffusion through soil is t	Diffusion through soi	Diffusion through soi	Diffusion through soi	Diffusion through soi	Diffusion through soi	Diffusion through soi
Critical Parameters															
					Hb, Ls, DeffT, ach	Hb, Ls, DeffT, ach	Hb, Ls, DeffT, ach	Hb, Ls, DeffT, ach	Hb, Ls, DeffT, ach	Hb, Ls, DeffT, ach	Hb, Ls, DeffT, ach	Hb, Ls, DeffT, ach, Q	Hb, Ls, DeffT, ach	Hb, Ls, DeffT, ach	Hb, Ls, DeffT, ach

Prepared by: SBM 03/24/24
Reviewed by: IMR 03/25/24

Table of Inputs and Outputs for Multiple Chemicals

Note: Parameters other than the chemical concentration must be entered in the MODEL sheet and must be the same for all chemicals. Warnings and errors are displayed in only on the MODEL sheet.

				Acenaphthene	**Aldrin**	Anthracene	Benz[a]anthracene	Benzene	Dibenzofuran	Dichloroethane, 1,1-	Dioxane, 1,4-	Fluorene	Hexachloroethane	Methylnaphthalene, 1-
Non-Critical Parameters														
				Qsoil_Qb, Lf, DeffA, eta	Qsoil_Qb, Lf, DeffA, eta	Qsoil_Qb, Lf, DeffA, eta	Qsoil_Qb, Lf, DeffA, eta	Qsoil_Qb, Lf, DeffA, eta	Qsoil_Qb, Lf, DeffA,	Qsoil_Qb, Lf, DeffA,	Lf, DeffA, eta	Qsoil_Qb, Lf, DeffA,	Qsoil_Qb, Lf, DeffA,	Qsoil_Qb, Lf, DeffA,
Risk Calculations		**Units**	**Symbol**	**Value**	**Value**	**Value**	**Value**	**Value**	**Value**	**Value**	**Value**	**Value**	**Value**	**Value**
Risk-Based Target Screening Levels														
Target risk for carcinogens		(-)	Target_CR	1E-06	1E-06	1E-06	1E-06	1E-06	1E-06	1E-06	1E-06	1E-06	1E-06	1E-06
Target hazard quotient for noncarcinogens		(-)	Target_HQ	1	1	1	1	1	1	1	1	1	1	1
Target indoor air concentration		(ug/m3)	Target_IA	No tox data available	2.50E-03	No tox data available	7.10E-02	1.57E+00	No tox data available	7.67E+00	2.45E+00	No tox data available	1.11E+00	No tox data available
		(ppbv)	Target_IA	No tox data available	1.68E-04	No tox data available	7.60E-03	4.92E-01	No tox data available	1.89E+00	6.81E-01	No tox data available	1.15E-01	No tox data available
Target groundwater concentration		(ug/L)	Target_GW	No tox data available	2.67E+01	No tox data available	2.08E+03	5.02E+01	No tox data available	2.53E+02	4.31E+04	No tox data available	1.60E+02	No tox data available
Incremental Risk Estimates														
Incremental cancer risk from vapor intrusion		(-)	Cancer_Risk	No IUR	5.61E-10	No IUR	5.29E-10	4.38E-06	No IUR	5.14E-08	2.99E-10	No IUR	0.00E+00	No IUR
			Range	-	3.1E-10 - 5.8E-10	-	2.4E-10 - 5.5E-10	1.7E-06 - 4.6E-06	-	2.0E-08 - 5.4E-08	6.4E-11 - 3.4E-10	-	0.0E+00 - 0.0E+00	-
Hazard quotient from vapor intrusion		(-)	HQ	No RfC Available	No RfC Available	No RfC Available	No RfC Available	0.052424543	No RfC Available	No RfC Available	5.58684E-06	No RfC Available	0	No RfC Available
			Range	C Available - No RfC Ava	Available - No RfC Av	Available - No RfC Av	Available - No RfC Av	2.0E-02 - 5.5E-02	Available - No RfC A	Available - No RfC A	1.2E-06 - 6.3E-06	Available - No RfC A	0.0E+00 - 0.0E+00	Available - No RfC A
				No RfC Available - No RfC Ava	Available - No RfC Av	C Available - No RfC Av	C Available - No RfC Ava	1.6E-02 - 4.4E-02	: Available - No RfC A	Available - No RfC A	9.2E-07 - 5.0E-06	: Available - No RfC A	0.0E+00 - 0.0E+00	: Available - No RfC A
				No RfC Available - No RfC Available	No RfC Available - No RfC Available									

Prepared by: SBM 03/24/24
Reviewed by: IMR 03/25/24

Table of Inputs and Outputs for Multiple Chemicals

Note: Parameters other than the chemical concentration must be entered in the MODEL sheet and must be the same for all chemicals. Warnings and errors are displayed in only on the MODEL sheet.

				Methylnaphthalene, 2-	Naphthalene	Pyrene	Vinyl Chloride	Xylenes
Source Characteristics:	**Units**	**Symbol**	**Value**	**Value**	**Value**	**Value**	**Value**
Source medium		Source	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Groundwater concentration	(ug/L)	Cmedium	100	1020	17	5.2	33.8
Depth below grade to water table	(m)	Ls	2.62	2.62	2.62	2.62	2.62
Average groundwater temperature	(^{o}C)	Ts	20	20	20	20	20
Calc: Source vapor concentration	(ug/m3)	Cs	1354	12907	5	5222	6962
Calc: % of pure component saturated vapor concentration	(%)	%Sat	0.322%	2.202%	9.420%	0.000%	0.015%
Chemical:	**Units**	**Symbol**	**Value**	**Value**	**Value**	**Value**	**Value**
Chemical Name		Chem	Methylnaphthalene, 2-	Naphthalene	Pyrene	Vinyl Chloride	Xylenes
CAS No.		CAS	91-57-6	91-20-3	129-00-0	75-01-4	1330-20-7
Toxicity Factors							
Unit risk factor	(ug/m^3)$^{-1}$	IUR	Not Available	3.40E-05	Not Available	4.40E-06	Not Available
Mutagenic compound		Mut	No	No	No	VC	No
Reference concentration	(ug/m^3)	RfC	Not Available	3.00E-03	Not Available	1.00E-01	1.00E-01
Chemical Properties:	**Units**	**Symbol**	**Value**	**Value**	**Value**	**Value**	**Value**
Pure component water solubility	(mg/L)	S	2.46E+01	3.10E+01	1.35E-01	8.80E+03	1.06E+02
Henry's Law Constant @ 25^{o}C	($atm\text{-}m^3/mol$)	Hc	5.18E-04	4.40E-04	1.19E-05	2.78E-02	6.63E-03
Calc: Henry's Law Constant @ 25^{o}C	(dimensionless)	Hr	2.12E-02	1.80E-02	4.87E-04	1.14E+00	2.71E-01
Calc: Henry's Law Constant @ system temperature	(dimensionless)	Hs	1.35E-02	1.27E-02	2.71E-04	1.00E+00	2.06E-01
Diffusivity in air	(cm2/s)	Dair	5.24E-02	6.05E-02	2.78E-02	1.07E-01	6.85E-02
Diffusivity in water	(cm2/s)	Dwater	7.78E-06	8.38E-06	7.25E-06	1.20E-05	8.46E-06
Building Characteristics:	**Units**	**Symbol**	**Value**	**Value**	**Value**	**Value**	**Value**
Building setting		Bldg_Setting	Commercial	Commercial	Commercial	Commercial	Commercial
Foundation type		Found_Type	Slab-on-grade	Slab-on-grade	Slab-on-grade	Slab-on-grade	Slab-on-grade
Depth below grade to base of foundation	(m)	Lb	0.20	0.20	0.20	0.20	0.20
Foundation thickness	(m)	Lf	0.20	0.20	0.20	0.20	0.20
Fraction of foundation area with cracks	(-)	eta	0.001	0.001	0.001	0.001	0.001
Enclosed space floor area	(m2)	Ab	1500.00	1500.00	1500.00	1500.00	1500.00
Enclosed space mixing height	(m)	Hb	3.00	3.00	3.00	3.00	3.00
Indoor air exchange rate	(1/hr)	ach	1.50	1.50	1.50	1.50	1.50
Qsoil/Qbuilding	(-)	Qsoil_Qb	0.0030	0.0030	0.0030	0.0030	0.0030
Calc: Building ventilation rate	(m3/hr)	Qb	6750.00	6750.00	6750.00	6750.00	6750.00
Calc: Average vapor flow rate into building	(m3/hr)	Qsoil	20.25	20.25	20.25	20.25	20.25
Vadose zone characteristics:	**Units**	**Symbol**	**Value**	**Value**	**Value**	**Value**	**Value**
Stratum A (Top of soil profile):							
Stratum A SCS soil type		SCS_A	Sand	Sand	Sand	Sand	Sand
Stratum A thickness (from surface)	(m)	hSA	2.62	2.62	2.62	2.62	2.62
Stratum A total porosity	(-)	nSA	0.375	0.375	0.375	0.375	0.375
Stratum A water-filled porosity	(-)	nwSA	0.054	0.054	0.054	0.054	0.054
Stratum A bulk density	(g/cm^3)	rhoSA	1.660	1.660	1.660	1.660	1.660
Stratum B (Soil layer below Stratum A):							
Stratum B SCS soil type		SCS_B	Not Present	Not Present	Not Present	Not Present	Not Present
Stratum B thickness	(m)	hSB	0.00	0.00	0.00	0.00	0.00
Stratum B total porosity	(-)	nSB					
Stratum B water-filled porosity	(-)	nwSB					

Prepared by: SBM 03/24/24
Reviewed by: IMR 03/25/24

Table of Inputs and Outputs for Multiple Chemicals

Note: Parameters other than the chemical concentration must be entered in the MODEL sheet and must be the same for all chemicals. Warnings and errors are displayed in only on the MODEL sheet.

