Edward F. Poolos
Director

Jeffery W. Kitchens
Deputy Director

Alabama Department of Environmental Management
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Kay Ivey
Governor

November 3, 2026

Tyran Colvin, Mayor
Utilities Board of the City of Chickasaw
Post Office Box 11307
Chickasaw, AL 36671

RE: Revised Draft Permit
NPDES Permit No. AL0020885
Chickasaw Lagoon
Mobile County, Alabama

Dear Mayor Colvin:

Transmitted herein is a draft of the referenced permit.

We would appreciate your comments on the permit within **30 days** of the date of this letter. Please direct any comments of a technical or administrative nature to the undersigned.

By copy of this letter and the draft permit, we are also requesting comments within the same time frame from EPA.

Please be aware that Parts I.C.1.c and I.C.2.e of your permit require participation in the Department's Alabama Environmental Permitting and Compliance System (AEPACS) for submittal of DMRs and SSOs upon issuance of this permit unless valid justification as to why you cannot participate is submitted in writing. SSO hotline notifications and hard copy Form 415 SSO reports may be used only with the written approval from the Department. AEPACS allows ADEM to electronically validate and acknowledge receipt of the data. This improves the accuracy of reported compliance data and reduces costs to both the regulated community and ADEM. Please note that all AEPACS users can create the electronic DMRs and SSOs; however, only AEPACS users with certifier permissions will be able to submit the electronic DMRs and SSOs to ADEM.

Please also be aware that Part IV. of your permit requires that you develop, implement, and maintain a Sanitary Sewer Overflow Response Plan.

The Alabama Department of Environmental Management encourages you to voluntarily consider pollution prevention practices and alternatives at your facility. Pollution Prevention may assist you in complying with effluent limitations, and possibly reduce or eliminate monitoring requirements.

If you have questions regarding this permit or monitoring requirements, please contact Stephanie Ammons at sammons@adem.alabama.gov or (334) 274-4151.

Sincerely,

Stephanie Ammons

Stephanie Ammons
Municipal Section
Water Division

Enclosure

cc: Environmental Protection Agency Email
U.S. Fish and Wildlife Service
Alabama Historical Commission
Advisory Council on Historic Preservation
Department of Conservation and Natural Resources

Alabama Department of Environmental Management

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PERMITTEE: UTILITIES BOARD OF THE CITY OF CHICKASAW
POST OFFICE BOX 11307
CHICKASAW, AL 36671

FACILITY LOCATION: CHICKASAW LAGOON (1.5 MGD)
GULF STREET ALLEY
CHICKASAW, ALABAMA
MOBILE COUNTY

PERMIT NUMBER: AL0020885

RECEIVING WATERS: CHICKASAW CREEK

*In accordance with and subject to the provisions of the Federal Water Pollution Control Act, as amended, 33 U.S.C. §§1251-1388 (the "FWPCA"), the Alabama Water Pollution Control Act, as amended, **Code of Alabama 1975**, §§ 22-22-1 to 22-22-14 (the "AWPCA"), the Alabama Environmental Management Act, as amended, **Code of Alabama 1975**, §§22-22A-1 to 22-22A-17, and rules and regulations adopted thereunder, and subject further to the terms and conditions set forth in this permit, the Permittee is hereby authorized to discharge into the above-named receiving waters.*

ISSUANCE DATE:

EFFECTIVE DATE:

EXPIRATION DATE:

Draft

Alabama Department of Environmental Management
Water Division Chief

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PART I: DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

1. DSN 0011: Treated Domestic Wastewater

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from Outfall 001, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq See note (1)	Sample Type	Seasonal See note (2)
Oxygen, Dissolved (DO) (00300) Effluent Gross Value	*****	*****	*****	6.0 Minimum Daily	*****	*****	mg/l	2X Monthly	Grab	Not Seasonal
pH (00400) Effluent Gross Value	*****	*****	*****	6.0 Minimum Daily	*****	9.0 Maximum Daily	S.U.	2X Monthly	Grab	Not Seasonal
Solids, Total Suspended (00530) Effluent Gross Value	1125 Monthly Average	1688 Weekly Average	lbs/day	*****	90.0 Monthly Average	135 Weekly Average	mg/l	2X Monthly	24-Hr Composite	Not Seasonal
Solids, Total Suspended (00530) Raw Sew/Influent	(Report) Monthly Average	(Report) Weekly Average	lbs/day	*****	(Report) Monthly Average	(Report) Weekly Average	mg/l	2X Monthly	24-Hr Composite	Not Seasonal
Nitrogen, Ammonia Total (As N) (00610) Effluent Gross Value	250 Monthly Average	375 Weekly Average	lbs/day	*****	20.0 Monthly Average	30.0 Weekly Average	mg/l	2X Monthly	24-Hr Composite	Not Seasonal
Nitrogen, Kjeldahl Total (As N) (00625) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	lbs/day	*****	(Report) Monthly Average	(Report) Weekly Average	mg/l	Monthly	24-Hr Composite	Not Seasonal
Nitrite Plus Nitrate Total 1 Det. (As N) (00630) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	lbs/day	*****	(Report) Monthly Average	(Report) Weekly Average	mg/l	Monthly	24-Hr Composite	Not Seasonal
Phosphorus, Total (As P) (00665) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	lbs/day	*****	(Report) Monthly Average	(Report) Weekly Average	mg/l	Monthly	24-Hr Composite	Not Seasonal
Copper Total Recoverable (01119) Effluent Gross Value	*****	*****	*****	*****	55.95 Monthly Average	9.85 Maximum Daily	ug/l	Monthly	Grab	Not Seasonal

See Part II.C.1. for Bypass and Part II.C.2. for Upset conditions.

(1) Sample Frequency – See also Part I.B.2

See Permit Requirements for Effluent Toxicity Testing in Part IV.B.

(2) S = Summer (April – October)
W = Winter (November - March)
ECS = E. coli Summer (May - October)
ECW = E. coli Winter (November - April)

(3) See Part IV.C. for Total Residual Chlorine (TRC). Monitoring for TRC is applicable if chlorine is utilized for disinfection purposes. If monitoring is not applicable during the monitoring period, enter "*9" on the monthly DMR.

(4) A measurement of TRC below 0.05 mg/L shall be considered in compliance with the permit limitations above and should be reported as "*B" on the monthly DMR.

DSN 0011 (Continued): Treated Domestic Wastewater

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from Outfall 001, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq See note (1)	Sample Type	Seasonal See note (2)
Enterococci: Group D MF Trans, M-E, EIA (31639) Effluent Gross Value	*****	*****	*****	*****	(Report) Monthly Average	275 Maximum Daily	col/100mL	2X Monthly	Grab	Not Seasonal
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	(Report) Monthly Average	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Daily	Continuous	Not Seasonal
Chlorine, Total Residual (50060) See notes (3, 4) Effluent Gross Value	*****	*****	*****	*****	(Report) Monthly Average	0.026 Maximum Daily	mg/l	2X Monthly	Grab	Not Seasonal
BOD, Carbonaceous 05 Day, 20C (80082) Effluent Gross Value	312 Monthly Average	469 Weekly Average	lbs/day	*****	25.0 Monthly Average	37.5 Weekly Average	mg/l	2X Monthly	24-Hr Composite	Not Seasonal
BOD, Carbonaceous 05 Day, 20C (80082) Raw Sew/Influent	(Report) Monthly Average	(Report) Weekly Average	lbs/day	*****	(Report) Monthly Average	(Report) Weekly Average	mg/l	2X Monthly	24-Hr Composite	Not Seasonal
BOD, Carb-5 Day, 20 Deg C, Percent Remvl (80091) Percent Removal	*****	*****	*****	85.0 Monthly Average Minimum	*****	*****	%	Monthly	Calculated	Not Seasonal
Solids, Suspended Percent Removal (81011) Percent Removal	*****	*****	*****	65.0 Monthly Average Minimum	*****	*****	%	Monthly	Calculated	Not Seasonal

See Part II.C.1. for Bypass and Part II.C.2. for Upset conditions.

(1) Sample Frequency – See also Part I.B.2

See Permit Requirements for Effluent Toxicity Testing in Part IV.B.

(2) S = Summer (April – October)
W = Winter (November - March)
ECS = E. coli Summer (May - October)
ECW = E. coli Winter (November - April)

(3) See Part IV.C. for Total Residual Chlorine (TRC). Monitoring for TRC is applicable if chlorine is utilized for disinfection purposes. If monitoring is not applicable during the monitoring period, enter "*9" on the monthly DMR.

(4) A measurement of TRC below 0.05 mg/L shall be considered in compliance with the permit limitations above and should be reported as "*B" on the monthly DMR.

2. DSN 001A: Treated Domestic Wastewater

This is an administrative outfall designation. Outfall 001A is the same physical outfall as Outfall 0011. Discharge from this outfall shall be monitored by the Permittee as specified below:

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq See note (1)	Sample Type	Seasonal See note (2)
Mercury Total Recoverable (71901) See note (3) Effluent Gross Value	*****	*****	*****	*****	(Report) Monthly Average	(Report) Maximum Daily	ug/l	Annually	Grab	Not Seasonal

See Part II.C.1. for Bypass and Part II.C.2. for Upset conditions.

(1) Sample Frequency – See also Part I.B.2

See Permit Requirements for Effluent Toxicity Testing in Part IV.B.

(2) S = Summer (April – October)
W = Winter (November - March)
ECS = E. coli Summer (May - October)
ECW = E. coli Winter (November - April)

(3) Mercury monitoring is required annually using approved methods 1621E/1669 or an alternative method specifically approved by the Department.

3. DSN 001T: Toxicity

This is an administrative outfall designation. Outfall 001T is the same physical outfall as Outfall 0011. Discharge from this outfall shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq See note (1)	Sample Type	Seasonal See note (2)
P/F Statre 7 Day Chr Mysid. Bahia (TGP3E) Effluent Gross Value	*****	*****	*****	*****	*****	0 Single Sample	pass=0;fail=1	See Permit Requirements	24-Hr Composite	Oct
P/F Statre 7 Day Chr Menidia (TGP6B) Effluent Gross Value	*****	*****	*****	*****	*****	0 Single Sample	pass=0;fail=1	See Permit Requirements	24-Hr Composite	Oct

See Part II.C.1. for Bypass and Part II.C.2. for Upset conditions.

(1) Sample Frequency – See also Part I.B.2

See Permit Requirements for Effluent Toxicity Testing in Part IV.B.

(2) S = Summer (April – October)
W = Winter (November - March)
ECS = E. coli Summer (May - October)
ECW = E. coli Winter (November - April)

B. DISCHARGE MONITORING AND RECORD KEEPING REQUIREMENTS

1. Representative Sampling

Sample collection and measurement actions shall be representative of the volume and nature of the monitored discharge and shall be in accordance with the provisions of this permit. The effluent sampling point shall be at the nearest accessible location just prior to discharge and after final treatment, unless otherwise specified in the permit.

2. Measurement Frequency

Measurement frequency requirements found in Provision I.A. shall mean:

a. Seven days per week shall mean daily.

b. Five days per week shall mean any five days of discharge during a calendar weekly period of Sunday through Saturday.

c. Three days per week shall mean any three days of discharge during a calendar week.

d. Two days per week shall mean any two days of discharge during a calendar week

e. One day per week shall mean any day of discharge during a calendar week.

f. Two days per month shall mean any two days of discharge during the month that are no less than seven days apart. However, if discharges occur only during one seven-day period in a month, then two days per month shall mean any two days of discharge during that seven day period.

g. One day per month shall mean any day of discharge during the calendar month.

h. Quarterly shall mean any day of discharge during each calendar quarter.

i. The Permittee may increase the frequency of sampling, listed in Provisions I.B.2.a through I.B.2.h; however, all sampling results are to be reported to the Department.

3. Test Procedures

For the purpose of reporting and compliance, permittees shall use one of the following procedures:

a. For parameters with an EPA established Minimum Level (ML), report the measured value if the analytical result is at or above the ML and report "0" or "*B" for values below the ML. Test procedures for the analysis of pollutants shall conform to 40 CFR Part 136 and guidelines published pursuant to Section 304(h) of the FWPCA, 33 U.S.C. Section 1314(h). If more than one method for analysis of a substance is approved for use, a method having a minimum level lower than the permit limit shall be used. If the minimum level of all methods is higher than the permit limit, the method having the lowest minimum level shall be used and a report of less than the minimum level shall be reported as zero and will constitute compliance, however should EPA approve a method with a lower minimum level during the term of this permit the permittee shall use the newly approved method.

b. For pollutants parameters without an established ML, an interim ML may be utilized. The interim ML shall be calculated as 3.18 times the Method Detection Level (MDL) calculated pursuant to 40 CFR Part 136, Appendix B.

   Permittees may develop an effluent matrix-specific ML, where an effluent matrix prevents attainment of the established ML. However, a matrix specific ML shall be based upon proper laboratory method and technique. Matrix-specific MLs must be approved by the Department, and may be developed by the permittee during permit issuance, reissuance, modification, or during compliance schedule.

   In either case the measured value should be reported if the analytical result is at or above the ML and "0" or "*B" reported for values below the ML.

c. For parameters without an EPA established ML, interim ML, or matrix-specific ML, a report of less than the detection limit shall constitute compliance if the detection limit of all analytical methods is higher than the permit limit. For the purpose of calculating a monthly average, "0" shall be used for values reported less than the detection limit.

   The Minimum Level utilized for procedures a and b above shall be reported on the permittee's DMR. When an EPA approved test procedure for analysis of a pollutant does not exist, the Director shall approve the procedure to be used.

4. **Recording of Results**

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

a. The facility name and location, point source number, date, time and exact place of sampling;

b. The name(s) of person(s) who obtained the samples or measurements;

c. The dates and times the analyses were performed;

d. The name(s) of the person(s) who performed the analyses;

e. The analytical techniques or methods used, including source of method and method number; and

f. The results of all required analyses.

5. Records Retention and Production

a. The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the above reports or the application for this permit, for a period of at least three years from the date of the sample measurement, report or application. This period may be extended by request of the Director at any time. If litigation or other enforcement action, under the AWPCA and/or the FWPCA, is ongoing which involves any of the above records, the records shall be kept until the litigation is resolved. Upon the written request of the Director or his designee, the permittee shall provide the Director with a copy of any record required to be retained by this paragraph. Copies of these records should not be submitted unless requested.

b. All records required to be kept for a period of three years shall be kept at the permitted facility or an alternate location approved by the Department in writing and shall be available for inspection.

6. **Reduction, Suspension or Termination of Monitoring and/or Reporting**

a. The Director may, with respect to any point source identified in Provision I.A. of this permit, authorize the permittee to reduce, suspend or terminate the monitoring and/or reporting required by this permit upon the submission of a written request for such reduction, suspension or termination by the permittee, supported by sufficient data which demonstrates to the satisfaction of the Director that the discharge from such point source will continuously meet the discharge limitations specified in Provision I.A. of this permit.

b. It remains the responsibility of the permittee to comply with the monitoring and reporting requirements of this permit until written authorization to reduce, suspend or terminate such monitoring and/or reporting is received by the permittee from the Director.

7. **Monitoring Equipment and Instrumentation**

All equipment and instrumentation used to determine compliance with the requirements of this permit shall be installed, maintained, and calibrated in accordance with the manufacturer's instructions or, in the absence of manufacturer's instructions, in accordance with accepted practices. At a minimum, flow measurement devices shall be calibrated at least once every 12 months.

C. DISCHARGE REPORTING REQUIREMENTS

1. **Reporting of Monitoring Requirements**

a. The permittee shall conduct the required monitoring in accordance with the following schedule:

(1) **MONITORING REQUIRED MORE FREQUENTLY THAN MONTHLY AND MONTHLY** shall be conducted during the first full month following the effective date of coverage under this permit and every month thereafter.

(2) **QUARTERLY MONITORING** shall be conducted at least once during each calendar quarter. Calendar quarters are the periods of January through March, April through June, July through September, and October through December. The permittee shall conduct the quarterly monitoring during the first complete calendar quarter following the effective date of this permit and is then required to monitor once during each quarter thereafter. Quarterly monitoring should be reported on the last DMR due for the quarter (i.e., March, June, September and December DMRs).

(3) **SEMIANNUAL MONITORING** shall be conducted at least once during the period of January through June and at least once during the period of July through December. The permittee shall conduct the semiannual monitoring during the first complete calendar semiannual period following the effective date of this permit and is then required to monitor once during each semiannual period thereafter. Semiannual monitoring may be done anytime during the semiannual period, unless restricted elsewhere in this permit, but it should be reported on the last DMR due for the month of the semiannual period (i.e., June and December DMRs).

(4) **ANNUAL MONITORING** shall be conducted at least once during the period of January through December. The permittee shall conduct the annual monitoring during the first complete calendar annual period following the effective date of this permit and is then required to monitor once during each annual period thereafter. Annual monitoring may be done anytime during the year, unless restricted elsewhere in this permit, but it should be reported on the December DMR.

b. The permittee shall submit discharge monitoring reports (DMRs) in accordance with the following schedule:

(1) **REPORTS OF MORE FREQUENTLY THAN MONTHLY AND MONTHLY TESTING** shall be submitted on a monthly basis. The first report is due on the 28th day of the month following the month the permit becomes effective. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period, unless otherwise directed by the Department.

(2) **REPORTS OF QUARTERLY TESTING** shall be submitted on a quarterly basis. The first report is due on the 28th day of the month following the first complete calendar quarter the permit becomes effective. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period, unless otherwise directed by the Department.

(3) **REPORTS OF SEMIANNUAL TESTING** shall be submitted on a semiannual basis. The reports are due on the 28th day of JANUARY and the 28th day of JULY. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period, unless otherwise directed by the Department.

(4) **REPORTS OF ANNUAL TESTING** shall be submitted on an annual basis. Unless specified elsewhere in the permit, the first report is due on the 28th day of JANUARY. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period, unless otherwise directed by the Department.

c. Except as allowed by Provision I.C.1.c.(1) or (2), the permittee shall submit all Discharge Monitoring Reports (DMRs) required by Provision I.C.1.b. electronically.

(1) If the permittee is unable to complete the electronic submittal of DMR data due to technical problems originating with the Department's electronic system (this could include entry/submittal issues with an entire set of DMRs or individual parameters), the permittee is not relieved of their obligation to submit DMR data to the Department by the date specified in Provision I.C.1.b., unless otherwise directed by the Department.

If the Department's electronic system is down on the 28th day of the month in which the DMR is due or is down for an extended period of time, as determined by the Department, when a DMR is required to be submitted, the permittee may submit the data in an alternate manner and format acceptable to the Department. Preapproved alternate acceptable methods include faxing, e-mailing, mailing, or hand-delivery of data such that they are received by the required reporting date. Within five calendar days of the Department's electronic system resuming operation, the permittee shall enter the data into the Department's electronic system, unless an alternate timeframe is approved by the Department. A comment should be included on the electronic DMR submittal verifying the original submittal date (date of the fax, copy of dated e-mail, or hand-delivery stamped date), if applicable.

(2) The permittee may submit a request to the Department for a temporary electronic reporting waiver for DMR submittals. The waiver request should include the permit number; permittee name; facility/site name; facility address; name, address, and contact information for the responsible official or duly authorized representative; a detailed statement regarding the basis for requesting such a waiver; and the duration for which the waiver is requested. Approved electronic reporting waivers are not transferrable.

(3) A permittee with an approved electronic reporting waiver for DMRs may submit hard copy DMRs for the period that the approved electronic reporting waiver request is effective. The permittee shall submit the Department-approved DMR forms to the address listed in Provision I.C.1.e.

(4) If a permittee is allowed to submit a hard copy DMR, the DMR must be legible and bear an original signature. Photo and electronic copies of the signature are not acceptable and shall not satisfy the reporting requirements of this permit.

(5) If the permittee, using approved analytical methods as specified in Provision I.B.2, monitors any discharge from a point source for a limited substance identified in Provision I.A. of this permit more frequently than required by this permit, the results of such monitoring shall be included in the calculation and reporting of values on the DMR and the increased frequency shall be indicated on the DMR.

(6) In the event no discharge from a point source identified in Provision I.A. of this permit and described more fully in the permittee's application occurs during a monitoring period, the permittee shall report "No Discharge" for such period on the appropriate DMR.

d. All reports and forms required to be submitted by this permit, the AWPCA and the Department's Rules and Regulations, shall be electronically signed (or, if allowed by the Department, traditionally signed) by a "responsible official" of the permittee as defined in ADEM Administrative Code Rule 335-6-6-.09 or a "duly authorized representative" of such official as defined in ADEM Administrative Code Rule 335-6-6-.09 and shall bear the following 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 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."

e. Discharge Monitoring Reports required by this permit, the AWPCA, and the Department's Rules that are being submitted in hard copy shall be addressed to:

Alabama Department of Environmental Management
Office of Water Services, Water Division
Post Office Box 301463
Montgomery, Alabama 36130-1463

Certified and Registered Mail containing Discharge Monitoring Reports shall be addressed to:

Alabama Department of Environmental Management
Office of Water Services, Water Division
1400 Coliseum Boulevard
Montgomery, Alabama 36110-2400

f. All other correspondence and reports required to be submitted by this permit, the AWPCA, and the Department's Rules shall be addressed to:

Alabama Department of Environmental Management
Municipal Section, Water Division
Post Office Box 301463
Montgomery, Alabama 36130-1463

Certified and Registered Mail shall be addressed to:

Alabama Department of Environmental Management
Municipal Section, Water Division
1400 Coliseum Boulevard
Montgomery, Alabama 36110-2400

g. If this permit is a reissuance, then the permittee shall continue to submit DMRs in accordance with the requirements of their previous permit until such time as DMRs are due as discussed in Part I.C.1.b. above.

2. **Noncompliance Notifications and Reports**

a. The Permittee shall notify the Department if, for any reason, the Permittee's discharge:

(1) Does not comply with any daily minimum or maximum discharge limitation for an effluent characteristic specified in Provision I.A. of this permit which is denoted by an "(X)";

(2) Potentially threatens human health or welfare;

(3) Threatens fish or aquatic life;

(4) Causes an in-stream water quality criterion to be exceeded;

(5) Does not comply with an applicable toxic pollutant effluent standard or prohibition established under Section 307(a) of the FWPCA, 33 U.S.C. Section 1317(a);

(6) Contains a quantity of a hazardous substance that may be harmful to public health or welfare under Section 311(b)(4) of the FWPCA, 33 U.S.C. Section 1321(b)(4);

(7) Exceeds any discharge limitation for an effluent parameter listed in Part I.A. as a result of an unanticipated bypass or upset; or

(8) Is an unpermitted direct or indirect discharge of a pollutant to a water of the state. (Note that unpermitted discharges properly reported to the Department under any other requirement are not required to be reported under this provision.)

The Permittee shall orally or electronically provide notification of any of the above occurrences, describing the circumstances and potential effects, to the Director or Designee within 24-hours after the Permittee becomes aware of the occurrence of such discharge. In addition to the oral or electronic notification, the Permittee shall submit a report to the Director or Designee, as provided in Provision I.C.2.c. or I.C.2.e., no later than five days after becoming aware of the occurrence of such discharge or occurrence.

b. If, for any reason, the Permittee's discharge does not comply with any limitation of this permit, then the Permittee shall submit a written report to the Director or Designee, as provided in Provision I.C.2.c below. This report must be submitted with the next Discharge Monitoring Report required to be submitted by Provision I.C.1 of this permit after becoming aware of the occurrence of such noncompliance.

c. Except for notifications and reports of notifiable SSOs which shall be submitted in accordance with the applicable Provisions of this permit, the Permittee shall submit the reports required under Provisions I.C.2.a. and b. to the Director or Designee on ADEM Form 421, available on the Department's website (http://www.adem.state.al.us/DeptForms/Form421.pdf). The completed Form must document the following information:

(1) A description of the discharge and cause of noncompliance;

(2) The period of noncompliance, including exact dates, times, and duration of the noncompliance. If the noncompliance is not corrected by the due date of the written report, then the Permittee shall provide an estimated date by which the noncompliance will be corrected; and

(3) A description of the steps taken by the Permittee and the steps planned to be taken by the Permittee to reduce or eliminate the noncompliant discharge and to prevent its recurrence.

d. Immediate notification

The Permittee shall provide notification to the Director, the public, the county health department, and any other affected entity such as public water systems, as soon as possible upon becoming aware of any notifiable sanitary sewer overflow. Notification to the Director shall be completed utilizing the Department's web-based electronic environmental SSO reporting system in accordance with Provision I.C.2.e.

e. The Department is utilizing an electronic system for notification and submittal of SSO reports. Except as noted below, the Permittee must submit all SSO reports electronically in the Department's electronic system. If requested, waivers from utilization of the electronic system shall be submitted in accordance with ADEM Admin. Code 335-6-1-.04(6). The Department's electronic reporting system shall be utilized unless a written waiver has been granted. A waiver is not effective until receipt of written approval from the Department. Utilization of verbal notifications and hard copy SSO report submittals is allowed only if approved in writing by the Department. The Permittee shall include in the SSO reports the information requested by ADEM Form 415. In addition, the Permittee shall include the latitude and longitude of the SSO in the report except when the SSO is a result of an extreme weather event (e.g., hurricane). To participate in the electronic system for SSO reports, an account may be created at https://aepacs.adem.alabama.gov/nviro/ncore/external/home. If the electronic system is down (i.e., electronic submittal of SSO data cannot be completed due to technical problems originating with the Department's system), the Permittee is not relieved of its obligation to notify the Department or submit SSO reports to the Department by the required submittal date, and the Permittee shall submit the data in an alternate manner and format acceptable to the Department. Preapproved alternate acceptable methods include verbal reports, reports submitted via the SSO hotline, or reports submitted via fax, e-mail, mail, or hand-delivery such that they are

received by the required reporting date. Within five calendar days of the electronic system resuming operation, the Permittee shall enter the data into the electronic system, unless an alternate timeframe is approved by the Department. For any alternate notification, records of the date, time, notification method, and person submitting the notification should be maintained by the Permittee. If a Permittee is allowed to submit SSO reports via an alternate method, the SSO report must be in a format approved by the Department and must be legible.

f. The Permittee shall maintain a record of all known wastewater discharge points that are not authorized as permitted outfalls, including but not limited to SSOs. The Permittee shall include this record in its **Municipal Water Pollution Prevention (MWPP) Annual Reports**, which shall be submitted to the Department each year by May 31st for the prior calendar year period beginning January 1st and ending December 31st. The MWPP Annual Reports shall contain a list of all known wastewater discharge points that are not authorized as permitted outfalls and any discharges that occur prior to the headworks of the wastewater treatment plant covered by this permit. The Permittee shall also provide in the MWPP Annual Reports a list of any discharges reported during the applicable time period in accordance with Provision I.C.2.a. The Permittee shall include in its MWPP Annual Reports the following information for each known unpermitted discharge that occurred:

(1) The cause of the discharge;

(2) Date, duration and volume of discharge (estimate if unknown);

(3) Description of the source (e.g., manhole, lift station);

(4) Location of the discharge, by latitude and longitude (or other appropriate method as approved by the Department);

(5) The ultimate destination of the flow (e.g., surface waterbody, municipal separate storm sewer to surface waterbody); and

(6) Corrective actions taken and/or planned to eliminate future discharges.

D. OTHER REPORTING AND NOTIFICATION REQUIREMENTS

1. **Anticipated Noncompliance**

The permittee shall give the Director written advance notice of any planned changes or other circumstances regarding a facility which may result in noncompliance with permit requirements.

2. **Termination of Discharge**

The permittee shall notify the Director, in writing, when all discharges from any point source(s) identified in Provision I. A. of this permit have permanently ceased. This notification shall serve as sufficient cause for instituting procedures for modification or termination of the permit.

3. **Updating Information**

a. The permittee shall inform the Director of any change in the permittee's mailing address or telephone number or in the permittee's designation of a facility contact or office having the authority and responsibility to prevent and abate violations of the AWPCA, the Department's Rules and the terms and conditions of this permit, in writing, no later than ten (10) days after such change. Upon request of the Director or his designee, the permittee shall furnish the Director with an update of any information provided in the permit application.

b. If the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information with a written explanation for the mistake and/or omission.

4. **Duty to Provide Information**

The permittee shall furnish to the Director, within a reasonable time, any information which the Director or his designee may request to determine whether cause exists for modifying, revoking and re-issuing, suspending, or terminating this permit, in whole or in part, or to determine compliance with this permit.

E. SCHEDULE OF COMPLIANCE

1. Compliance with discharge limits

The permittee shall achieve compliance with the discharge limitations specified in Provision I. A. in accordance with the following schedule:

COMPLIANCE SHALL BE ATTAINED ON THE EFFECTIVE DATE OF THIS PERMIT

2. Schedule

No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

PART II: OTHER REQUIREMENTS, RESPONSIBILITIES, AND DUTIES

A. OPERATIONAL AND MANAGEMENT REQUIREMENTS

1. **Facilities Operation and Maintenance**

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities only when necessary to achieve compliance with the conditions of the permit.

2. **Best Management Practices**

a. Dilution water shall not be added to achieve compliance with discharge limitations except when the Director or his designee has granted prior written authorization for dilution to meet water quality requirements.

b. The permittee shall prepare, implement, and maintain a Spill Prevention, Control and Countermeasures (SPCC) Plan in accordance with 40 C.F.R. Section 112 if required thereby.

c. The permittee shall prepare, submit for approval and implement a Best Management Practices (BMP) Plan for containment of any or all process liquids or solids, in a manner such that these materials do not present a significant potential for discharge, if so required by the Director or his designee. When submitted and approved, the BMP Plan shall become a part of this permit and all requirements of the BMP Plan shall become requirements of this permit.

3. **Certified Operator**

The permittee shall not operate any wastewater treatment plant unless the competency of the operator to operate such plant has been duly certified by the Director pursuant to AWPCA, and meets the requirements specified in ADEM Administrative Code, Rule 335-10-1.

B. OTHER RESPONSIBILITIES

1. **Duty to Mitigate Adverse Impacts**

The permittee shall promptly take all reasonable steps to mitigate and minimize or prevent any adverse impact on human health or the environment resulting from noncompliance with any discharge limitation specified in Provision I. A. of this permit, including such accelerated or additional monitoring of the discharge and/or the receiving waterbody as necessary to determine the nature and impact of the noncomplying discharge.

2. **Right of Entry and Inspection**

a. The permittee shall allow the Director, or an authorized representative, upon the presentation of proper credentials and other documents as may be required by law to:

(1) Enter upon the permittee's premises where a regulated facility or activity or point source is located or conducted, or where records must be kept under the conditions of the permit;

(2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permits;

(3) Inspect any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under the permit; and

(4) Sample or monitor, for the purposes of assuring permit compliance or as otherwise authorized by the AWPCA, any substances or parameters at any location.

C. BYPASS AND UPSET

1. **Bypass**

a. Any bypass is prohibited except as provided in b. and c. below:

b. A bypass is not prohibited if:

(1) It does not cause any discharge limitation specified in Provision I. A. of this permit to be exceeded;

(2) It enters the same receiving stream as the permitted outfall; and

(3) It is necessary for essential maintenance of a treatment or control facility or system to assure efficient operation of such facility or system.

c. A bypass is not prohibited and need not meet the discharge limitations specified in Provision I. A. of this permit if:

(1) It is unavoidable to prevent loss of life, personal injury, or severe property damage;

(2) There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime (this condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance); and

(3) The permittee submits a written request for authorization to bypass to the Director at least ten (10) days prior to the anticipated bypass (if possible), the permittee is granted such authorization, and the permittee complies with any conditions imposed by the Director to minimize any adverse impact on human health or the environment resulting from the bypass.

d. The permittee has the burden of establishing that each of the conditions of Provision II. C. 1. b. or c. have been met to qualify for an exception to the general prohibition against bypassing contained in a. and an exemption, where applicable, from the discharge limitations specified in Provision I. A. of this permit.

2. **Upset**

a. A discharge which results from an upset need not meet the discharge limitations specified in Provision I. A. of this permit if:

(1) No later than 24-hours after becoming aware of the occurrence of the upset, the Permittee orally reports the occurrence and circumstances of the upset to the Director or his designee; and

(2) No later than five (5) days after becoming aware of the occurrence of the upset, the Permittee furnishes the Director with evidence, including properly signed, contemporaneous operating logs, or other relevant evidence, demonstrating that:

(i) An upset occurred;

(ii) The Permittee can identify the specific cause(s) of the upset;

(iii) The Permittee's facility was being properly operated at the time of the upset; and

(iv) The Permittee promptly took all reasonable steps to minimize any adverse impact on human health or the environment resulting from the upset.

b. The permittee has the burden of establishing that each of the conditions of Provision II. C. 2. a. of this permit have been met to qualify for an exemption from the discharge limitations specified in Provision I. A. of this permit.

D. DUTY TO COMPLY WITH PERMIT, RULES, AND STATUTES

1. **Duty to Comply**

a. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the AWPCA and the FWPCA and is grounds for enforcement action, permit termination, revocation and reissuance, suspension, modification, or denial of a permit renewal application.

b. The necessity to halt or reduce production or other activities in order to maintain compliance with the conditions of the permit shall not be a defense for a permittee in an enforcement action.

c. The discharge of a pollutant from a source not specifically identified in the permit application for this permit and not specifically included in the description of an outfall in this permit is not authorized and shall constitute noncompliance with this permit.

d. The permittee shall take all reasonable steps, including cessation of production or other activities, to minimize or prevent any violation of this permit or to minimize or prevent any adverse impact of any permit violation.

e. Nothing in this permit shall be construed to preclude or negate the Permittee's responsibility to apply for, obtain, or comply with other Federal, State, or Local Government permits, certifications,or licenses or to preclude from obtaining other federal, state, or local approvals, including those applicable to other ADEM programs and regulations.

2. **Removed Substances**

Solids, sludges, filter backwash, or any other pollutant or other waste removed in the course of treatment or control of wastewaters shall be disposed of in a manner that complies with all applicable Department Rules.