					Methylnaphthalene, 2-	Naphthalene	Pyrene	Vinyl Chloride	Xylenes
		Stratum B bulk density	(g/cm^3)	rhoSB					
Stratum C (Soil layer below Stratum B):									
	Stratum C SCS soil type			SCS_C	Not Present	Not Present	Not Present	Not Present	Not Present
	Stratum C thickness		(m)	hSC	0.00	0.00	0.00	0.00	0.00
		Stratum C total porosity	(-)	nSC					
		Stratum C water-filled porosity	(-)	nwSC					
		Stratum C bulk density	(g/cm^3)	rhoSC					
Stratum directly above the water table									
		Stratum A, B, or C		src_soil	Stratum A	Stratum A	Stratum A	Stratum A	Stratum A
		Height of capillary fringe	(m)	hcz	0.170	0.170	0.170	0.170	0.170
		Capillary zone total porosity	(-)	ncz	0.375	0.375	0.375	0.375	0.375
		Capillary zone water filled porosity	(-)	nwcz	0.253	0.253	0.253	0.253	0.253
Exposure Parameters:			Units	Symbol	Value	Value	Value	Value	Value
	Target risk for carcinogens		(-)	Target_CR	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06
	Target hazard quotient for non-carcinogens		(-)	Target_HQ	1	1	1	1	1
	Exposure Scenario			Scenario	Commercial	Commercial	Commercial	Commercial	Commercial
	Averaging time for carcinogens		(yrs)	ATc	70	70	70	70	70
	Averaging time for non-carcinogens		(yrs)	ATnc	25	25	25	25	25
	Exposure duration		(yrs)	ED	25	25	25	25	25
	Exposure frequency		(days/yr)	EF	250	250	250	250	250
	Exposure time		(hrs/24 hrs)	ET	8	8	8	8	8
	Mutagenic mode-of-action factor		(yrs)	MMOAF	72	72	72	72	72
Source to Indoor Air Attenuation Factor			Units	Symbol	Value	Value	Value	Value	Value
Groundwater to indoor air attenuation coefficient			(-)	alpha	1.1E-04	1.3E-04	1.3E-04	2.0E-04	1.3E-04
				Range	5.3E-05 - 1.1E-04	5.7E-05 - 1.3E-04	5.9E-05 - 1.4E-04	6.8E-05 - 2.2E-04	5.8E-05 - 1.4E-04
Predicted Indoor Air Concentration					Value	Value	Value	Value	Value
Indoor air concentration due to vapor intrusion			(ug/m3)	Cia	1.5E-01	1.6E+00	6.2E-04	1.1E+00	9.2E-01
				Range	7.2E-02 - 1.5E-01	7.3E-01 -	2.7E-04 - 6.5E-04	3.6E-01 -	4.0E-01 - 9.6E-01
			(ppbv)	Cia	2.6E-02	3.1E-01	7.5E-05	4.1E-01	2.1E-01
				Range	1.2E-02 - 2.6E-02	1.4E-01 - 3.2E-01	3.3E-05 - 7.8E-05	1.4E-01 - 4.4E-01	9.3E-02 - 2.2E-01
Predicted Vapor Concentration Beneath the Foundation					Value	Value	Value	Value	Value
Subslab vapor concentration			(ug/m3)	Css	5.0E+01	5.4E+02	2.1E-01	3.5E+02	3.1E+02
				Range	3.1E+00 - 7.2E+02	3.4E+01 - 7.3E+03	1.3E-02 - 2.7E+00	2.2E+01 - 3.6E+03	1.9E+01 - 4.0E+03
			(ppbv)	Css	8.5E+00	1.0E+02	2.5E-02	1.4E+02	7.1E+01
				Range	5.3E-01 - 1.2E+02	6.5E+00 - 1.4E+03	1.6E-03 - 3.3E-01	8.8E+00 - 1.4E+03	4.4E+00 - 9.3E+02
Diffusive Transport Upward Through Vadose Zone					Value	Value	Value	Value	Value
Effective diffusion coefficient through Stratum A			(cm2/sec)	DeffA	8.5E-03	9.8E-03	4.5E-03	1.7E-02	1.1E-02
Effective diffusion coefficient through Stratum B			(cm2/sec)	DeffB					
Effective diffusion coefficient through Stratum C			(cm2/sec)	DeffC					
Effective diffusion coefficient through capillary zone			(cm2/sec)	DeffCZ	3.8E-04	4.4E-04	2.1E-03	6.9E-04	4.4E-04
Effective diffusion coefficient through unsaturated zone			(cm2/sec)	DeffT	3.4E-03	3.9E-03	4.2E-03	6.4E-03	4.1E-03
Critical Parameters					Value	Value	Value	Value	Value
α for diffusive transport from source to building with			(-)	A_Param	1.1E-04	1.3E-04	1.4E-04	2.2E-04	1.4E-04
Pe (Peclet Number) for transport through the foundation			(-)	B_Param	8.7E+02	7.5E+02	1.6E+03	4.2E+02	6.6E+02
α for convective transport from subslab to building			(-)	C_Param	3.0E-03	3.0E-03	3.0E-03	3.0E-03	3.0E-03
					8.7E+02	7.5E+02	1.6E+03	4.2E+02	6.6E+02
Interpretation									
					Advection is the do	Advection is the do	Advection is the do	Advection is the do	Advection is the do
					Diffusion through soi	Diffusion through soi	Diffusion through soi	Diffusion through soi	Diffusion through soi
Critical Parameters									
					Hb, Ls, DeffT, ach	Hb, Ls, DeffT, ach	Hb, Ls, DeffT, ach	Hb, Ls, DeffT, ach	Hb, Ls, DeffT, ach

Prepared by: SBM 03/24/24
Reviewed by: IMR 03/25/24

Table of Inputs and Outputs for Multiple Chemicals

Note: Parameters other than the chemical concentration must be entered in the MODEL sheet and must be the same for all chemicals. Warnings and errors are displayed in only on the MODEL sheet.

					Methylnaphthalene, 2-	Naphthalene	Pyrene	Vinyl Chloride	Xylenes
Non-Critical Parameters									
					Qsoil_Qb, Lf, DeffA,	Qsoil_Qb, Lf, DeffA,	Qsoil_Qb, Lf, DeffA,	Qsoil_Qb, Lf, DeffA,	Qsoil_Qb, Lf, DeffA,
Risk Calculations		**Units**	**Symbol**		**Value**	**Value**	**Value**	**Value**	**Value**
Risk-Based Target Screening Levels									
Target risk for carcinogens		(-)	Target_CR		1E-06	1E-06	1E-06	1E-06	1E-06
Target hazard quotient for noncarcinogens		(-)	Target_HQ		1	1	1	1	1
Target indoor air concentration		(ug/m3)	Target_IA		No tox data available	3.61E-01	No tox data available	2.10E-01	4.38E+02
		(ppbv)	Target_IA		No tox data available	6.88E-02	No tox data available	8.22E-02	1.01E+02
Target groundwater concentration		(ug/L)	Target_GW		No tox data available	2.26E+02	No tox data available	1.04E+00	1.60E+04
Incremental Risk Estimates									
Incremental cancer risk from vapor intrusion		(-)	Cancer_Risk		No IUR	4.51E-06	No IUR	3.77E-07	No IUR
			Range		-	2.0E-06 - 4.7E-06	-	1.3E-07 - 4.0E-07	-
Hazard quotient from vapor intrusion		(-)	HQ		No RfC Available	0.123745605	No RfC Available	0.002402045	0.002106412
			Range		Available - No RfC A	5.6E-02 - 1.3E-01	Available - No RfC A	8.1E-04 - 2.6E-03	9.2E-04 - 2.2E-03
					No Rf: Available - No RfC A	3.9E-02 - 9.2E-02	: Available - No RfC A	7.1E-04 - 2.2E-03	6.9E-04 - 1.6E-03

Prepared by: SBM 03/24/24
Reviewed by: IMR 03/25/24

APPENDIX F
STREAMSTATS REPORT

StreamStats 2001 Study Area Re-delineation

Region ID: AL
Workspace ID: AL20240325160736277000
Clicked Point (Latitude, Longitude): 31.06826, -87.96446
Time: 2024-03-25 11:08:12 -0500

Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
AL_SVI2020	Mapped streamflow variability index as defined in SIR 2020-5099	0.382	
DRNAREA	Area that drains to a point on a stream	42800	square miles
L3_PIEDMNT	Percent of basin in the EPA Level III Piedmont ecoregion	13	
L3_SE_PLNS	Percent of basin in the EPA Level III Southeast Plains ecoregion	56	
PRECPRIS10	Basin average mean annual precipitation for 1981 to 2010 from PRISM	55.1	inches

Low-Flow Statistics

Low-Flow Statistics Parameters [98.0 Percent (41900 square miles) Low Flow Statewide SIR 2020 5099]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	42800	square miles	2.01	2469
AL_SVI2020	AL_SVI2020	0.382	dimensionless	0.169	1.2
PRECPRIS10	Mean Annual Precip PRISM 1981 2010	55.1	inches	48.71	67.45

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
L3_PIEDMNT	L3_PIEDMNT	13	percent	0	100
L3_SE_PLNS	L3_SE_PLNS	56	percent	0	100

Low-Flow Statistics Disclaimers [98.0 Percent (41900 square miles) Low Flow Statewide SIR 2020 5099]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors. Weighted flows were not calculated. Users should be careful to evaluate the applicability of the provided estimates. Percentage of area falls outside where region is undefined. Whole estimates have been provided using available regional equations.

Low-Flow Statistics Flow Report [98.0 Percent (41900 square miles) Low Flow Statewide SIR 2020 5099]

Statistic	Value	Unit
1 Day 10 Year Low Flow	11000	ft^3/s
7 Day 2 Year Low Flow	13000	ft^3/s
7 Day 10 Year Low Flow	9920	ft^3/s

Low-Flow Statistics Citations

Feaster, T.D., Kolb, K.R., Painter, J.A., and Clark, J.M.2020, Methods for estimating selected low-flow frequency statistics and mean annual flow for ungaged locations on Streams in Alabama: U.S. Geological Survey Scientific Investigations Report 2020–5099, 21 p. (https://doi.org/10.3133/sir20205099)

Application Version: 4.19.4
StreamStats Services Version: 1.2.22
NSS Services Version: 2.2.1

Appendix G

Contingency Plan

ALABAMA STATE PORT AUTHORITY
Environmental and Program Management

CONTINGENCY PLAN

ALABAMA WOOD TREATING CORPORATION SITE

MOBILE, ALABAMA
USEPA ID NUMBER: ALD 058 221 326

June 2022

Previous revisions:
December 2019
July 2015
July 2014
October 2013
September 2010
April 2009
June 2008
April 2007
January 2005
August 2003
August 2000
September 1997

This document outlines emergency response procedures to be followed in the event of a fire or unplanned release of hazardous constituents. Per 40 CFR 264 SUBPART D, this plan has been distributed to local authorities.

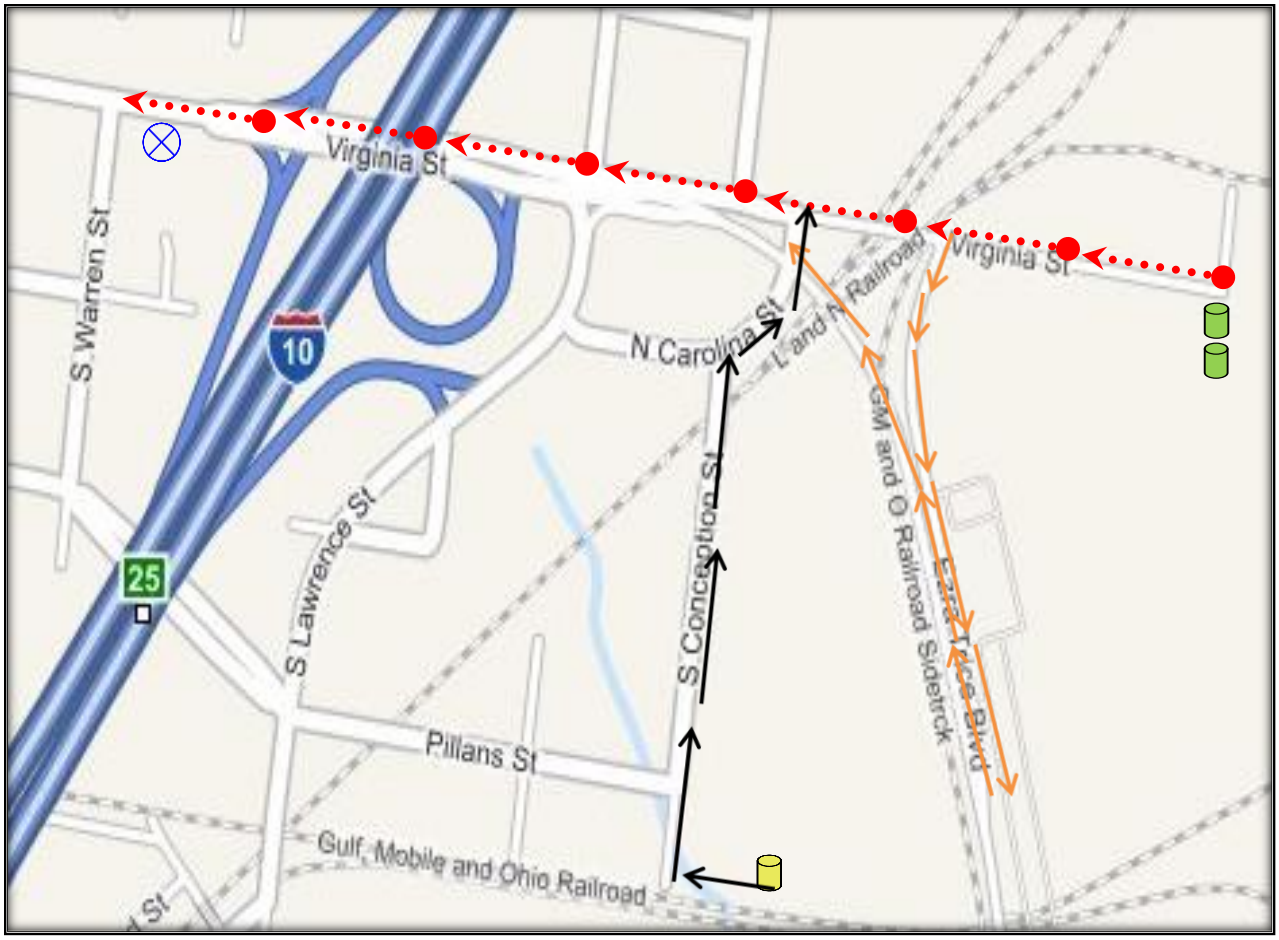

Figure 1. AWTC & SWMU 6 West Site/Evacuation Routes

Primary Route

1. Proceed West on Virginia St.

Secondary Route

2. Proceed South "Wrong Way" on Ezra Trice Blvd.
3. U-Turn at the end of the off-ramp and proceed to

** In the event of a primary route blockage by Railcars, the secondary route should be used with caution. This route requires travelling down the road going the "Wrong Way" for a short distance.*

SWMU 6 West Route

4. Proceed West through the gate then North onto Conception St.
5. Right on North Carolina St.
6. Left on Virginia St.

All personnel should meet at the Service station located at Virginia St. and S. Warren St.

CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

335-14-8-.02(2)(d)

Robert C. Harris, Jr., P.E.
Vice President, Technical Services Division
Alabama State Port Authority

2/6/18
Date

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Figures

Tables

Appendices

1.0 CONTINGENCY PLAN PURPOSE AND IMPLEMENTATION

This Contingency Plan was prepared by the Alabama State Port Authority (ASPA), for the former Alabama Wood Treating Corporation (AWTC) site, located in Mobile, Alabama, and is in accordance with the requirements of the Resource Conservation and Recovery Act (RCRA) contained in 40 CFR 264 Subpart D, and 40 CFR 270.14(b)(7). The location of Subpart D requirements in the Contingency Plan are identified in Table 1. This document supersedes the Contingency Plan prepared by Remediation Technologies, Inc. (June 1994), Alabama State Docks Department revisions (February 1996, May 1997, September 1997, and August 2000), and previous ASPA revisions (August 2003, January 2005, April 2007, June 2008, April 2009, September 2010, October 2013, July 2014, July 2015, December 2019) as required by 40 CFR 264.54.

1.1 Contingency Plan Purpose

The Contingency Plan is designed to minimize hazards to human health or the environment due to fire or an unplanned release of hazardous constituents. The procedures outlined in this document should be followed in the event of a fire or unplanned release of hazardous constituents.

1.2 Copies of the Contingency Plan

Copies of this document are maintained at the AWTC site treatment facility, the ASPA Environmental & Program Management Office and the ASPA Port Police Department. Moreover, the ASPA has made arrangements with the local authorities listed in Table 2 for responding to emergency situations. Key emergency response agencies have also been provided copies of the Plan, including the Mobile County Emergency Management Agency. The Mobile County Emergency Management Agency will be the primary emergency authority for the AWTC site and will make the necessary notifications to the local fire, police and ambulance services. A copy of the plan has also been sent to Mobile Infirmary so that appropriate medical attention can be given to injured personnel.

TABLE 1
LOCATION OF 40 CFR 264 SUBPART D REQUIREMENTS IN THE CONTINGENCY PLAN

Subpart D Requirement	Location in Contingency Plan
Purpose and Implementation (264.51)	Section 1.0
Content of Contingency Plan (264.52)	
(a) Emergency Actions	Sections 6.1 - 6.3
(b) Amendments of SPCC	Addressed in SPCC Plan
(c) Coordinated Emergency Services	Sections 1.2 and 1.3
(d) Emergency Coordinators	Section 1.3
(e) Emergency Equipment	Section 4.0
(f) Evacuation Plan	Section 6.4
Copies of Contingency Plan (264.53)	Section 1.2
Amendment of Contingency Plan (264.54)	Section 7.0
Emergency Coordinator (264.55)	Section 1.3
Emergency Procedures (264.56)	Sections 5.0 and 6.0

1.3 Emergency Coordinator

Ms. Gretchen L. Barrera, P.E., Environmental Director of the ASPA, has been designated as the Primary AWTC Site Emergency Coordinator and as such, will be responsible for coordinating all emergency response measures. If an emergency situation develops at the site, the Emergency Coordinator will be notified immediately. Mr. Rehman Siddiqui, Environmental Engineering Specialist of the ASPA, is the Alternate AWTC Site Emergency Coordinator. Both Ms.