3. **Loss or Failure of Treatment Facilities**

Upon the loss or failure of any treatment facilities, including but not limited to the loss or failure of the primary source of power of the treatment facility, the permittee shall, where necessary to maintain compliance with the discharge limitations specified in Provision I. A. of this permit, or any other terms or conditions of this permit, cease, reduce, or otherwise control production and/or all discharges until treatment is restored. If control of discharge during loss or failure of the primary source of power is to be accomplished by means of alternate power sources, standby generators, or retention of inadequately treated effluent, the permittee must furnish to the Director within six months a certification that such control mechanisms have been installed.

4. **Compliance with Statutes and Rules**

a. This permit has been issued under ADEM Administrative Code, Chapter 335-6-6. All provisions of this chapter, that are applicable to this permit, are hereby made a part of this permit. A copy of this chapter may be obtained for a small charge from the Office of General Counsel, Alabama Department of Environmental Management, 1400 Coliseum Boulevard Montgomery, Alabama 36110-2059.

b. This permit does not authorize the noncompliance with or violation of any Laws of the State of Alabama or the United States of America or any regulations or rules implementing such laws. FWPCA, 33 U.S.C. Section 1319, and Code of Alabama 1975, Section 22-22-14.

E. PERMIT TRANSFER, MODIFICATION, SUSPENSION, REVOCATION, AND REISSUANCE

1. **Duty to Reapply or Notify of Intent to Cease Discharge**

a. If the permittee intends to continue to discharge beyond the expiration date of this permit, the permittee shall file a complete permit application for reissuance of this permit at least 180 days prior to its expiration. If the permittee does not intend to continue discharge beyond the expiration of this permit, the permittee shall submit written notification of this intent which shall be signed by an individual meeting the signatory requirements for a permit application as set forth in ADEM Administrative Code Rule 335-6-6-.09.

b. Failure of the permittee to apply for reissuance at least 180 days prior to permit expiration will void the automatic continuation of the expiring permit provided by ADEM Administrative Code Rule 335-6-6-.06 and should the permit not be reissued for any reason any discharge after expiration of this permit will be an unpermitted discharge.

2. **Change in Discharge**

Prior to any facility expansion, process modification or any significant change in the method of operation of the permittee's treatment works, the permittee shall provide the Director with information concerning the planned expansion, modification or change. The permittee shall apply for a permit modification at least 180 days prior to any facility expansion, process modification, significant change in the method of operation of the permittee's treatment works, or other actions that could result in the discharge of additional pollutants or increase the quantity of a discharged pollutant or could result in an additional discharge point. This condition applies to pollutants that are or that are not subject to discharge limitations in this permit. No new or increased discharge may begin until the Director has authorized it by issuance of a permit modification or a reissued permit.

3. **Transfer of Permit**

This permit may not be transferred or the name of the permittee changed without notice to the Director and subsequent modification or revocation and reissuance of the permit to identify the new permittee and to incorporate any other changes as may be required under the FWPCA or AWPCA. In the case of a change in name, ownership or control of the permittee's premises only, a request for permit modification in a format acceptable to the Director is required at least 30 days prior to the change. In the case of a change in name, ownership, or control of the permittee's premises accompanied by a change or proposed change in effluent characteristics, a complete permit application is required to

be submitted to the Director at least 180 days prior to the change. Whenever the Director is notified of a change in name, ownership, or control, he may decide not to modify the existing permit and require the submission of a new permit application.

4. **Permit Modification and Revocation**

a. This permit may be modified or revoked and reissued, in whole or in part, during its term for cause, including but not limited to, the following:

(1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to revoke and reissue this permit instead of terminating the permit;

(2) If a request to transfer this permit has been received, the Director may decide to revoke and reissue or to modify the permit; or

(3) If modification or revocation and reissuance is requested by the permittee and cause exists, the Director may grant the request.

b. This permit may be modified during its term for cause, including but not limited to, the following:

(1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to modify this permit instead of terminating this permit;

(2) There are material and substantial alterations or additions to the facility or activity generating wastewater which occurred after permit issuance which justify the application of permit conditions that are different or absent in the existing permit;

(3) The Director has received new information that was not available at the time of permit issuance and that would have justified the application of different permit conditions at the time of issuance;

(4) A new or revised requirement(s) of any applicable standard or limitation is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA;

(5) Errors in calculation of discharge limitations or typographical or clerical errors were made;

(6) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, when the standards or regulations on which the permit was based have been changed by promulgation of amended standards or regulations or by judicial decision after the permit was issued;

(7) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, permits may be modified to change compliance schedules;

(8) To agree with a granted variance under 30l(c), 30l(g), 30l(h), 30l(k), or 3l6(a) of the FWPCA or for fundamentally different factors;

(9) To incorporate an applicable 307(a) FWPCA toxic effluent standard or prohibition;

(10) When required by the reopener conditions in this permit;

(11) When required under 40 CFR 403.8(e) (compliance schedule for development of pretreatment program);

(12) Upon failure of the state to notify, as required by Section 402(b)(3) of the FWPCA, another state whose waters may be affected by a discharge permitted by this permit;

(13) When required to correct technical mistakes, such as errors in calculation, or mistaken interpretations of law made in determining permit conditions; or

(14) When requested by the permittee and the Director determines that the modification has cause and will not result in a violation of federal or state law, regulations or rules; or

5. **Termination**

This permit may be terminated during its term for cause, including but not limited to, the following:

a. Violation of any term or condition of this permit;

b. The permittee's misrepresentation or failure to disclose fully all relevant facts in the permit application or during the permit issuance process or the permittee's misrepresentation of any relevant facts at any time;

c. Materially false or inaccurate statements or information in the permit application or the permit;

d. A change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge;

e. The permittee's discharge threatens human life or welfare or the maintenance of water quality standards;

f. Permanent closure of the facility generating the wastewater permitted to be discharged by this permit or permanent cessation of wastewater discharge;

g. New or revised requirements of any applicable standard or limitation that is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA that the Director determines cannot be complied with by the permittee.

h. Any other cause allowed by the ADEM Administrative Code, Chapter 335-6-6.

6. **Suspension**

This permit may be suspended during its term for noncompliance until the permittee has taken action(s) necessary to achieve compliance.

7. **Stay**

The filing of a request by the permittee for modification, suspension, or revocation of this permit, in whole or in part, does not stay any permit term or condition.

F. COMPLIANCE WITH TOXIC POLLUTANT STANDARD OR PROHIBITION

If any applicable effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the FWPCA, 33 U.S.C. Section 1317(a), for a toxic pollutant discharged by the permittee and such standard or prohibition is more stringent than any discharge limitation on the pollutant specified in Provision I. A. of this permit, or controls a pollutant not limited in Provision I. A. of this permit, this permit shall be modified to conform to the toxic pollutant effluent standard or prohibition and the permittee shall be notified of such modification. If this permit has not been modified to conform to the toxic pollutant effluent standard or prohibition before the effective date of such standard or prohibition, the permittee shall attain compliance with the requirements of the standard or prohibition within the time period required by the standard or prohibition and shall continue to comply with the standard or prohibition until this permit is modified or reissued.

G. NOTICE TO DIRECTOR OF INDUSTRIAL USERS

1. The permittee shall not allow the introduction of wastewater, other than domestic wastewater, from a new indirect discharger prior to approval and permitting, if applicable, of the discharge by the Department.

2. The permittee shall not allow an existing indirect discharger to increase the quantity or change the character of its wastewater, other than domestic wastewater, prior to approval and permitting, if applicable, of the increased discharge by the Department.

3. The permittee shall report to the Department any adverse impact caused or believed to be caused by an indirect discharger on the treatment process, quality of discharged water or quality of sludge. Such report shall be submitted within seven days of the permittee becoming aware of the adverse impacts.

H. PROHIBITIONS

The permittee shall not allow, and shall take effective enforcement action to prevent and terminate, the introduction of any of the following into its treatment works by industrial users:

1. Pollutants which may create a fire or explosive hazard, including, but not limited to, waste streams with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40 CFR 261.21;

2. Pollutants which may cause corrosive structural damage to the treatment works, but in no case discharges with a pH lower than 5.0;

3. Solid or viscous pollutants in amounts which may cause obstruction to the flow in sewers, or other interference in the treatment works;

4. Any pollutant, including oxygen demanding pollutants (BOD, etc.) of such volume or strength as to cause interference in the treatment works;

5. Heat in amounts which may inhibit biological activity in the treatment plant resulting in interference but in no case in such quantities that the temperature of the influent, at the treatment plant, exceeds 40 degrees centigrade or 104 degrees Fahrenheit;

6. Pollutants which may result in the presence of toxic gases, vapors, or fumes within the treatment works in a quantity that may cause acute worker health and safety problems;

7. Unless specifically authorized by this permit, any pollutants not generated at the facility for which this permit was issued; or

8. Petroleum oil, biodegradable cutting oil, or products of mineral oil origin in amounts that will cause pass through or interference.

PART III: ADDITIONAL REQUIREMENTS, CONDITIONS, AND LIMITATIONS

A. CIVIL AND CRIMINAL LIABILITY

1. **Tampering**

   Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained or performed under the permit shall, upon conviction, be subject to penalties as provided by the AWPCA.

2. **False Statements**

   Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be subject to penalties as provided by the AWPCA.

3. **Permit Enforcement**

   a. Any NPDES permit issued or reissued by the Department is a permit for the purpose of the AWPCA and the FWPCA and as such any terms, conditions, or limitations of the permit are enforceable under state and federal law.

   b. Any person required to have a NPDES permit pursuant to ADEM Administrative Code Chapter 335-6-6 and who discharges pollutants without said permit, who violates the conditions of said permit, who discharges pollutants in a manner not authorized by the permit, or who violates applicable orders of the Department or any applicable rule or standard of the Department, is subject to any one or combination of the following enforcement actions under applicable state statutes:

      (1) An administrative order requiring abatement, compliance, mitigation, cessation, clean-up, and/or penalties;

      (2) An action for damages;

      (3) An action for injunctive relief; or

      (4) An action for penalties.

   c. If the permittee is not in compliance with the conditions of an expiring or expired permit the Director may choose to do any or all of the following provided the permittee has made a timely and complete application for reissuance of the permit:

      (1) Initiate enforcement action based upon the permit which has been continued;

      (2) Issue a notice of intent to deny the permit reissuance. If the permit is denied, the owner or operator would then be required to cease the activities authorized by the continued permit or be subject to enforcement action for operating without a permit;

      (3) Reissue the new permit with appropriate conditions; or

      (4) Take other actions authorized by these rules and AWPCA.

4. **Relief from Liability**

   Except as provided in Provision II. C. 1. (Bypass) and Provision II. C. 2. (Upset), nothing in this permit shall be construed to relieve the permittee of civil or criminal liability under the AWPCA or FWPCA for noncompliance with any term or condition of this permit.

B. OIL AND HAZARDOUS SUBSTANCE LIABILITY

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties to which the permittee is or may be subject under Section 311 of the FWPCA, 33 U.S.C. Section 1321.

C. PROPERTY AND OTHER RIGHTS

This permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to persons or property or invasion of other private rights, or any infringement of federal, state, or local laws or regulations, nor does it authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any waters of the state or of the United States.

D. AVAILABILITY OF REPORTS

Except for data determined to be confidential under Code of Alabama 1975, Section 22-22-9(c), all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department. Effluent data shall not be considered confidential.

E. EXPIRATION OF PERMITS FOR NEW OR INCREASED DISCHARGES

1. If this permit was issued for a new discharger or new source, this permit shall expire eighteen months after the issuance date if construction of the facility has not begun during the eighteen-month period.
2. If this permit was issued or modified to allow the discharge of increased quantities of pollutants to accommodate the modification of an existing facility, and if construction of this modification has not begun during the eighteen month period after issuance of this permit or permit modification, this permit shall be modified to reduce the quantities of pollutants allowed to be discharged to those levels that would have been allowed if the modification of the facility had not been planned.
3. Construction has begun when the owner or operator has:
   a. Begun, or caused to begin as part of a continuous on-site construction program:
      (1) Any placement, assembly, or installation of facilities or equipment; or
      (2) Significant site preparation work including clearing, excavation, or removal of existing buildings, structures, or facilities which are necessary for the placement, assembly, or installation of new source facilities or equipment; or
   b. Entered into a binding contractual obligation for the purpose of placement, assembly, or installation of facilities or equipment which are intended to be used in its operation within a reasonable time. Options to purchase or contracts which can be terminated or modified without substantial loss, and contracts for feasibility, engineering, and design studies do not constitute a contractual obligation under this paragraph.
4. Final plans and specifications for a waste treatment facility at a new source or new discharger, or a modification to an existing waste treatment facility must be submitted to and examined by the Department prior to initiating construction of such treatment facility by the permittee.
5. Upon completion of construction of waste treatment facilities and prior to operation of such facilities, the permittee shall submit to the Department a certification from a registered professional engineer, licensed to practice in the State of Alabama, that the treatment facilities have been built according to plans and specifications submitted to and examined by the Department.

F. COMPLIANCE WITH WATER QUALITY STANDARDS

1. On the basis of the permittee's application, plans, or other available information, the Department has determined that compliance with the terms and conditions of this permit should assure compliance with the applicable water quality standards.
2. Compliance with permit terms and conditions notwithstanding, if the permittee's discharge(s) from point sources identified in Provision I. A. of this permit cause or contribute to a condition in contravention of state water quality standards, the Department may require abatement action to be taken by the permittee in emergency situations or modify the permit pursuant to the Department's Rules, or both.
3. If the Department determines, on the basis of a notice provided pursuant to this permit or any investigation, inspection or sampling, that a modification of this permit is necessary to assure maintenance of water quality standards or compliance with other provisions of the AWPCA or FWPCA, the Department may require such modification and, in cases of emergency, the Director may prohibit the discharge until the permit has been modified.

G. GROUNDWATER

Unless specifically authorized under this permit, this permit does not authorize the discharge of pollutants to groundwater. Should a threat of groundwater contamination occur, the Director may require groundwater monitoring to properly assess the degree of the problem, and the Director may require that the permittee undertake measures to abate any such discharge and/or contamination.

H. DEFINITIONS

1. **Average monthly discharge limitation** - means the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month (zero discharge days shall not be included in the number of "daily discharges" measured and a less than detectable test result shall be treated as a concentration of zero if the most sensitive EPA approved method was used).
2. **Average weekly discharge limitation** - means the highest allowable average of "daily discharges" over a calendar week, calculated as the sum of all "daily discharges" measured during a calendar week divided by the number of "daily discharges" measured during that week (zero discharge days shall not be included in the number of "daily discharges" measured and a less than detectable test result shall be treated as a concentration of zero if the most sensitive EPA approved method was used).
3. **Arithmetic Mean** – means the summation of the individual values of any set of values divided by the number of individual values.
4. **AWPCA** - means the Alabama Water Pollution Control Act.
5. **BOD** – means the five-day measure of the pollutant parameter biochemical oxygen demand.
6. **Bypass** - means the intentional diversion of waste streams from any portion of a treatment facility.
7. **CBOD** – means the five-day measure of the pollutant parameter carbonaceous biochemical oxygen demand.
8. **Daily discharge** - means the discharge of a pollutant measured during any consecutive 24-hour period in accordance with the sample type and analytical methodology specified by the discharge permit.
9. **Daily maximum** - means the highest value of any individual sample result obtained during a day.
10. **Daily minimum** - means the lowest value of any individual sample result obtained during a day.
11. **Day** - means any consecutive 24-hour period.
12. **Department** - means the Alabama Department of Environmental Management.
13. **Director** - means the Director of the Department.
14. **Discharge** - means "[t]he addition, introduction, leaking, spilling or emitting of any sewage, industrial waste, pollutant or other waste into waters of the state". Code of Alabama 1975, Section 22-22-1(b)(9).
15. **Discharge Monitoring Report (DMR)** - means the form approved by the Director to accomplish reporting requirements of an NPDES permit.
16. **DO** – means dissolved oxygen.
17. **8HC** – means 8-hour composite sample, including any of the following:
    a. The mixing of at least 8 equal volume samples collected at constant time intervals of not more than 1 hour over a period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.
    b. A sample continuously collected at a constant rate over period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.
18. **EPA** - means the United States Environmental Protection Agency.
19. **FC** – means the pollutant parameter fecal coliform.
20. **Flow** – means the total volume of discharge in a 24-hour period.
21. **FWPCA** - means the Federal Water Pollution Control Act.
22. **Geometric Mean** – means the Nth root of the product of the individual values of any set of values where N is equal to the number of individual values. The geometric mean is equivalent to the antilog of the arithmetic mean of the logarithms of the individual values. For purposes of calculating the geometric mean, values of zero (0) shall be considered one (1).

23. **Grab Sample** – means a single influent or effluent portion which is not a composite sample. The sample(s) shall be collected at the period(s) most representative of the discharge.

24. **Indirect Discharger** – means a nondomestic discharger who discharges pollutants to a publicly owned treatment works or a privately owned treatment facility operated by another person.

25. **Industrial User** – means those industries identified in the Standard Industrial Classification manual, Bureau of the Budget 1967, as amended and supplemented, under the category "Division D – Manufacturing" and such other classes of significant waste producers as, by regulation, the Director deems appropriate.

26. **MGD** – means million gallons per day.

27. **Monthly Average** – means the arithmetic mean of all the composite or grab samples taken for the daily discharges collected in one month period. The monthly average for flow is the arithmetic mean of all flow measurements taken in a one month period.

28. **New Discharger** – means a person, owning or operating any building, structure, facility, or installation:

    a) From which there is or may be a discharge of pollutants;

    b) That did not commence the discharge of pollutants prior to August 13, 1979, and which is not a new source; and

    c) Which has never received a final effective NPDES permit for dischargers at that site.

29. **NH3-N** – means the pollutant parameter ammonia, measured as nitrogen.

30. **Notifiable sanitary sewer overflow** - means an overflow, spill, release or diversion of wastewater from a sanitary sewer system that:

    a) Reaches a surface water of the State; or

    b) May imminently and substantially endanger human health based on potential for public exposure including but not limited to close proximity to public or private water supply wells or in areas where human contact would be likely to occur.

31. **Permit application** - means forms and additional information that is required by ADEM Administrative Code Rule 335-6-6-.08 and applicable permit fees.

32. **Point source** - means "any discernible, confined and discrete conveyance, including but not limited to any pipe, channel, ditch, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, . . . from which pollutants are or may be discharged." Section 502(14) of the FWPCA, 33 U.S.C. Section 1362(14).

33. **Pollutant** - includes for purposes of this permit, but is not limited to, those pollutants specified in Code of Alabama 1975, Section 22-22-1(b)(3) and those effluent characteristics specified in Provision I. A. of this permit.

34. **Privately Owned Treatment Works** – means any devices or system which is used to treat wastes from any facility whose operator is not the operator of the treatment works, and which is not a "POTW".

35. **Publicly Owned Treatment Works (POTW)** – means a wastewater collection and treatment facility owned by the State, municipality, regional entity composed of two or more municipalities, or another entity created by the State or local authority for the purpose of collecting and treating municipal wastewater.

36. **Receiving Stream** – means the "waters" receiving a "discharge" from a "point source".

37. **Severe property damage** - means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

38. **Significant Source** – means a source which discharges 0.025 MGD or more to a POTW or greater than five percent of the treatment work's capacity, or a source which is a primary industry as defined by the U.S. EPA or which discharges a priority or toxic pollutant.

39. **TKN** – means the pollutant parameter Total Kjeldahl Nitrogen.

40. **TON** – means the pollutant parameter Total Organic Nitrogen.

41. **TRC** – means Total Residual Chlorine.

42. **TSS** – means the pollutant parameter Total Suspended Solids.

43. **24HC** – means 24-hour composite sample, including any of the following:

    a) The mixing of at least 8 equal volume samples collected at constant time intervals of not more than 2 hours over a period of 24 hours;

    b) A sample collected over a consecutive 24-hour period using an automatic sampler composite to one sample. As a minimum, samples shall be collected hourly and each shall be no more than one twenty-fourth (1/24) of the total sample volume collected;

    c) A sample collected over a consecutive 24-hour period using an automatic composite sampler composited proportional to flow.

44. **Upset** - means an exceptional incident in which there is an unintentional and temporary noncompliance with technology-based permit discharge limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

45. **Waters** - means "[a]ll waters of any river, stream, watercourse, pond, lake, coastal, ground or surface water, wholly or partially within the state, natural or artificial. This does not include waters which are entirely confined and retained completely upon the property of a single individual, partnership or corporation unless such waters are used in interstate commerce." Code of Alabama 1975, Section 22-22-1(b)(2). Waters "include all navigable waters" as defined in Section 502(7) of the FWPCA, 22 U.S.C. Section 1362(7), which are within the State of Alabama.

46. **Week** - means the period beginning at twelve midnight Saturday and ending at twelve midnight the following Saturday.

47. **Weekly (7-day and calendar week) Average** – is the arithmetic mean of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. The calendar week is defined as beginning on Sunday and ending on Saturday. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for the calendar week shall be included in the data for the month that contains the Saturday.

I. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

PART IV: SPECIFIC REQUIREMENTS, CONDITIONS, AND LIMITATIONS

A. SLUDGE MANAGEMENT PRACTICES

1. Applicability

a. Provisions of Provision IV.A. apply to a sewage sludge generated or treated in treatment works that is applied to agricultural and non-agricultural land, or that is otherwise distributed, marketed, incinerated, or disposed in landfills or surface disposal sites.

b. Provisions of Provision IV.A. do not apply to:

(1) Sewage sludge generated or treated in a privately owned treatment works operated in conjunction with industrial manufacturing and processing facilities and which receive no domestic wastewater.

(2) Sewage sludge that is stored in surface impoundments located at the treatment works prior to ultimate disposal.

2. Submitting Information

a. If applicable, the Permittee must submit annually with its Municipal Water Pollution Prevention (MWPP) report the following:

(1) Type of sludge stabilization/digestion method;

(2) Daily or annual sludge production (dry weight basis);

(3) Ultimate sludge disposal practice(s).

b. The Permittee shall provide sludge inventory data to the Director as requested. These data may include, but are not limited to, sludge quantity and quality reported in Provision IV.A.2.a as well as other specific analyses required to comply with State and Federal laws regarding solid and hazardous waste disposal.

c. The Permittee shall give prior notice to the Director of at least 30 days of any change planned in the Permittee's sludge disposal practices.

3. Reopener or Modification

a. Upon review of information provided by the Permittee as required by Provision IV.A.2. or, based on the results of an on-site inspection, the permit shall be subject to modification to incorporate appropriate requirements.

b. If an applicable "acceptable management practice" or if a numerical limitation for a pollutant in sewage sludge promulgated under Section 405 of FWPCA is more stringent than the sludge pollutant limit or acceptable management practice in this permit. This permit shall be modified or revoked or reissued to conform to requirements promulgated under Section 405. The Permittee shall comply with the limitations no later than the compliance deadline specified in applicable regulations as required by Section 405 of FWPCA.

B. EFFLUENT TOXICITY LIMITATIONS AND BIOMONITORING REQUIREMENTS FOR CHRONIC TOXICITY

1. Chronic Toxicity Test

a. The permittee shall perform short-term chronic toxicity tests on the wastewater at Outfall 0011.

b. The samples shall be diluted using appropriate control water to the Instream Waste Concentration (IWC) which is **6 percent** effluent. The IWC is the actual concentration of effluent at the edge of the mixing zone based on the most recent Mixing Zone Analysis.

c. Any test result that shows a statistically significant reduction in survival, growth, or reproduction between the control and test samples at the 95% confidence level indicates chronic toxicity and shall constitute noncompliance with this permit.

2. General Test Requirements

a. A minimum of three (3) 24-hour composite samples shall be obtained for use in the above biomonitoring tests. Samples shall be collected every other day so that the laboratory receives water samples on the first, third, and fifth day of the seven-day test period. The holding time for each composite sample shall not exceed 36 hours. The control water shall be a water prepared in the laboratory in accordance with the EPA procedure described in EPA

821-R-02-014 (most current edition) or another control water selected by the Permittee and approved by the Department.

b. Test results shall be deemed unacceptable and the Permittee shall rerun the tests as soon as practical within the monitoring period for the following:

(1) For testing with *Menidia beryllina* (inland silverside): effluent toxicity tests with control survival of less than 80%, or the mean dry weight per surviving larvae is less than 0.50 mg;

(2) For testing with *Mysidopsis bahia* (mysid):, effluent toxicity tests with control survival of less than 80%, or if the mean dry weight of survivors is less than 0.20 mg; or

(3) If the other requirements of the EPA Test Procedure are not met.

c. In the event of an invalid test, upon subsequent completion of a valid test, the results of all tests, valid and invalid, are to be reported to the Department along with an explanation of the tests performed and the test results.

d. Toxicity tests shall be conducted for the duration of this permit in the month of **October**. Should results from the Annual Toxicity test indicate that Outfall 0011 exhibits chronic toxicity, then the Permittee must conduct the follow-up testing described in Part IV.C.4.a. In addition, the Permittee may also be required to conduct toxicity testing in the months of JANUARY, APRIL, JULY, and OCTOBER.

3. Reporting Requirements

a. The Permittee shall notify the Department in writing within 48 hours after toxicity has been demonstrated by the scheduled test(s).

b. Biomonitoring test results obtained during each monitoring period shall be summarized and reported using the appropriate Discharge Monitoring Report (DMR) form approved by the Department. In accordance with Section 2 of this part, an effluent toxicity report containing the information in Sections 2 and 6 shall be included with the DMR. Two copies of the test results must be submitted to the Department no later than 28 days after the month that tests were performed.

4. Additional Testing Requirements

a. If chronic toxicity is indicated (i.e., noncompliance with permit limit), then the Permittee must perform two additional valid chronic toxicity tests in accordance with these procedures to determine the extent and duration of the toxic condition. The toxicity tests shall run consecutively beginning on the first calendar week following the date that the Permittee became aware of the permit noncompliance. The results of these follow-up tests shall be submitted to the Department no later than 28 days following the month the tests were performed.

b. After evaluation of the results of the follow-up tests, the Department will determine if additional action is appropriate and may require additional testing and/or toxicity reduction measures. The permittee may be required to perform a Toxicity Identification Evaluation (TIE) and/or a Toxicity Reduction Evaluation (TRE). The TIE/TRE shall be performed in accordance with the most recent protocols and guidance outlined by EPA (e.g., EPA/600/2-88/062, EPA/600/R-92/080, EPA/600/R-91-003, EPA/600/R-92/081, EPA/833/B-99/022, and/or EPA/600/6-91/005F).

5. Test Methods

The tests shall be performed in accordance with the latest edition of the "EPA Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms." The Larval Survival and Growth Test, Method 1006.0, described in Section 13, shall be used for the *Menidia beryllina* (inland silverside) test,and the Survival, Growth, and Fecundity Test Method 1007.0, described in Section 14, shall be used for the *Mysidopsis bahia* (mysid) test.

6. Effluent Toxicity Testing Reports

The following information shall be submitted with each DMR unless otherwise directed by the Department. The Department may at any times suspend or reinstate this requirement or may decrease or increase the frequency of submittals.

a. Introduction

(1) Facility name, location and county

(2) Permit number

(3) Toxicity testing requirements of permit

(4) Name of receiving water body

(5) Contract laboratory information (if tests are performed under contract)

(i) Name of firm

(ii) Telephone number

(iii) Address

(6) Objective of test

b. Plant Operations

(1) Discharge Operating schedule (if other than continuous)

(2) Volume of discharge during sample collection to include Mean daily discharge on sample collection dates (MGD, CFS, GPM)

(3) Design flow of treatment facility at time of sampling

c. Source of Effluent and Dilution Water

(1) Effluent samples

(i) Sampling point

(ii) Sample collection dates and times (to include composite sample start and finish times)

(iii) Sample collection method

(iv) Physical and chemical data of undiluted effluent samples (water temperature, pH, alkalinity, hardness, specific conductance, total residual chlorine (if applicable), etc.)

(v) Lapsed time from sample collection to delivery

(vi) Lapsed time from sample collection to test initiation

(vii) Sample temperature when received at the laboratory

(2) Dilution Water

(i) Source

(ii) Collection/preparation date(s) and time(s)

(iii) Pretreatment (if applicable)

(iv) Physical and chemical characteristics (water temperature, pH, alkalinity, hardness, specific conductance, etc.)

d. Test Conditions

(1) Toxicity test method utilized

(2) End point(s) of test

(3) Deviations from referenced method, if any, and reason(s)

(4) Date and time test started

(5) Date and time test terminated

(6) Type and volume of test chambers

(7) Volume of solution per chamber

(8) Number of organisms per test chamber

(9) Number of replicate test chambers per treatment

(10) Test temperature, pH, and dissolved oxygen as recommended by the method (to include ranges)

(11) Specify if aeration was needed

(12) Feeding frequency, amount, and type of food

(13) Specify if (and how) pH control measures were implemented

(14) Light intensity (mean)

e. Test Organisms

(1) Scientific name

(2) Life stage and age

(3) Source

(4) Disease(s) treatment (if applicable)

f. Quality Assurance

(1) Reference toxicant utilized and source

(2) Date and time of most recent chronic reference toxicant test(s), raw data, and current control chart(s). (The most recent chronic reference toxicant test shall be conducted within 30 days of the routine.)

(3) Dilution water utilized in reference toxicant test

(4) Results of reference toxicant test(s) (NOEC, IC25, etc.); report concentration-response relationship and evaluate test sensitivity

(5) Physical and chemical methods utilized

g. Results

(1) Provide raw toxicity data in tabular form, including daily records of affected organisms in each concentration (including controls) and replicate

(2) Provide table of endpoints: NOECs, IC25s, PASS/FAIL, etc. (as required in the applicable NPDES permit)

(3) Indicate statistical methods used to calculate endpoints

(4) Provide all physical and chemical data required by method

(5) Results of test(s) (NOEC, IC25, PASS/FAIL, etc.), report concentration-response relationship (definitive test only), report percent minimum significant difference (PMSD) calculated for sublethal endpoints determined by hypothesis testing.

h. Conclusions and Recommendations

(1) Relationship between test endpoints and permit limits

(2) Actions to be taken

Adapted from "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms", Fourth Edition, October 2002 (EPA 821-R-02-013), Section 10, Report Preparation.

C. TOTAL RESIDUAL CHLORINE (TRC) REQUIREMENTS

1. If chlorine is not utilized for disinfection purposes, TRC monitoring under Part I of this Permit is not required. If TRC monitoring is not required (conditional monitoring), "*9" should be reported on the DMR forms.

2. Testing for TRC shall be conducted according to either the amperometric titration method or the DPD colorimetric method as specified in Section 408(C) or (E), Standards Methods for the Examination of Water and Wastewater, 18th edition. If the analytical result is less than the detection level or a value otherwise indicated in this permit, the Permittee shall report on the DMR form "*B" or "0". The Permittee shall then be considered to be in compliance with the daily maximum concentration limit for TRC.

3. This permit contains a maximum allowable TRC level in the effluent. The Permittee is responsible for determining the minimum TRC level needed in the chlorine contact chamber to comply with E.coli limits. The effluent shall be dechlorinated if necessary to meet the maximum allowable effluent TRC level.

4. The sample collection point for effluent TRC shall be at a point downstream of the chlorine contact chamber (downstream of dechlorination, if applicable). The exact location is to be approved by the Director.

D. PLANT CLASSIFICATION

The Permittee shall report to the Director within 30 days of the effective date of this permit, the name, address and operator number of the certified wastewater operator in responsible charge of the facility. Unless specified elsewhere in this permit, this facility shall be classified in accordance with ADEM Admin. Code R. 335-10-1-.03.

E. SANITARY SEWER OVERFLOW RESPONSE PLAN

1. SSO Response Plan

Within 120 days of the effective date of this Permit, the Permittee shall develop a Sanitary Sewer Overflow (SSO) Response Plan to establish timely and effective methods for responding to notifiable sanitary sewer overflows. The SSO Response Plan shall address each of the following:

a. General Information

(1) Approximate population of City/Town, if applicable

(2) Approximate number of customers served by the Permittee

(3) Identification of any subbasins designated by the Permittee, if applicable

(4) Identification of estimated linear feet of sanitary sewers

(5) Number of Pump/Lift Stations in the collection system

b. Responsibility Information

(1) The title(s) and contact information of key position(s) who will coordinate the SSO response, including information for a backup coordinator in the event that the primary SSO coordinator is unavailable. The SSO coordinator is the person responsible for assessing the SSO and initiating a series of response actions based on the type, severity, and destination of the SSO, except for routine SSOs for which the coordinator may pre-approve written procedures. Routine SSOs are those for which the corrective action procedures are generally consistent.

(2) The title(s), and contact information of key position(s) who will respond to SSOs, including information for backup responder(s) in the event the primary responder(s) are unavailable (i.e., position(s) who provide notification to the Department, the public, the county health department, and other affected entities such as public water systems; position(s) responsible for organizing crews for response; position(s) responsible for addressing public inquiries)

c. SSO and Surface Water Assessment

(1) Identification of locations within the collection system at which an SSO is likely to occur (e.g., based upon historical SSOs, lift stations where electricity may be lost, etc.)

(2) A map of the general collection system area, including identification of surface waterbodies and the location(s) of public drinking water source(s). Mapping of all collection system piping, pump stations, etc. is not required; however, if this information is already available, it should be included.

(3) Identification of surface waterbodies within the collection system area which are classified as Swimming according to ADEM Admin. Code chap. 335-6-11. References available to assist in this requirement include the following: http://adem.alabama.gov/alEnviroRegLaws/files/Division6Vol1.pdf and http://adem.alabama.gov/wqmap.

(4) Identification of surface waterbodies within the collection system area which are not classified as Swimming as indicated in paragraph c above, but are known locally as areas where swimming occurs or as areas that are heavily recreated

d. Public Reporting of SSOs

(1) Contact information for the public to report an SSO to the Permittee, during both normal and outside of normal business hours (e.g., telephone number, website, email address, etc.)