Barrera and Mr. Siddiqui are thoroughly familiar with all aspects of the facility Contingency Plan, all operations and activities at the facility, the locations and characteristics of waste handled, the location of all records for the facility, and the facility layout. In addition, they have the authority to commit the resources necessary to carry out the contingency plan. Ms. Barrera and Mr. Siddiqui's office, home, and cellular telephone numbers, and work and home addresses have been provided in Table 2. Table 2 also presents a notification list of agencies with telephone numbers that should be contacted in the event of an emergency.

The Emergency Coordinator will be responsible for initiating contact with the Mobile County Emergency Management Agency, local authorities, and if necessary, the Mobile Infirmary, although he or she may authorize on-site personnel to initiate contact with these services. The Emergency Coordinator will also contact the National Response Center, the Alabama Department of Environmental Management, and USEPA Emergency Response Center in the event that the facility has a fire, explosion, or release which could threaten human health or the environment. The Emergency Coordinator will remain the point of contact for any responding agencies throughout the incident. Hazard communication activities are detailed in Section 6.2.

TABLE 2
AWTC EMERGENCY CONTACT INFORMATION

PERSONNEL	RESPONSIBILITY	WORK / HOME PHONE	WORK / HOME ADDRESS
EMERGENCY COORDINATORS			
Gretchen L. Barrera (Primary Coordinator) ASPA Environmental Director	Emergency Response Coordination	Work (251) 441-7086 Home (832) 656-9424 Cell (251) 622-4180	Work: 250 N. Water Street Mobile, AL 36602 Home: 231 Lakewood Drive W. Mobile, AL 36608
Rehman Siddiqui (Alternate Coordinator) ASPA Environmental Engineering Specialist	Emergency Response Coordination	Work (251) 441-7502 Home (251) 408-8609 Cell (251) 605-6418	Work: 250 N. Water Street Mobile, AL 36602 Home: 15010 Findley Rd. Wilmer, AL 36587
EMERGENCY RESPONSE: **(A) CONTRACTORS**			
United States Environmental Services	Emergency Response Contractor	(251) 662-3500 (24 HOURS)	
Oil Recovery Company	Emergency Response Contractor	(251) 690-9010 (24 HOURS)	
Complete Environmental	Emergency Response Contractor	(251) 202-1481 (24 HOURS)	
(B) AGENCIES			
Mobile County Emergency Management Agency	Emergency Response Team Organization, Public Education	(251) 460-8000 (24 HOURS)	
Mobile Fire Department	Firefighting, Explosion, HazMat Response Team	911 (24 HOURS)	
Mobile Infirmary Emergency Evaluation Unit	Personal Injury	(251) 431-2620 (24 HOURS)	
(C) REQUIRED NOTIFICATION			
National Response Center		(800) 424-8802 (24 HOURS)	
EPA Emergency Response		(800) 293-1788 (24 HOURS)	
ADEM		(251) 450-3400 (24 HOURS)	

2.0 GENERAL FACILITY INFORMATION

This section presents an overview of operations, equipment and hazardous constituents at the AWTC site, along with other characteristics of the site which may influence the implementation of emergency procedures.

2.1 Overview of the Site Operations

The site location is shown on Figure 2. Operations at the site currently consist of two subsurface free product recovery systems and a groundwater treatment system. Detailed descriptions of these systems can be found in The Alabama State Port Authority AWTC RCRA permit renewal 2013 (ALD 058 221 326, October 2013); the systems are described briefly below.

2.1.1 Product Recovery System

Dense Non-Aqueous Phase Liquid (DNAPL) Recovery Systems

The corrective measures objectives for DNAPL source control has been addressed through the expansion and operation of two existing DNAPL recovery systems described below.

Recovery Well System

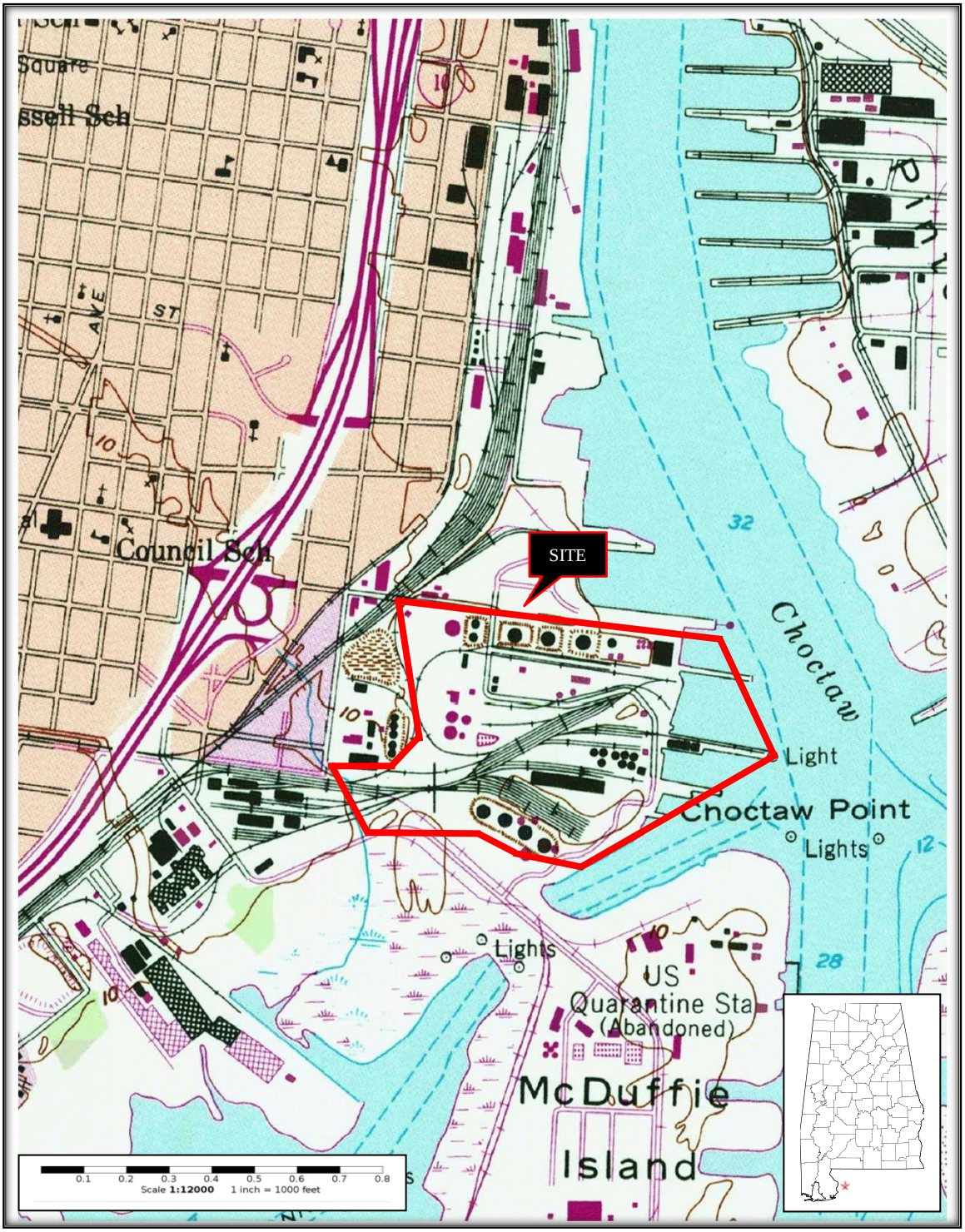
Currently the recovery well system (RWS) consists of the following wells:

- RW-3
- RW-4
- RW-5
- RW-6
- RW-7
- RW-8
- MW 17-S

The Solid Waste Management Unit (SWMU) 4 RWS consists of the six DNAPL recovery wells. All six wells are operated by positive displacement pumps and the motors are enclosed in underground vaults with in the redeveloped APM Terminals Mobile.

A waste water treatment system (WWTS) has been constructed at the eastern terminus of Virginia Street on the adjacent property to the north of the APM Terminals Mobile.

Well 17-S is a DNAPL recovery well located on the west side of Ezra Trice Boulevard and is operated similarly to the six DNAPL recovery wells inside APM Terminals



Alabama State Port Authority
AWTC Site Contingency Plan
Figure 2 - Site Location Map

Mobile. Due to its location, well 17-S effluent is pumped to a storage tank within SWMU 6 West. SWMU 6 West is a fenced property located west of Ezra Trice Boulevard and the Ezra Trice Bypass Rail Tracks with an entrance at the south end of Conception Street.

Monitoring Well Recovery System

Currently the monitoring well recovery system (MWRS) consists of the following wells:

- MW 18-IR
- MW 20-I
- MW 21-S
- MW 4-D
- MW 4-DK
- RW-1

The MWRS currently includes five converted monitoring wells and one converted DNAPL recovery well. Due to low product yields, these wells are pumped on a semi-annual basis.

2.1.2 Water Treatment System

A wastewater treatment system (WWTS) was installed at the AWTC site in order to treat co-generated groundwater from the product recovery systems and groundwater from sampling and remediation activities.

The co-generated wastewater currently being produced by the DNAPL recovery systems is being collected at the treatment facility in two 3,000 gallon storage tanks. After an extended settling period to phase-separate any product, the water is decanted and pumped through an oil/water separator and, if necessary, through two activated charcoal filters and stored in an accumulation tank for analytical testing. Once the results of the analytical tests are received, and if they are compliant with the discharge limitations of the MAWSS Pretreatment Contract, then the wastewater is discharged to the POTW.

Wastewater treatment at the AWTC site began in February 1994. The ASPA submitted the Final CMI Work Plan on the recovery efforts to ADEM on February 13, 2003 which included the redesigned specifications and equipment for treatment and discharge of the co-generated wastewater. The approved CMI was incorporated into the 2003 AHWMMA Post-Closure Permit and the new wastewater treatment system was completed near the end of the schedule for the CMI. Discharge from the new wastewater treatment system will be an as-needed, batch flow.

2.2 On-Site Hazardous Substances and Their Characteristics

The hazardous substances that are present at the AWTC Site include creosote oils and

pentachlorophenol. The properties and characteristics of these substances are described below (see Appendix A for MSDSs).

Creosote

Creosote is a dark brown viscous substance with a characteristic smoky odor. It is of complex and variable composition and is produced by the destructive distillation of coal. Creosote is insoluble in water; soluble in ethyl alcohol; and has a specific gravity ranging between 1.1 and 1.3, and consequently sinks in water.

Pentachlorophenol

In pure form, pentachlorophenol appears as a light brown solid with low solubility in water and a specific gravity of approximately 2.0. It is generally mixed with a petroleum product, such as kerosene or diesel fuel, to form a wood treating solution. Since pentachlorophenol use at the site coincided with the use of creosote, it is likely to be found mixed with creosote.

However, pentachlorophenol was used for a relatively short period of time and is not as commonly encountered at the site as creosote. Nevertheless, pentachlorophenol can have serious health effects that should be considered when exposure to substances appearing to be creosote occurs.

3.0 EVALUATION OF POSSIBLE HAZARDS

This section presents a description of the hazards most likely to occur at the AWTC site. These hazards are primarily limited to: 1) an unplanned release or spill of one of the chemicals described in Section 2.0, and 2) a fire. The actions necessary to mitigate these hazards are presented in Section 6.0.

3.1 Unplanned Release of Spill of Hazardous Constituents

The most likely hazardous situation to occur at the site is a spill or release of the hazardous chemicals described in Section 2.0. These chemicals may be released either in pure form (e.g., creosote/pentachlorophenol product) or mixed within a soil or water matrix. The response of facility personnel to a spill will be dictated, in large part, by the chemicals involved (also to the extent of the spill). For this reason, this section divides possible spills at the site into two categories: product (creosote/pentachlorophenol) and recovered groundwater. A combination product/groundwater spill should be treated as a product spill.

For each of these spill types, there are several possible scenarios which might be responsible for the spill: failure of the valve or piping system during transfer of fluids from tank to tank, overturning of a tank during transport or rupture of a tank. The following sections describe the various issues related to spills at the AWTC site.

3.1.1 Product (Creosote/Pentachlorophenol) Spill

RW-3, RW-4, RW-5, RW-6, RW-7, RW-8, and 17-S stations at the site pump product and groundwater from the subsurface into recovery tanks, where the dense product separates from the groundwater and sinks to the bottom of the tank. The product in the recovery tanks is periodically removed by vacuum pump into a transfer truck and transported off-site to a creosote recycling/reuse facility or a hazardous waste disposal facility.

Product spills of various magnitudes can occur at several points in this process. A failure of a recovery tank could consist of either a rupture or overturning of the tank and might lead to a failure of the recovery pipeline; corrosive processes might precipitate a slow leak or a sudden release; a tank may be struck by a vehicle and overturned or ruptured; a hose may fail during transfer operations, or natural phenomena, such as hurricanes, may be strong enough to overturn a tank.

Emergency spill containment is primarily provided by the concrete containment structure that surrounds the recovery tanks and treatment system. The volume capacity of this structure is designed to hold at least 110 percent of the largest tank storage volume. Therefore product released should be confined within the containment area.

Product spills at the site may also occur during transport of the product from the MWRS wells. Overturning of a transport container should be considered one of the most likely ways to precipitate a product spill. A spill during transport would release product directly to the ground surface and, depending on the magnitude and location of the spill, should also be considered one of the most dangerous site hazards. Site surface drainage and potential spill flow directions are discussed in Section 3.3.

3.1.2 Contaminated Groundwater Spill

There are currently two recovery systems at the site where free product and groundwater are pumped from the subsurface into recovery tanks located within the WWTS and SWMU 6 West. In the recovery tanks, the denser product separates from the groundwater and sinks to the bottom of the vessel. The groundwater in these tanks is periodically pumped off the top of the tanks into an oil-water separator, is treated and released to the Publically Owned Treatment Works (POTW) under a POTW contract.

Possible spill scenarios of contaminated groundwater are similar to those mentioned above for product spills: failure of a recovery tank, pipeline rupture, or spill during transport from SWMU 6 West to the WWTS. The most likely situation involving a spill of contaminated groundwater is rupturing of a transfer pipe.

3.2 Fire

Fire is recognized as a possible hazard at the AWTC site, although much less likely than a spill. Creosote is classified as a combustible liquid, however, its vapor pressure is very low and, consequently, it has a high flash point. Moreover, there are typically no open flames present during any site operations. Although unlikely, the threat of a fire at the site should not go unrecognized and site workers should be prepared in the event of a fire. Two fire extinguishers (ABC rating) are kept at the WWTS facility and one fire extinguisher (ABC rating) is kept at SWMU 6 West for use in case of small fires.

3.3 Facility Drainage and Possible Spill Flow Direction

Due to the construction of the APM Terminals Mobile, the majority of the former AWTC site has been capped as part of the RCRA Corrective Measures Implementation and subsequently covered with additional clean fill and an impervious layer of roller-compacted concrete. Remaining areas such as SWMU 6 West and the remaining portion of SWMU 6 East have been covered with asphalt. The area is very flat with relief generally less than 1.0 foot across the entire site. A spill that occurs outside of a secondary containment during transport would be immediately observed by the ASPA workers performing the transport task. These workers have sorbent materials and/or containment supplies in their vehicles for ready deployment. Therefore, it is unlikely that any spilled materials will migrate via surface water runoff to any appreciable

extent unless the release occurs during a heavy precipitation event. Procedures for preventing the migration of spilled materials via these drainage conveyances are presented in Section 6.3.

3.4 SWMU 6 West and Possible Train Derailment

SWMU 6 West has been modified to incorporate the Ezra Trice Bypass Rail Tracks project which routes new rail lead tracks from Virginia Street to the ASPA McDuffie Coal Terminals. This activity is unrelated to the creosote and pentachlorophenol

Should a derailment occur that damages the asphalt cover in SWMU 6 West, the response actions contained in this Contingency Plan will be followed as described. Any physical damage to the asphalt surface will be immediately repaired to original design specifications.

4.0 EMERGENCY EQUIPMENT

Necessary equipment for preventing and responding to minor fires and spills is maintained at the AWTC site and includes the following items:

Item	Description/Capability	Location
Worker Safety Equipment	Protective coveralls, boots, eye protection, gloves, etc.	Treatment Facility
Fire Extinguisher (ABC)	For control of small fires	Treatment Facility
Cellular Telephone	Communication for alerting ASPA personnel to emergencies and for summoning help	One of the Emergency Coordinators
First Aid Station	Station for administering first aid to most injuries	ASPA Medical Services; Limited Supplies at Treatment Facility and inside vehicles.
Shovels, Backhoe, Frontend Loader	For containing and cleaning up spills	ASPA Maintenance Division
Sorbent Booms, Pads, Pillows	For containing and cleaning up spills	Treatment Facility
Emergency Eye Wash	To wash off personnel	Treatment Facility
Water Hose	For control of small fires and to wash off personnel	Treatment Facility

5.0 FIRST AID TREATMENT FOR CHEMICAL EXPOSURE

5.1 Creosote

In general, creosote can produce an irritant action on the skin, eyes and mucous membranes. Extensive contact of the skin or eyes with creosote, when not treated, can result in minor burns. Prolonged exposure to creosote vapors in excess of permissible air concentrations can result in acute toxic effects such as respiratory difficulty, convulsions and possible cardiovascular collapse. The Occupational Safety and Health Administration (OSHA) has not established a standard permissible exposure limit (PEL) for creosote. However the PEL for Coal Tar Pitch Volatiles, which is a reasonable proxy for air exposure is 0.2 milligrams per cubic meter (mg/m^3) based upon a time weighted average exposure over an 8-hour period (TWA). Prolonged and repeated exposure over many years in the absence of recommended hygiene practices has been shown to promote changes in skin pigmentation or skin cancer.

Exposure to **CREOSOTE** or other coal tar residuals through the following routes should be treated as described below:

SKIN CONTACT: Remove contaminated clothes and rinse skin thoroughly with water for at least 15 minutes. Seek immediate medical attention.

EYE CONTACT: Flush eyes immediately with large amounts of water for at least 15 minutes; seek immediate medical attention.

INHALATION: Remove to fresh air; if not breathing, give artificial respiration, preferably mouth-to-mouth; if breathing is difficult, give oxygen; seek immediate medical attention.

INGESTION: Call Poison Control (800) 222-1222; get immediate medical assistance.

5.2 Pentachlorophenol

If ingested, pentachlorophenol is extremely toxic to humans. Contact with skin or eyes can result in slight to moderate irritation, although it is unlikely for this substance to be absorbed in toxic amounts through the skin. It is also unlikely for pentachlorophenol to be inhaled above permissible air concentrations (OSHA: 0.5 mg/m^3 TWA), due to its sharp chemical smell and odor threshold of 1.6 mg/m^3 which is well below the PEL. Prolonged or intense exposure to pentachlorophenol can result in irritation to nose and throat, elevation of body temperature, mild transient corneal injury and/or slight burn or rash on skin.