(2) Information requested from the person reporting an SSO to assist the Permittee in identifying the SSO (e.g., date, time, location, contact information)

(3) Procedures for communication of the SSO report to the appropriate positions for follow-up investigation and response, if necessary

e. Procedures to immediately notify the Department, the county health department, and other affected entities (such as public water systems) upon becoming aware of notifiable SSOs

f. Public Notification Methods for SSOs

(1) A listing of methods that are feasible, as determined by the Permittee, for public notifications (e.g., flyers distributed to nearby residents; signs posted at the location of the SSO, where the SSO enters a water of the state, and/or at a central public location; signs posted at fishing piers, boat launches, parks, swimming waterbodies, etc.; website and/or social media notifications; local print or radio and broadcast media notifications; "opt in" email, text message, or automated phone message notifications)

(i) If signage is a feasible method for public notification, procedures for use and removal of signage (e.g., availability and maintenance of signs, appropriate duration of postings)

(2) Minimum information to be included in public notifications (e.g., identification that an SSO has occurred, date, duration if known, estimated volume if known, location of the SSO by street address or other appropriate method, initial destination of the SSO)

(3) Procedures developed by the Permittee for determining the appropriate public notification method(s) based upon the potential for public exposure to health risks associated with the SSO

g. Standard Procedures shall be developed by the Permittee and shall include, at a minimum

(1) General SSO Response Procedures (e.g., procedures for dispatching staff to assess/correct an SSO; procedures for routine SSO corrective actions such as those for sewer blockages, overflowing manholes, line breakages, pump station power failure, etc.; procedures for disinfection of affected area, if applicable);

(2) Procedures for collection and proper disposal of the SSO, if feasible.

(3) General procedures for coordinating instream water quality monitoring, including, but not limited to, procedures for mobilizing staff, collecting samples, and typical test methods should the Department or the Permittee determine monitoring is appropriate following an SSO. Identification of a contractor who will collect and analyze the sample(s) may be listed in lieu of the procedures.

(4) References to other documents (such as Standard Operating Procedures for SSO Responses) may be acceptable for this section; however, the referenced document shall be identified and shall be reviewed at a frequency of at least that required by the Administrative Procedures Section.

h. Date of the SSO Response Plan, dates of all modifications and/or reviews, the title and signature of the reviewer(s) for each date and the signature of the responsible official or the appropriate designee.

2. SSO Response Plan Implementation

Except as otherwise required by this Permit, the Permittee shall fully implement the SSO Response Plan as soon as practicable, but no later than 180 days after the effective date of this Permit.

3. Department Review of the SSO Response Plan

a. When requested by the Director or his designee, the Permittee shall make the SSO Response Plan available for review by the Department.

b. Upon review, the Director or his designee may notify the Permittee that the SSO Response Plan is deficient and require modification of the Plan.

c. Within thirty days of receipt of notification, or an alternate timeframe as approved by the Department, the Permittee shall modify any SSO Response Plan deficiency identified by the Director or his designee and shall certify to the Department that the modification has been made.

4. SSO Response Plan Administrative Procedures

a. The Permittee shall maintain a copy of the SSO Response Plan at the permitted facility or an alternate location approved by the Department in writing and shall make it available for inspection by the Department.

b. The Permittee shall make a copy of the SSO Response Plan available to the public upon written request within 30 days of such request. The Permittee may redact information which may present security issues, such as location of public water supplies, identification of specific details of vulnerabilities, employee information, etc.

c. The Permittee shall provide training for any personnel required to implement the SSO Response Plan and shall retain at the facility documentation of such training. This documentation shall be available for inspection by the Department. Training shall be provided for existing personnel prior to the date by which implementation of the SSO Response Plan is required and for new personnel as soon as possible. Should significant revisions be made to the SSO Response Plan, training regarding the revisions shall be conducted as soon as possible.

d. The Permittee shall complete a review and evaluation of the SSO Response Plan at least once every three years. Documentation of the SSO Response Plan review and evaluation shall be signed and dated by the responsible official or the appropriate designee as part of the SSO Response Plan.

F. POLLUTANT SCANS

The Permittee shall sample and analyze for the pollutants listed in 40 CFR 122 Appendix J Table 2. The Permittee shall provide data from a minimum of three samples collected within the four and one-half years prior to submitting a permit application. Samples must be representative of the seasonal variation in the discharge from each outfall.

G. DISCHARGE INFORMATION ZONE (DIZ) REQUIREMENTS

1. Prior to permit renewal, the Permittee shall perform a background sediment and benthic community characterization study at sampling locations defined in a DIZ Study Plan that has been approved by the Department. The DIZ Study Plan shall be prepared in accordance with the ADEM Administrative Rule 335-8-2-.12.

2. The Permittee shall, upon request for a permit renewal perform a sediment and benthic community characterization at the sampling locations approved in the original DIZ Study Plan, unless a modified study plan is approved by the Department. Monitoring shall be conducted during the same season as the original characterization and shall conform to the DIZ study plan, unless otherwise approved by the Department. The DIZ monitoring shall be repeated if the Permittee fails accelerated testing and if it is required to initiate a Toxicity Reduction Evaluation (TRE) pursuant to Part IV.B. of this permit. Monitoring results shall be submitted to the Department along with the application for permit renewal.

3. The Permittee shall not cause biological damage or adverse water quality impacts at the perimeter or outside the boundaries of the original characterization area. If the biological monitoring shows evidence of biological damage or adverse water quality impacts at the perimeter or outside the boundaries of the original characterization area, the Permittee will be in violation of this permit, unless the Permittee can demonstrate that the cause of adverse impacts is due to a source other than the Permittee's discharge. Within 30 days after becoming aware of such violation, the Permittee is to submit a plan for correcting and eliminating the biological damage and adverse water quality impacts caused by the discharge.

4. The Department may suspend or otherwise modify the monitoring requirements of this rule if:

   a. The Department determines, through review of discharger information and/or its own monitoring efforts, that the discharge is having no significant impact to coastal resources beyond 400 feet of the discharge point; or

   b. The Department determines, through review of the discharger information and/or its own monitoring efforts, that the discharge monitoring is inadequate to detect significant impacts to coastal resources beyond 400 feet of the discharge point; or

   c. The Department determines, based on available biological and chemical data that, due to the nature of the discharge, no significant impacts to coastal resources will occur beyond 400 feet of the discharge point; or

   d. The Department deems that further actions are required to ensure protection of coastal resources.

NPDES PERMIT RATIONALE

NPDES Permit No: **AL0020885**

Date: September 08, 2026
Revised: November 2, 2026

Permit Applicant: Utilities Board of the City of Chickasaw
Post Office Box 11307
Chickasaw, AL 36671

Location: **Chickasaw Lagoon**
Gulf Street Alley
Chickasaw, AL 36611

Draft Permit is:

Initial Issuance:	
Reissuance due to expiration:	X
Modification of existing permit:	
Revocation and Reissuance:	

Basis for Limitations:

Water Quality Model:	DO, NH3-N, CBOD5
Reissuance with no modification:	pH, DO, TSS, NH3-N, Enterococci, TRC, CBOD5, CBOD5 Percent Removal, TSS Percent Removal
Instream calculation at 7Q10:	6% (Based on CORMIX)
Toxicity based:	TRC
Secondary Treatment Levels:	CBOD5, TSS, CBOD5 Percent Removal, TSS Percent Removal
Other (described below):	pH, Enterococci, Copper

Design Flow (MGD): 1.5 MGD

Major: Yes

Description of Discharge:

Feature ID	Description	Receiving Water	Waterbody Use Classification	303(d)	TMDL
001	Treated Domestic Wastewater	Chickasaw Creek	Limited Warmwater Fishery (LWF)	Yes	No

Discussion: This is a permit reissuance due to expiration. The permit regulates the discharge of treated domestic wastewater to Chickasaw Creek. The segment of Chickasaw Creek containing the discharge is a Tier I stream classified as Limited Warmwater Fishery in the Mobile Bay Basin. The receiving stream is listed on the most recent 303(d) list for Mercury impairment. There are no approved Total Maximum Daily Loads (TMDLs) affecting the discharge. The proposed permit limits are described below.

Limits for Five-Day Carbonaceous Biochemical Oxygen Demand (CBOD5), Total Ammonia as Nitrogen (NH3-N), and Dissolved Oxygen (DO) were developed based on a Wasteload Allocation model developed by ADEM's Water Quality Branch on July 27, 2018. The monthly average CBOD5 limit is 25.0 mg/L. The monthly average NH3-N limit is 20.0 mg/L. The daily minimum DO limit is 6.0 mg/L.

The Municipal Section, in consultation with the Department's Water Quality Branch, has conducted a narrative nutrient reasonable potential analysis. Based on a review of the facility's current levels

of nutrients in the discharge and current assessments of the available information, the Permittee is required to monitor and report effluent test results for Total Phosphorus (TP), Nitrite plus Nitrate-Nitrogen (NO2+NO3-N), and Total Kjeldahl Nitrogen (TKN). Monitoring for these nutrient-related parameters is imposed so that sufficient information will be available regarding the nutrient contribution from this point source, should it be necessary at some later time to impose additional nutrient limits on this discharge.

The pH limits were developed to be supportive of the water-use classification of the receiving stream. The pH limits are 6.0 s.u (daily minimum) and 9.0 s.u. (daily maximum).

The Enterococci limits were determined based on the water-use classification of the receiving stream. The segment of Chickasaw Creek containing the discharge is classified as Limited Warmwater Fishery. The Enterococci limit is 275 col/100mL (daily maximum), and the monthly average value should be monitored and reported.

The Total Residual Chlorine (TRC) limits of 0.026 mg/L (daily maximum) is based on ADEM's water quality standards and on the current Toxicity Rationale, which considers the available dilution in the receiving stream. In accordance with a letter dated August 11, 1998 from EPA Headquarters and a 1991 memorandum from EPA Region 4's Environmental Services Division (ESD), due to testing and method detection limitations, a TRC measurement below 0.05 mg/L shall be considered below detection for compliance purposes. Monitoring for TRC is only applicable if chlorine is utilized for disinfection purposes.

The monthly average Total Suspended Solids (TSS) limit is of 90.0 mg/L in accordance with the requirements of 40 CFR part 133.105. A minimum TSS percent removal limit of 65.0 percent is imposed in accordance with the requirements of 40 CFR part 133.105. A minimum CBOD5 percent removal limit of 85.0 percent is imposed in accordance with the requirements of 40 CFR part 133.102.

The Department completed a reasonable potential analysis (RPA) of the discharge based on a mixing zone analysis of the receiving stream and laboratory data provided in the Permittee's application and discharge monitoring reports (DMRs). The Department also considers background data upstream of the point of discharge in RPAs; however, there is no applicable background data for the discharges. The RPA indicates whether pollutants in treated effluent have the potential to contribute to excursions of Alabama's in-stream water quality standards. Based on the RPA, it was determined that there is a reasonable potential for in-stream water quality standards to be exceeded for copper. This permit will impose Total Recoverable Copper limits of 55.95 µg/L (monthly average) and 9.85 µg/L (daily maximum). The previous permit included more stringent copper limits. Imposing less stringent copper limits is not considered backsliding because it is consistent with he Department's antidegradation policy and water quality standards are being attained for this pollutant. Because of the mercury impairment of the receiving stream, the permit requires Total Recoverable Mercury monitoring so that sufficient information will be available for TMDL development.

Because this is a major facility (design capacity greater than 1.0 MGD), chronic toxicity testing with two species, *Menidia beryllina* (inland silverside) and *Mysidopsis bahia* (mysid), is required. Annual chronic toxicity testing is to be performed at the Instream Waste Concentration (IWC) of 6.0 percent.

The Permittee asserts that due to the nature of the Chickasaw Lagoon site, there is no direct stormwater discharge from the property; therefore, stormwater monitoring is not imposed in the permit.

The frequency of monitoring for most parameters is two days per month. Flow is to be monitored continuously, seven days per week. Monitoring for NO2+NO3-N, TKN, TP, and copper is to be conducted monthly. Percent removals are to be calculated monthly. Mercury is to be monitored annually. Toxicity testing is to be conducted in the month of October.

This permit imposes Discharge Information Zone (DIZ) requirements. DIZ requirements are described more fully in Part IV. of the permit.

ADEM Administrative Rule 335-6-10-.12 requires applicants for new or expanded discharges to Tier II waters demonstrate that the proposed discharge is necessary for important economic or social development in the area in which the waters are located. The application submitted by the facility is not for a new or expanded discharge to a Tier II stream, so the applicant is not required to demonstrate that the discharge is necessary for economic and social development.

Revision: Because the permit application indicated that there is no direct stormwater discharge from the property, Part IV. of the draft permit has been revised to remove the stormwater requirements.

Prepared by: Stephanie Ammons

Chickasaw Lagoon
Permit No. AL0020885
Total Residual Chlorine Limit Calculations

Instream Waste Concentration (IWC) at the Zone of Dilution (ZID) = 0.487
IWC at the Mixing Zone (MZ) = 0.0554

Total Residual Chlorine (TRC) Marine Acute Water Quality Criteria = 0.013 mg/L
TRC Marine Chronic Water Quality Criteria = 0.0075 mg/L

Proposed Daily Maximum permit limitation based on Marine Acute Water Criteria:

$$\frac{\text{Acute Water Quality Criteria}}{\text{ZID IWC}} = \frac{0.013 \text{ mg/L}}{0.487} = 0.026 \text{ mg/L}$$

Proposed Monthly Average permit limitation based on Marine Chronic Water Criteria:

$$\frac{\text{Chronic Water Quality Criteria}}{\text{MZ IWC}} = \frac{0.0075 \text{ mg/L}}{0.0554} = 0.135 \text{ mg/L}$$

The permit imposes a daily maximum limit of 0.026 mg/L. Because the more stringent daily maximum limit will be protective of water quality, a monthly average REPORT value is imposed in the permit.

Facility Name: **Chickasaw Lagoon**

NPDES No.: **AL0020885**

$Q_d * C_d + Q_{d2} * C_{d2} + Q_s * C_s = Q_r * C_r$

ID	Pollutant	Carcinogen "yes"	Type	Background from upstream source (C_{d1}) Daily Max (ug/l)	Background from upstream source (C_{d2}) Monthly Ave (ug/l)	Background Instream (C_s) Daily Max (ug/l)	Background Instream (C_s) Monthly Ave (ug/l)	Enter Max Daily Discharge as reported by Applicant (C_d) Max (ug/l)	Enter Avg Daily Discharge as reported by Applicant (C_d) Ave (ug/l)
1	Antimony		Metals	0	0	0	0	0	0
2	**Arsenic*,****	YES	Metals	0	0	0	0	0	0
3	Beryllium		Metals	0	0	0	0	0	0
4	Cadmium**		Metals	0	0	0	0	0	0
5	Chromium / Chromium III**		Metals	0	0	0	0	0	0
6	Chromium / Chromium VI**		Metals	0	0	0	0	0	0
7	Copper**		Metals	0	0	0	0	3.33	0.95549
8	Lead**		Metals	0	0	0	0	0	0
9	Mercury**		Metals	0	0	0	0	0.00124	0.000829
10	Nickel**		Metals	0	0	0	0	0	0
11	Selenium		Metals	0	0	0	0	0	0
12	Silver		Metals	0	0	0	0	0	0
13	Thallium		Metals	0	0	0	0	0	0
14	Zinc**		Metals	0	0	0	0	8.74	5.206
15	Cyanide		Metals	0	0	0	0	0	0
16	Total Phenolic Compounds		Metals	0	0	0	0	0	0
17	Hardness (As CaCO3)		Metals	0	0	0	0	53000	52000
18	Acrolein		VOC	0	0	0	0	0	0
19	**Acrylonitrile***	YES	VOC	0	0	0	0	0	0
20	**Aldrin**	YES	VOC	0	0	0	0	0	0
21	**Benzene***	YES	VOC	0	0	0	0	0	0
22	**Bromoform***	YES	VOC	0	0	0	0	0	0
23	**Carbon Tetrachloride***	YES	VOC	0	0	0	0	0	0
24	**Chlordane**	YES	VOC	0	0	0	0	0	0
25	Clorobenzene		VOC	0	0	0	0	0	0
26	**Chlorodibromo-Methane***	YES	VOC	0	0	0	0	0	0
27	Chloroethane		VOC	0	0	0	0	0	0
28	2-Chloro-Ethylvinyl Ether		VOC	0	0	0	0	0	0
29	**ChloroForm***	YES	VOC	0	0	0	0	14.7	8.74
30	**4,4'-DDD**	YES	VOC	0	0	0	0	0	0
31	**4,4'-DDE**	YES	VOC	0	0	0	0	0	0
32	**4.4'-DDT**	YES	VOC	0	0	0	0	0	0
33	**Dichlorobromo-Methane***	YES	VOC	0	0	0	0	2.39	0.796
34	1, 1-Dichloroethane		VOC	0	0	0	0	0	0
35	**1, 2-Dichloroethane***	YES	VOC	0	0	0	0	0	0
36	Trans-1, 2-Dichloro-Ethylene		VOC	0	0	0	0	0	0
37	**1, 1-Dichloroethylene***	YES	VOC	0	0	0	0	0	0
38	1, 2-Dichloropropane		VOC	0	0	0	0	0	0
39	1, 3-Dichloro-Propylene		VOC	0	0	0	0	0	0
40	**Dieldrin**	YES	VOC	0	0	0	0	0	0
41	Ethylbenzene		VOC	0	0	0	0	0	0
42	Methyl Bromide		VOC	0	0	0	0	0	0
43	Methyl Chloride		VOC	0	0	0	0	0	0
44	**Methylene Chloride***	YES	VOC	0	0	0	0	0	0
45	**1, 1, 2, 2-Tetrachloro-Ethane***	YES	VOC	0	0	0	0	0	0
46	**Tetrachloro-Ethylene***	YES	VOC	0	0	0	0	0	0
47	Tolulene		VOC	0	0	0	0	0	0
48	**Toxaphene**	YES	VOC	0	0	0	0	0	0
49	**Tributyltine (TBT)**	YES	VOC	0	0	0	0	0	0
50	1, 1, 1-Trichloroethane		VOC	0	0	0	0	0	0
51	**1, 1, 2-Trichloroethane***	YES	VOC	0	0	0	0	0	0
52	**Trichloroethylene***	YES	VOC	0	0	0	0	0	0
53	**Vinyl Chloride***	YES	VOC	0	0	0	0	0	0
54	P-Chloro-M-Cresol		Acids	0	0	0	0	0	0
55	2-Chlorophenol		Acids	0	0	0	0	0	0
56	2, 4-Dichlorophenol		Acids	0	0	0	0	0	0
57	2, 4-Dimethylphenol		Acids	0	0	0	0	0	0
58	4, 6-Dinitro-O-Cresol		Acids	0	0	0	0	0	0
59	2, 4-Dinitrophenol		Acids	0	0	0	0	0	0
60	**4,6-Dinitro-2-methylophenol**	YES	Acids	0	0	0	0	0	0
61	**Dioxin (2,3,7,8-TCDD)**	YES	Acids	0	0	0	0	0	0
62	2-Nitrophenol		Acids	0	0	0	0	0	0
63	4-Nitrophenol		Acids	0	0	0	0	0	0
64	**Pentachlorophenol***	YES	Acids	0	0	0	0	0	0
65	Phenol		Acids	0	0	0	0	0	0
66	**2, 4, 6-Trichlorophenol***	YES	Acids	0	0	0	0	0	0
67	Acenapithene		Bases	0	0	0	0	0	0
68	Acenaphthylene		Bases	0	0	0	0	0	0
69	Anthracene		Bases	0	0	0	0	0	0
70	Benzidine		Bases	0	0	0	0	0	0
71	**Benzo(A)Anthracene***	YES	Bases	0	0	0	0	0	0
72	**Benzo(A)Pyrene***	YES	Bases	0	0	0	0	0	0
73	3, 4 Benzo-Fluoranthene		Bases	0	0	0	0	0	0
74	Benzo(GHI)Perylene		Bases	0	0	0	0	0	0
75	Benzo(K)Fluoranthene		Bases	0	0	0	0	0	0
76	Bis (2-Chloroethoxy) Methane		Bases	0	0	0	0	0	0
77	**Bis (2-Chloroethyl)-Ether***	YES	Bases	0	0	0	0	0	0
78	Bis (2-Chloroiso-Propyl) Ether		Bases	0	0	0	0	0	0
79	**Bis (2-Ethylhexyl) Phthalate***	YES	Bases	0	0	0	0	0	0
80	4-Bromophenyl Phenyl Ether		Bases	0	0	0	0	0	0
81	Butyl Benzyl Phthalate		Bases	0	0	0	0	0	0
82	2-Chloronaphthalene		Bases	0	0	0	0	0	0
83	4-Chlorophenyl Phenyl Ether		Bases	0	0	0	0	0	0
84	**Chrysene***	YES	Bases	0	0	0	0	0	0
85	Di-N-Butyl Phthalate		Bases	0	0	0	0	0	0
86	Di-N-Octyl Phthalate		Bases	0	0	0	0	0	0
87	**Dibenzo(A,H)Anthracene***	YES	Bases	0	0	0	0	0	0
88	1, 2-Dichlorobenzene		Bases	0	0	0	0	0	0
89	1, 3-Dichlorobenzene		Bases	0	0	0	0	0	0
90	1, 4-Dichlorobenzene		Bases	0	0	0	0	0	0
91	**3, 3-Dichlorobenzidine***	YES	Bases	0	0	0	0	0	0
92	Diethyl Phthalate		Bases	0	0	0	0	0	0
93	Dimethyl Phthalate		Bases	0	0	0	0	0	0
94	**2, 4-Dinitrotoluene***	YES	Bases	0	0	0	0	0	0
95	2, 6-Dinitrotoluene		Bases	0	0	0	0	0	0
96	1,2-Diphenylhydrazine		Bases	0	0	0	0	0	0
97	**Endosulfan (alpha)**	YES	Bases	0	0	0	0	0	0
98	**Endosulfan (beta)**	YES	Bases	0	0	0	0	0	0
99	**Endosulfan sulfate**	YES	Bases	0	0	0	0	0	0
100	**Endrin**	YES	Bases	0	0	0	0	0	0
101	**Endrin Aldeyhide**	YES	Bases	0	0	0	0	0	0
102	Fluoranthene		Bases	0	0	0	0	0	0
103	Fluorene		Bases	0	0	0	0	0	0
104	Heptochlor	YES	Bases	0	0	0	0	0	0
105	Heptachlor Epoxide	YES	Bases	0	0	0	0	0	0
106	**Hexachlorobenzene***	YES	Bases	0	0	0	0	0	0
107	**Hexachlorobutadiene***	YES	Bases	0	0	0	0	0	0
108	**Hexachlorocyclohexan (alpa)**	YES	Bases	0	0	0	0	0	0
109	**Hexachlorocyclohexan (beta)**	YES	Bases	0	0	0	0	0	0
110	**Hexachlorocyclohexan (gamma)**	YES	Bases	0	0	0	0	0	0
111	HexachlorocycloPentadiene		Bases	0	0	0	0	0	0
112	Hexachloroethane		Bases	0	0	0	0	0	0
113	**Indeno(1, 2, 3-CI)Pyrene***	YES	Bases	0	0	0	0	0	0
114	Isophorone		Bases	0	0	0	0	0	0
115	Napthalene		Bases	0	0	0	0	0	0
116	Nitrobenzene		Bases	0	0	0	0	0	0
117	**N-Nitrosodi-N-Propylamine***	YES	Bases	0	0	0	0	0	0
118	**N-Nitrosodi-N-Methylamine***	YES	Bases	0	0	0	0	0	0
119	**N-Nitrosodi-N-Phenylamine***	YES	Bases	0	0	0	0	0	0
120	**PCB-1016**	YES	Bases	0	0	0	0	0	0
121	**PCB-1221**	YES	Bases	0	0	0	0	0	0
122	**PCB-1232**	YES	Bases	0	0	0	0	0	0
123	**PCB-1242**	YES	Bases	0	0	0	0	0	0
124	**PCB-1248**	YES	Bases	0	0	0	0	0	0
125	**PCB-1254**	YES	Bases	0	0	0	0	0	0
126	**PCB-1260**	YES	Bases	0	0	0	0	0	0
127	Phenanthrene		Bases	0	0	0	0	0	0
128	Pyrene		Bases	0	0	0	0	0	0
129	1, 2, 4-Trichlorobenzene		Bases	0	0	0	0	3.5	1.167

0.487	ZID IWC
0.0554	MZ IWC
1	Total Instream Concentration
0.513	ZID background (1 - ZID IWC)
0.9446	MZ background (1 - MZ IWC)

September 16, 2026

Facility Name: Chickasaw Lagoon

Permit No.: AL0020885

ID	Pollutant	RP?	Carcinogen yes	Background from upstream source (C_dZ) Daily Max	Max Daily Discharge as reported by Applicant (C_{Dmax})	Marine Acute (µg/l)				Background from upstream source (C_dZ) Monthly Ave	Avg Daily Discharge as reported by Applicant (C_{Dave})	Marine Chronic (µg/l)				Human Health Consumption Fish only (µg/l)			
						Water Quality Criteria (C_c)	Draft Permit Limit (C_{Dmax})	20% of Draft Permit Limit	RP?			Water Quality Criteria (C_c)	Draft Permit Limit (C_{Dave})	20% of Draft Permit Limit	RP?	Water Quality Criteria (C_c)	Draft Permit Limit (C_{Dave})	20% of Draft Permit Limit	RP?
1	Antimony			0	0	-	-	-	-	0	0	-	-	-	-	3.73E+02	6.74E+03	1.35E+03	No
2	Arsenic		YES	0	0	69	141.684	28.3367556	No	0	0	36	649.819	129.963899	No	3.03E-01	5.47E+00	1.09E+00	No
3	Beryllium			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
4	Cadmium			0	0	33	67.762	13.5523614	No	0	0	7.9	142.599	28.5198556	No	-	-	-	-
5	Chromium/ Chromium III			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
6	Chromium/ Chromium VI			0	0	1100	2258.727	451.74538	No	0	0	50	902.527	180.505415	No	-	-	-	-
7	Copper		YES	0	3.33	4.8	9.856	1.97125257	Yes	0	0.95549	3.1	55.957	11.1913357	No	-	-	-	-
8	Lead			0	0	210	431.211	86.2422998	No	0	0	8.1	146.209	29.2418773	No	-	-	-	-
9	Mercury			0	0.00124	2.1	4.312	0.862423	No	0	0.000829	0.025	0.451	0.09025271	No	4.24E-02	7.66E-01	1.53E-01	No
10	Nickel			0	0	74	151.951	30.3901437	No	0	0	8.2	148.014	29.6028881	No	9.93E+02	1.79E+04	3.58E+03	No
11	Selenium			0	0	290	595.483	119.096509	No	0	0	71	1281.588	256.31769	No	2.43E+03	4.39E+04	8.77E+03	No
12	Silver			0	0	1.9	3.901	0.78028747	No	0	0	-	-	-	-	-	-	-	-
13	Thallium			0	0	-	-	-	-	0	0	-	-	-	-	2.74E-01	4.94E+00	9.88E-01	No
14	Zinc			0	8.74	90	184.805	36.9609856	No	0	5.206	81	1462.094	292.418773	No	1.49E+04	2.69E+05	5.38E+04	No
15	Cyanide			0	0	1.0	2.053	0.41067762	No	0	0	1.0	18.051	3.6101083	No	9.33E+03	1.68E+05	3.37E+04	No
16	Total Phenolic Compounds			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
17	Hardness (As CaCO3)			0	53000	-	-	-	-	0	52000	-	-	-	-	-	-	-	-
18	Acrolein			0	0	-	-	-	-	0	0	-	-	-	-	5.43E+00	9.79E+01	1.96E+01	No
19	Acrylonitrile		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.44E-01	2.60E+00	5.20E-01	No
20	Aldrin		YES	0	0	1.3	2.669	0.5338809	No	0	0	-	-	-	-	2.94E-05	5.31E-04	1.06E-04	No
21	Benzene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.55E+01	2.79E+02	5.59E+01	No
22	Bromoform		YES	0	0	-	-	-	-	0	0	-	-	-	-	7.88E+01	1.42E+03	2.84E+02	No
23	Carbon Tetrachloride		YES	0	0	-	-	-	-	0	0	-	-	-	-	9.57E-01	1.73E+01	3.46E+00	No
24	Chlordane		YES	0	0	0.09	0.185	0.03696099	No	0	0	0.004	0.072	0.01444043	No	4.73E-04	8.53E-03	1.71E-03	No
25	Clorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	9.06E+02	1.64E+04	3.27E+03	No
26	Chlorodibromo-Methane		YES	0	0	-	-	-	-	0	0	-	-	-	-	7.41E+00	1.34E+02	2.67E+01	No
27	Chloroethane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
28	2-Chloro-Ethylvinyl Ether			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
29	ChloroForm		YES	0	14.7	-	-	-	-	0	8.74	-	-	-	-	1.02E+02	1.84E+03	3.68E+02	No
30	4,4' - DDD		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.81E-04	3.27E-03	6.55E-04	No
31	4,4' - DDE		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.28E-04	2.31E-03	4.62E-04	No
32	4,4' - DDT		YES	0	0	0.13	0.267	0.05338809	No	0	0	0.001	0.018	0.00361011	No	1.28E-04	2.31E-03	4.62E-04	No
33	Dichlorobromo-Methane		YES	0	2.39	-	-	-	-	0	0.796	-	-	-	-	1.00E+01	1.81E+02	3.62E+01	No
34	1, 1-Dichloroethane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
35	1, 2-Dichloroethane		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.14E+01	3.86E+02	7.71E+01	No
36	Trans-1, 2-Dichloro-Ethylene			0	0	-	-	-	-	0	0	-	-	-	-	5.91E+03	1.07E+05	2.13E+04	No
37	1, 1-Dichloroethylene		YES	0	0	-	-	-	-	0	0	-	-	-	-	4.17E+03	7.52E+04	1.50E+04	No
38	1, 2-Dichloropropane			0	0	-	-	-	-	0	0	-	-	-	-	8.49E+00	1.53E+02	3.07E+01	No
39	1, 3-Dichloro-Propylene			0	0	-	-	-	-	0	0	-	-	-	-	1.23E+01	2.22E+02	4.43E+01	No
40	Dieldrin		YES	0	0	0.71	1.458	0.29158111	No	0	0	0.0019	0.034	0.00685921	No	3.12E-05	5.64E-04	1.13E-04	No
41	Ethylbenzene			0	0	-	-	-	-	0	0	-	-	-	-	1.24E+03	2.25E+04	4.49E+03	No
42	Methyl Bromide			0	0	-	-	-	-	0	0	-	-	-	-	8.71E+02	1.57E+04	3.14E+03	No
43	Methyl Chloride			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
44	Methylene Chloride		YES	0	0	-	-	-	-	0	0	-	-	-	-	3.46E+02	6.24E+03	1.25E+03	No
45	1, 1, 2, 2-Tetrachloro-Ethane		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.33E+00	4.21E+01	8.42E+00	No
46	Tetrachloro-Ethylene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.92E+00	3.46E+01	6.92E+00	No
47	Toluene			0	0	-	-	-	-	0	0	-	-	-	-	8.72E+03	1.57E+05	3.15E+04	No
48	Toxaphene		YES	0	0	0.21	0.431	0.0862423	No	0	0	0.0002	0.004	0.00072202	No	1.62E-04	2.92E-03	5.85E-04	No
49	Tributyltin (TBT)		YES	0	0	0.42	0.862	0.1724846	No	0	0	0.0074	0.134	0.0267148	No	-	-	-	-
50	1, 1, 1-Trichloroethane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
51	1, 1, 2-Trichloroethane		YES	0	0	-	-	-	-	0	0	-	-	-	-	9.10E+00	1.64E+02	3.28E+01	No
52	Trichlorethylene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.75E+01	3.15E+02	6.31E+01	No
53	Vinyl Chloride		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.42E+00	2.57E+01	5.14E+00	No
54	P-Chloro-M-Cresol			0	0	13	26.694	5.33880903	No	0	0	7.9	142.599	28.5198556	No	-	-	-	-
55	2-Chlorophenol			0	0	-	-	-	-	0	0	-	-	-	-	8.71E+01	1.57E+03	3.14E+02	No
56	2, 4-Dichlorophenol			0	0	-	-	-	-	0	0	-	-	-	-	1.72E+02	3.10E+03	6.21E+02	No
57	2, 4-Dimethylphenol			0	0	-	-	-	-	0	0	-	-	-	-	4.98E+02	8.98E+03	1.80E+03	No
58	4, 6-Dinitro-O-Cresol			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
59	2, 4-Dinitrophenol			0	0	-	-	-	-	0	0	-	-	-	-	3.11E+03	5.62E+04	1.12E+04	No
60	4,6-Dinitro-2-methylphenol		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.65E+02	2.99E+03	5.97E+02	No
61	Dioxin (2,3,7,8-TCDD)		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.67E-06	4.81E-07	9.63E-08	No
62	2-Nitrophenol			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
63	4-Nitrophenol			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
64	Pentachlorophenol		YES	0	0	13	26.694	5.33880903	No	0	0	7.9	142.599	28.5198556	No	1.77E+00	3.19E+01	6.38E+00	No
65	Phenol			0	0	-	-	-	-	0	0	-	-	-	-	5.00E+05	9.03E+06	1.81E+06	No
66	2, 4, 6-Trichlorophenol		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.41E+00	2.55E+01	5.11E+00	No
67	Acenaphthene			0	0	-	-	-	-	0	0	-	-	-	-	5.79E+02	1.04E+04	2.09E+03	No
68	Acenaphthylene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
69	Anthracene			0	0	-	-	-	-	0	0	-	-	-	-	2.33E+04	4.21E+05	8.42E+04	No
70	Benzidine			0	0	-	-	-	-	0	0	-	-	-	-	1.16E-04	2.09E-03	4.19E-04	No
71	Benzo(A)Anthracene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	1.92E-01	3.85E-02	No
72	Benzo(A)Pyrene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	1.92E-01	3.85E-02	No
73	Benzo(b)fluoranthene			0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	1.92E-01	3.85E-02	No
74	Benzo(GHI)Perylene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
75	Benzo(K)Fluoranthene			0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	1.92E-01	3.85E-02	No
76	Bis (2-Chloroethoxy) Methane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
77	Bis (2-Chloroethyl)-Ether		YES	0	0	-	-	-	-	0	0	-	-	-	-	3.07E-01	5.55E+00	1.11E+00	No
78	Bis (2-Chloroiso-Propyl) Ether			0	0	-	-	-	-	0	0	-	-	-	-	3.78E+04	6.82E+05	1.36E+05	No
79	Bis (2-Ethylhexyl) Phthalate		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.28E+00	2.31E+01	4.63E+00	No
80	4-Bromophenyl Phenyl Ether			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
81	Butyl Benzyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	1.13E+03	2.03E+04	4.07E+03	No
82	2-Chloronaphthalene			0	0	-	-	-	-	0	0	-	-	-	-	9.24E+02	1.67E+04	3.34E+03	No
83	4-Chlorophenyl Phenyl Ether			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
84	Chrysene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	1.92E-01	3.85E-02	No
85	Di-N-Butyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	2.62E+03	4.73E+04	9.46E+03	No
86	Di-N-Octyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
87	Dibenzo(A,H)Anthracene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	1.92E-01	3.85E-02	No
88	1, 2-Dichlorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	7.55E+02	1.36E+04	2.73E+03	No
89	1, 3-Dichlorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	5.62E+02	1.02E+04	2.03E+03	No
90	1, 4-Dichlorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	1.12E+02	2.03E+03	4.06E+02	No
91	3, 3-Dichlorobenzidine		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.66E-02	3.00E-01	6.00E-02	No
92	Diethyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	2.56E+04	4.62E+05	9.23E+04	No
93	Dimethyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	6.48E+05	1.17E+07	2.34E+06	No
94	2, 4-Dinitrotoluene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.98E+00	3.58E+01	7.15E+00	No
95	2, 6-Dinitrotoluene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
96	1,2-Diphenylhydrazine			0	0	-	-	-	-	0	0	-	-	-	-	1.17E-01	2.11E+00	4.23E-01	No
97	Endosulfan (alpha)		YES	0	0	0.034	0.070	0.01396304	No	0	0	0.0087	0.157	0.03140794	No	5.19E+01	9.36E+02	1.87E+02	No
98	Endosulfan (beta)		YES	0	0	0.034	0.070	0.01396304	No	0	0	0.0087	0.157	0.03140794	No	5.19E+01	9.36E+02	1.87E+02	No
99	Endosulfan sulfate		YES	0	0	-	-	-	-	0	0	-	-	-	-	5.19E+01	9.36E+02	1.87E+02	No
100	Endrin		YES	0	0	0.037	0.076	0.01519507	No	0	0	0.0023	0.042	0.00830325	No	3.53E-02	6.37E-01	1.27E-01	No
101	Endrin Aldeyhde		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.76E-01	3.18E+00	6.37E-01	No
102	Fluoranthene			0	0	-	-	-	-	0	0	-	-	-	-	8.12E+01	1.46E+03	2.93E+02	No
103	Fluorene			0	0	-	-	-	-	0	0	-	-	-	-	3.11E+03	5.62E+04	1.12E+04	No
104	Heptochlor		YES	0	0	0.053	0.109	0.02176591	No	0	0	0.0036	0.065	0.01299639	No	4.63E-05	8.36E-04	1.67E-04	No
105	Heptachlor Epoxide		YES	0	0	0.053	0.109	0.02176591	No	0	0	0.0036	0.065	0.01299639	No	2.29E-05	4.13E-04	8.26E-05	No
106	Hexachlorobenzene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.68E-04	3.03E-03	6.06E-04	No
107	Hexachlorobutadiene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.08E+01	1.94E+02	3.88E+01	No
108	Hexachlorocyclohexan (alpha)		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.85E-03	5.14E-02	1.03E-02	No
109	Hexachlorocyclohexan (beta)		YES	0	0	-	-	-	-	0	0	-	-	-	-	9.97E-03	1.80E-01	3.60E-02	No
110	Hexachlorocyclohexan (gamma)		YES	0	0	0.16	0.329	0.06570642	No	0	0	-	-	-	-	1.08E+00	1.94E+01	3.89E+00	No
111	HexachlorocycloPentadiene			0	0	-	-	-	-	0	0	-	-	-	-	6.45E+02	1.16E+04	2.33E+03	No
112	Hexachloroethane			0	0	-	-	-	-	0	0	-	-	-	-	1.92E+00	3.46E+01	6.92E+00	No
113	Indeno(1, 2, 3-CK)Pyrene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	1.92E-01	3.85E-02	No
114	Isophorone			0	0	-	-	-	-	0	0	-	-	-	-	5.61E+02	1.01E+04	2.02E+03	No
115	Naphthalene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
116	Nitrobenzene			0	0	-	-	-	-	0	0	-	-	-	-	4.04E+02	7.29E+03	1.46E+03	No
117	N-Nitrosodi-N-Propylamine		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.95E-01	5.32E+00	1.06E+00	No
118	N-Nitrosodimethylamine		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.76E+00	3.18E+01	6.35E+00	No
119	N-Nitrosodiphenylamine		YES	0	0	-	-	-	-	0	0	-	-	-	-	3.50E+00	6.32E+01	1.26E+01	No
120	PCB-1016		YES	0	0	-	-	-	-	0	0	0.03	0.542	0.10830325	No	3.74E-05	6.75E-04	1.35E-04	No
121	PCB-1221		YES	0	0	-	-	-	-	0	0	0.03	0.542	0.10830325	No	3.74E-05	6.75E-04	1.35E-04	No
122	PCB-1232		YES	0	0	-	-	-	-	0	0	0.03	0.542	0.10830325	No	3.74E-05	6.75E-04	1.35E-04	No
123	PCB-1242		YES	0	0	-	-	-	-	0	0	0.03	0.542	0.10830325	No	3.74E-05	6.75E-04	1.35E-04	No
124	PCB-1248		YES	0	0	-	-	-	-	0	0	0.03	0.542	0.10830325	No	3.74E-05	6.75E-04	1.35E-04	No
125	PCB-1254		YES	0	0	-	-	-	-	0	0	0.03	0.542	0.10830325	No	3.74E-05	6.75E-04	1.35E-04	No
126	PCB-1260		YES	0	0	-	-	-	-	0	0	0.03	0.542	0.10830325	No	3.74E-05	6.75E-04	1.35E-04	No
127	Phenanthrene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
128	Pyrene			0	0	-	-	-	-	0	0	-	-	-	-	2.33E+03	4.21E+04	8.42E+03	No
129	1, 2, 4-Trichlorobenzene			0	3.5	-	-	-	-	0	1.167	-	-	-	-	4.09E+01	7.39E+02	1.48E+02	No