Contact with **PENTACHLOROPHENOL** through the following routes of exposure should be treated

as follows:

SKIN CONTACT: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes; seek immediate medical attention; wash contaminated clothing before reuse; destroy contaminated shoes.

EYE CONTACT: Promptly flush with water for at least 15 minutes; get medical attention immediately.

INHALATION: Remove to fresh air if effects occur; Seek immediate medical attention.

INGESTION: Pentachlorophenol is extremely toxic when ingested. Do not induce vomiting. Rinse mouth with water. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention. Call Poison Control (800) 222-1222.

6.0 EMERGENCY RESPONSE PROCEDURES

This section outlines the actions that should be taken by the Emergency Coordinator in response to either an unplanned release of hazardous constituents or a fire. These emergency response procedures are used to achieve four main objectives:

IDENTIFY the hazard;

COMMUNICATE the hazard;

CONTAIN/CONFINE the hazard; and for spill events;

RECOVER/DISPOSE OF the hazard.

6.1 Hazard Identification

As soon as an emergency situation is recognized, on-site personnel must take the following actions:

- contact the Emergency Coordinator;
- designate an On-Site Emergency Manager;
- identify the nature, source and extent of hazard;
    - what chemicals are involved/what type of fire;
    - which areas of the site are affected;
    - how far the hazard is likely to spread;
    - what injuries to personnel have been or might be sustained;
- decide on whether or not to enter into hazard area; although protection of human life is of primary importance, a decision to rescue personnel must be weighed against the possibility that you could become a victim; **UNDER NO CIRCUMSTANCES SHALL AN ASPA EMPLOYEE ENTER THE HAZARD AREA UNLESS PROPERLY TRAINED AND EQUIPPED TO DO SO!**
- identify type and location of PPE and response equipment necessary in dealing with the hazard; and
    - identify agencies/rescue teams which can provide support for the hazard present.

6.2 Hazard Communication

Once the hazard has been identified/characterized, hazard communication notifications will be made as shown in Figure 3. The Emergency Coordinator will immediately be contacted by on-site personnel and informed on the nature and severity of the hazard. The Emergency Coordinator will subsequently contact, or direct other on-site personnel to contact, emergency response personnel, as well as anyone who may be affected by the hazard, including:

- all other on-site personnel;
- personnel at nearby facilities who may be affected by the hazard;
- the Mobile County Emergency Management Agency; and
- an appropriate emergency response contractor.

If the incident results in non-compliance with the RCRA Post Closure Permit and/or threatens human health and the environment outside of the facility, the Emergency Coordinator will make appropriate 24-hour notifications to the following agencies:

- the National Response Center; and
- the Alabama Department of Environmental Management.

Reports to these agencies will include the following:

- name and telephone number of the reporter;
- name and address of the facility;
- time and type of accident (e.g., fire, spill);
- name and estimated quantity of material(s) involved;
- extent of injuries, if any; and
- possible hazards to human health or the environment outside the facility.

A complete listing of emergency contacts, including telephone numbers, is provided in Table 2.

If evacuation of the site is necessary to maintain personnel safety, the Emergency Coordinator is responsible for directing personnel off site and outside of the area affected by the hazard; procedures for evacuation are presented in Section 6.4. The Emergency Coordinator must also ensure that the hazard area is visibly marked out so that it will only be entered by personnel responding to the emergency.

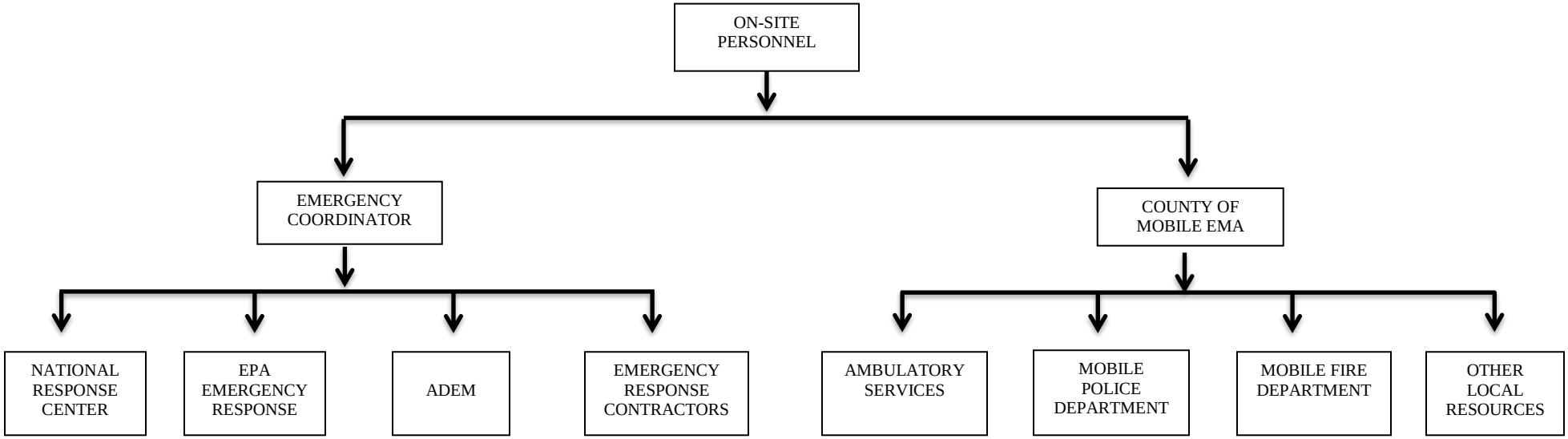


FIGURE 3
HAZARD COMMUNICATION TREE

6.3 Hazard Containment or Confinement

Direct action of on-site personnel to contain or confine a hazard should only be undertaken after a thorough risk assessment; large fires or spills, in most cases should be handled only by trained emergency response teams. However, if immediate, on-site response to the hazard is appropriate, the following actions should be taken:

- appropriate PPE must be gathered and donned before entering the hazard area if contact with product or contaminated groundwater is expected,

- minimize contact with any spilled material: Do not walk into or touch spilled material; avoid inhalation of fumes, smoke and vapors; although the chemicals at the site generally possess distinctive odors, do not assume that gases or vapors are harmless because of lack of smell;

    - **if possible**, contain the hazard at its source:

        - upright overturned containers;

        - create temporary plugs/patches for ruptured containers;

- extinguish small fires by aiming spray from fire extinguisher at base of fire; and rapidly sweep the discharge from side to side.

- **if necessary,** confine the hazard to the immediate area:

    - for medium to large spills, create temporary earthen berms using shovels or use appropriate adsorbent pads or booms.

If possible, spilled material and contaminated soils should be excavated and deposited into drums or other appropriate containers, or onto sheet plastic. This will allow the subsequent removal of these wastes and prevent the potential migration of hazardous constituents into the subsurface. **Any excavation activities, however, should only be performed where there is no potential endangerment to on-site personnel in accordance with the AWTC Site Health and Safety Plan.**

6.4 Evacuation Plan

All regular on-site personnel have received training on emergency evacuation procedures for the AWTC site. Since completion of the remediation at the site, the areas requiring worker presence are the DNAPL recovery wells and the treatment facility. The Emergency Coordinator is responsible for implementing the evacuation procedures.

If workers are present at locations distant from the site of the actual emergency (i.e. outside of shouting distance), then the signal to initiate evacuation will consist of three short blasts of a vehicle horn, which will be repeated every five seconds. In all instances requiring evacuation, the following procedures should be followed.

1. All on-site personnel should stop work immediately and leave the site either by vehicle or on foot.
2. All personnel should meet at the service station located at the corner of Virginia Street and S. Warren Street.
3. All personnel should comply with the instructions issued by the On-Site Emergency Coordinator.
4. All personnel should remain outside of the site area until notified by the Emergency Coordinator that they may re-enter.

6.5 Post-Incident Reporting

The date, time and details of any incident that requires implementing the contingency plan will be noted in the facility operating record immediately following the incident. Within 15 days of the incident, a written report will be prepared that details the incident and will be submitted to the Alabama Department of Environmental Management (ADEM). This report will include:

- appropriate name, address and telephone number of the ASPA Emergency Coordinator;
- name, address, and telephone number of the facility;
- date, time and type of incident (e.g., fire, spill);
- name and quantity of material(s) released;
- extent of injuries, if any;
- assessment of actual or potential hazards to human health or the environment; and
- estimated quantity and disposition of recovered material that resulted from the incident.

7.0 AMENDMENT OF THE CONTINGENCY PLAN [40 CFR 264.54]

In accordance with 40 CFR 264.54, the Contingency Plan for the AWTC Site will be reviewed and amended, if necessary, whenever:

- the facility permit is revised;
- the plan fails in an emergency;
- the facility design, construction, operation, maintenance, or other circumstances, change in a way that increases the potential for fires, explosion, or release of hazardous waste constituents, or changes the response necessary in an emergency;
- the list of the Emergency Coordinators change; or
- the list of emergency equipment changes.