Chickasaw Lagoon
Permit Number AL0020885
Total Recoverable Mercury DMR and Permit Application Data

End Date	Monthly Average	Maximum Daily	Unit
12/31/2022 (DMR)	0.000945	0.000945	ug/l
12/31/2023 (DMR)	0.000822	0.000822	ug/l
12/31/2024 (DMR and App.)	0.00124	0.00124	ug/l
12/31/2025 (DMR and App.)	0.00114	0.00114	ug/l
2/10/2026 (App.)	*B	*B	ug/L

*B = Below Method Detection Limit

Average = 0.000829 ug/L
Maximum = 0.00124 ug/L

Chickasaw Lagoon
Permit Number AL0020885
Total Recoverable Copper DMR and Permit Application Data

End Date	Monthly Average	Maximum Daily	Unit
3/31/22	2.29	2.29	ug/l
4/30/22	2.35	2.35	ug/l
5/31/22	1.94	1.94	ug/l
6/30/22	2.15	2.15	ug/l
7/31/22	*B	*B	ug/l
8/31/22	*B	*B	ug/l
9/30/22	*B	*B	ug/l
10/31/22	*B	*B	ug/l
11/30/22	1.18	1.18	ug/l
12/31/22	1.22	1.22	ug/l
1/31/23	1.93	1.93	ug/l
2/28/23	2.41	2.41	ug/l
3/31/23	1.91	1.91	ug/l
4/30/23	1.23	1.23	ug/l
5/31/23	1.07	1.07	ug/l
6/30/23	*B	*B	ug/l
7/31/23	*B	*B	ug/l
8/31/23	*B	*B	ug/l
9/30/23	No Results	No Results	ug/l
10/31/23	*B	*B	ug/l
11/30/23	No Results	No Results	ug/l
12/31/23	*B	*B	ug/l
1/31/24	1.34	1.34	ug/l
2/29/24	1.14	1.14	ug/l
3/31/24	1.2	1.2	ug/l
4/30/24	1.54	1.54	ug/l
5/31/24	1.78	1.78	ug/l
6/30/24	*B	*B	ug/l
7/31/24	1.5	1.5	ug/l
8/31/24	No Results	No Results	ug/l
9/30/24	1.15	1.15	ug/l
10/31/24	*B	*B	ug/l
11/30/24	No Results	No Results	ug/l
12/31/24	*B	*B	ug/l
1/31/25	*B	*B	ug/l
2/28/25	1.61	1.61	ug/l
3/31/25	1.04	1.04	ug/l
4/30/25	*B	*B	ug/l
5/31/25	*B	*B	ug/l
6/30/25	*B	*B	ug/l
7/31/25	*B	*B	ug/l
8/31/25	*B	*B	ug/l
9/30/25	*B	*B	ug/l
10/31/25	No Results	No Results	ug/l
11/30/25	1.48	1.48	ug/l
12/31/25	*B	*B	ug/l
1/31/26	1.14	1.14	ug/l
2/28/26	2.01	2.01	ug/l
3/31/26	1.8	1.8	ug/l
4/30/26	1.13	1.13	ug/l
5/31/26	1.28	1.28	ug/l
6/30/26	1.2	1.2	ug/l
7/31/26	1.86	1.86	ug/l
4/17/24	3.33	3.33	ug/l
5/9/24	*B	*B	ug/l
5/28/24	1.52	1.52	ug/l

*B = Below Metod Detection Limit

Average = 0.95549 ug/L
Maximum = 3.33 ug/L

Chickasaw Lagoon
Permit Number AL0020885
Bis (2-Ethylhexyl) Phthalate DMR and Permit Application Data

End Date	Monthly Average	Unit
3/31/22	*B	ug/l
4/30/22	*B	ug/l
5/31/22	*B	ug/l
6/30/22	*B	ug/l
7/31/22	*B	ug/l
8/31/22	*B	ug/l
9/30/22	*B	ug/l
10/31/22	*B	ug/l
11/30/22	*B	ug/l
12/31/22	*B	ug/l
1/31/23	*B	ug/l
2/28/23	*B	ug/l
3/31/23	*B	ug/l
4/30/23	*B	ug/l
5/31/23	*B	ug/l
6/30/23	*B	ug/l
7/31/23	*B	ug/l
8/31/23	*B	ug/l
9/30/23	No Results	ug/l
10/31/23	*B	ug/l
11/30/23	No Results	ug/l
12/31/23	*B	ug/l
1/31/24	*B	ug/l
2/29/24	*B	ug/l
3/31/24	*B	ug/l
4/30/24	*b	ug/l
5/31/24	*B	ug/l
6/30/24	*B	ug/l
7/31/24	*b	ug/l
8/31/24	No Results	ug/l
9/30/24	*B	ug/l
10/31/24	*B	ug/l
11/30/24	No Results	ug/l
12/31/24	*B	ug/l
1/31/25	*B	ug/l
2/28/25	*B	ug/l
3/31/25	*B	ug/l
4/30/25	*B	ug/l
5/31/25	*B	ug/l
6/30/25	*B	ug/l
7/31/25	*B	ug/l
8/31/25	*B	ug/l
9/30/25	*B	ug/l
10/31/25	No Results	ug/l
11/30/25	*B	ug/l
12/31/25	*B	ug/l
1/31/26	*B	ug/l
2/28/26	*B	ug/l
3/31/26	*B	ug/l
4/30/26	*b	ug/l
5/31/26	*B	ug/l
6/30/26	*B	ug/l
7/31/26	*B	ug/l

*B = Below Method Detection Limit

Average= *B
Maximum = *B

Chickasaw Lagoon
Permit No. AL0020885
Summary of Permit Application Data

Below is a summary of data provided in the permit application. This is not a complete list of parameters analyzed. For a more complete review, please reference the permit application.

				Sample Collection Date		
Parameter	Number of Samples	Average of Samples	Maximum of Samples	4/17/2024	5/9/2024	5/28/2024
Hardness	3	52000 ug/L	53000 ug/L	53000 ug/L	52000 ug/L	51000 ug/L
Zinc	3	5.206 ug/L	8.74 ug/L	8.74 ug/L	*B	6.88 ug/L
Chloroform	3	8.74 ug/L	14.7 ug/L	14.7 ug/L	9.10 ug/L	2.42 ug/L
Dichlorobromomethane	3	0.796 ug/L	2.39 ug/L	2.39 ug/L	*B	*B
1,2,4-Trichlorobenzene	3	1.167 ug/L	3.5 ug/L	*B	*B	3.5 ug/L

*B = below method detection limit

Waste Load Allocation Summary

REQUEST INFORMATION

Request Number: 3390

From:	Stephanie Ammons	In Branch/Section	Municipal		
Date Submitted	1/20/2017	Date Required	2/19/2017	FUND Code	605
Date Permit application received by NPDES program	11/16/2016				
Receiving Waterbody	Chickasaw Creek				
Facility Name	Chickasaw Lagoon	(Name of Discharger-WQ will use to file)			
		Previous Discharger Name			
River Basin	Mobile Bay	Outfall Latitude	30.776770	(decimal degrees)	
*County	Mobile	Outfall Longitude	-88.064660	(decimal degrees)	
Permit Number	AL0020885	Permit Type	Permit Reissuance		
		Permit Status	Active		
		Type of Discharger	MUNICIPAL		

Do other discharges exist that may impact the model? ☑ Yes ☐ No

If yes, impacting dischargers names.	Stanley Brooks WWTP, Kimberly Clark, Shell Chemical LP	Impacting dischargers permit numbers.	Al0055204. AL0002801, AL0055859

Existing Discharge Design Flow	1.5	MGD
Proposed Discharge Design Flow	1.5	MGD

Note: The flow rates given should be those requested for modeling.

Comments included: ☐ Yes ☑ No

Information Verified By: JBR

Year File Was Created:

Response ID Number: 1596

Lat/Long Method: GPS

12 Digit HUC Code	031602040305		
Use Classification	LWF		
Site Visit Completed?	☑ ☐	Date of Site Visit	2/15/2017
Waterbody Impaired?	☑ ☐	Date of WLA Response	7/27/2018
Antidegradation	☐ Yes ☑ No	Approved TMDL?	☐ ☑
Waterbody Tier Level	Tier I		
Use Support Category	5	Approval Date of TMDL	

Waste Load Allocation Information

Modeled Reach Length		Miles	Date of Allocation	5/11/2018	
Name of Model Used	WASP		Allocation Type	Annual	
Model Completed by	JBR		Type of Model Used	Calibrated	
Allocation Developed by	Water Quality Branch				

Waste Load Allocation Summary

Annual Effluent Limits		
Qw	1.5	MGD
CBOD5	25	mg/L
NH3-N	20	mg/L
TKN		
D.O.	6	mg/L

Conventional Parameters				Other Parameters			
Qw	MGD	Qw	MGD	Qw	MGD	Qw	MGD
Season		Season		Season		Season	
From		From		From		From	
Through		Through		Through		Through	
CBOD5		CBOD5		TP		TP	
NH3-N		NH3-N		TN		TN	
TKN		TKN		TSS		TSS	
D.O.		D.O.					

Annual/Summer NH3-N toxicity based?

Winter NH3-N toxicity based?

"Monitor Only" Parameters for Effluent:	Parameter	Frequency	Parameter	Frequency
	TP	Monthly		
	NO2+NO3-N	Monthly		
	TKN	Monthly		

Water Quality Characteristics Immediately Upstream of Discharge

Parameter	Summer		Winter	
CBODu		mg/l		mg/l
NH3-N		mg/l		mg/l
Temperature		°C		°C
pH		su		su

Hydrology at Discharge Location

Drainage Area Qualifier			Method Used to Calculate
Exact	Drainage Area	sq mi	
	Stream 7Q10	cfs	Coastal Area
	Stream 1Q10	cfs	Coastal Area
	Stream 7Q2	cfs	Coastal Area
	Annual Average	cfs	Coastal Area

Comments and/or Notations

Mixing Zone Analysis Summary

REQUEST INFORMATION

request number: 3390

From: (Responsible Engineer) Stephanie Ammons | In Branch/Section: Municipal

Date Submitted: 1/20/2017 | **Date Required:** 2/19/2017 | **FUND Code:** 605

Date Permit application received by NPDES program: 11/16/2016

Receiving Waterbody: Chickasaw Creek

Previous Stream Name:

Facility Name: Chickasaw Lagoon (Name of Discharger-WQ will use to file)

Previous Discharger Name:

River Basin: Mobile Bay | **Outfall Latitude:** 30.776770 (decimal degrees)

***County:** Mobile | **Outfall Longitude:** -88.064660 (decimal degrees)

Permit Number: AL0020885 | **Permit Type:** Permit Reissuance

Permit Status: Active

Type of Discharger: MUNICIPAL

Do other discharges exist that may impact the model? ☑ Yes ☐ No

If yes, impacting dischargers names.	Impacting dischargers permit numbers.
Stanley Brooks WWTP, Kimberly Clark, Shell Chemical LP	Al0055204. AL0002801, AL0055859

Existing Discharge Design Flow	1.5	MGD
Proposed Discharge Design Flow	1.5	MGD

Note: The flow rates given should be those requested for modeling.

Seasonal limits requested? ☐ Yes ☑ No

If not seasonal, only the summer sections will be used

Comments included ☐ Yes ☑ No

Information Verified By: JBR

Year File Was Started: 2018

Response ID: 201

12 Digit HUC Code: 031602040305

Date of MZ Response: 7/27/2018

Use Classification: LWF

Site Visit Completed? ☑ Yes ☐ No

Date of Site Visit: 2/15/2017

Hydrology			Method Used to Calculate
Drainage Area		sq mi	
Stream 7Q10		cfs	Coastal Area
Stream 1Q10		cfs	Coastal Area
Stream 7Q2		cfs	Coastal Area
Annual Average		cfs	Coastal Area

Date of MZ Analysis: 5/11/2018

Model Completed by: JBR

Pollutant Category

Whole Effluent Toxicity (WET) ☑ **Thermal** ☐ **Pathogens** ☐

Mixing Zone Analysis Summary

WET Parameters

Summer

Acute

Ambient Streamflow		cfs
ZID Length	5.7	Meters
ZID IWC	48.7	%

Chronic

Ambient Streamflow		cfs
Mixing Zone Length	57	Meters
Mixing Zone IWC	5.54	%

Winter

Acute

Ambient Streamflow		cfs
ZID Length	5.7	Meters
ZID IWC		%

Chronic

Ambient Streamflow		cfs
Mixing Zone Length	57	Meters
Mixing Zone IWC		%

Thermal Parameters

Summer

Ambient Streamflow		cfs
Mixing Zone Length		Meters
Max. Effluent Temp		°C

Winter

Ambient Streamflow		cfs
Mixing Zone Length		Meters
Max. Effluent Temp		°C

Pathogen Parameters

Summer

Ambient Streamflow		cfs
ZID Length		Meters
Max. Effluent Fecal Conc		Cols/100 mls
Max. Effluent E. coli Conc		Cols/100 mls
Monthly Average Effluent E. coli Conc		Cols/100 mls
Max. Effluent Enterococci Conc (for coastal waters)		Cols/100 mls

Winter

Ambient Streamflow		cfs
ZID Length		Meters
Max. Effluent Fecal Conc		Cols/100 mls
Max. Effluent E. coli Conc		Cols/100 mls
Monthly Average Effluent E. coli Conc		Cols/100 mls
Max. Effluent Enterococci Conc (for coastal waters)		Cols/100 mls

Comments and/or Notations

Kimley»Horn

April 3, 2024

Alabama Department of Environmental Management
Attn: Stephanie Ammons
1400 Coliseum Blvd
Montgomery, AL 36100-2400
Ph. 334.271.4151

RE: *NPDES Permit No. AL0020885, Chickasaw Lagoon – 2024 Permit Application*

Dear Ms. Ammons:

On the behalf of the Utilities Board of the City of Chickasaw (Board), please accept this letter and attachments as the submittal for the above referenced 2024 NPDES permit application.

Due to the nature of the Chickasaw lagoon treatment system site, there is no direct stormwater discharge location. Therefore, Form 2F does not appear to be applicable.

Due to the nature of the Chickasaw Lagoon treatment system, sludge is not removed on an annual basis. The lagoons were constructed in the mid 1960's and have only been dredged once since that time. The lagoons were dredged in 2007 and all sludge was disposed of at an approved landfill facility. It is not anticipated that any sludge will be removed from the lagoons for another 20 years or approximately 2044.

If you have any questions or wish to discuss in more detail, please contact me at (251) 751-2527 or chuck.starling@kimley-horn.com.

Sincerely,

Charles H. Starling III, P.E., BCEE
Project Manager

Cc: Barry Broadhead, City of Chickasaw Mayor

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ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM)
NPDES INDIVIDUAL PERMIT APPLICATION
SUPPLEMENTARY INFORMATION FOR PUBLICLY-OWNED TREATMENT WORKS (POTW), OTHER TREATMENT WORKS TREATING DOMESTIC SEWAGE (TWTDS), AND PUBLIC WATER SUPPLY TREATMENT PLANTS

Instructions: This form should be used to submit the required supplementary information for an application for an NPDES individual permit for Publicly Owned Treatment Works (POTW) and other Treatment Works Treating Domestic Sewage (TWTDS). The completed application should be submitted to ADEM in duplicate. If insufficient space is available to address any item, please continue on an attached sheet of paper. Please mark "N/A" in the appropriate box when an item is not applicable to the applicant. **Please type or print legibly in blue or black ink.** Mail the completed application to:

ADEM-Water Division
Municipal Section
P O Box 301463
Montgomery, AL 36130-1463

PURPOSE OF THIS APPLICATION

- ☐ Initial Permit Application for New Facility*
- ☐ Initial Permit Application for Existing Facility*
- ☐ Modification of Existing Permit
- ■ Reissuance of Existing Permit
- ☐ Revocation & Reissuance of Existing Permit

* *An application for participation in the ADEM's Electronic Environmental (E2) Reporting must be submitted to allow permittee to electronically submit reports as required.*

SECTION A – GENERAL INFORMATION

1. Facility Name: Chickasaw Lagoon Facility County: Mobile

   a. Operator Name: Utilities Board of the City of Chickasaw

   b. Is the operator identified in A.1.a, the owner of the facility? ☒ Yes ☐ No

   If No, provide the following information:

   Operator Name: Billy Saranthus

   Operator Address (Street or PO Box): PO Box 11307

   City: Chickasaw Alabama Zip: 36671

   Phone Number: 251.463.9189 Email Address: publicworks@cityofchickasaw.org

   Operator Status:

   ☐ Public-federal ☐ Public-state ☒ Public-other (please specify): Municipal
   ☐ Private ☐ Other (please specify):

   Describe the operator's scope of responsibility for the facility:

   c. Name of Permittee* if different than Operator:

   **Permittee will be responsible for compliance with the conditions of the permit*

2. NPDES Permit Number: AL0020885 (Not applicable if initial permit application)

3. Facility Location (Front Gate): Latitude: 30deg 46min 18.44sec N Longitude: 88deg 04min 14.52sec W

4. Responsible Official (as described on last page of this application):

   Name and Title: Tyran Colvin - Mayor

   Address: PO Box 11307

   City: Chickasaw State: Alabama Zip: 36671

   Phone Number: 251.452.6450 Email Address: mayor@cityofchickasaw.org

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5. Designated Facility/DMR Contact:

Name: Billy Saranthus Title: Operator

Phone Number: 251.463.9189 Email Address: publicworks@cityofchickasaw.org

6. Designated Emergency Contact:

Name: Billy Saranthus Title: Operator

Phone Number: 251.463.9189 Email Address: publicworks@cityofchickasaw.org

7. Please complete this section if the Applicant's business entity is a Proprietorship or Limited Liability Company (LLC) with a responsible official not listed in A.4.

Name: _____ Title: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone Number: _____ Email Address: _____

8. Identify all Administrative Complaints, Notices of Violation, Directives, or Administrative Orders, Consent Decrees, or Litigation concerning water pollution or other permit violations, if any against the Applicant within the State of Alabama in the past five years (attach additional sheets if necessary):

Facility Name	Permit Number	Type of Action	Date of Action
Chickasaw Lagoon	AL0020885	Notice of Violation	3-11-2023
Chickasaw Lagoon	AL0020885	Notice of Violation	7-28-2023
Chickasaw Lagoon	AL0020885	Notice of Violation - Inspection Letter	2-25-2024

SECTION B – WASTEWATER DISCHARGE INFORMATION

1. Attach a process flow schematic of the treatment process, including the size of each unit operation and sample collection locations.

2. Do you share an outfall with another facility? ☐ Yes ☒ No (If no, continue to B.3)

For each shared outfall, provide the following:

Applicant's Outfall No.	Name of Other Permittee/Facility	NPDES Permit No.	Where is sample collected by Applicant?

3. Do you have, or plan to have, automatic sampling equipment or continuous wastewater flow metering equipment at this facility?

Current:	Flow Metering	☒ Yes	☐ No	☐ N/A
	Sampling Equipment	☐ Yes	☒ No	☐ N/A
Planned:	Flow Metering	☐ Yes	☒ No	☐ N/A
	Sampling Equipment	☐ Yes	☒ No	☐ N/A

If so, please attach a schematic diagram of the sewer system indicating the present or future location of this equipment and describe the equipment below:

Attached is a site map with location of existing flow meter post disinfection.

4. Are any wastewater collection or treatment modifications or expansions planned during the next three years that could alter wastewater volumes or characteristics (Note: Permit Modification may be required)? ☒ Yes ☐ No

If Yes, briefly describe these changes and any potential or anticipated effects on the wastewater quality and quantity: (Attach additional sheets if needed.)

Planned rehabilitation to the existing collection system. Planned rehabilitation will be for areas identified as funding is available.

SECTION C – WASTE STORAGE AND DISPOSAL INFORMATION

Describe the location of all sites used for the storage of solids or liquids that have any potential for accidental discharge to a water of the state, either directly or indirectly via storm sewer, municipal sewer, municipal wastewater treatment plants, or other collection or distribution systems that are located at or operated by the subject existing or proposed NPDES- permitted facility. Indicate the location of any potential release areas and provide a map or detailed narrative description of the areas of concern as an attachment to this application:

Description of Waste	Description of Storage Location
NA	NA

***Indicate any wastes disposed at an off-site treatment facility and any wastes that are disposed on-site**

SECTION D – INDUSTRIAL INDIRECT DISCHARGE CONTRIBUTORS

1. List the existing and proposed industrial source wastewater contributions to the municipal wastewater treatment system (Attach other sheets if necessary)

Company Name	Description of Industrial Wastewater	Existing or Proposed	Flow (MGD)	Subject to SID Permit?
N/A	N/A	N/A	N/A	☐ Yes ☐ No
N/A	N/A	N/A	N/A	☐ Yes ☐ No
N/A	N/A	N/A	N/A	☐ Yes ☐ No
N/A	N/A	N/A	N/A	☐ Yes ☐ No
N/A	N/A	N/A	N/A	☐ Yes ☐ No
N/A	N/A	N/A	N/A	☐ Yes ☐ No
N/A	N/A	N/A	N/A	☐ Yes ☐ No
N/A	N/A	N/A	N/A	☐ Yes ☐ No
N/A	N/A	N/A	N/A	☐ Yes ☐ No

2. Are industrial wastewater contributions regulated via a locally approved sewer use ordinance? ☐ Yes ■ No

If yes, please attach a copy of the ordinance.

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SECTION E – COASTAL ZONE INFORMATION

Is the discharge(s) located within the 10-foot elevation contour and within the limits of Mobile or Baldwin County? ☒ Yes ☐ No

If yes, complete items E.1 – E.12 below:

		Yes	No
1.	Does the project require new construction?	☐	☒
2.	Will the project be a source of new air emissions?	☐	☒
3.	Does the project involve dredging and/or filling of a wetland area or water way?	☐	☒
	If Yes, has the Corps of Engineers (COE) permit been received?	☐	☒
	COE Project No. _____		
4.	Does the project involve wetlands and/or submersed grassbeds?	☐	☒
5.	Are oyster reefs located near the project site?	☐	☒
	If Yes, include a map showing project and discharge location with respect to oyster reefs		
6.	Does the project involve the site developement, construction and operation of an energy facility as defined in ADEM Admin. Code r. 335-8-1-.02(bb)?	☐	☒
7.	Does the project involve mitigation of shoreline or coastal area erosion?	☐	☒
8.	Does the project involve construction on beaches or dune areas?	☐	☒
9.	Will the project interfere with public access to coastal waters?	☐	☒
10.	Does the project lie within the 100-year floodplain?	☒	☐
11.	Does the project involve the registration, sale, use, or application of pesticides?	☐	☒
12.	Does the project propose or require construction of a new well or to alter an existing groundwater well to pump more than 50 gallons per day (GPD)?	☐	☒
	If yes, has the applicable permit for groundwater recovery or for groundwater well installation been obtained?	☐	☒

SECTION F – ANTI-DEGRADATION EVALUATION

In accordance with 40 CFR §131.12 and the ADEM Admin. Code r. 335-6-10-.04 for anti-degradation, the following information must be provided, if applicable. It is the applicant's responsibility to demonstrate the social and economic importance of the proposed activity. If further information is required to make this demonstration, attach additional sheets to the application.

1. Is this a new or increased discharge that began after April 3, 1991? ☐ Yes ■ No
   If yes, complete F.2 below. If no, go to Section G.

2. Has an Anti-Degradation Analysis been previously conducted and submitted to the Department for the new or increased discharge referenced in F.1? ☐ Yes ■ No

   If yes, do not complete this section.

   If no and the discharge is to a Tier II waterbody as defined in ADEM Admin. Code r. 335-6-10-.12(4), complete F.2.A – F.2.F below, ADEM Form 311-Alternatives Analysis, and either ADEM Form 312 or ADEM Form 313- Calculation of Total Annualized Project Costs (Public-Sector or Private-Sector Projects, whichever is applicable). ADEM Form 312 or ADEM Form 313, whichever is applicable, must be provided for **each** treatment discharge alternative considered technically viable. ADEM forms can be found on the Department's website at http://adem.alabama.gov/DeptForms/.

   Information required for new or increased discharges to high quality waters:

   A. What environmental or public health problem will the discharger be correcting?

   NA

B. How much will the discharger be increasing employment (at its existing facility or as the result of locating a new facility)?

NA

C. How much reduction in employment will the discharger be avoiding?

NA

D. How much additional state or local taxes will the discharger be paying?

NA

E. What public service to the community will the discharger be providing?

NA

F. What economic or social benefit will the discharger be providing to the community?

NA

SECTION G – EPA Application Forms

All Applicants must submit certain EPA permit application forms. More than one application form may be required from a POTW or other TWTDS depending on the number and types of discharges or outfalls. The EPA application forms are found on the Department's website at http://adem.alabama.gov/programs/water/waterforms.cnt. The EPA application forms must be submitted in duplicate as follows:

1. Applicants for new or existing discharges of sanitary wastewater from Publicly-Owned Treatment Works (POTW) and Other Treatment Works Treating Domestic Sewage (TWTDS) must submit Form 2A. If the facility design capacity is equal to or greater than 1 MGD, Form 2F is also required.
2. Applicants for new or existing land application of sanitary wastewater must submit Form 2A and Form 2F.
3. Applicants for new and existing discharges of process wastewater from water treatment facilities (i.e. public water supply treatment plants) must submit Form 1 and Form 2C.
4. Applicants that generate sewage sludge, derive a material from sewage sludge, or dispose of sewage sludge must submit Part 2 of Form 2S.

SECTION H– ENGINEERING REPORT/BMP PLAN REQUIREMENTS

See ADEM 335-6-6-.08(i) & (j).

SECTION I– RECEIVING WATERS

Outfall No.	Receiving Water(s)	303(d) Segment?	Included in TMDL?*
001	Chickasaw Creek	■ Yes ☐ No	☐ Yes ■ No
		☐ Yes ☐ No	☐ Yes ☐ No
		☐ Yes ☐ No	☐ Yes ☐ No

*If a TMDL Compliance Schedule is requested, the following should be attached as supporting documentation:

(1) Justification for the requested Compliance Schedule (e.g. time for design and installation of control equipment, etc.);

(2) Monitoring results for the pollutant(s) of concern which have not previously been submitted to the Department (sample collection dates, analytical results (mass and concentration), methods utilized, MDL/ML, etc. should be submitted as available);

(3) Requested interim limitations, if applicable;

(4) Date of final compliance with the TMDL limitations; and,

(5) Any other additional information available to support requested compliance schedule.

SECTION J – APPLICATION CERTIFICATION

The information contained in this form must be certified by a responsible official as defined in ADEM Administrative Code r. 335-6-6-.09 "signatories to permit applications and reports" (see below).

"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 fine and imprisonment for knowing violations."

Signature of Responsible Official: Tyran Colvin Date Signed: 12-16-25

Name: Tyran Colvin Title: Mayor

If the Responsible Official signing this application is <u>not</u> identified in Section A.4 or A.7, provide the following information:

Mailing Address: PO Box 11307

City: Chickasaw State: Alabama Zip: 36671

Phone Number: 251.452.6450 Email Address: mayor@cityofchickasaw.org

335-6-6-.09 SIGNATORIES TO PERMIT APPLICATIONS AND REPORTS.

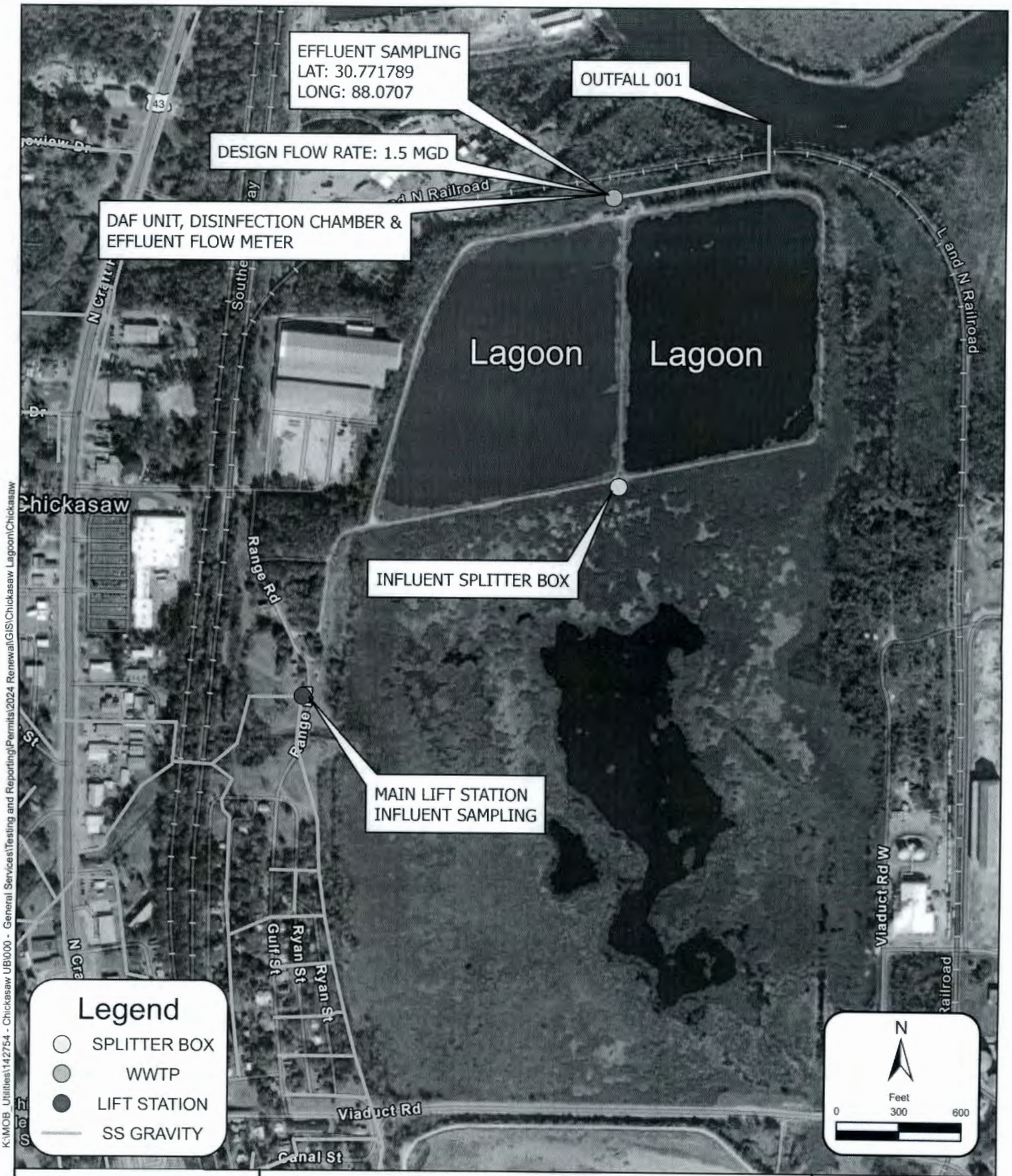
(1) The application for an NPDES permit shall be signed by a responsible official, as indicated below:

(a) In the case of a corporation, by a principal executive officer of at least the level of vice president, or a manager assigned or delegated in accordance with corporate procedures, with such delegation submitted in writing if required by the Department, who is responsible for manufacturing, production, or operating facilities and is authorized to make management decisions which govern the operation of the regulated facility;

(b) In the case of a partnership, by a general partner;

(c) In the case of a sole proprietorship, by the proprietor; or

(d) In the case of a municipal, state, federal, or other public entity, by either a principal executive officer, or ranking elected official.



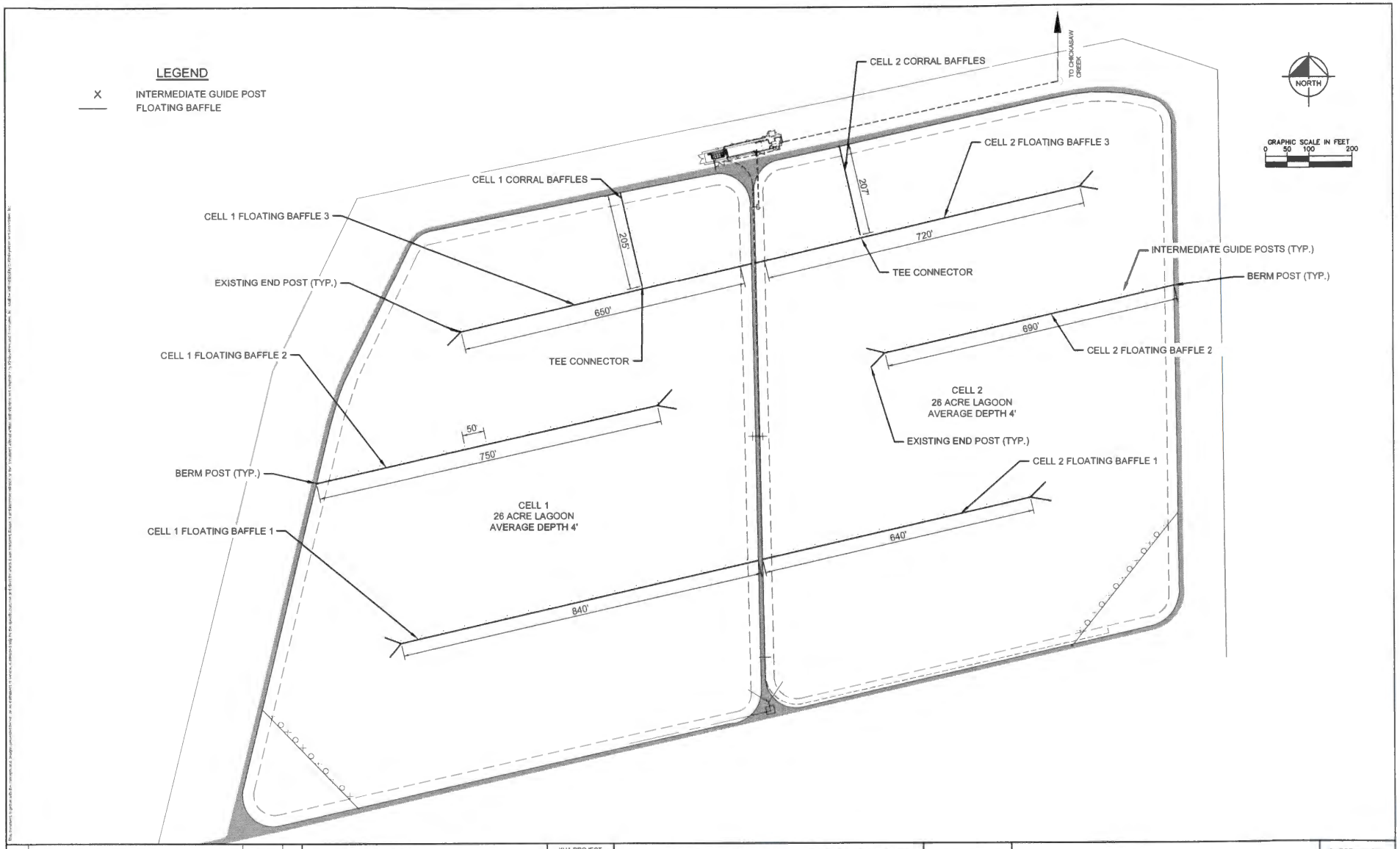
K:\MOB_Utilities\142754 - Chickasaw UB\000 - General Services\Testing and Reporting\Permits\2024 Renewal\GIS\Chickasaw Lagoon\Chickasaw

Kimley»Horn
© 2025 Kimley-Horn and Associates, Inc.
11 North Water Street
RSA Battle House Tower, Suite 9290
Mobile AL 36602
Phone: (251) 263-8350
www.kimley-horn.com CA 00000511

Permit No. AL 0020885

CHICKASAW LAGOON

Project No.: 142783000	December 2025	Figure 1



No.	REVISIONS	DATE	BY

Kimley»Horn

© 2025 KIMLEY-HORN AND ASSOCIATES, INC.
11 N. WATER STREET, RSA BATTLE HOUSE TOWER, SUITE 9280 MOBILE, AL 36602
PHONE: (251) 751-2827
WWW.KIMLEY-HORN.COM CA 00000611

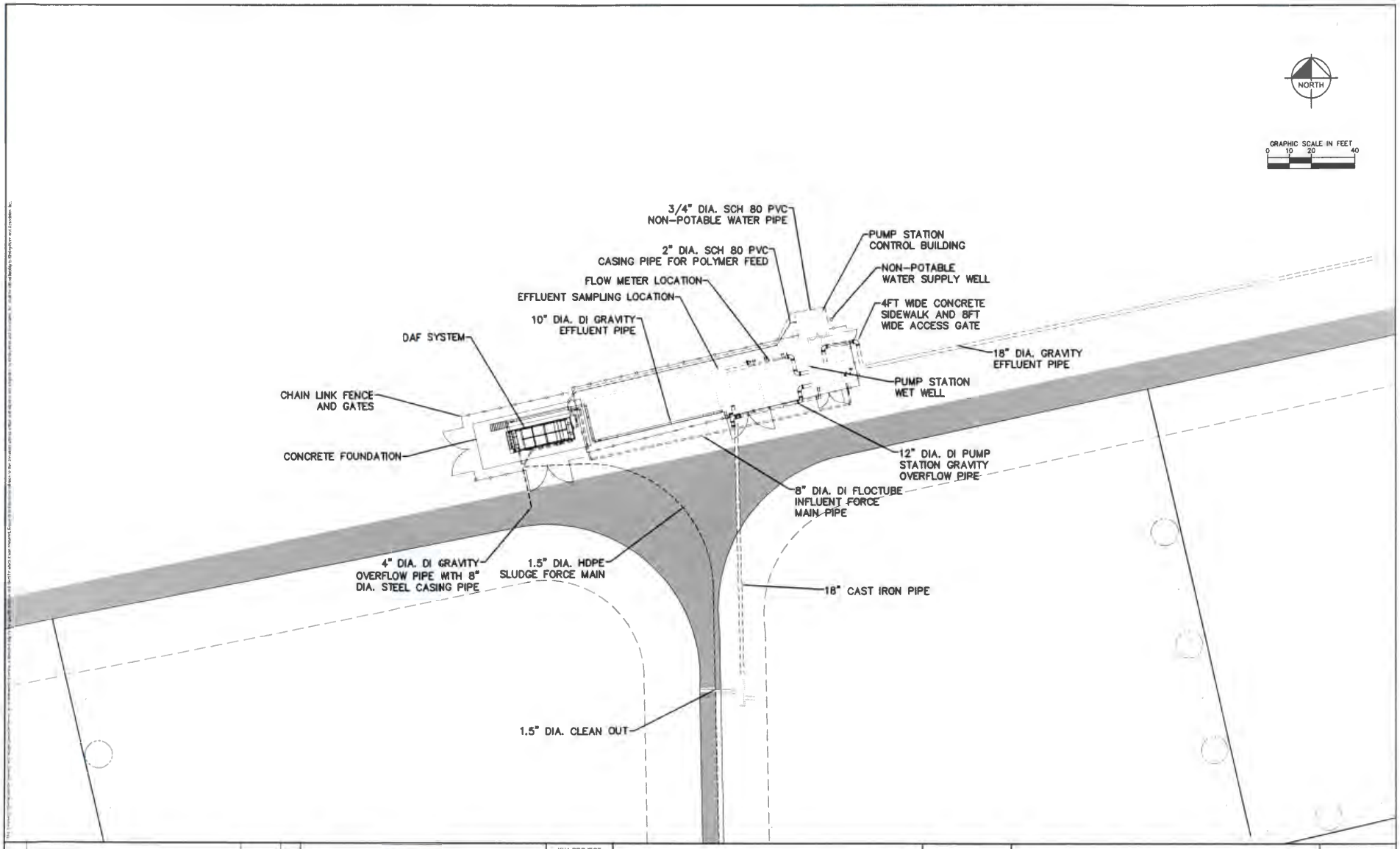
KHA PROJECT	142754000
DATE	DECEMBER 2025
SCALE:	AS SHOWN
DESIGNED BY:	BAJ
DRAWN BY:	BCS
CHECKED BY:	CHS

UTILITIES BOARD OF THE CITY OF CHICKASAW
CHICKASAW LAGOON
DAF SYSTEM
PREPARED FOR
CITY OF CHICKASAW
MOBILE COUNTY ALABAMA

PRELIMINARY
NOT FOR CONSTRUCTION, RECORDING, OR IMPLEMENTATION PURPOSES

CHICKASAW LAGOON
AL 0020885
PERMIT RENEWAL
SCALE AS NOTED

SHEET NUMBER
E-1



No.	REVISIONS	DATE	BY

Kimley»Horn

© 2025 KIMLEY-HORN AND ASSOCIATES, INC.
11 N. WATER STREET, RSA BATTLE HOUSE TOWER, SUITE 9260 MOBILE, AL 36602
PHONE: (251) 751-2827
WWW.KIMLEY-HORN.COM CA 00000511

KHA PROJECT	142754000
DATE	DECEMBER 2025
SCALE:	AS SHOWN
DESIGNED BY:	BAJ
DRAWN BY:	BCS
CHECKED BY:	CHS

UTILITIES BOARD OF THE CITY OF CHICKASAW
CHICKASAW LAGOON
DAF SYSTEM
PREPARED FOR
CITY OF CHICKASAW
MOBILE COUNTY ALABAMA

PRELIMINARY
NOT FOR CONSTRUCTION, RECORDING, OR IMPLEMENTATION PURPOSES

CHICKASAW LAGOON
AL 0020885
PERMIT RENEWAL
SCALE AS NOTED

SHEET NUMBER
E-2

Kimley»Horn

December 15, 2025

Alabama Department of Environmental Management
Attn: Stephanie Ammons
1400 Coliseum Blvd
Montgomery, AL 36100-2400
Ph. 334.271.4151

RE: *NPDES Permit No. AL0020885, Chickasaw Lagoon – 2024 Permit Application*

Dear Ms. Ammons:

On the behalf of the Utilities Board of the City of Chickasaw (Board), please accept this letter and attachments as the re-submittal for the above referenced 2024 NPDES permit application.

Due to the nature of the Chickasaw lagoon treatment system site, there is no direct stormwater discharge location. The city of Chickasaw has a separate Lagoon for stormwater conveyance. Therefore, Form 2F does not appear to be applicable.

Due to the nature of the Chickasaw Lagoon treatment system, sludge is not removed on an annual basis. The lagoons were constructed in the mid 1960's and have only been dredged once since that time. The lagoons were dredged in 2007 and all sludge was disposed of at an approved landfill facility. It is not anticipated that any sludge will be removed from the lagoons for another 20 years or approximately 2044.

The following items have been updated per the comments received from ADEM:

EPA Form 2A:
Q1: Top of page – Include the EPA ID number on the top, left part of the form.
RESPONSE 1: The EPA number has been added to the top left part of the form.
Q2: Page 9, Question 4.1 – ADEM records indicate that the SID permit has been terminated.
RESPONSE 2: Page 9, the reference to the SID permit has been removed.
Q3: Page 17 – Table C is blank – complete and submit the lab data that is used to complete the chart.
RESPONSE 3: Page 17, Table C has been completed.

EPA Form 2S:
Q1: Top of page – Include the EPA ID number on the top, left part of the form.
RESPONSE 1: The EPA number has been added to the top left part of the form.
Q2: Page 1, check the "Yes" box at the top of the page and complete Part 2 of the application beginning on page 7
RESPONSE 2: Page 1, The box "Yes" has been checked.
Q3: Page 7,8,9, -blank. Please complete.
RESPONSE 3: Page 7, 8, and 9 have been completed.

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WATER DIVISION

ADEM Form 188:
Q1: Page 3, Section D – Please review. The Department's records indicate that the SID permit for Gulf Atlantic has been terminated.
RESPONSE 1: The reference to the SID Permit has been removed.
Q2: Process flow diagrams – Form 188 included 2 site schematics/process diagrams. Please increase the font size. It is difficult to read at the current scale. Please also label the influent and effluent sampling locations and include the design capacity of the facility on the diagram.
Topo map – Please include the GPS location of the effluent sampling location on the map.
RESPONSE 2: The Process Flow Diagrams have been updated.

If you have any questions or wish to discuss in more detail, please contact me at (251) 751-2527 or chuck.starling@kimley-horn.com.

Sincerely,

Charles H. Starling III, P.E., BCEE
Project Manager

Cc: Tyran Colvin, City of Chickasaw Mayor

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
110006644471	AL0020885	CHICKASAW LAGOON	

Form 2A NPDES

EPA

U.S. Environmental Protection Agency
Application for NPDES Permit to Discharge Wastewater
NEW AND EXISTING PUBLICLY OWNED TREATMENT WORKS

SECTION 1. BASIC APPLICATION INFORMATION FOR ALL APPLICANTS (40 CFR 122.21(j)(1) and (9))

Facility Information

1.1

Facility name
CHICKASAW LAGOON

Mailing address (street or P.O. box)
POST OFFICE BOX 11307

City or town	State	ZIP code
CHICKASAW	AL	36671

Contact name (first and last)	Title	Phone number	Email address
TYRAN COLVIN	MAYOR	(251) 452-6450	mayor@cityofchickasaw.org

Location address (street, route number, or other specific identifier) ☐ Same as mailing address
GULF STREET ALLEY

City or town	State	ZIP code
CHICKASAW	AL	36611

1.2 Is this application for a facility that has yet to commence discharge?

☐ Yes ➔ See instructions on data submission requirements for new dischargers. ☑ No

Applicant Information

1.3 Is applicant different from entity listed under Item 1.1 above?

☑ Yes ☐ No ➔ SKIP to Item 1.4.

Applicant name
UTILITIES BOARD OF THE CITY OF CHICKASAW

Applicant address (street or P.O. box)
POST OFFICE BOX 11307

City or town	State	ZIP code
CHICKASAW,	AL	36671

Contact name (first and last)	Title	Phone number	Email address
TYRAN COLVIN	MAYOR	(251) 452-6450	mayor@cityofchickasw.org

1.4 Is the applicant the facility's owner, operator, or both? (Check only one response.)

☐ Owner ☐ Operator ☑ Both

1.5 To which entity should the NPDES permitting authority send correspondence? (Check only one response.)

☐ Facility ☐ Applicant ☑ Facility and applicant (they are one and the same)

Existing Environmental Permits

1.6 Indicate below any existing environmental permits. (Check all that apply and print or type the corresponding permit number for each.)

Existing Environmental Permits

☑ NPDES (discharges to surface water) AL0020885	☐ RCRA (hazardous waste)	☐ UIC (underground injection control)
☐ PSD (air emissions)	☐ Nonattainment program (CAA)	☐ NESHAPs (CAA)
☐ Ocean dumping (MPRSA)	☐ Dredge or fill (CWA Section 404)	☐ Other (specify)

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EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
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Collection System and Population Served

1.7 Provide the collection system information requested below for the treatment works.

Municipality Served	Population Served	Collection System Type (indicate percentage)	Ownership Status
CITY OF CHICKASAW	6,400	100 % separate sanitary sewer	☑ Own ☑ Maintain
		____ % combined storm and sanitary sewer	☐ Own ☐ Maintain
		☐ Unknown	☐ Own ☐ Maintain
		____ % separate sanitary sewer	☐ Own ☐ Maintain
		____ % combined storm and sanitary sewer	☐ Own ☐ Maintain
		☐ Unknown	☐ Own ☐ Maintain
		____ % separate sanitary sewer	☐ Own ☐ Maintain
		____ % combined storm and sanitary sewer	☐ Own ☐ Maintain
		☐ Unknown	☐ Own ☐ Maintain
		____ % separate sanitary sewer	☐ Own ☐ Maintain
		____ % combined storm and sanitary sewer	☐ Own ☐ Maintain
		☐ Unknown	☐ Own ☐ Maintain
Total Population Served	6,400		

Total percentage of each type of sewer line (in miles)	Separate Sanitary Sewer System	Combined Storm and Sanitary Sewer
	100 %	0 %

Indian Country

1.8 Is the treatment works located in Indian Country?

☐ Yes ☑ No

1.9 Does the facility discharge to a receiving water that flows through Indian Country?

☐ Yes ☑ No

Design and Actual Flow Rates

1.10 Provide design *and* actual flow rates in the designated spaces.

Design Flow Rate
1.5 mgd

Annual Average Flow Rates (Actual)		
Two Years Ago	Last Year	This Year
0.8 mgd	0.7 mgd	0.7 mgd

Maximum Daily Flow Rates (Actual)		
Two Years Ago	Last Year	This Year
1.0 mgd	1.0 mgd	0.7 mgd

Discharge Points by Type

1.11 Provide the total number of effluent discharge points to waters of the United States by type.

Total Number of Effluent Discharge Points by Type				
Treated Effluent	Untreated Effluent	Combined Sewer Overflows	Bypasses	Constructed Emergency Overflows
1				

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Outfalls and Other Discharge or Disposal Methods

Outfalls Other Than to Waters of the United States

1.12 Does the POTW discharge wastewater to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the United States?

☐ Yes ☑ No → SKIP to Item 1.14.

1.13 Provide the location of each surface impoundment and associated discharge information in the table below.

Surface Impoundment Location and Discharge Data

Location	Average Daily Volume Discharged to Surface Impoundment	Continuous or Intermittent (check one)
	gpd	☐ Continuous ☐ Intermittent
	gpd	☐ Continuous ☐ Intermittent
	gpd	☐ Continuous ☐ Intermittent

1.14 Is wastewater applied to land?

☐ Yes ☑ No → SKIP to Item 1.16.

1.15 Provide the land application site and discharge data requested below.

Land Application Site and Discharge Data

Location	Size	Average Daily Volume Applied	Continuous or Intermittent (check one)
	acres	gpd	☐ Continuous ☐ Intermittent
	acres	gpd	☐ Continuous ☐ Intermittent
	acres	gpd	☐ Continuous ☐ Intermittent

1.16 Is effluent transported to another facility for treatment prior to discharge?

☐ Yes ☑ No → SKIP to Item 1.21.

1.17 Describe the means by which the effluent is transported (e.g., tank truck, pipe).

1.18 Is the effluent transported by a party other than the applicant?

☐ Yes ☐ No → SKIP to Item 1.20.

1.19 Provide information on the transporter below.

Transporter Data

Entity name	Mailing address (street or P.O. box)	
City or town	State	ZIP code
Contact name (first and last)	Title	
Phone number	Email address	

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Outfalls and Other Discharge or Disposal Methods Continued

1.20 In the table below, indicate the name, address, contact information, NPDES number, and average daily flow rate of the receiving facility.

Receiving Facility Data

Facility name	Mailing address (street or P.O. box)	
City or town	State	ZIP code
Contact name (first and last)	Title	
Phone number	Email address	
NPDES number of receiving facility (if any) ☐ None	Average daily flow rate	mgd

1.21 Is the wastewater disposed of in a manner other than those already mentioned in Items 1.14 through 1.21 that do not have outlets to waters of the United States (e.g., underground percolation, underground injection)?

☐ Yes ☑ No ➔ SKIP to Item 1.23.

1.22 Provide information in the table below on these other disposal methods.

Information on Other Disposal Methods

Disposal Method Description	Location of Disposal Site	Size of Disposal Site	Annual Average Daily Discharge Volume	Continuous or Intermittent (check one)
		acres	gpd	☐ Continuous ☐ Intermittent
		acres	gpd	☐ Continuous ☐ Intermittent
		acres	gpd	☐ Continuous ☐ Intermittent

Variance Requests

1.23 Do you intend to request or renew one or more of the variances authorized at 40 CFR 122.21(n)? (Check all that apply. Consult with your NPDES permitting authority to determine what information needs to be submitted and when.)

☐ Discharges into marine waters (CWA Section 301(h))

☐ Water quality related effluent limitation (CWA Section 302(b)(2))

☑ Not applicable

Contractor Information

1.24 Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor?

☐ Yes ☑ No ➔SKIP to Section 2.

1.25 Provide location and contact information for each contractor in addition to a description of the contractor's operational and maintenance responsibilities.

Contractor Information

	Contractor 1	Contractor 2	Contractor 3
Contractor name (company name)			
Mailing address (street or P.O. box)			
City, state, and ZIP code			
Contact name (first and last)			
Phone number			
Email address			
Operational and maintenance responsibilities of contractor			

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SECTION 2. ADDITIONAL INFORMATION (40 CFR 122.21(j)(1) and (2))

Outfalls to Waters of the United States

Design Flow

2.1 Does the treatment works have a design flow greater than or equal to 0.1 mgd?

☑ Yes ☐ No ➔ SKIP to Section 3.

Inflow and Infiltration

2.2 Provide the treatment works' current average daily volume of inflow and infiltration.

Average Daily Volume of Inflow and Infiltration
80,000 gpd

Indicate the steps the facility is taking to minimize inflow and infiltration.

Implement collection system rehabilitation when funding is available.
The lagoon system is 52 acres, so for every 1-inch of rainfall, it equals to approximately 1.4 mg applied directly to the lagoon volume. Estimation of I/I is difficult to estimate due to the direct rainfall capture.

Topographic Map

2.3 Have you attached a topographic map to this application that contains all the required information? (See instructions for specific requirements.)

☑ Yes ☐ No

Flow Diagram

2.4 Have you attached a process flow diagram or schematic to this application that contains all the required information? (See instructions for specific requirements.)

☑ Yes ☐ No

Scheduled Improvements and Schedules of Implementation

2.5 Are improvements to the facility scheduled?

☐ Yes ☑ No ➔ SKIP to Section 3.

Briefly list and describe the scheduled improvements.

1.

2.

3.

4.

2.6 Provide scheduled or actual dates of completion for improvements.

Scheduled or Actual Dates of Completion for Improvements

Scheduled Improvement (from above)	Affected Outfalls (list outfall number)	Begin Construction (MM/DD/YYYY)	End Construction (MM/DD/YYYY)	Begin Discharge (MM/DD/YYYY)	Attainment of Operational Level (MM/DD/YYYY)
1.					
2.					
3.					
4.					

2.7 Have appropriate permits/clearances concerning other federal/state requirements been obtained? Briefly explain your response.

☐ Yes ☐ No ☐ None required or applicable

Explanation:

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SECTION 3. INFORMATION ON EFFLUENT DISCHARGES (40 CFR 122.21(j)(3) to (5))

Description of Outfalls

3.1 Provide the following information for each outfall. (Attach additional sheets if you have more than three outfalls.)

	Outfall Number 001	Outfall Number ____	Outfall Number ____
State	ALABAMA		
County	MOBILE		
City or town	CHICKASAW		
Distance from shore	est 20 ft.	ft.	ft.
Depth below surface	est 10 ft.	ft.	ft.
Average daily flow rate	0.8 mgd	mgd	mgd
Latitude	30° 46′ 37″	° ′ ″	° ′ ″
Longitude	88° 3′ 52″	° ′ ″	° ′ ″

Seasonal or Periodic Discharge Data

3.2 Do any of the outfalls described under Item 3.1 have seasonal or periodic discharges?

☐ Yes ☑ No → SKIP to Item 3.4.

3.3 If so, provide the following information for each applicable outfall.

	Outfall Number ____	Outfall Number ____	Outfall Number ____
Number of times per year discharge occurs			
Average duration of each discharge (specify units)			
Average flow of each discharge	mgd	mgd	mgd
Months in which discharge occurs			

Diffuser Type

3.4 Are any of the outfalls listed under Item 3.1 equipped with a diffuser?

☐ Yes ☑ No → SKIP to Item 3.6.

3.5 Briefly describe the diffuser type at each applicable outfall.

Outfall Number ____	Outfall Number ____	Outfall Number ____

Waters of the U.S.

3.6 Does the treatment works discharge or plan to discharge wastewater to waters of the United States from one or more discharge points?

☑ Yes ☐ No → SKIP to Section 6.

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Receiving Water Description

3.7 Provide the receiving water and related information (if known) for each outfall.

	Outfall Number 001	Outfall Number ____	Outfall Number ____
Receiving water name	CHICKASAW CREEK		
Name of watershed, river, or stream system	MOBILE-TENSAW		
U.S. Soil Conservation Service 14-digit watershed code	031602040505		
Name of state management/river basin	MOBILE RIVER		
U.S. Geological Survey 8-digit hydrologic cataloging unit code	03160204		
Critical low flow (acute)	cfs	cfs	cfs
Critical low flow (chronic)	cfs	cfs	cfs
Total hardness at critical low flow	mg/L of $CaCO_3$	mg/L of $CaCO_3$	mg/L of $CaCO_3$

Treatment Description

3.8 Provide the following information describing the treatment provided for discharges from each outfall.

	Outfall Number 001	Outfall Number ____	Outfall Number ____
Highest Level of Treatment (check all that apply per outfall)	☑ Primary ☐ Equivalent to secondary ☑ Secondary ☐ Advanced ☑ Other (specify) DISSOLVED AIR FLO	☐ Primary ☐ Equivalent to secondary ☐ Secondary ☐ Advanced ☐ Other (specify) ____	☐ Primary ☐ Equivalent to secondary ☐ Secondary ☐ Advanced ☐ Other (specify) ____
Design Removal Rates by Outfall			
BOD_5 or $CBOD_5$	85 %	%	%
TSS	65 %	%	%
Phosphorus	☑ Not applicable %	☐ Not applicable %	☐ Not applicable %
Nitrogen	☑ Not applicable %	☐ Not applicable %	☐ Not applicable %
Other (specify) ____	☑ Not applicable %	☐ Not applicable %	☐ Not applicable %

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Treatment Description Continued

3.9 Describe the type of disinfection used for the effluent from each outfall in the table below. If disinfection varies by season, describe below.

CHLORINE CONTACT CHAMBER FOR CHLORINATION. SULFUR DIOXIDE FOR DECHLORINATION.

	Outfall Number 001	Outfall Number _____	Outfall Number _____
Disinfection type	CHLORINE CONTACT CHAMBER		
Seasons used	ALL		
Dechlorination used?	☐ Not applicable ☑ Yes ☐ No	☐ Not applicable ☐ Yes ☐ No	☐ Not applicable ☐ Yes ☐ No

Effluent Testing Data

3.10 Have you completed monitoring for all Table A parameters and attached the results to the application package?

☑ Yes ☐ No

3.11 Have you conducted any WET tests during the 4.5 years prior to the date of the application on any of the facility's discharges or on any receiving water near the discharge points?

☑ Yes ☐ No → SKIP to Item 3.13.

3.12 Indicate the number of acute and chronic WET tests conducted since the last permit reissuance of the facility's discharges by outfall number or of the receiving water near the discharge points.

	Outfall Number 001		Outfall Number _____		Outfall Number _____	
	Acute	Chronic	Acute	Chronic	Acute	Chronic
Number of tests of discharge water		7				
Number of tests of receiving water		0				

3.13 Does the treatment works have a design flow greater than or equal to 0.1 mgd?

☑ Yes ☐ No → SKIP to Item 3.16.

3.14 Does the POTW use chlorine for disinfection, use chlorine elsewhere in the treatment process, or otherwise have reasonable potential to discharge chlorine in its effluent?

☑ Yes → Complete Table B, including chlorine. ☐ No → Complete Table B, omitting chlorine.

3.15 Have you completed monitoring for all applicable Table B pollutants and attached the results to this application package?

☑ Yes ☐ No

3.16 Does one or more of the following conditions apply?

- The facility has a design flow greater than or equal to 1 mgd.
- The POTW has an approved pretreatment program or is required to develop such a program.
- The NPDES permitting authority has informed the POTW that it must sample for the parameters in Table C, must sample other additional parameters (Table D), or submit the results of WET tests for acute or chronic toxicity for each of its discharge outfalls (Table E).

☑ Yes → Complete Tables C, D, and E as applicable. ☐ No → SKIP to Section 4.

3.17 Have you completed monitoring for all applicable Table C pollutants and attached the results to this application package?

☑ Yes ☐ No

3.18 Have you completed monitoring for all applicable Table D pollutants required by your NPDES permitting authority and attached the results to this application package?

☐ Yes ☑ No additional sampling required by NPDES permitting authority.

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Effluent Testing Data Continued

3.19	Has the POTW conducted either (1) minimum of four quarterly WET tests for one year preceding this permit application or (2) at least four annual WET tests in the past 4.5 years? ☑ Yes ☐ No ➔ Complete tests and Table E and SKIP to Item 3.26.
3.20	Have you previously submitted the results of the above tests to your NPDES permitting authority? ☑ Yes ☐ No ➔ Provide results in Table E and SKIP to Item 3.26.
3.21	Indicate the dates the data were submitted to your NPDES permitting authority and provide a summary of the results.

Date(s) Submitted (MM/DD/YYYY)	Summary of Results
11/15/2023	12/14/2023- Pass, 12/20/2023 - Pass, 2-01-2024 - Pass, 4/17/2024 - Pass, 7/18/2024 - Pass, 10/15/2024 - Pass, 12/10/2024 - Fail, 10/17/2024 - Pass, 3/11/2025 - Pass, 5/8/2025 - Fail, 6-12-2025 - Pass, 7/27/2025 - Pass, 2-26-2026 - Pass, 4/10/2026 - Pass See Complete Summary on Attachment A

3.22	Regardless of how you provided your WET testing data to the NPDES permitting authority, did any of the tests result in toxicity? ☑ Yes ☐ No ➔ SKIP to Item 3.26.
3.23	Describe the cause(s) of the toxicity: Subsequent testing indicated that the overfeeding of sulfur dioxide resulted in the failed testing. Adjustments were made to the sulfur dioxide feed rate which resulted in passing of the follow up testing.
3.24	Has the treatment works conducted a toxicity reduction evaluation? ☐ Yes ☑ No ➔ SKIP to Item 3.26.
3.25	Provide details of any toxicity reduction evaluations conducted.
3.26	Have you completed Table E for all applicable outfalls and attached the results to the application package? ☐ Yes ☑ Not applicable because previously submitted information to the NPDES permitting authority.