APPENDIX A

MATERIAL SAFETY DATA SHEETS

Safety Data Sheet

acc. to OSHA HCS

Printing date 02/26/2014 Version number 11 Reviewed on 02/26/2014

*

1 Identification

. **Product identifier**

. **Trade name: Coal Tar Creosote P2**

. **Article number:** CA103211

. **CAS Number:**

8001-58-9

. **Application of the substance / the mixture**

Biocide

Wood-preservative impregnation

Wood preservatives

. **Details of the supplier of the safety data sheet**

creosote registrant of AWPA P2: RÜTGERS Germany GmbH (EPA-Registration No. 61470-3)

EPA accepted production unit: RUETGERS Canada Inc. (Establishment No. 81091-CAN-001)

. **Manufacturer/Supplier:**

RUETGERS Canada Inc. Tel: +1 905 - 544 - 2891

725 Strathearne Ave N Fax: +1 905 - 544 - 4942

Hamilton, Ontario, L8H 5L3, Canada

. **Information department:**

see: chapter 16 (contact)

e-mail: MSDS@ruetgers-group.com

. **Emergency telephone number:** Call 905 544 3722 or CANUTEC (Toll Free) 613 996 6666

*

2 Composition/information on ingredients

. **Chemical characterization: Substances**

. **CAS No. Description:**

8001-58-9 Creosote

. **Dangerous components:**		
91-20-3	Naphthalene	< 10%
92-52-4	Biphenyl	< 2%
50-32-8	Benzo[a]pyrene	< 1%

3 Hazard(s) identification

. **Classification of the substance or mixture**

GHS08 Health hazard

Carc. 1B H350 May cause cancer.

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

GHS09 Environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

GHS07

Skin Irrit. 2 H315 Causes skin irritation.

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Trade name: Coal Tar Creosote P2

Eye Irrit. 2A	H319 Causes serious eye irritation.
Skin Sens. 1	H317 May cause an allergic skin reaction.

. **Label elements**
. **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).
. **Hazard pictograms**

GHS07 GHS08 GHS09

. **Signal word** Danger

. **Hazard-determining components of labeling:**
Creosote
. **Hazard statements**
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H350 May cause cancer.
H361 Suspected of damaging fertility or the unborn child.
H411 Toxic to aquatic life with long lasting effects.
. **Precautionary statements**
P273 Avoid release to the environment.
P281 Use personal protective equipment as required.
P261 Avoid breathing mist/vapours/spray.
P321 Specific treatment (see on this label).
P362 Take off contaminated clothing.
P363 Wash contaminated clothing before reuse.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
. **Classification system**
. **NFPA ratings (scale 0 - 4)**
Health = 2
Fire = 1
Reactivity = 0
. **HMIS ratings (scale 0 - 4)**
Health: 2
Fire: 1
Reactivity: 0
PPE: C
. **Other hazards** elevated transport- and storage temperature 60-80 °C

4 First-aid measures

. **General information**
Personal protection for the First Aider.
Immediately remove any clothing soiled by the product.
. **After inhalation** Supply fresh air; consult doctor in case of complaints.
. **After skin contact**
After contact with the hot product, cool rapidly with cold water.

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Clean affected area with soap and plenty of water.
Seek medical treatment.
. **After eye contact** Rinse opened eye for several minutes under running water. Then consult a doctor.
. **After swallowing**
Rinse out mouth and then drink plenty of water.
Seek medical treatment.
. **Information for doctor** Therapeutically measures: basic help, decontamination, symptomatic treatment.

5 Fire-fighting measures

. **Suitable extinguishing agents** CO2, extinguishing powder or water jet. Fight larger fire with foam.
. **For safety reasons unsuitable extinguishing agents** Water with full jet.
. **Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Carbon monoxide (CO)
. **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Wear self-contained respiratory protective device.
. **Additional information**
Cool endangered receptacles with water spray.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

. **Personal precautions, protective equipment and emergency procedures**
Wear protective clothing.
Ensure adequate ventilation
. **Environmental precautions:** Inform respective authorities in case of seepage into water course or sewage system.
. **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
. **Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

. **Precautions for safe handling**
No special precautions are necessary if used correctly.
Ensure good ventilation/exhaustion at the workplace.
. **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
. **Storage**
. **Requirements to be met by storerooms and receptacles:** Ensure good ventilation/exhaustion at the workplace.
. **Information about storage in one common storage facility:** Store away from oxidizing agents.
. **Further information about storage conditions:** Keep receptacle tightly sealed.
. **Recommended storage temperature:** 60-80 °C

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Trade name: Coal Tar Creosote P2

. **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

. **Additional information about design of technical systems:** No further data; see item 7.

. **Components with limit values that require monitoring at the workplace:**

91-20-3 Naphthalene

PEL	Long-term value: 50 mg/m³, 10 ppm
REL	Short-term value: 75 mg/m³, 15 ppm Long-term value: 50 mg/m³, 10 ppm
TLV	Short-term value: (79) mg/m³, (15) ppm Long-term value: 52 mg/m³, 10 ppm Skin; BEI, NIC-A3

92-52-4 Biphenyl

PEL	Long-term value: 1 mg/m³, 0.2 ppm
REL	Long-term value: 1 mg/m³, 0.2 ppm
TLV	Long-term value: 1.3 mg/m³, 0.2 ppm

50-32-8 Benzo[a]pyrene

PEL	Long-term value: 0.2 mg/m³ see Coal tar pitch volatiles
REL	Long-term value: 0.1 mg/m³ Coal tar pitch volatile; Pocket Guide Apps. A+C
TLV	L; BEIp

. **Ingredients with biological limit values:**

50-32-8 Benzo[a]pyrene

BEI	- Medium: urine Time: end of shift at end of workweek Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)

. **Personal protective equipment**

. **General protective and hygienic measures**

The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

. **Breathing equipment:**

Use suitable respiratory protective device in case of insufficient ventilation.
Filter ABEK

. **Protection of hands:**

Heat protection gloves
Only use chemical-protective gloves with CE-labeling of category III.

. **Material of gloves**

Nitrile rubber, NBR
Butyl rubber, BR
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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Trade name: Coal Tar Creosote P2

. **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
. **For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:**
Nitril rubber
Butyl rubber
. **As protection from splashes gloves made of the following materials are suitable:**
Nitril rubber, NBR
Butyl rubber, BR
. **Eye protection:** Tightly sealed goggles.
. **Body protection:** Protective work clothing.

*
9 Physical and chemical properties

. **General Information**	
. **Appearance:**	
Form:	Fluid
Color:	Light brown
. **Odor:**	Aromatic
. **Odour threshold:**	Not determined.
. **pH-value:**	Not applicable.
. **Change in condition**	
Boiling point/Boiling range:	200 - 400 °C (392 - 752 °F)
Crystallization temperature / range:	< 50 °C (< 122 °F)
. **Flash point:**	100 - 130 °C (212 - 266 °F) (DIN EN 2719)
. **Flammability (solid, gaseous)**	Vapours may ignite, if product is heated above its flash point.
. **Ignition temperature:**	> 450 °C (> 842 °F)
. **Decomposition temperature:**	Not determined.
. **Danger of explosion:**	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
. **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
. **Vapor pressure at 25 °C (77 °F):**	< 500 Pa (EPA Guideline 63-9)
. **Density at 15.5 °C (60 °F):**	1.08 - 1.13 g/cm³ (9.013 - 9.43 lbs/gal) (AWPA A1-4)
. **Vapour density**	Not determined.
. **Evaporation rate**	Not determined.
. **Solubility in / Miscibility with**	
Water at 20 °C (68 °F):	< 0.2 g/L
. **Partition coefficient (n-octanol/water):**	Not determined.
. **Viscosity:**	
kinematic at 25 °C (77 °F):	< 16 mm²/s (EPA Guideline 63-18)

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Trade name: Coal Tar Creosote P2

. **Other information** No further relevant information available.

10 Stability and reactivity

. **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.
. **Incompatible materials:** No further relevant information available.
. **Hazardous decomposition products:** No dangerous decomposition products known

11 Toxicological information

. **Acute toxicity:**

. **LD/LC50 values that are relevant for classification:**

8001-58-9 Creosote

Oral	LD50	> 3500 mg/kg (rat) (OECD 401)
Dermal	LD50	> 2000 mg/kg (rat) (OECD 402)
Inhalative	LC50	> 5 mg/L (rat) (OECD 403) aerosol (analogy to structure-related tar oil)

. **Primary irritant effect:**
. **on the skin:**
At longterm exposure upon the skin an irritation is possible.
In combination with UV light, irritations of skin (phototoxic effects) may occur.

8001-58-9 Creosote

Irritation of skin	Irritating	positive (rabbit) (OECD 404)

. **on the eye:** Irritation of the mucous membranes is possible.
. **Sensitization:** Sensitization possible through skin contact.
. **Additional toxicological information:**
Danger through skin absorption.