SECTION 4. INDUSTRIAL DISCHARGES AND HAZARDOUS WASTES (40 CFR 122.21(j)(6) and (7))

Industrial Discharges and Hazardous Wastes

4.1	Does the POTW receive discharges from SIUs or NSCIUs? ☐ Yes ☑ No ➔ SKIP to Item 4.7.
4.2	Indicate the number of SIUs and NSCIUs that discharge to the POTW.

Number of SIUs	Number of NSCIUs

4.3	Does the POTW have an approved pretreatment program? ☐ Yes ☐ No
4.4	Have you submitted either of the following to the NPDES permitting authority that contains information substantially identical to that required in Table F: (1) a pretreatment program annual report submitted within one year of the application or (2) a pretreatment program? ☐ Yes ☑ No ➔ SKIP to Item 4.6.
4.5	Identify the title and date of the annual report or pretreatment program referenced in Item 4.4. SKIP to Item 4.7.
4.6	Have you completed and attached Table F to this application package? ☐ Yes ☑ No

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Attachment A

EPA Form 2.A, Question 3.21

Chickasaw Lagoon Toxicity Testing			
Test Date	Cyprinodon Variegatus		Arbacia punctulata
	Survival	Growth	Fertilization
4/10/2026	-	-	Pass
2/26/2026	Pass	Pass	Pass
12/11/2025	NO DISCHARGE		
7/24/2025	-	-	Pass
6/12/2025	-	-	Pass
5/8/2025	-	-	Fail
3/11/2025	-	-	Pass
2/28/2025	LAB ERROR		
12/17/2024	Pass	Pass	-
12/10/2024	Pass	Pass	-
10/15/2024	Pass	Fail	Pass
7/18/2024	-	-	Pass
4/17/2024	-	-	Pass
2/1/2024	-	-	Pass
12/20/2023	-	-	Pass
12/14/2023	-	-	Pass

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Industrial Discharges and Hazardous Wastes Continued

4.7 Does the POTW receive, or has it been notified that it will receive, by truck, rail, or dedicated pipe, any wastes that are regulated as RCRA hazardous wastes pursuant to 40 CFR 261?

☐ Yes ☑ No ➔ SKIP to Item 4.9.

4.8 If yes, provide the following information:

Hazardous Waste Number	Waste Transport Method (check all that apply)	Annual Amount of Waste Received	Units
	☐ Truck ☐ Rail ☐ Dedicated pipe ☐ Other (specify) _____		
	☐ Truck ☐ Rail ☐ Dedicated pipe ☐ Other (specify) _____		
	☐ Truck ☐ Rail ☐ Dedicated pipe ☐ Other (specify) _____		

4.9 Does the POTW receive, or has it been notified that it will receive, wastewaters that originate from remedial activities, including those undertaken pursuant to CERCLA and Sections 3004(7) or 3008(h) of RCRA?

☐ Yes ☑ No ➔ SKIP to Section 5.

4.10 Does the POTW receive (or expect to receive) less than 15 kilograms per month of non-acute hazardous wastes as specified in 40 CFR 261.30(d) and 261.33(e)?

☐ Yes ➔ SKIP to Section 5. ☐ No

4.11 Have you reported the following information in an attachment to this application: identification and description of the site(s) or facility(ies) at which the wastewater originates; the identities of the wastewater's hazardous constituents; and the extent of treatment, if any, the wastewater receives or will receive before entering the POTW?

☐ Yes ☐ No

SECTION 5. COMBINED SEWER OVERFLOWS (40 CFR 122.21(j)(8))

CSO Map and Diagram

5.1 Does the treatment works have a combined sewer system?

☐ Yes ☑ No ➔ SKIP to Section 6.

5.2 Have you attached a CSO system map to this application? (See instructions for map requirements.)

☐ Yes ☐ No

5.3 Have you attached a CSO system diagram to this application? (See instructions for diagram requirements.)

☐ Yes ☐ No

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CSO Outfall Description

5.4 For each CSO outfall, provide the following information. (Attach additional sheets as necessary.)

	CSO Outfall Number ____	CSO Outfall Number ____	CSO Outfall Number ____
City or town			
State and ZIP code			
County			
Latitude	° ′ ″	° ′ ″	° ′ ″
Longitude	° ′ ″	° ′ ″	° ′ ″
Distance from shore	ft.	ft.	ft.
Depth below surface	ft.	ft.	ft.

CSO Monitoring

5.5 Did the POTW monitor any of the following items in the past year for its CSO outfalls?

	CSO Outfall Number ____	CSO Outfall Number ____	CSO Outfall Number ____
Rainfall	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
CSO flow volume	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
CSO pollutant concentrations	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Receiving water quality	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
CSO frequency	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Number of storm events	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No

CSO Events in Past Year

5.6 Provide the following information for each of your CSO outfalls.

	CSO Outfall Number ____	CSO Outfall Number ____	CSO Outfall Number ____
Number of CSO events in the past year	events	events	events
Average duration per event	hours ☐ Actual or ☐ Estimated	hours ☐ Actual or ☐ Estimated	hours ☐ Actual or ☐ Estimated
Average volume per event	million gallons ☐ Actual or ☐ Estimated	million gallons ☐ Actual or ☐ Estimated	million gallons ☐ Actual or ☐ Estimated
Minimum rainfall causing a CSO event in last year	inches of rainfall ☐ Actual or ☐ Estimated	inches of rainfall ☐ Actual or ☐ Estimated	inches of rainfall ☐ Actual or ☐ Estimated

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CSO Receiving Waters

5.7 Provide the information in the table below for each of your CSO outfalls.

	CSO Outfall Number ___	CSO Outfall Number ___	CSO Outfall Number ___
Receiving water name			
Name of watershed/ stream system			
U.S. Soil Conservation Service 14-digit watershed code (if known)	☐ Unknown	☐ Unknown	☐ Unknown
Name of state management/river basin			
U.S. Geological Survey 8-Digit Hydrologic Unit Code (if known)	☐ Unknown	☐ Unknown	☐ Unknown
Description of known water quality impacts on receiving stream by CSO (see instructions for examples)			

SECTION 6. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

Checklist and Certification Statement

6.1 In Column 1 below, mark the sections of Form 2A that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments.

Column 1	Column 2	
☑ Section 1: Basic Application Information for All Applicants	☐ w/ variance request(s)	☐ w/ additional attachments
☑ Section 2: Additional Information	☑ w/ topographic map ☐ w/ additional attachments	☑ w/ process flow diagram
☑ Section 3: Information on Effluent Discharges	☑ w/ Table A ☑ w/ Table B ☐ w/ Table C	☐ w/ Table D ☐ w/ Table E ☐ w/ additional attachments
☑ Section 4: Industrial Discharges and Hazardous Wastes	☐ w/ SIU and NSCIU attachments ☐ w/ additional attachments	☐ w/ Table F
☐ Section 5: Combined Sewer Overflows	☐ w/ CSO map ☐ w/ CSO system diagram	☐ w/ additional attachments
☑ Section 6: Checklist and Certification Statement	☐ w/ attachments	

6.2 **Certification Statement**

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 fine and imprisonment for knowing violations.

Name (print or type first and last name)	Official title
Tyran Colvin	Mayor
Signature	Date signed
	12-16-25

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
110006644471	AL0020885	CHICKASAW LAGOON	001

Form Approved 03/05/19
OMB No. 2040-0004

TABLE A. EFFLUENT PARAMETERS FOR ALL POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Biochemical oxygen demand ☐ BOD_5 or ☑ $CBOD_5$ (report one)	16	MG/L	<8	MG/L	24	SM 5210B 2019	8 ☐ ML ☑ MDL
Fecal coliform Entero	61	MPN	8.3	MPN	24	SM 9230D	1 ☐ ML ☑ MDL
Design flow rate	1.5	MGD	0.80	MGD	730		
pH (minimum)	6.1	SU					
pH (maximum)	8.7	SU					
Temperature (winter)	22	Deg C	14	DEG C			
Temperature (summer)	32	Deg C	29	DEG C			
Total suspended solids (TSS)	50.9	MG/L	11	MG/L	24	SM 2540D 2015	10 ☐ ML ☑ MDL

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE B. EFFLUENT PARAMETERS FOR ALL POTWS WITH A FLOW EQUAL TO OR GREATER THAN 0.1 MGD

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Ammonia (as N)	5.8	MG/L	1.4	MG/L	24	SM4500-H+B-2011	0.21 ☐ ML ☑ MDL
Chlorine (total residual, TRC)[2]	0.13	MG/L	0.025	MG/L	24	SM4500-Cl-G-201	0.05 ☐ ML ☑ MDL
Dissolved oxygen	11	MG/L	7.3	MG/L	24	SM 4500-O G2001	☐ ML ☐ MDL
Nitrate/nitrite	4.7	MG/L	1.10	MG/L	24	Calculation	1.0 ☐ ML ☑ MDL
Kjeldahl nitrogen	8.7	MG/L	2.94	MG/L	24	HACH 10242	1.76 ☐ ML ☑ MDL
Oil and grease	ND	MG/L	ND	MG/L	3	EPA 1664A	5 ☐ ML ☑ MDL
Phosphorus	2.4	MG/L	1.43	MG/L	24	EPA 200.7 Rev 4.4	0.05 ☐ ML ☑ MDL
Total dissolved solids	132	MG/L	121.7	MG/L	3	SM 2540 C-2015	1 ☐ ML ☑ MDL

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

[2] Facilities that do not use chlorine for disinfection, do not use chlorine elsewhere in the treatment process, and have no reasonable potential to discharge chlorine in their effluent are not required to report data for chlorine.

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TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Metals, Cyanide, and Total Phenols							
Hardness (as $CaCO_3$)	53	MG/L	52	MG/L	3	SM 2304C-2011	1.78 ☐ ML ☑ MDL
Antimony, total recoverable	ND	MG/L	ND	MG/L	3	EPA 200.8 REV 5.4	0.002 ☐ ML ☑ MDL
Arsenic, total recoverable	ND	MG/L	ND	MG/L	3	EPA 200.8 REV 5.4	0.002 ☐ ML ☑ MDL
Beryllium, total recoverable	ND	MG/L	ND	MG/L	3	EPA 200.8 REV 5.4	0.001 ☐ ML ☑ MDL
Cadmium, total recoverable	ND	MG/L	ND	MG/L	3	EPA 200.8 REV 5.4	0.001 ☐ ML ☑ MDL
Chromium, total recoverable	ND	MG/L	ND	MG/L	3	EPA 200.8 REV 5.4	0.001 ☐ ML ☑ MDL
Copper, total recoverable	0.0033	MG/L	0.00243	MG/L	3	EPA 200.8 REV 5.4	0.001 ☐ ML ☑ MDL
Lead, total recoverable	ND	MG/L	ND	MG/L	3	EPA 200.8 REV 5.4	0.001 ☐ ML ☑ MDL
Mercury, total recoverable	1.24	NG/L	0.79	NG/L	3	1631E	0.5 ☐ ML ☑ MDL
Nickel, total recoverable	ND	MG/L	ND	MG/L	3	EPA 200.8 REV 5.4	0.001 ☐ ML ☑ MDL
Selenium, total recoverable	ND	MG/L	ND	MG/L	3	EPA 200.8 REV 5.4	0.002 ☐ ML ☑ MDL
Silver, total recoverable	ND	MG/L	ND	MG/L	3	EPA 200.8 REV 5.4	0.001 ☐ ML ☑ MDL
Thallium, total recoverable	ND	MG/L	ND	MG/L	3	EPA 200.8 REV 5.4	0.001 ☐ ML ☑ MDL
Zinc, total recoverable	0.00874	MG/L	0.00781	MG/L	3	EPA 200.8 REV 5.4	0.005 ☐ ML ☑ MDL
Cyanide	ND	MG/L	ND	MG/L	3	SM 4500-CN E 2016	0.050 ☐ ML ☑ MDL
Total phenolic compounds	ND	MG/L	ND	MG/L	3	EPA 420.1 1978	0.050 ☐ ML ☑ MDL
Volatile Organic Compounds							
Acrolein	ND	UG/L	ND	UG/L	3	EPA 624.1	10.0 ☐ ML ☑ MDL
Acrylonitrile	ND	UG/L	ND	UG/L	3	EPA 624.1	5.0 ☐ ML ☑ MDL
Benzene	ND	UG/L	ND	UG/L	3	EPA 624.1	3.5 ☐ ML ☑ MDL
Bromoform	ND	UG/L	ND	UG/L	3	EPA 624.1	4.7 ☐ ML ☑ MDL

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TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Carbon tetrachloride	ND	UG/L	ND	UG/L	3	EPA 624.1	2.8 ☐ ML ☑ MDL
Chlorobenzene	ND	UG/L	ND	UG/L	3	EPA 624.1	3.21 ☐ ML ☑ MDL
Chlorodibromomethane	ND	UG/L	ND	UG/L	3	EPA 624.1	3.10 ☑ ML ☑ MDL
Chloroethane	ND	UG/L	ND	UG/L	3	EPA 624.1	3.88 ☐ ML ☑ MDL
2-chloroethylvinyl ether	ND	UG/L	ND	UG/L	3	EPA 624.1	10.0 ☐ ML ☑ MDL
Chloroform	14.7	UG/L	8.74	UG/L	3	EPA 624.1	1.6 ☐ ML ☑ MDL
Dichlorobromomethane	2.39	UG/L	2.39	UG/L	3	EPA 624.1	2.2 ☐ ML ☑ MDL
1,1-dichloroethane	ND	UG/L	ND	UG/L	3	EPA 624.1	3.42 ☐ ML ☑ MDL
1,2-dichloroethane	ND	UG/L	ND	UG/L	3	EPA 624.1	2.8 ☐ ML ☑ MDL
trans-1,2-dichloroethylene	ND	UG/L	ND	UG/L	3	EPA 624.1	1.60 ☐ ML ☑ MDL
1,1-dichloroethylene	ND	UG/L	ND	UG/L	3	EPA 624.1	2.8 ☐ ML ☑ MDL
1,2-dichloropropane	ND	UG/L	ND	UG/L	3	EPA 624.1	2.92 ☐ ML ☑ MDL
1,3-dichloropropylene	ND	UG/L	ND	UG/L	3	EPA 624.1	3.87 ☐ ML ☑ MDL
Ethylbenzene	ND	UG/L	ND	UG/L	3	EPA 624.1	4.10 ☐ ML ☑ MDL
Methyl bromide	ND	UG/L	ND	UG/L	3	EPA 624.1	4.35 ☐ ML ☑ MDL
Methyl chloride	ND	UG/L	ND	UG/L	3	EPA 624.1	4.61 ☐ ML ☑ MDL
Methylene chloride	ND	UG/L	ND	UG/L	3	EPA 624.1	2.77 ☐ ML ☑ MDL
1,1,2,2-tetrachloroethane	ND	UG/L	ND	UG/L	3	EPA 624.1	4.13 ☐ ML ☑ MDL
Tetrachloroethylene	ND	UG/L	ND	UG/L	3	EPA 624.1	4.10 ☐ ML ☑ MDL
Toluene	ND	UG/L	ND	UG/L	3	EPA 624.1	4.46 ☐ ML ☑ MDL
1,1,1-trichloroethane	ND	UG/L	ND	UG/L	3	EPA 624.1	2.93 ☐ ML ☑ MDL
1,1,2-trichloroethane	ND	UG/L	ND	UG/L	3	EPA 624.1	3.66 ☐ ML ☑ MDL

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TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Trichloroethylene	ND	UG/L	ND	UG/L	3	EPA 624.1	1.9 ☐ ML ☐ MDL
Vinyl chloride	ND	UG/L	ND	UG/L	3	EPA 624.1	3.74 ☐ ML ☐ MDL
Acid-Extractable Compounds							
p-chloro-m-cresol	ND	UG/L	ND	UG/L	3	EPA 625.1	3.1 ☐ ML ☑ MDL
2-chlorophenol	ND	UG/L	ND	UG/L	3	EPA 625.1	3.4 ☐ ML ☑ MDL
2,4-dichlorophenol	ND	UG/L	ND	UG/L	3	EPA 625.1	2.8 ☐ ML ☑ MDL
2,4-dimethylphenol	ND	UG/L	ND	UG/L	3	EPA 625.1	2.8 ☐ ML ☑ MDL
4,6-dinitro-o-cresol	ND	UG/L	ND	UG/L	3	EPA 625.1	3.3 ☐ ML ☑ MDL
2,4-dinitrophenol	ND	UG/L	ND	UG/L	3	EPA 625.1	5.1 ☐ ML ☑ MDL
2-nitrophenol	ND	UG/L	ND	UG/L	3	EPA 625.1	3.7 ☐ ML ☑ MDL
4-nitrophenol	ND	UG/L	ND	UG/L	3	EPA 625.1	2.4 ☐ ML ☑ MDL
Pentachlorophenol	ND	UG/L	ND	UG/L	3	EPA 625.1	3.7 ☐ ML ☑ MDL
Phenol	ND	UG/L	ND	UG/L	3	EPA 625.1	1.5 ☐ ML ☑ MDL
2,4,6-trichlorophenol	ND	UG/L	ND	UG/L	3	EPA 625.1	2.8 ☐ ML ☑ MDL
Base-Neutral Compounds							
Acenaphthene	ND	UG/L	ND	UG/L	3	EPA 625.1	1.9 ☐ ML ☑ MDL
Acenaphthylene	ND	UG/L	ND	UG/L	3	EPA 625.1	3.6 ☐ ML ☑ MDL
Anthracene	ND	UG/L	ND	UG/L	3	EPA 625.1	1.9 ☐ ML ☑ MDL
Benzidine	ND	UG/L	ND	UG/L	3	EPA 625.1	15.3 ☐ ML ☑ MDL
Benzo(a)anthracene	ND	UG/L	ND	UG/L	3	EPA 625.1	8.0 ☐ ML ☑ MDL
Benzo(a)pyrene	ND	UG/L	ND	UG/L	3	EPA 625.1	2.6 ☐ ML ☑ MDL
3,4-benzofluoranthene	ND	UG/L	ND	UG/L	3	EPA 625.1	4.9 ☐ ML ☑ MDL

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TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Benzo(ghi)perylene	ND	UG/L	ND	UG/L	3	EPA 625.1	4.2 ☐ ML ☑ MDL
Benzo(k)fluoranthene	ND	UG/L	ND	UG/L	3	EPA 625.1	2.6 ☐ ML ☑ MDL
Bis (2-chloroethoxy) methane	ND	UG/L	ND	UG/L	3	EPA 625.1	5.4 ☐ ML ☑ MDL
Bis (2-chloroethyl) ether	ND	UG/L	ND	UG/L	3	EPA 625.1	5.8 ☐ ML ☑ MDL
Bis (2-chloroisopropyl) ether	ND	UG/L	ND	UG/L	3	EPA 625.1	5.8 ☐ ML ☑ MDL
Bis (2-ethylhexyl) phthalate	ND	UG/L	ND	UG/L	3	EPA 625.1	2.6 ☐ ML ☑ MDL
4-bromophenyl phenyl ether	ND	UG/L	ND	UG/L	3	EPA 625.1	1.9 ☐ ML ☑ MDL
Butyl benzyl phthalate	ND	UG/L	ND	UG/L	3	EPA 625.1	2.6 ☐ ML ☑ MDL
2-chloronaphthalene	ND	UG/L	ND	UG/L	3	EPA 625.1	1.9 ☐ ML ☑ MDL
4-chlorophenyl phenyl ether	ND	UG/L	ND	UG/L	3	EPA 625.1	4.3 ☐ ML ☑ MDL
Chrysene	ND	UG/L	ND	UG/L	3	EPA 625.1	2.6 ☐ ML ☑ MDL
di-n-butyl phthalate	ND	UG/L	ND	UG/L	3	EPA 625.1	2.6 ☐ ML ☑ MDL
di-n-octyl phthalate	ND	UG/L	ND	UG/L	3	EPA 625.1	2.6 ☐ ML ☑ MDL
Dibenzo(a,h)anthracene	ND	UG/L	ND	UG/L	3	EPA 625.1	2.6 ☐ ML ☑ MDL
1,2-dichlorobenzene	ND	UG/L	ND	UG/L	3	EPA 625.1	1.9 ☐ ML ☑ MDL
1,3-dichlorobenzene	ND	UG/L	ND	UG/L	3	EPA 625.1	1.9 ☐ ML ☑ MDL
1,4-dichlorobenzene	ND	UG/L	ND	UG/L	3	EPA 625.1	4.5 ☐ ML ☑ MDL
3,3-dichlorobenzidine	ND	UG/L	ND	UG/L	3	EPA 625.1	5.1 ☐ ML ☑ MDL
Diethyl phthalate	ND	UG/L	ND	UG/L	3	EPA 625.1	1.9 ☐ ML ☑ MDL
Dimethyl phthalate	ND	UG/L	ND	UG/L	3	EPA 625.1	1.6 ☐ ML ☑ MDL
2,4-dinitrotoluene	ND	UG/L	ND	UG/L	3	EPA 625.1	5.8 ☐ ML ☑ MDL
2,6-dinitrotoluene	ND	UG/L	ND	UG/L	3	EPA 625.1	1.9 ☐ ML ☑ MDL

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TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
1,2-diphenylhydrazine	ND	UG/L	ND	UG/L	3	EPA 625.1	10.2 ☐ ML ☑ MDL
Fluoranthene	ND	UG/L	ND	UG/L	3	EPA 625.1	2.2 ☐ ML ☑ MDL
Fluorene	ND	UG/L	ND	UG/L	3	EPA 625.1	1.9 ☐ ML ☑ MDL
Hexachlorobenzene	ND	UG/L	ND	UG/L	3	EPA 625.1	1.9 ☐ ML ☑ MDL
Hexachlorobutadiene	ND	UG/L	ND	UG/L	3	EPA 625.1	0.9 ☐ ML ☑ MDL
Hexachlorocyclo-pentadiene	ND	UG/L	ND	UG/L	3	EPA 625.1	2.4 ☐ ML ☑ MDL
Hexachloroethane	ND	UG/L	ND	UG/L	3	EPA 625.1	1.4 ☐ ML ☑ MDL
Indeno(1,2,3-cd)pyrene	ND	UG/L	ND	UG/L	3	EPA 625.1	3.8 ☐ ML ☑ MDL
Isophorone	ND	UG/L	ND	UG/L	3	EPA 625.1	2.2 ☐ ML ☑ MDL
Naphthalene	ND	UG/L	ND	UG/L	3	EPA 625.1	1.6 ☐ ML ☑ MDL
Nitrobenzene	ND	UG/L	ND	UG/L	3	EPA 625.1	1.9 ☑ ML ☑ MDL
N-nitrosodi-n-propylamine	ND	UG/L	ND	UG/L	3	EPA 625.1	1.5 ☑ ML ☑ MDL
N-nitrosodimethylamine	ND	UG/L	ND	UG/L	3	EPA 625.1	2.0 ☐ ML ☑ MDL
N-nitrosodiphenylamine	ND	UG/L	ND	UG/L	3	EPA 625.1	1.9 ☐ ML ☑ MDL
Phenanthrene	ND	UG/L	ND	UG/L	3	EPA 625.1	5.5 ☐ ML ☑ MDL
Pyrene	ND	UG/L	ND	UG/L	3	EPA 625.1	1.9 ☐ ML ☑ MDL
1,2,4-trichlorobenzene	3.5	UG/L	3.5	UG/L	3	EPA 625.1	1.9 ☐ ML ☑ MDL

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE D. ADDITIONAL POLLUTANTS AS REQUIRED BY NPDES PERMITTING AUTHORITY

Pollutant (list)	Maximum Daily Discharge		Average Daily Discharge			Analytical Method[1]	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
☐ No additional sampling is required by NPDES permitting authority.							
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL
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							☐ ML ☐ MDL
							☐ ML ☐ MDL
							☐ ML ☐ MDL

[1] Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY

The table provides response space for one whole effluent toxicity sample. Copy the table to report additional test results.

Test Information

	Test Number ____	Test Number ____	Test Number ____
Test species			
Age at initiation of test			
Outfall number			
Date sample collected			
Date test started			
Duration			
Toxicity Test Methods			
Test method number			
Manual title			
Edition number and year of publication			
Page number(s)			
Sample Type			
Check one:	☐ Grab ☐ 24-hour composite	☐ Grab ☐ 24-hour composite	☐ Grab ☐ 24-hour composite
Sample Location			
Check one:	☐ Before Disinfection ☐ After Disinfection ☐ After Dechlorination	☐ Before Disinfection ☐ After Disinfection ☐ After Dechlorination	☐ Before disinfection ☐ After disinfection ☐ After dechlorination
Point in Treatment Process			
Describe the point in the treatment process at which the sample was collected for each test.			
Toxicity Type			
Indicate for each test whether the test was performed to asses acute or chronic toxicity, or both. (Check one response.)	☐ Acute ☐ Chronic ☐ Both	☐ Acute ☐ Chronic ☐ Both	☐ Acute ☐ Chronic ☐ Both

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TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY

The table provides response space for one whole effluent toxicity sample. Copy the table to report additional test results.

	Test Number ____	Test Number ____	Test Number ____
Test Type			
Indicate the type of test performed. (Check one response.)	☐ Static ☐ Static-renewal ☐ Flow-through	☐ Static ☐ Static-renewal ☐ Flow-through	☐ Static ☐ Static-renewal ☐ Flow-through
Source of Dilution Water			
Indicate the source of dilution water. (Check one response.)	☐ Laboratory water ☐ Receiving water	☐ Laboratory water ☐ Receiving water	☐ Laboratory water ☐ Receiving water
If laboratory water, specify type.			
If receiving water, specify source.			
Type of Dilution Water			
Indicate the type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.	☐ Fresh water ☐ Salt water (specify)	☐ Fresh water ☐ Salt water (specify)	☐ Fresh water ☐ Salt water (specify)
Percentage Effluent Used			
Specify the percentage effluent used for all concentrations in the test series.			

Parameters Tested						
Check the parameters tested.	☐ pH ☐ Salinity ☐ Temperature	☐ Ammonia ☐ Dissolved oxygen	☐ pH ☐ Salinity ☐ Temperature	☐ Ammonia ☐ Dissolved oxygen	☐ pH ☐ Salinity ☐ Temperature	☐ Ammonia ☐ Dissolved oxygen
Acute Test Results						
Percent survival in 100% effluent	%		%		%	
LC_{50}						
95% confidence interval	%		%		%	
Control percent survival	%		%		%	

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TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY

The table provides response space for one whole effluent toxicity sample. Copy the table to report additional test results.

	Test Number ____		Test Number ____		Test Number ____	
Acute Test Results Continued						
Other (describe)						
Chronic Test Results						
NOEC	%		%		%	
IC_{25}	%		%		%	
Control percent survival	%		%		%	
Other (describe)						
Quality Control/Quality Assurance						
Is reference toxicant data available?	☐ Yes	☐ No	☐ Yes	☐ No	☐ Yes	☐ No
Was reference toxicant test within acceptable bounds?	☐ Yes	☐ No	☐ Yes	☐ No	☐ Yes	☐ No
What date was reference toxicant test run (MM/DD/YYYY)?						
Other (describe)						

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EPA Identification Number	NPDES Permit Number	Facility Name
110006644471	AL0020885	CHICKASAW LAGOON

Form Approved 03/05/19
OMB No. 2040-0004

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU ___	SIU ___	SIU ___
Name of SIU			
Mailing address (street or P.O. box)			
City, state, and ZIP code			
Description of all industrial processes that affect or contribute to the discharge.			
List the principal products and raw materials that affect or contribute to the SIU's discharge.			
Indicate the average daily volume of wastewater discharged by the SIU.	gpd	gpd	gpd
How much of the average daily volume is attributable to process flow?	gpd	gpd	gpd
How much of the average daily volume is attributable to non-process flow?	gpd	gpd	gpd
Is the SIU subject to local limits?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
Is the SIU subject to categorical standards?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No

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OMB No. 2040-0004

TABLE F. INDUSTRIAL DISCHARGE INFORMATION

Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

	SIU ___	SIU ___	SIU ___
Under what categories and subcategories is the SIU subject?			
Has the POTW experienced problems (e.g., upsets, pass-through interferences) in the past 4.5 years that are attributable to the SIU?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
If yes, describe.			

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Form 2S NPDES

EPA

U.S Environmental Protection Agency
Application for NPDES Permit for Sewage Sludge Management
NEW AND EXISTING TREATMENT WORKS TREATING DOMESTIC SEWAGE

PRELIMINARY INFORMATION

Does your facility currently have an effective NPDES permit or have you been directed by your NPDES permitting authority to submit a full Form 2S permit application?

☑ Yes → Complete Part 2 of application package (begins p. 7). ☐ No → Complete Part 1 of application package (below).

PART 1 — LIMITED BACKGROUND INFORMATION (40 CFR 122.21(c)(2)(ii))

Complete this part only if you are a "sludge-only" facility (i.e., a facility that does not currently have, and is not applying for, an NPDES permit for a direct discharge to a surface body of water).

PART 1, SECTION 1. FACILITY INFORMATION (40 CFR 122.21(c)(2)(ii)(A))

Facility Information

1.1

Facility name: CHICKASAW LAGOON			
Mailing address (street or P.O. box): PO BOX 11307			
City or town: CHICKASAW		State: AL	ZIP code: 36671
Contact name (first and last): TYRAN COLVIN	Title: MAYOR	Phone number: (251) 452-6463	Email address: mayor@cityofchickasaw.org
Location address (street, route number, or other specific identifier): GULF STREET ALLEY ☐ Same as mailing address			
City or town: CHICKASAW		State: ALABAMA	ZIP code: 36611

1.2 **Ownership Status**

☐ Public—federal ☐ Public—state ☑ Other public (specify) MUNICIPAL

☐ Private ☐ Other (specify) _____

PART 1, SECTION 2. APPLICANT INFORMATION (40 CFR 122.21(c)(2)(ii)(B))

Applicant Information

2.1 Is applicant different from entity listed under Item 1.1 above?

☐ Yes ☑ No → SKIP to Item 2.3 (Part 1, Section 2).

2.2

Applicant name			
Applicant address (street or P.O. box)			
City or town		State	ZIP code
Contact name (first and last)	Title	Phone number	Email address

2.3 Is the applicant the facility's owner, operator, or both? (Check only one response.)

☐ Owner ☐ Operator ☑ Both

2.4 To which entity should the NPDES permitting authority send correspondence? (Check only one response.)

☐ Facility ☐ Applicant ☑ Facility and applicant (they are one and the same)

PART 1, SECTION 3. SEWAGE SLUDGE AMOUNT (40 CFR 122.21(c)(2)(ii)(D))

Sewage Sludge Amount

3.1 Provide the total dry metric tons per the latest 365-day period of sewage sludge generated, treated, used, and disposed of:

Practice	Dry Metric Tons per 365-Day Period
Amount generated at the facility	NA - Lagoon System
Amount treated at the facility	NA
Amount used (i.e., received from off site) at the facility	NA
Amount disposed of at the facility	NA

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PART 1, SECTION 4. POLLUTANT CONCENTRATIONS (40 CFR 122.21(c)(2)(ii)(E))

Pollutant Concentrations

4.1 Using the table below or a separate attachment, provide existing sewage sludge monitoring data for the pollutants for which limits in sewage sludge have been established in 40 CFR 503 for your facility's expected use or disposal practices. If available, base data on three or more samples taken at least one month apart and no more than 4.5 years old.

☐ Check here if you have provided a separate attachment with this information.

Pollutant	Concentration (mg/kg dry weight)	Analytical Method	Detection Level for Analysis
Arsenic			
Cadmium			
Chromium			
Copper			
Lead			
Mercury			
Molybdenum			
Nickel			
Selenium			
Zinc			
Other (specify) _____			
Other (specify) _____			
Other (specify) _____			
Other (specify) _____			
Other (specify) _____			
Other (specify) _____			
Other (specify) _____			
Other (specify) _____			
Other (specify) _____			
Other (specify) _____			

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EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
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PART 1, SECTION 5. TREATMENT PROVIDED AT YOUR FACILITY (40 CFR 122.21(c)(2)(ii)(C))

Treatment Provided at Your Facility

5.1 For each sewage sludge use or disposal practice, indicate the amount of sewage sludge used or disposed of, the applicable pathogen class and reduction alternative, and the applicable vector attraction reduction option. Attach additional pages, as necessary.

Use or Disposal Practice (check one)	Amount (dry metric tons)	Pathogen Class and Reduction Alternative	Vector Attraction Reduction Option
☐ Land application of bulk sewage ☐ Land application of biosolids (bulk) ☐ Land application of biosolids (bags) ☐ Surface disposal in a landfill ☐ Other surface disposal ☐ Incineration		☐ Not applicable ☐ Class A, Alternative 1 ☐ Class A, Alternative 2 ☐ Class A, Alternative 3 ☐ Class A, Alternative 4 ☐ Class A, Alternative 5 ☐ Class A, Alternative 6 ☐ Class B, Alternative 1 ☐ Class B, Alternative 2 ☐ Class B, Alternative 3 ☐ Class B, Alternative 4 ☐ Domestic septage, pH adjustment	☐ Not applicable ☐ Option 1 ☐ Option 2 ☐ Option 3 ☐ Option 4 ☐ Option 5 ☐ Option 6 ☐ Option 7 ☐ Option 8 ☐ Option 9 ☐ Option 10 ☐ Option 11

5.2 For each of the use and disposal practices specified in Item 5.1, identify the treatment process(es) used at your facility to reduce pathogens in sewage sludge or reduce the vector attraction properties of sewage sludge. (Check all that apply.)

- ☐ Preliminary operations (e.g., sludge grinding and degritting)
- ☐ Thickening (concentration)
- ☐ Stabilization
- ☐ Anaerobic digestion
- ☐ Composting
- ☐ Conditioning
- ☐ Disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization)
- ☐ Dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons)
- ☐ Heat drying
- ☐ Thermal reduction
- ☐ Methane or biogas capture and recovery
- ☐ Other (specify) _____

PART 1, SECTION 6. SEWAGE SLUDGE SENT TO OTHER FACILITIES (40 CFR 122.21(c)(2)(ii)(C))

Sewage Sludge Sent to Other Facilities

6.1 Does the sewage sludge from your facility meet the ceiling concentrations in Table 1 of 40 CFR 503.13, the pollutant concentrations in Table 3 of 40 CFR 503.13, Class A pathogen reduction requirements at 40 CFR 503.32(a), *and* one of the vector attraction reduction requirements at 40 CFR 503.33(b)(1)–(8)?

☐ Yes ➔ SKIP to Part 1, Section 8 (Certification). ☑ No

6.2 Is sewage sludge from your facility provided to another facility for treatment, distribution, use, or disposal?

☐ Yes ☑ No ➔ SKIP to Part 1, Section 7.

6.3

Receiving facility name			
Mailing address (street or P.O. box)			
City or town		State	ZIP code
Contact name (first and last)	Title	Phone number	Email address

6.4 Which activities does the receiving facility provide? (Check all that apply.)

- ☐ Treatment or blending
- ☐ Sale or give-away in bag or other container
- ☐ Land application
- ☐ Surface disposal
- ☐ Incineration
- ☐ Other (describe)
- ☐ Composting

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PART 1, SECTION 7. USE AND DISPOSAL SITES (40 CFR 122.21(c)(2)(ii)(C))

Use and Disposal Sites

Provide the following information for each site on which sewage sludge from this facility is used or disposed of.

☐ Check here if you have provided separate attachments with this information.

7.1

Site name or number			
Mailing address (street or P.O. box)			
City or town		State	ZIP code
Contact name (first and last)	Title	Phone number	Email address
Location address (street, route number, or other specific identifier)		☐ Same as mailing address	
City or town		State	ZIP code
County		County code	☐ Not available

7.2 Site type (check all that apply)

☐ Agricultural	☐ Lawn or home garden	☐ Forest
☐ Surface disposal	☐ Public contact	☐ Incineration
☐ Reclamation	☐ Municipal solid waste landfill	☐ Other (describe)

PART 1, SECTION 8. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

Checklist and Certification Statement

8.1 In Column 1 below, mark the sections of Form 2S, Part 1, that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments.

Column 1	Column 2
☐ Section 1: Facility Information	☐ w/ attachments
☐ Section 2: Applicant Information	☐ w/ attachments
☐ Section 3: Sewage Sludge Amount	☐ w/ attachments
☐ Section 4: Pollutant Concentrations	☐ w/ attachments
☐ Section 5: Treatment Provided at Your Facility	☐ w/ attachments
☐ Section 6: Sewage Sludge Sent to Other Facilities	☐ w/ attachments
☐ Section 7: Use and Disposal Sites	☐ w/ attachments
☐ Section 8: Checklist and Certification Statement	

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Checklist and Certification Statement Continued	8.2	Certification Statement		
		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 fine and imprisonment for knowing violations.		
		Name (print or type first and last name) Tyran Colvin	Official title Mayor	Phone number 251-452-6450
		Signature Tyran D. Colvin		Date signed 12-16-25

PART 1 APPLICANTS STOP HERE.

Submit completed application package to your NPDES permitting authority.

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EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
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PART 2 **PERMIT APPLICATION INFORMATION (40 CFR 122.21(q))**

Complete this part if you have an effective NPDES permit or have been directed by the NPDES permitting authority to submit a full permit application. In other words, complete this part if your facility has, or is applying for, an NPDES permit.
Part 2 is divided into five sections. Section 1 pertains to all applicants. The applicability of Sections 2 to 5 depends on your facility's sewage sludge use or disposal practices. See the instructions to determine which sections you are required to complete.

PART 2, SECTION 1. GENERAL INFORMATION (40 CFR 122.21(q)(1 7) AND (q)(13))

General Information

All Part 2 applicants must complete this section.

Facility Information

1.1 Facility name
Chickasaw Lagoon

Mailing address (street or P.O. box)
P.O. BOX 11307

City or town	State	ZIP code	Phone number
CHICKASAW	AL	36671	(251) 463-9189

Contact name (first and last)	Title	Email address
BILLY SARANTHUS	OPERATOR	PUBLICWORKS@CITYOFCHICKASAW.ORG

Location address (street, route number, or other specific identifier) ☐ Same as mailing address

City or town	State	ZIP code
CHICKASAW	AL	36671

1.2 Is this facility a Class I sludge management facility?
☐ Yes ☑ No

1.3 **Facility Design Flow Rate** 1.5 million gallons per day (mgd)

1.4 **Total Population Served** 6,400

1.5 **Ownership Status**
☐ Public—federal ☐ Public—state ☑ Other public (specify) CITY
☐ Private ☐ Other (specify) _____

Applicant Information

1.6 Is applicant different from entity listed under Item 1.1 above?
☐ Yes ☑ No → SKIP to Item 1.8 (Part 2, Section 1).

1.7 Applicant name

Applicant mailing address (street or P.O. box)

City or town		State	ZIP code
Contact name (first and last)	Title	Phone number	Email address

1.8 Is the applicant the facility's owner, operator, or both? (Check only one response.)
☐ Operator ☐ Owner ☐ Both

1.9 To which entity should the NPDES permitting authority send correspondence? (Check only one response.)
☐ Facility ☐ Applicant ☐ Facility and applicant (they are one and the same)

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1.10	Facility's NPDES permit number ☐ Check here if you do not have an NPDES permit but are otherwise required to submit Part 2 of Form 2S.	AL0020885

1.11 Indicate all other federal, state, and local permits or construction approvals received or applied for that regulate this facility's sewage sludge management practices below.

☐ RCRA (hazardous wastes)	☐ Nonattainment program (CAA)	☐ NESHAPs (CAA)
☐ PSD (air emissions)	☐ Dredge or fill (CWA Section 404)	☐ Other (specify)
☐ Ocean dumping (MPRSA)	☐ UIC (underground injection of fluids)	

Indian Country

1.12 Does any generation, treatment, storage, application to land, or disposal of sewage sludge from this facility occur in Indian Country?

☐ Yes ☑ No → SKIP to Item 1.14 (Part 2, Section 1) below.

1.13 Provide a description of the generation, treatment, storage, land application, or disposal of sewage sludge that occurs. NA

Topographic Map

1.14 Have you attached a topographic map containing all required information to this application? (See instructions for specific requirements.)

☑ Yes ☐ No

Line Drawing

1.15 Have you attached a line drawing and/or a narrative description that identifies all sewage sludge practices that will be employed during the term of the permit containing all the required information to this application? (See instructions for specific requirements.)

☐ Yes ☑ No

Contractor Information

1.16 Do contractors have any operational or maintenance responsibilities related to sewage sludge generation, treatment, use, or disposal at the facility?

☐ Yes ☑ No → SKIP to Item 1.18 (Part 2, Section 1) below.

1.17 Provide the following information for each contractor.

☐ Check here if you have attached additional sheets to the application package.

	Contractor 1	Contractor 2	Contractor 3
Contractor company name	NA	NA	NA
Mailing address (street or P.O. box)	NA	NA	NA
City, state, and ZIP code	NA	NA	NA
Contact name (first and last)	NA	NA	NA
Telephone number			
Email address	NA	NA	NA

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General Information Continued

1.17 cont.		Contractor 1	Contractor 2	Contractor 3
	Responsibilities of contractor	NA	NA	NA

Pollutant Concentrations

Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants for which limits in sewage sludge have been established in 40 CFR 503 for this facility's expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than 4.5 years old.

☐ Check here if you have attached additional sheets to the application package.

1.18	Pollutant	Average Monthly Concentration (mg/kg dry weight)	Analytical Method	Detection Level
	Arsenic	NA	NA	NA
	Cadmium	NA	NA	NA
	Chromium	NA	NA	NA
	Copper	NA	NA	NA
	Lead	NA	NA	NA
	Mercury	NA	NA	NA
	Molybdenum	NA	NA	NA
	Nickel	NA	NA	NA
	Selenium	NA	NA	NA
	Zinc	NA	NA	NA

Checklist and Certification Statement

1.19 In Column 1 below, mark the sections of Form 2S, Part 2, that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing. Note that not all applicants are required to complete all sections or provide attachments. See Exhibit 2S–2 in the Instructions.

Column 1	Column 2
☐ Section 1 (General Information)	☐ w/ attachments
☐ Section 2 (Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge)	☐ w/ attachments
☐ Section 3 (Land Application of Bulk Sewage Sludge)	☐ w/ attachments
☐ Section 4 (Surface Disposal)	☐ w/ attachments
☐ Section 5 (Incineration)	☐ w/ attachments

1.20 **Certification Statement**

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 fine and imprisonment for knowing violations.

Name (print or type first and last name)	Official title
TYRAN S. COLVIN	MAYOR
Signature	Date signed
Tyran S. Colvin	12-16-25
Telephone number 251-452-6450	

Upon the request of the NPDES permitting authority, you must submit any other information the authority deems necessary to assess sewage sludge use or disposal practices at your facility and identify appropriate permitting requirements.

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PART 2, SECTION 2. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE (40 CFR 122.21(q)(8) THROUGH (12))

Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge

2.1 Does your facility generate sewage sludge or derive a material from sewage sludge?

☑ Yes ☐ No → SKIP to Part 2, Section 3.

Amount Generated Onsite

2.2 Total dry metric tons per 365-day period generated at your facility: 0.0 dry metric tons per year

Amount Received from Off Site Facility

2.3 Does your facility receive sewage sludge from another facility for treatment use or disposal?

☐ Yes ☑ No → SKIP to Item 2.7 (Part 2, Section 2) below.

2.4 Indicate the total number of facilities from which you receive sewage sludge for treatment, use, or disposal:

Provide the following information for each of the facilities from which you receive sewage sludge.

☐ Check here if you have attached additional sheets to the application package.

2.5

Name of facility			
Mailing address (street or P.O. box)			
City or town		State	ZIP code
Contact name (first and last)	Title	Phone number	Email address
Location address (street, route number, or other specific identifier)			☐ Same as mailing address
City or town		State	ZIP code
County		County code	☐ Not available

2.6 Indicate the amount of sewage sludge received, the applicable pathogen class and reduction alternative, and the applicable vector reduction option provided at the offsite facility.

Amount (dry metric tons)	Pathogen Class and Reduction Alternative	Vector Attraction Reduction Option
	☐ Not applicable ☐ Class A, Alternative 1 ☐ Class A, Alternative 2 ☐ Class A, Alternative 3 ☐ Class A, Alternative 4 ☐ Class A, Alternative 5 ☐ Class A, Alternative 6 ☐ Class B, Alternative 1 ☐ Class B, Alternative 2 ☐ Class B, Alternative 3 ☐ Class B, Alternative 4 ☐ Domestic septage, pH adjustment	☐ Not applicable ☐ Option 1 ☐ Option 2 ☐ Option 3 ☐ Option 4 ☐ Option 5 ☐ Option 6 ☐ Option 7 ☐ Option 8 ☐ Option 9 ☐ Option 10 ☐ Option 11

2.7 Identify the treatment process(es) that are known to occur at the offsite facility, including blending activities and treatment to reduce pathogens or vector attraction properties. (Check all that apply.)

☐ Preliminary operations (e.g., sludge grinding and degritting)
☐ Thickening (concentration)
☐ Stabilization
☐ Anaerobic digestion
☐ Composting
☐ Conditioning
☐ Disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization)
☐ Dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons)
☐ Heat drying
☐ Thermal reduction
☐ Methane or biogas capture and recovery
☑ Other (specify) None apply

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Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge Continued

Treatment Provided at Your Facility

2.8 For each sewage sludge use or disposal practice, indicate the applicable pathogen class and reduction alternative and the applicable vector attraction reduction option provided at your facility. Attach additional pages, as necessary.

Use or Disposal Practice (check one)	Pathogen Class and Reduction Alternative	Vector Attraction Reduction Option
☐ Land application of bulk sewage ☐ Land application of biosolids (bulk) ☐ Land application of biosolids (bags) ☐ Surface disposal in a landfill ☐ Other surface disposal ☐ Incineration	☐ Not applicable ☐ Class A, Alternative 1 ☐ Class A, Alternative 2 ☐ Class A, Alternative 3 ☐ Class A, Alternative 4 ☐ Class A, Alternative 5 ☐ Class A, Alternative 6 ☐ Class B, Alternative 1 ☐ Class B, Alternative 2 ☐ Class B, Alternative 3 ☐ Class B, Alternative 4 ☐ Domestic septage, pH adjustment	☐ Not applicable ☐ Option 1 ☐ Option 2 ☐ Option 3 ☐ Option 4 ☐ Option 5 ☐ Option 6 ☐ Option 7 ☐ Option 8 ☐ Option 9 ☐ Option 10 ☐ Option 11

2.9 Identify the treatment process(es) used at your facility to reduce pathogens in sewage sludge or reduce the vector attraction properties of sewage sludge? (Check all that apply.)

- ☐ Preliminary operations (e.g., sludge grinding and degritting)
- ☐ Thickening (concentration)
- ☐ Stabilization
- ☐ Anaerobic digestion
- ☐ Composting
- ☐ Conditioning
- ☐ Disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization)
- ☐ Dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons)
- ☐ Heat drying
- ☐ Thermal reduction
- ☐ Methane or biogas capture and recovery

2.10 Describe any other sewage sludge treatment or blending activities not identified in Items 2.8 and 2.9 (Part 2, Section 2) above.

☐ Check here if you have attached the description to the application package.

Preparation of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements, and One of Vector Attraction Reduction Options 1 to 8

2.11 Does the sewage sludge from your facility meet the ceiling concentrations in Table 1 of 40 CFR 503.13, the pollutant concentrations in Table 3 of 40 CFR 503.13, Class A pathogen reduction requirements at 40 CFR 503.32(a), *and* one of the vector attraction reduction requirements at 40 CFR 503.33(b)(1)–(8) and is it land applied?

☐ Yes ☑ No ➔ SKIP to Item 2.14 (Part 2, Section 2) below.

2.12 Total dry metric tons per 365-day period of sewage sludge subject to this subsection that is applied to the land:

2.13 Is sewage sludge subject to this subsection placed in bags or other containers for sale or give-away for application to the land?

☐ Yes ☐ No

☐ Check here once you have completed Items 2.11 to 2.13, then ➔ SKIP to Item 2.32 (Part 2, Section 2) below.

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Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge Continued

Sale or Give-Away in a Bag or Other Container for Application to the Land

2.14	Do you place sewage sludge in a bag or other container for sale or give-away for land application? ☐ Yes ☑ No ➔ SKIP to Item 2.17 (Part 2, Section 2) below.	
2.15	Total dry metric tons per 365-day period of sewage sludge placed in a bag or other container at your facility for sale or give-away for application to the land:	
2.16	Attach a copy of all labels or notices that accompany the sewage sludge being sold or given away in a bag or other container for application to the land. ☐ Check here to indicate that you have attached all labels or notices to this application package.	

☐ Check here once you have completed Items 2.14 to 2.16, then ➔ SKIP to Part 2, Section 2, Item 2.32.

Shipment Off Site for Treatment or Blending

2.17	Does another facility provide treatment or blending of your facility's sewage sludge? (This question does not pertain to dewatered sludge sent directly to a land application or surface disposal site.) ☐ Yes ☑ No ➔ SKIP to Item 2.32 (Part 2, Section 2) below.	
2.18	Indicate the total number of facilities that provide treatment or blending of your facility's sewage sludge. Provide the information in Items 2.19 to 2.26 (Part 2, Section 2) below for each facility. ☐ Check here if you have attached additional sheets to the application package.	

2.19	Name of receiving facility			
	Mailing address (street or P.O. box)			
	City or town		State	ZIP code
	Contact name (first and last)	Title	Phone number	Email address
	Location address (street, route number, or other specific identifier)			☐ Same as mailing address
	City or town		State	ZIP code
2.20	Total dry metric tons per 365-day period of sewage sludge provided to receiving facility:			
2.21	Does the receiving facility provide additional treatment to reduce pathogens in sewage sludge from your facility or reduce the vector attraction properties of sewage sludge from your facility? ☐ Yes ☐ No ➔ SKIP to Item 2.24 (Part 2, Section 2) below.			

2.22 Indicate the pathogen class and reduction alternative and the vector attraction reduction option met for the sewage sludge at the receiving facility.

Pathogen Class and Reduction Alternative	Vector Attraction Reduction Option
☐ Not applicable	☐ Not applicable
☐ Class A, Alternative 1	☐ Option 1
☐ Class A, Alternative 2	☐ Option 2
☐ Class A, Alternative 3	☐ Option 3
☐ Class A, Alternative 4	☐ Option 4
☐ Class A, Alternative 5	☐ Option 5
☐ Class A, Alternative 6	☐ Option 6
☐ Class B, Alternative 1	☐ Option 7
☐ Class B, Alternative 2	☐ Option 8
☐ Class B, Alternative 3	☐ Option 9
☐ Class B, Alternative 4	☐ Option 10
☐ Domestic septage, pH adjustment	☐ Option 11

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Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge Continued

2.23 Which treatment process(es) are used at the receiving facility to reduce pathogens in sewage sludge or reduce the vector attraction properties of sewage sludge from your facility? (Check all that apply.)

- ☐ Preliminary operations (e.g., sludge grinding and degritting)
- ☐ Thickening (concentration)
- ☐ Stabilization
- ☐ Anaerobic digestion
- ☐ Composting
- ☐ Conditioning
- ☐ Disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization)
- ☐ Dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons)
- ☐ Heat drying
- ☐ Thermal reduction
- ☐ Methane or biogas capture and recovery
- ☐ Other (specify) _____

2.24 Attach a copy of any information you provide the receiving facility to comply with the "notice and necessary information" requirement of 40 CFR 503.12(g).

☐ Check here to indicate that you have attached material.

2.25 Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or give-away for application to the land?

☐ Yes ☐ No ➔ SKIP to Item 2.32 (Part 2, Section 2) below.

2.26 Attach a copy of all labels or notices that accompany the product being sold or given away.

☐ Check here to indicate that you have attached material.

☐ Check here once you have completed Items 2.17 to 2.26 (Part 2, Section 2), then ➔ SKIP to Item 2.32 (Part 2, Section 2) below.

Land Application of Bulk Sewage Sludge

2.27 Is sewage sludge from your facility applied to the land?

☐ Yes ☐ No ➔ SKIP to Item 2.32 (Part 2, Section 2) below.

2.28 Total dry metric tons per 365-day period of sewage sludge applied to all land application sites:

2.29 Did you identify all land application sites in Part 2, Section 3 of this application?

☐ Yes ☐ No ➔ Submit a copy of the land application plan with your application.

2.30 Are any land application sites located in states other than the state where you generate sewage sludge or derive a material from sewage sludge?

☐ Yes ☐ No ➔ SKIP to Item 2.32 (Part 2, Section 2) below.

2.31 Describe how you notify the NPDES permitting authority for the states where the land application sites are located. Attach a copy of the notification.

☐ Check here if you have attached the explanation to the application package.

☐ Check here if you have attached the notification to the application package.

Surface Disposal

2.32 Is sewage sludge from your facility placed on a surface disposal site?

☐ Yes ☑ No ➔ SKIP to Item 2.39 (Part 2, Section 2) below.

2.33 Total dry metric tons of sewage sludge from your facility placed on all surface disposal sites per 365-day period:

2.34 Do you own or operate all surface disposal sites to which you send sewage sludge for disposal?

☐ Yes ➔ SKIP to Item 2.39 (Part 2, Section 2) below. ☐ No

2.35 Indicate the total number of surface disposal sites to which you send your sewage sludge.

(Provide the information in Items 2.36 to 2.38 of Part 2, Section 2, for each facility.)

☐ Check here if you have attached additional sheets to the application package.

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Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge Continued

2.36	Site name or number of surface disposal site you do not own or operate			
	Mailing address (street or P.O. box)			
	City or Town		State	ZIP Code
	Contact Name (first and last)	Title	Phone Number	Email Address
2.37	Site Contact (Check all that apply.) ☐ Owner ☐ Operator			
2.38	Total dry metric tons of sewage sludge from your facility placed on this surface disposal site per 365-day period:			

Incineration

2.39	Is sewage sludge from your facility fired in a sewage sludge incinerator? ☐ Yes ☑ No ➔ SKIP to Item 2.46 (Part 2, Section 2) below.			
2.40	Total dry metric tons of sewage sludge from your facility fired in all sewage sludge incinerators per 365-day period:			
2.41	Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired? ☐ Yes ➔ SKIP to Item 2.46 (Part 2, Section 2) below. ☐ No			
2.42	Indicate the total number of sewage sludge incinerators used that you do not own or operate. (Provide the information in Items 2.43 to 2.45 directly below for each facility.) ☐ Check here if you have attached additional sheets to the application package.			
2.43	Incinerator name or number			
	Mailing address (street or P.O. box)			
	City or town		State	ZIP code
	Contact name (first and last)	Title	Phone number	Email address
	Location address (street, route number, or other specific identifier) ☐ Same as mailing address			
	City or town		State	ZIP code
2.44	Contact (check all that apply) ☐ Incinerator owner ☐ Incinerator operator			
2.45	Total dry metric tons of sewage sludge from your facility fired in this sewage sludge incinerator per 365-day period:			

Disposal in a Municipal Solid Waste Landfill

2.46	Is sewage sludge from your facility placed on a municipal solid waste landfill? ☐ Yes ☑ No ➔ SKIP to Part 2, Section 3.	
2.47	Indicate the total number of municipal solid waste landfills used. (Provide the information in Items 2.48 to 2.52 directly below for each facility.) ☐ Check here if you have attached additional sheets to the application package.	

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Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge Continued

2.48	Name of landfill			
	Mailing address (street or P.O. box)			
	City or town		State	ZIP code
	Contact name (first and last)	Title	Phone number	Email address
	Location address (street, route number, or other specific identifier)			☐ Same as mailing address
	County	County code		☐ Not available
	City or town	State		ZIP code
2.49	Total dry metric tons of sewage sludge from your facility placed in this municipal solid waste landfill per 365-day period:			

2.50 List the numbers of all other federal, state, and local permits that regulate the operation of this municipal solid waste landfill.

Permit Number	Type of Permit

2.51 Attach to the application information to determine whether the sewage sludge meets applicable requirements for disposal of sewage sludge in a municipal solid waste landfill (e.g., results of paint filter liquids test and TCLP test).

☐ Check here to indicate you have attached the requested information.

2.52 Does the municipal solid waste landfill comply with applicable criteria set forth in 40 CFR 258?

☐ Yes ☐ No

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EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
110006644471	AL0020885	CHICKASAW LAGOON	

PART 2, SECTION 3 LAND APPLICATION OF BULK SEWAGE SLUDGE (40 CFR 122.21(q)(9))

Land Application of Bulk Sewage Sludge

3.1 Does your facility apply sewage sludge to land?

☐ Yes ☑ No ➔ SKIP to Part 2, Section 4.

3.2 Do any of the following conditions apply?

- The sewage sludge meets the ceiling concentrations in Table 1 of 40 CFR 503.12, the pollutant concentrations in Table 3 of 40 CFR 503.13, Class A pathogen reduction requirements at 40 CFR 503.32(a), *and* one of the vector attraction reduction requirements at 40 CFR 503.33(b)(1)–(8);
- The sewage sludge is sold or given away in a bag or other container for application to the land; or
- You provide the sewage sludge to another facility for treatment or blending.

☐ Yes ➔ SKIP to Part 2, Section 4. ☐ No

3.3 Complete Section 3 for every site on which the sewage sludge is applied.

☐ Check here if you have attached sheets to the application package for one or more land application sites.

Identification of Land Application Site

3.4 Site name or number

Location address (street, route number, or other specific identifier) ☐ Same as mailing address

County	County code ☐ Not available

City or town	State	ZIP code

Latitude/Longitude of Land Application Site (see instructions)

Latitude	Longitude
° ' "	° ' "

Method of Determination

☐ USGS map ☐ Field survey ☐ Other (specify) _____

3.5 Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location.

☐ Check here to indicate you have attached a topographic map for this site.

Owner Information

3.6 Are you the owner of this land application site?

☐ Yes ➔ SKIP to Item 3.8 (Part 2, Section 3) below. ☐ No

3.7 Owner name

Mailing address (street or P.O. box)

City or town	State	ZIP code

Contact name (first and last)	Title	Phone number	Email address

Applier Information

3.8 Are you the person who applies, or who is responsible for application of, sewage sludge to this land application site?

☐ Yes ➔ SKIP to Item 3.10 (Part 2, Section 3) below. ☐ No

3.9 Applier's name

Mailing address (street or P.O. box)

City or town	State	ZIP code

Contact name (first and last)	Title	Phone number	Email address

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Land Application of Bulk Sewage Sludge Continued

Site Type

3.10 Type of land application:

- ☐ Agricultural land
- ☐ Forest
- ☐ Reclamation site
- ☐ Public contact site
- ☐ Other (describe)

Crop or Other Vegetation Grown on Site

3.11 What type of crop or other vegetation is grown on this site?

3.12 What is the nitrogen requirement for this crop or vegetation?

Vector Attraction Reduction

3.13 Are the vector attraction reduction requirements at 40 CFR 503.33(b)(9) and (b)(10) met when sewage sludge is applied to the land application site?

- ☐ Yes
- ☐ No → SKIP to Item 3.16 (Part 2, Section 3) below.

3.14 Indicate which vector attraction reduction option is met. (Check only one response.)

- ☐ Option 9 (injection below land surface)
- ☐ Option 10 (incorporation into soil within 6 hours)

3.15 Describe any treatment processes used at the land application site to reduce vector attraction properties of sewage sludge.

- ☐ Check here if you have attached your description to the application package.

Cumulative Loadings and Remaining Allotments

3.16 Is the sewage sludge applied to this site since July 20, 1993, subject to the cumulative pollutant loading rates (CPLRs) in 40 CFR 503.13(b)(2)?

- ☐ Yes
- ☐ No → SKIP to Part 2, Section 4.

3.17 Have you contacted the NPDES permitting authority in the state where the bulk sewage sludge subject to CPLRs will be applied to ascertain whether bulk sewage sludge subject to CPLRs has been applied to this site on or since July 20, 1993?

- ☐ Yes
- ☐ No → Sewage sludge subject to CPLRs may not be applied to this site. SKIP to Part 2, Section 4.

3.18 Provide the following information about your NPDES permitting authority:

NPDES permitting authority name	
Contact person	
Telephone number	
Email address	

3.19 Based on your inquiry, has bulk sewage sludge subject to CPLRs been applied to this site since July 20, 1993?

- ☐ Yes
- ☐ No → SKIP to Part 2, Section 4.

3.20 Provide the following information for every facility other than yours that is sending, or has sent, bulk sewage sludge subject to CPLRs to this site since July 20, 1993. If more than one such facility sends sewage sludge to this site, attach additional pages as necessary.

- ☐ Check here to indicate that additional pages are attached.

Facility name			
Mailing address (street or P.O. box)			
City or town		State	ZIP code
Contact name (first and last)	Title	Phone number	Email address

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PART 2, SECTION 4 SURFACE DISPOSAL (40 CFR 122.21(q)(10))

Surface Disposal

4.1	Do you own or operate a surface disposal site? ☐ Yes ☑ No ➔ SKIP to Part 2, Section 5.			
4.2	Complete all items in Section 4 for each active sewage sludge unit that you own or operate. ☐ Check here to indicate that you have attached material to the application package for one or more active sewage sludge units.			
	Information on Active Sewage Sludge Units			
4.3	Unit name or number			
	Mailing address (street or P.O. box)			
	City or town		State	ZIP code
	Contact name (first and last)	Title	Phone number	Email address
	Location address (street, route number, or other specific identifier) ☐ Same as mailing address			
	County		County code ☐ Not available	
	City or town		State	ZIP code
	Latitude/Longitude of Active Sewage Sludge Unit (see instructions)			
	Latitude		**Longitude**	
	° ′ ″		° ′ ″	
	Method of Determination			
	☐ USGS map ☐ Field survey ☐ Other (specify) _____			
4.4	Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location. ☐ Check here to indicate that you have completed and attached a topographic map.			
4.5	Total dry metric tons of sewage sludge placed on the active sewage sludge unit per 365-day period:			
4.6	Total dry metric tons of sewage sludge placed on the active sewage sludge unit over the life of the unit:			
4.7	Does the active sewage sludge unit have a liner with a maximum permeability of 1×10^{-7} centimeters per second (cm/sec)? ☐ Yes ☐ No ➔ SKIP to Item 4.9 (Part 2, Section 4) below.			
4.8	Describe the liner. ☐ Check here to indicate that you have attached a description to the application package.			
4.9	Does the active sewage sludge unit have a leachate collection system? ☐ Yes ☐ No ➔ SKIP to Item 4.11 (Part 2, Section 4) below.			
4.10	Describe the leachate collection system and the method used for leachate disposal and provide the numbers of any federal, state, or local permit(s) for leachate disposal. ☐ Check here to indicate that you have attached the description to the application package.			

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Surface Disposal Continued

4.11	Is the boundary of the active sewage sludge unit less than 150 meters from the property line of the surface disposal site? ☐ Yes ☐ No ➔ SKIP to Item 4.13 (Part 2, Section 4) below.	
4.12	Provide the actual distance in meters:	meters
4.13	Remaining capacity of active sewage sludge unit in dry metric tons:	dry metric tons
4.14	Anticipated closure date for active sewage sludge unit, if known (MM/DD/YYYY):	
4.15	Attach a copy of any closure plan that has been developed for this active sewage sludge unit. ☐ Check here to indicate that you have attached a copy of the closure plan to the application package.	

Sewage Sludge from Other Facilities

4.16	Is sewage sludge sent to this active sewage sludge unit from any facilities other than your facility? ☐ Yes ☐ No ➔ SKIP to Item 4.21 (Part 2, Section 4) below.	
4.17	Indicate the total number of facilities (other than your facility) that send sewage sludge to this active sewage sludge unit. (Complete Items 4.18 to 4.20 directly below for each such facility.) ☐ Check here to indicate that you have attached responses for each facility to the application package.	

4.18	Facility name			
	Mailing address (street or P.O. box)			
	City or town		State	ZIP code
	Contact name (first and last)	Title	Phone number	Email address

4.19 Indicate the pathogen class and reduction alternative and the vector attraction reduction option met for the sewage sludge before leaving the other facility.

Pathogen Class and Reduction Alternative	Vector Attraction Reduction Option
☐ Not applicable	☐ Not applicable
☐ Class A, Alternative 1	☐ Option 1
☐ Class A, Alternative 2	☐ Option 2
☐ Class A, Alternative 3	☐ Option 3
☐ Class A, Alternative 4	☐ Option 4
☐ Class A, Alternative 5	☐ Option 5
☐ Class A, Alternative 6	☐ Option 6
☐ Class B, Alternative 1	☐ Option 7
☐ Class B, Alternative 2	☐ Option 8
☐ Class B, Alternative 3	☐ Option 9
☐ Class B, Alternative 4	☐ Option 10
☐ Domestic septage, pH adjustment	☐ Option 11

4.20 Which treatment process(es) are used at the other facility to reduce pathogens in sewage sludge or reduce the vector attraction properties of sewage sludge before leaving the other facility? (Check all that apply.)

☐ Preliminary operations (e.g., sludge grinding and degritting)	☐ Thickening (concentration)
☐ Stabilization	☐ Anaerobic digestion
☐ Composting	☐ Conditioning
☐ Disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization)	☐ Dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons)
☐ Heat drying	☐ Thermal reduction
☐ Methane or biogas capture and recovery	☐ Other (specify) _____

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Surface Disposal Continued

Vector Attraction Reduction

4.21 Which vector attraction reduction option, if any, is met when sewage sludge is placed on this active sewage sludge unit?

☐ Option 9 (Injection below and surface)
☐ Option 10 (Incorporation into soil within 6 hours)
☐ Option 11 (Covering active sewage sludge unit daily)
☐ None

4.22 Describe any treatment processes used at the active sewage sludge unit to reduce vector attraction properties of sewage sludge.

☐ Check here if you have attached your description to the application package.

Groundwater Monitoring

4.23 Is groundwater monitoring currently conducted at this active sewage sludge unit, or are groundwater monitoring data otherwise available for this active sewage sludge unit?

☐ Yes
☐ No → SKIP to Item 4.26 (Part 2, Section 4) below.

4.24 Provide a copy of available groundwater monitoring data.

☐ Check here to indicate you have attached the monitoring data.

4.25 Describe the well locations, the approximate depth to groundwater, and the groundwater monitoring procedures used to obtain these data.

☐ Check here if you have attached your description to the application package.

4.26 Has a groundwater monitoring program been prepared for this active sewage sludge unit?

☐ Yes
☐ No → SKIP to Item 4.28 (Part 2, Section 4) below.

4.27 Submit a copy of the groundwater monitoring program with this permit application.

☐ Check here to indicate you have attached the monitoring program.

4.28 Have you obtained a certification from a qualified groundwater scientist that the aquifer below the active sewage sludge unit has not been contaminated?

☐ Yes
☐ No → SKIP to Item 4.30 (Part 2, Section 4) below.

4.29 Submit a copy of the certification with this permit application.

☐ Check here to indicate you have attached the certification to the application package.

Site-Specific Limits

4.30 Are you seeking site-specific pollutant limits for the sewage sludge placed on the active sewage sludge unit?

☐ Yes
☐ No → SKIP to Part 2, Section 5.

4.31 Submit information to support the request for site-specific pollutant limits with this application.

☐ Check here to indicate you have attached the requested information.

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PART 2, SECTION 5 INCINERATION (40 CFR 122.21(q)(11))

Incineration

Incinerator Information

5.1 Do you fire sewage sludge in a sewage sludge incinerator?

☐ Yes ☑ No → SKIP to END.

5.2 Indicate the total number of incinerators used at your facility. (Complete the remainder of Section 5 for each such incinerator.)

☐ Check here to indicate that you have attached information for one or more incinerators.

5.3 Incinerator name or number

Location address (street, route number, or other specific identifier)

County	County code	☐ Not available
City or town	State	ZIP code

Latitude/Longitude of Incinerator (see instructions)

Latitude	Longitude
° ′ ″	° ′ ″

Method of Determination

☐ USGS map ☐ Field survey ☐ Other (specify) _____

Amount Fired

5.4 Dry metric tons per 365-day period of sewage sludge fired in the sewage sludge incinerator:

Beryllium NESHAP

5.5 Submit information, test data, and a description of measures taken that demonstrate whether the sewage sludge incinerated is beryllium-containing waste and will continue to remain as such.