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Carcinogenicity	(.) weakly positive: mouse, skin (OECD 451) (analogy to structure-related tar oil, < 50 ppm benzo(a)pyrene content (CAS-No. 50-32-8))
Mutagenicity	(.) not mutagenic: based on < 50 ppm benzo(a)pyrene content (CAS-No. 50-32-8); negative: Ames test (OECD 471); negative: Chromosomal aberration / human lymphocytes) (OECD 473); weakly positive: Mouse Lymphoma Assay (OECD 476); negative: in vivo Micronucleus test, mouse (OECD 474); negative: in vivo Dominant Lethal Assay (DLA), rat (OECD 478) (analogy to structure-related tar oil)

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Repeated dose toxicity	(.) NOAEL (rat, 90 d, dermal) = 400 mg/kg/d no adverse effects at highest dose tested (OECD 411) (analogy to structure-related tar oil) NOAEL (rat, 90 d, inhalation) = 22 mg/m³ (aerosol+gas) (OECD 413) nasal chronic inflammation, bw loss, increase in liver weight (analogy to structure-related tar oil)
Reproductive toxicity	(.) weak potential for reprotoxic effects in rats (OECD 414, OECD 416) with NOAEL(devel.) = 50 and 25 mg/kg/d, respectively (no teratogenic effects, ambiguous effects on fertility) (analogy to structure-related tar oil)
Sensitization	(.) positive: maximization test GPMT, guinea pig (OECD 406) (analogy to structure-related tar oil)

12 Ecological information

. **Aquatic toxicity:**

8001-58-9 Creosote

EC50 (48 h) (static)	1.14 mg/L (daphnia) (OECD 202) nominal (analogy to structure-related tar oil)
EL50 (72 h) (static)	26 mg/L (algae) (OECD 201)
LC50 (96 h) (static)	4.1 - 6.6 mg/L (fish) (OECD 203) nominal (analogy to structure-related tar oil)

. **Persistence and degradability** No further relevant information available.

. **Bioaccumulative potential**

8001-58-9 Creosote

Bioaccumulative potential	(fish) moderate with individual BCF values in fish: 500 < BCF < 2000 Some literature values may extend beyond 2000.

. **Ecotoxical effects:**

. **Remark:**

8001-58-9 Creosote

NOEC (28 d)	10 mg/kg dw (Collembola) (ISO 11267, 1999) terrestrial toxicity
	1000 mg/kg dw (Soil microorganisms (C transformation)) (OECD 217) terrestrial toxicity
	316 mg/kg dw (Soil microorganisms (N transformation)) (OECD 216) terrestrial toxicity

. **Additional ecological information:**

. **General notes:**

Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

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Trade name: Coal Tar Creosote P2

13 Disposal considerations

. **Waste treatment methods**
. **Recommendation** Remove according to local authority recommendations, e.g. convey to a licensed incinerator.

. **Uncleaned packagings:**
. **Recommendation:** Disposal must be made according to official regulations.

*
14 Transport information

. **DOT, IMDG, IATA**	UN3082
. **UN proper shipping name**	
. **DOT**	RQ, UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Creosote)
. **ADR**	3082 Environmentally hazardous substances, liquid, n.o.s. (Creosote)
. **IMDG**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Creosote), MARINE POLLUTANT
. **IATA**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Creosote)
. **Transport hazard class(es)**	
. **DOT, ADR, IMDG, IATA**	
. **Class**	9 Miscellaneous dangerous substances and articles.
. **Label**	9
. **ADN/R Class:**	9
. **Packing group**	
. **DOT, ADR, IMDG, IATA**	III
. **Environmental hazards:**	
. **Marine pollutant:**	Yes (P) Symbol (fish and tree)
. **Special marking (ADR):**	Symbol (fish and tree)
. **Special marking (IATA):**	Symbol (fish and tree)
. **Special precautions for user**	Warning: Miscellaneous dangerous substances and articles
. **EMS Number:**	F-A,S-F
. **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Listed in IBC Code Chapter 17 Shipping Name: Creosote (coal tar)
. **Transport/Additional information:**	
. **DOT**	
. **Hazardous substance:**	RQ (Creosote): 1 lbs, 0.454 kg
. **Remarks:**	Special marking with the symbol (fish and tree).
. **UN "Model Regulation":**	UN3082, Environmentally hazardous substances, liquid, n.o.s. (Creosote), 9, III

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15 Regulatory information

. **SARA Section 355 (extremely hazardous substances)**

Substance is not listed.

. **SARA Section 313 (specific toxic chemical listings)**

Substance is listed.

. **TSCA (Toxic Substances Control Act)**

Substance is listed.

. **Cancerogenity categories**

. **IARC (International Agency for Research on Cancer)**

8001-58-9	Creosote	2A
91-20-3	Naphthalene	2B
50-32-8	Benzo[a]pyrene	1

. **NTP (National Toxicology Program)**

91-20-3	Naphthalene	R
50-32-8	Benzo[a]pyrene	R

. **TLV (Threshold Limit Value established by ACGIH)**

91-20-3	Naphthalene	A4
50-32-8	Benzo[a]pyrene	A2

. **NIOSH-Ca (National Institute for Occupational Safety and Health)**

50-32-8	Benzo[a]pyrene

. **OSHA-Ca (Occupational Safety & Health Administration)**

Substance is not listed.

. **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).

. **Hazard pictograms**

GHS07 GHS08 GHS09

. **Signal word** Danger

. **Hazard-determining components of labeling:**
Creosote

. **Hazard statements**
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H350 May cause cancer.
H361 Suspected of damaging fertility or the unborn child.
H411 Toxic to aquatic life with long lasting effects.

. **Precautionary statements**
P273 Avoid release to the environment.
P281 Use personal protective equipment as required.
P261 Avoid breathing mist/vapours/spray.
P321 Specific treatment (see on this label).
P362 Take off contaminated clothing.

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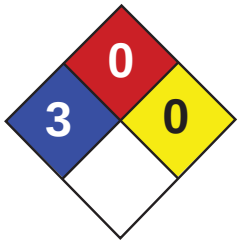
P363 Wash contaminated clothing before reuse.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

*
16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

. **Department issuing MSDS:**
Produktsicherheit / Regulatory Affairs Tel.: +49 2305 705 129 / e-mail: MSDS@ruetgers-group.com
. **Contact:** RUETGERS Canada: 905 - 544 - 2891
. **Abbreviations and acronyms:**
ICAO: International Civil Aviation Organization
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
P: Marine Pollutant
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
. **Sources**
GESTIS Stoffdatenbank (http://www.hvbg.de/d/bia/fac/zesp/sept.htm)
IUCLID Data-Set (http://esis.jrc.ec.europa.eu/ "ESIS : European chemical Substances Information System")
. *** Data compared to the previous version altered. ***



Health	3
Fire	0
Reactivity	0
Personal Protection	E

Material Safety Data Sheet
Pentachlorophenol MSDS

Section 1: Chemical Product and Company Identification

Product Name: Pentachlorophenol

Catalog Codes: SLP3943, SLP1126

CAS#: 87-86-5

RTECS: SM6300000

TSCA: TSCA 8(b) inventory: Pentachlorophenol

CI#: Not available.

Synonym:

Chemical Name: Not available.

Chemical Formula: C6Cl5OH

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call:
1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Pentachlorophenol	87-86-5	100

Toxicological Data on Ingredients: Pentachlorophenol: ORAL (LD50): Acute: 27 mg/kg [Rat]. 117 mg/kg [Mouse]. VAPOR (LC50): Acute: 502 ppm 4 hour(s) [Rat].

Section 3: Hazards Identification

Potential Acute Health Effects:
Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion. Hazardous in case of skin contact (permeator), of inhalation. Slightly hazardous in case of skin contact (corrosive, sensitizer). Severe over-exposure can result in death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Potential Chronic Health Effects:
CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to blood, kidneys, lungs, the nervous system, liver, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact:
After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Ingestion:
Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Not applicable.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: Not applicable.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container.

Large Spill:
Use a shovel to put the material into a convenient waste disposal container. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep locked up Keep container dry. Do not ingest. Do not breathe dust. Never add water to this product In case of insufficient ventilation, wear suitable respiratory equipment If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes

Storage:
Keep container tightly closed. Keep in a cool, well-ventilated place. Highly toxic or infectious materials should be stored in a separate locked safety storage cabinet or room.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:
Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
TWA: 0.5 (mg/m3) from ACGIH Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid.

Odor: Pungent. (Strong.)

Taste: Not available.

Molecular Weight: 266.34 g/mole

Color: White.

pH (1% soln/water): Not available.

Boiling Point: Decomposes. (310°C or 590°F)

Melting Point: 188°C (370.4°F)

Critical Temperature: Not available.

Specific Gravity: 1.987 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: 9.2 (Air = 1)

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Very slightly soluble in cold water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Not available.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: No.

Section 11: Toxicological Information

Routes of Entry: Dermal contact. Eye contact. Inhalation. Ingestion.

Toxicity to Animals:
WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 27 mg/kg [Rat]. Acute toxicity of the vapor (LC50): 502 ppm 4 hour(s) [Rat].

Chronic Effects on Humans: The substance is toxic to blood, kidneys, lungs, the nervous system, liver, mucous membranes.

Other Toxic Effects on Humans:
Very hazardous in case of skin contact (irritant), of ingestion. Hazardous in case of skin contact (permeator), of inhalation. Slightly hazardous in case of skin contact (corrosive, sensitizer).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Section 14: Transport Information

DOT Classification: CLASS 6.1: Poisonous material.

Identification: : Chlorophenol, solid : UN2020 PG: III

Special Provisions for Transport: Marine Pollutant

Section 15: Other Regulatory Information

Federal and State Regulations:
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Pentachlorophenol California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Pentachlorophenol Pennsylvania RTK: Pentachlorophenol Massachusetts RTK: Pentachlorophenol TSCA 8(b) inventory: Pentachlorophenol SARA 313 toxic chemical notification and release reporting: Pentachlorophenol

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada):
CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC):
R38- Irritating to skin. R41- Risk of serious damage to eyes. R48/20- Harmful: danger of serious damage to health by prolonged exposure through inhalation. R48/25- Toxic: danger of serious damage to health in case of prolonged exposure if swallowed.

HMIS (U.S.A.):

Health Hazard: 3

Fire Hazard: 0

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 3

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/10/2005 11:12 AM

Last Updated: 05/21/2013 12:00 PM

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