☐ Check here to indicate that you have attached this material to the application package.

5.6 Is the sewage sludge fired in this incinerator "beryllium-containing waste" as defined at 40 CFR 61.31?

☐ Yes ☐ No → SKIP to Item 5.8 (Part 2, Section 5) below.

5.7 Submit with this application a complete report of the latest beryllium emission rate testing *and* documentation of ongoing incinerator operating parameters indicating that the NESHAP emission rate limit for beryllium has been and will continue to be met.

☐ Check here to indicate that you have attached this information.

Mercury NESHAP

5.8 Is compliance with the mercury NESHAP being demonstrated via stack testing?

☐ Yes ☐ No → SKIP to Item 5.11 (Part 2, Section 5) below.

5.9 Submit a complete report of stack testing and documentation of ongoing incinerator operating parameters indicating that the incinerator has met and will continue to meet the mercury NESHAP emission rate limit.

☐ Check here to indicate that you have attached this information.

5.10 Provide copies of mercury emission rate tests for the two most recent years in which testing was conducted.

☐ Check here to indicate that you have attached this information.

5.11 Do you demonstrate compliance with the mercury NESHAP by sewage sludge sampling?

☐ Yes ☐ No → SKIP to Item 5.13 (Part 2, Section 5) below.

5.12 Submit a complete report of sewage sludge sampling and documentation of ongoing incinerator operating parameters indicating that the incinerator has met and will continue to meet the mercury NESHAP emission rate limit.

☐ Check here to indicate that you have attached this information.

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Incineration Continued

Dispersion Factor

5.13	Dispersion factor in micrograms/cubic meter per gram/second:	
5.14	Name and type of dispersion model:	
5.15	Submit a copy of the modeling results and supporting documentation. ☐ Check here to indicate that you have attached this information.	

Control Efficiency

5.16 Provide the control efficiency, in hundredths, for each of the pollutants listed below.

Pollutant	Control Efficiency, in Hundredths
Arsenic	
Cadmium	
Chromium	
Lead	
Nickel	

5.17	Attach a copy of the results or performance testing and supporting documentation (including testing dates). ☐ Check here to indicate that you have attached this information.	

Risk-Specific Concentration for Chromium

5.18	Provide the risk-specific concentration (RSC) used for chromium in micrograms per cubic meter:	
5.19	Was the RSC determined via Table 2 in 40 CFR 503.43? ☐ Yes ☐ No ➔ SKIP to Item 5.21 (Part 2, Section 5) below.	
5.20	Identify the type of incinerator used as the basis. ☐ Fluidized bed with wet scrubber ☐ Other types with wet scrubber ☐ Fluidized bed with wet scrubber and wet electrostatic precipitator ☐ Other types with wet scrubber and wet electrostatic precipitator	
5.21	Was the RSC determined via Table 6 in 40 CFR 503.43 (site-specific determination)? ☐ Yes ☐ No ➔ SKIP to Item 5.23 (Part 2, Section 5) below.	
5.22	Provide the decimal fraction of hexavalent chromium concentration to total chromium concentration in stack exit gas:	
5.23	Attach the results of incinerator stack tests for hexavalent and total chromium concentrations, including the date(s) of any test(s), with this application. ☐ Check here to indicate that you have attached this information. ☐ Not applicable	

Incinerator Parameters

5.24	Do you monitor total hydrocarbons (THC) in the exit gas of the sewage sludge incinerator? ☐ Yes ☐ No	
5.25	Do you monitor carbon monoxide (CO) in the exit gas of the sewage sludge incinerator? ☐ Yes ☐ No	
5.26	Indicate the type of sewage sludge incinerator.	
5.27	Incinerator stack height in meters:	
5.28	Indicate whether the value submitted in Item 5.27 is (check only one response): ☐ Actual stack height ☐ Creditable stack height	

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Incineration Continued

Performance Test Operating Parameters

5.29	Maximum performance test combustion temperature:	
5.30	Performance test sewage sludge feed rate, in dry metric tons/day	
5.31	Indicate whether value submitted in Item 5.30 is (check only one response): ☐ Average use ☐ Maximum design	
5.32	Attach supporting documents describing how the feed rate was calculated. ☐ Check here to indicate that you have attached this information.	
5.33	Submit information documenting the performance test operating parameters for the air pollution control device(s) used for this sewage sludge incinerator. ☐ Check here to indicate that you have attached this information.	

Monitoring Equipment

5.34 List the equipment in place to monitor the listed parameters.

Parameter	Equipment in Place for Monitoring
Total hydrocarbons or carbon monoxide	
Percent oxygen	
Percent moisture	
Combustion temperature	
Other (describe)	

Air Pollution Control Equipment

5.35 List all air pollution control equipment used with this sewage sludge incinerator.

☐ Check here if you have attached the list to the application package for the noted incinerator.

END of PART 2

Submit completed application package to your NPDES permitting authority.

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MICRO-METHODS
LABORATORY, INC.

Mailing Address:
PO Box 1410
Ocean Springs, MS
39566-1410

6500 Sunplex Drive
Ocean Springs, MS 39564
228.875.6420 Phone
228.875.6423 Fax

May 07, 2024

Brock Jones

Work Order # : 2404412

Purchase Order #:

City of Chickasaw
224 Grant Street
Mobile, AL 36611

RE: Permit Renewal

Enclosed are Micro-Methods Laboratory, Inc. results of analyses performed on samples received 04/17/2024 14:34. If you have any questions concerning this report, please feel free to contact the office.

Sincerely,

Mitch Spicer

Lab Director
Micro-Methods Laboratory, Inc.

NELAP ACCREDITED TNI LABORATORY

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MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

City of Chickasaw
224 Grant Street
Mobile AL, 36611

Project: Permit Renewal
Project Number: Permit Renewal-2024
Project Manager: Brock Jones

Reported:
05/07/2024 09:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date/Time Sampled	Sampled by	Date/Time Received
Effluent-Grab	2404412-01	Water	04/17/2024 10:15	*Clifford W. Meins*	04/17/2024 14:34
Effluent-Composite	2404412-02	Water	04/17/2024 10:20	*Clifford W. Meins*	04/17/2024 14:34
Trip Blank TBV#7392	2404412-03	Water	04/17/2024 10:15	*Micro Methods*	04/17/2024 14:34

Sample Receipt Conditions

Date/Time Received: 4/17/2024 2:34:00PM
Received by: Sarah E. Tomek
Date/Time Logged: 4/17/2024 2:34:00PM
Cooler ID: #1140

Shipped by: Lab Pick-up
Submitted by: Clifford W. Meins
Logged by: Sarah E. Tomek
Receipt Temperature: -0.4 °C

Cooler Custody Seals Present	No	*Received on Ice but Not Frozen*	Yes
Containers Intact	Yes	*No Ice, Short Trip*	No
COC/Labels Agree	Yes	*Obvious Contamination*	No
Labels Complete	No	*Rush to meet HT*	No
COC Complete	Yes	*Received within HT*	Yes
Volatile Vial Headspace >6mm	No	*Proper Containers for Analysis*	Yes
Field Sheet/Instructions Included	No	*Correct Preservation*	Yes
Samples Rejected/Documented in Log	No	*Adequate Sample for Analysis*	Yes
Temp Taken From Temp Blank	No	*Sample Custody Seals Present*	No
Temp Taken From Sample Container	Yes	*Samples Missing from COC/Cooler*	No
Temp Taken From Cooler	No		
COC meets acceptance criteria	Yes		

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MICRO-METHODS
LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
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City of Chickasaw 224 Grant Street Mobile AL, 36611	Project: Permit Renewal Project Number: Permit Renewal-2024 Project Manager: Brock Jones	**Reported:** 05/07/2024 09:53

CASE NARRATIVE SUMMARY

All reported results are within Micro-Methods Laboratory, Inc.defined laboratory quality control objectives unless detailed in narrative summary or identified as qualifications. NOTE: All results listed on this report are calculated on a wet weight basis (as received by the laboratory) unless otherwise noted in the analysis qualification sections.

Summary Comments:

Volatile Technician Comments - BSF:
Sample(s) analyzed with zero headspace. 624.1
pH of sample(s) is less than two in preserved vials. 624.1

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Volatile Organic Compounds by GCMS EPA 624.1-EPA 624.1

Qualifiers:

CC-01 CCV outside acceptance limits. Sample results reported from this calibration were below the reporting limits.

Acrolein
2404412-01[Effluent-Grab], 2404412-03[Trip Blank TBV#7392], 4E02050-BLK1

CC-03 CCV outside acceptance limits. QC Results reported from this calibration within acceptance limits.

Acrolein
4E02050-MS1, 4E02050-MSD1

CC-04 CCV outside acceptance limits. Results reported are estimated values.

Acrolein
4E02050-BS1

L1 LCS and/or LCSD Recovery Limit exceeded.

Acrolein
4E02050-BS1

M1 MS/MSD Recovery limit exceeded.

1,1,2-Trichloroethane, Chlorodibromomethane, Chloroform, Dichlorobromomethane
4E02050-MS1

Semivolatile Organic Compounds by 625.1-EPA 625.1

Qualifiers:

L2 LCS and/or LCSD Recovery below acceptance limit.

1,2-Dichlorobenzene, 1,3-Dichlorobenzene, Hexachlorocyclopentadiene, Hexachloroethane, N-Nitrosodimethylamine
4D23030-BS1, 4D23030-BSD1

SR05 Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two acid surrogates.

Phenol-d5
4D23030-BS1, 4D23030-BSD1

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Cyanide Total-SM 4500-CN E 2016

Qualifiers:

RPD0 Either the source sample or the duplicate sample result is <MDL. Unable to calculate RPD.

Cyanide (total)

4D23035-DUP1

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Project: Permit Renewal
Project Number: Permit Renewal-2024
Project Manager: Brock Jones

Reported:
05/07/2024 09:53

Effluent-Grab

2404412-01 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Oil & Grease (HEM)	ND	5.00	mg/L	1.0	4D24031	jbm	04/24/2024 08:15	04/24/2024 16:15	EPA 1664A	
Acid and Base/Neutral Extractables by EPA Method 625.1										
2-Chlorophenol	ND	3.3	ug/L	1.0	4D23030	CRLV	04/23/2024 08:12	05/01/2024 18:39	EPA 625.1	
2,4-Dichlorophenol	ND	2.7	"	"	"	CRLV	"	"	"	
2,4-Dimethylphenol	ND	2.7	"	"	"	CRLV	"	"	"	
4,6-Dinitro-o-cresol	ND	3.3	"	"	"	CRLV	"	"	"	
2,4-Dinitrophenol	ND	5.1	"	"	"	CRLV	"	"	"	
2-Nitrophenol	ND	3.6	"	"	"	CRLV	"	"	"	
4-Nitrophenol	ND	2.4	"	"	"	CRLV	"	"	"	
p-Chloro-m-cresol	ND	3.0	"	"	"	CRLV	"	"	"	
Pentachlorophenol	ND	3.6	"	"	"	CRLV	"	"	"	
Phenol	ND	1.5	"	"	"	CRLV	"	"	"	
2,4,6-Trichlorophenol	ND	2.7	"	"	"	CRLV	"	"	"	
Acenaphthene	ND	1.9	"	"	"	CRLV	"	"	"	
Acenaphthylene	ND	3.5	"	"	"	CRLV	"	"	"	
Anthracene	ND	1.9	"	"	"	CRLV	"	"	"	
Benzidine	ND	15.2	"	"	"	CRLV	"	"	"	
Benzo (a) anthracene	ND	7.9	"	"	"	CRLV	"	"	"	
Benzo (a) pyrene	ND	2.5	"	"	"	CRLV	"	"	"	
3,4-Benzo-fluoranthene	ND	4.8	"	"	"	CRLV	"	"	"	
Benzo (g,h,i) perylene	ND	4.1	"	"	"	CRLV	"	"	"	
Benzo (k) fluoranthene	ND	2.5	"	"	"	CRLV	"	"	"	
Bis(2-chloroethoxy)methane	ND	5.4	"	"	"	CRLV	"	"	"	
Bis(2-chloroethyl)ether	ND	5.8	"	"	"	CRLV	"	"	"	
Bis(2-chloroisopropyl)ether	ND	5.8	"	"	"	CRLV	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	2.5	"	"	"	CRLV	"	"	"	
4-Bromophenyl phenyl ether	ND	1.9	"	"	"	CRLV	"	"	"	
Butyl benzyl phthalate	ND	2.5	"	"	"	CRLV	"	"	"	
2-Chloronaphthalene	ND	1.9	"	"	"	CRLV	"	"	"	
4-Chlorophenyl phenyl ether	ND	4.2	"	"	"	CRLV	"	"	"	
Chrysene	ND	2.5	"	"	"	CRLV	"	"	"	
Dibenz (a,h) anthracene	ND	2.5	"	"	"	CRLV	"	"	"	
1,2-Dichlorobenzene	ND	1.9	"	"	"	CRLV	"	"	"	
1,3-Dichlorobenzene	ND	1.9	"	"	"	CRLV	"	"	"	
1,4-Dichlorobenzene	ND	4.4	"	"	"	CRLV	"	"	"	
3,3'-Dichlorobenzidine	ND	5.1	"	"	"	CRLV	"	"	"	
Diethyl phthalate	ND	1.9	"	"	"	CRLV	"	"	"	
Dimethyl phthalate	ND	1.6	"	"	"	CRLV	"	"	"	
Di-n-butyl phthalate	ND	2.5	"	"	"	CRLV	"	"	"	

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City of Chickasaw
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Project: Permit Renewal
Project Number: Permit Renewal-2024
Project Manager: Brock Jones

Reported:
05/07/2024 09:53

Effluent-Grab

2404412-01 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Acid and Base/Neutral Extractables by EPA Method 625.1										
2,4-Dinitrotoluene	ND	5.8	ug/L	1.0	4D23030	CRLV	04/23/2024 08:12	"	"	
2,6-Dinitrotoluene	ND	1.9	"	"	"	CRLV	"	"	"	
Di-n-octyl phthalate	ND	2.5	"	"	"	CRLV	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	ND	10.1	"	"	"	CRLV	"	"	"	
Fluoranthene	ND	2.2	"	"	"	CRLV	"	"	"	
Fluorene	ND	1.9	"	"	"	CRLV	"	"	"	
Hexachlorobenzene	ND	1.9	"	"	"	CRLV	"	"	"	
Hexachlorobutadiene	ND	0.9	"	"	"	CRLV	"	"	"	
Hexachlorocyclopentadiene	ND	2.4	"	"	"	CRLV	"	05/02/2024 15:06	"	
Hexachloroethane	ND	1.4	"	"	"	CRLV	"	05/01/2024 18:39	"	
Indeno (1,2,3-cd) pyrene	ND	3.7	"	"	"	CRLV	"	"	"	
Isophorone	ND	2.2	"	"	"	CRLV	"	"	"	
Naphthalene	ND	1.6	"	"	"	CRLV	"	"	"	
Nitrobenzene	ND	1.9	"	"	"	CRLV	"	"	"	
N-Nitrosodimethylamine	ND	1.5	"	"	"	CRLV	"	"	"	
N-Nitrosodi-n-propylamine	ND	1.9	"	"	"	CRLV	"	"	"	
N-Nitrosodiphenylamine	ND	1.9	"	"	"	CRLV	"	"	"	
Phenanthrene	ND	5.5	"	"	"	CRLV	"	"	"	
Pyrene	ND	1.9	"	"	"	CRLV	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	CRLV	"	"	"	

Surrogate		*% Rec*	*Rec Limits*	*Batch*		*Date Time Prepared*	*Date Time Analyzed*	*Method*	*Notes*
2,4,6-Tribromophenol	11.8	*117 %*	*19.6-127*	"	CRLV	"	"	"	
2-Fluorobiphenyl	3.58	*70.8 %*	*13.3-104*	"	CRLV	"	"	"	
2-Fluorophenol	5.09	*50.4 %*	*11.4-100*	"	CRLV	"	"	"	
Nitrobenzene-d5	3.97	*78.6 %*	*10-100*	"	CRLV	"	"	"	
Phenol-d5	3.43	*34.0 %*	*10-100*	"	CRLV	"	"	"	
Terphenyl-dl4	4.31	*85.4 %*	*10-116*	"	CRLV	"	"	"	

Purgeables by EPA Method 624.1

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Reported:
05/07/2024 09:53

Effluent-Grab

2404412-01 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Purgeables by EPA Method 624.1										
Acrolein	ND	5.00	ug/L	1.0	4E02050	BSF	05/01/2024 08:00	05/01/2024 17:52	EPA 624.1	CC-01
Acrylonitrile	ND	5.00	"	"	"	BSF	"	05/01/2024 12:42	"	
Benzene	ND	3.50	"	"	"	BSF	"	"	"	
Bromoform	ND	4.70	"	"	"	BSF	"	"	"	
Carbon Tetrachloride	ND	2.80	"	"	"	BSF	"	"	"	
Chlorobenzene	ND	3.21	"	"	"	BSF	"	"	"	
Chlorodibromomethane	ND	3.10	"	"	"	BSF	"	"	"	
Chloroethane	ND	3.88	"	"	"	BSF	"	"	"	
2-Chloroethylvinyl ether	ND	10.0	"	"	"	BSF	"	"	"	
Chloroform	**14.7**	1.60	"	"	"	BSF	"	"	"	
Dichlorobromomethane	**2.39**	2.20	"	"	"	BSF	"	"	"	
1,1-Dichloroethane	ND	3.42	"	"	"	BSF	"	"	"	
1,2-Dichloroethane	ND	2.80	"	"	"	BSF	"	"	"	
1,1-Dichloroethylene	ND	2.80	"	"	"	BSF	"	"	"	
1,2-Dichloropropane	ND	2.92	"	"	"	BSF	"	"	"	
cis-1,3-Dichloropropylene	ND	3.87	"	"	"	BSF	"	"	"	
trans-1,3-Dichloropropylene	ND	2.78	"	"	"	BSF	"	"	"	
Ethylbenzene	ND	4.10	"	"	"	BSF	"	"	"	
Methyl Bromide	ND	4.35	"	"	"	BSF	"	"	"	
Methyl Chloride	ND	4.61	"	"	"	BSF	"	"	"	
Methylene chloride	ND	2.77	"	"	"	BSF	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.13	"	"	"	BSF	"	"	"	
Tetrachloroethylene	ND	4.10	"	"	"	BSF	"	"	"	
Toluene	ND	4.46	"	"	"	BSF	"	"	"	
trans-1,2-Dichloroethylene	ND	1.60	"	"	"	BSF	"	"	"	
1,1,1-Trichloroethane	ND	2.93	"	"	"	BSF	"	"	"	
1,1,2-Trichloroethane	ND	3.66	"	"	"	BSF	"	"	"	
Trichloroethylene	ND	1.90	"	"	"	BSF	"	"	"	
Vinyl chloride	ND	3.74	"	"	"	BSF	"	"	"	

Surrogate		*% Rec*	*Rec Limits*	*Batch*		*Date Time Prepared*	*Date Time Analyzed*	*Method*	*Notes*
Dibromofluoromethane	53.2	*106 %*	*70-130*	"	BSF	"	"	"	
1,2-Dichloroethane-d4	54.1	*108 %*	*70-130*	"	BSF	"	"	"	
Toluene-d8	47.5	*94.9 %*	*70-130*	"	BSF	"	"	"	
4-Bromofluorobenzene	51.3	*103 %*	*70-130*	"	BSF	"	"	"	

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Project: Permit Renewal
Project Number: Permit Renewal-2024
Project Manager: Brock Jones

Reported:
05/07/2024 09:53

Effluent-Composite

2404412-02 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Cyanide (total)	ND	0.050	mg/L	1.0	4D23035	CRG	04/23/2024 10:40	04/23/2024 10:46	SM 4500-CN E 2016	
Hardness (EDTA) as CaCO3	**53.0**	1.78	"	"	4D23042	ASW	04/23/2024 11:00	04/23/2024 14:12	SM 2340C-2011	
Phenolics, Total	ND	0.050	"	"	4D22019	DLW	04/22/2024 08:20	04/22/2024 14:53	EPA 420.1 1978	
Total Dissolved Solids	**116**	1	"	"	4D19038	DLW	04/19/2024 16:10	04/19/2024 16:10	SM 2540 C-2015	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4D18030	SCH	04/18/2024 13:10	04/19/2024 12:49	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Copper [He]	**0.00333**	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Nickel [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Silver [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Zinc [He]	**0.00874**	0.00500	"	"	"	SCH	"	"	"	

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Project: Permit Renewal
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Project Manager: Brock Jones

Reported:
05/07/2024 09:53

Trip Blank TBV#7392

2404412-03 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Purgeables by EPA Method 624.1										
Acrolein	ND	5.00	ug/L	1.0	4E02050	BSF	05/01/2024 08:00	05/01/2024 18:16	EPA 624.1	CC-01
Acrylonitrile	ND	5.00	"	"	"	BSF	"	05/01/2024 13:08	"	
Benzene	ND	3.50	"	"	"	BSF	"	"	"	
Bromoform	ND	4.70	"	"	"	BSF	"	"	"	
Carbon Tetrachloride	ND	2.80	"	"	"	BSF	"	"	"	
Chlorobenzene	ND	3.21	"	"	"	BSF	"	"	"	
Chlorodibromomethane	ND	3.10	"	"	"	BSF	"	"	"	
Chloroethane	ND	3.88	"	"	"	BSF	"	"	"	
2-Chloroethylvinyl ether	ND	10.0	"	"	"	BSF	"	"	"	
Chloroform	ND	1.60	"	"	"	BSF	"	"	"	
Dichlorobromomethane	ND	2.20	"	"	"	BSF	"	"	"	
1,1-Dichloroethane	ND	3.42	"	"	"	BSF	"	"	"	
1,2-Dichloroethane	ND	2.80	"	"	"	BSF	"	"	"	
1,1-Dichloroethylene	ND	2.80	"	"	"	BSF	"	"	"	
1,2-Dichloropropane	ND	2.92	"	"	"	BSF	"	"	"	
cis-1,3-Dichloropropylene	ND	3.87	"	"	"	BSF	"	"	"	
trans-1,3-Dichloropropylene	ND	2.78	"	"	"	BSF	"	"	"	
Ethylbenzene	ND	4.10	"	"	"	BSF	"	"	"	
Methyl Bromide	ND	4.35	"	"	"	BSF	"	"	"	
Methyl Chloride	ND	4.61	"	"	"	BSF	"	"	"	
Methylene chloride	ND	2.77	"	"	"	BSF	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.13	"	"	"	BSF	"	"	"	
Tetrachloroethylene	ND	4.10	"	"	"	BSF	"	"	"	
Toluene	ND	4.46	"	"	"	BSF	"	"	"	
trans-1,2-Dichloroethylene	ND	1.60	"	"	"	BSF	"	"	"	
1,1,1-Trichloroethane	ND	2.93	"	"	"	BSF	"	"	"	
1,1,2-Trichloroethane	ND	3.66	"	"	"	BSF	"	"	"	
Trichloroethylene	ND	1.90	"	"	"	BSF	"	"	"	
Vinyl chloride	ND	3.74	"	"	"	BSF	"	"	"	

Surrogate		*% Rec*	*Rec Limits*	*Batch*		*Date Time Prepared*	*Date Time Analyzed*	*Method*	*Notes*
Dibromofluoromethane	52.7	*105 %*	*70-130*	"	BSF	"	"	"	
1,2-Dichloroethane-d4	55.0	*110 %*	*70-130*	"	BSF	"	"	"	
Toluene-d8	47.3	*94.6 %*	*70-130*	"	BSF	"	"	"	
4-Bromofluorobenzene	51.4	*103 %*	*70-130*	"	BSF	"	"	"	

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Project: Permit Renewal
Project Number: Permit Renewal-2024
Project Manager: Brock Jones

Reported:
05/07/2024 09:53

Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4D19038 - Default Prep GenChem											
Blank (4D19038-BLK1)											
Total Dissolved Solids	4/19/24 16:10	ND	1	mg/L							
LCS (4D19038-BS1)											
Total Dissolved Solids	4/19/24 16:10	83	1	mg/L	99.8		83.2	69.8-100			
LCS Dup (4D19038-BSD1)											
Total Dissolved Solids	4/19/24 16:10	79	1	mg/L	99.8		79.2	69.8-100	4.94	10	
Duplicate (4D19038-DUP1)			**Source: 2404376-01**								
Total Dissolved Solids	4/19/24 16:10	347	1	mg/L		336			3.22	10	
Batch 4D22019 - Default Prep GenChem											
Blank (4D22019-BLK1)											
Phenolics, Total	4/22/24 14:53	ND	0.050	mg/L							
LCS (4D22019-BS1)											
Phenolics, Total	4/22/24 14:53	0.096	0.050	mg/L	0.101		95.0	67-117			
LCS Dup (4D22019-BSD1)											
Phenolics, Total	4/22/24 14:53	0.088	0.050	mg/L	0.101		87.1	67-117	8.70	30	
Matrix Spike (4D22019-MS1)			**Source: 2404441-01**								
Phenolics, Total	4/22/24 14:53	0.100	0.050	mg/L	0.101	ND	99.0	47.1-119			
Batch 4D23035 - Default Prep GenChem											
Blank (4D23035-BLK1)											
Cyanide (total)	4/23/24 10:46	ND	0.050	mg/L							

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Project: Permit Renewal
Project Number: Permit Renewal-2024
Project Manager: Brock Jones

Reported:
05/07/2024 09:53

Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4D23035 - Default Prep GenChem											
LCS (4D23035-BS1)											
Cyanide (total)	4/23/24 10:46	0.394	0.050	mg/L	0.400		98.5	82.6-115			
LCS Dup (4D23035-BSD1)											
Cyanide (total)	4/23/24 10:46	0.395	0.050	mg/L	0.400		98.8	82.6-115	0.329	20	
Duplicate (4D23035-DUP1)			**Source: 2404437-01**								
Cyanide (total)	4/23/24 10:46	0.016	0.050	mg/L		ND			200	20	RPD0
Matrix Spike (4D23035-MS1)			**Source: 2404437-01**								
Cyanide (total)	4/23/24 10:46	0.377	0.050	mg/L	0.400	ND	94.2	77.2-117			
Matrix Spike Dup (4D23035-MSD1)			**Source: 2404437-01**								
Cyanide (total)	4/23/24 10:46	0.375	0.050	mg/L	0.400	ND	93.8	77.2-117	0.346	25	
Batch 4D23042 - Default Prep GenChem											
Blank (4D23042-BLK1)											
Hardness (EDTA) as CaCO3	4/23/24 14:12	ND	1.78	mg/L							
LCS (4D23042-BS1)											
Hardness (EDTA) as CaCO3	4/23/24 14:12	50.0	1.78	mg/L	50.0		100	90-110			
LCS Dup (4D23042-BSD1)											
Hardness (EDTA) as CaCO3	4/23/24 14:12	50.0	1.78	mg/L	50.0		100	90-110	0.00	20	
Duplicate (4D23042-DUP1)			**Source: 2404412-02**								
Hardness (EDTA) as CaCO3	4/23/24 14:12	53.0	1.78	mg/L		53.0			0.00	35	

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Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4D24031 - Default Prep GenChem											
Blank (4D24031-BLK1)											
Oil & Grease (HEM)	4/24/24 16:15	ND	5.00	mg/L							
LCS (4D24031-BS1)											
Oil & Grease (HEM)	4/24/24 16:15	34.9	5.00	mg/L	40.0		86.1	78-114			
LCS Dup (4D24031-BSD1)											
Oil & Grease (HEM)	4/24/24 16:15	35.8	5.00	mg/L	40.0		89.6	78-114	2.61	18	
Matrix Spike (4D24031-MS1)			**Source: 2404387-02**								
Oil & Grease (HEM)	4/24/24 16:15	34.8	5.00	mg/L	38.2	ND	91.1	78-114			

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Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4D18030 - EPA 200.2 DCN 1017 Rev 10											
Blank (4D18030-BLK1)											
Antimony [He]	4/19/24 12:10	ND	0.00200	mg/L							
Arsenic [He]	4/19/24 12:10	ND	0.00200	"							
Beryllium [He]	4/19/24 12:10	ND	0.00100	"							
Cadmium [He]	4/19/24 12:10	ND	0.00100	"							
Chromium [He]	4/19/24 12:10	ND	0.00100	"							
Copper [He]	4/19/24 12:10	ND	0.00100	"							
Lead [He]	4/19/24 12:10	ND	0.00100	"							
Nickel [He]	4/19/24 12:10	ND	0.00100	"							
Selenium [He]	4/19/24 12:10	ND	0.00100	"							
Silver [He]	4/19/24 12:10	ND	0.00100	"							
Thallium [He]	4/19/24 12:10	ND	0.00100	"							
Zinc [He]	4/19/24 12:10	ND	0.00500	"							
LCS (4D18030-BS1)											
Antimony [He]	4/19/24 11:31	0.103	0.00200	mg/L	0.100		103	85-115			
Arsenic [He]	4/19/24 11:31	0.101	0.00200	"	0.100		101	85-115			
Beryllium [He]	4/19/24 11:31	0.102	0.00100	"	0.100		102	85-115			
Cadmium [He]	4/19/24 11:31	0.101	0.00100	"	0.100		101	85-115			
Chromium [He]	4/19/24 11:31	0.103	0.00100	"	0.100		103	85-115			
Copper [He]	4/19/24 11:31	0.105	0.00100	"	0.100		105	85-115			
Lead [He]	4/19/24 11:31	0.102	0.00100	"	0.100		102	85-115			
Nickel [He]	4/19/24 11:31	0.103	0.00100	"	0.100		103	85-115			
Selenium [He]	4/19/24 11:31	0.097	0.00100	"	0.100		97.4	85-115			
Silver [He]	4/19/24 11:31	0.051	0.00100	"	0.0500		102	85-115			
Thallium [He]	4/19/24 11:31	0.101	0.00100	"	0.100		101	85-115			
Zinc [He]	4/19/24 11:31	0.102	0.00500	"	0.100		102	85-115			
LCS Dup (4D18030-BSD1)											
Antimony [He]	4/19/24 11:35	0.108	0.00200	mg/L	0.100		108	85-115	4.73	20	
Arsenic [He]	4/19/24 11:35	0.104	0.00200	"	0.100		104	85-115	2.86	20	
Beryllium [He]	4/19/24 11:35	0.105	0.00100	"	0.100		105	85-115	2.85	20	
Cadmium [He]	4/19/24 11:35	0.105	0.00100	"	0.100		105	85-115	4.23	20	
Chromium [He]	4/19/24 11:35	0.106	0.00100	"	0.100		106	85-115	3.22	20	
Copper [He]	4/19/24 11:35	0.109	0.00100	"	0.100		109	85-115	4.10	20	
Lead [He]	4/19/24 11:35	0.106	0.00100	"	0.100		106	85-115	3.75	20	
Nickel [He]	4/19/24 11:35	0.106	0.00100	"	0.100		106	85-115	3.02	20	
Selenium [He]	4/19/24 11:35	0.100	0.00100	"	0.100		100	85-115	2.84	20	
Silver [He]	4/19/24 11:35	0.053	0.00100	"	0.0500		105	85-115	2.70	20	
Thallium [He]	4/19/24 11:35	0.106	0.00100	"	0.100		106	85-115	4.53	20	
Zinc [He]	4/19/24 11:35	0.106	0.00500	"	0.100		106	85-115	4.12	20	

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Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4D18030 - EPA 200.2 DCN 1017 Rev 10											
Matrix Spike (4D18030-MS1)			**Source: 2404376-01**								
Antimony [He]	4/19/24 12:32	0.105	0.00200	mg/L	0.100	ND	105	70-130			
Arsenic [He]	4/19/24 12:32	0.100	0.00200	"	0.100	0.00008	99.5	70-130			
Beryllium [He]	4/19/24 12:32	0.095	0.00100	"	0.100	ND	94.9	70-130			
Cadmium [He]	4/19/24 12:32	0.099	0.00100	"	0.100	ND	98.5	70-130			
Chromium [He]	4/19/24 12:32	0.096	0.00100	"	0.100	ND	95.8	70-130			
Copper [He]	4/19/24 12:32	0.097	0.00100	"	0.100	0.002	94.5	70-130			
Lead [He]	4/19/24 12:32	0.103	0.00100	"	0.100	0.0007	103	70-130			
Nickel [He]	4/19/24 12:32	0.094	0.00100	"	0.100	ND	94.1	70-130			
Selenium [He]	4/19/24 12:32	0.100	0.00100	"	0.100	0.0008	99.0	70-130			
Silver [He]	4/19/24 12:32	0.049	0.00100	"	0.0500	ND	97.9	70-130			
Thallium [He]	4/19/24 12:32	0.103	0.00100	"	0.100	ND	103	70-130			
Zinc [He]	4/19/24 12:32	0.096	0.00500	"	0.100	0.002	96.2	70-130			
Matrix Spike Dup (4D18030-MSD1)			**Source: 2404376-01**								
Antimony [He]	4/19/24 12:36	0.106	0.00200	mg/L	0.100	ND	106	70-130	1.43	20	
Arsenic [He]	4/19/24 12:36	0.099	0.00200	"	0.100	0.00008	99.3	70-130	0.132	20	
Beryllium [He]	4/19/24 12:36	0.095	0.00100	"	0.100	ND	95.0	70-130	0.0871	20	
Cadmium [He]	4/19/24 12:36	0.098	0.00100	"	0.100	ND	98.4	70-130	0.117	20	
Chromium [He]	4/19/24 12:36	0.095	0.00100	"	0.100	ND	95.5	70-130	0.392	20	
Copper [He]	4/19/24 12:36	0.097	0.00100	"	0.100	0.002	94.6	70-130	0.112	20	
Lead [He]	4/19/24 12:36	0.102	0.00100	"	0.100	0.0007	101	70-130	1.69	20	
Nickel [He]	4/19/24 12:36	0.095	0.00100	"	0.100	ND	94.6	70-130	0.467	20	
Selenium [He]	4/19/24 12:36	0.096	0.00100	"	0.100	0.0008	95.6	70-130	3.43	20	
Silver [He]	4/19/24 12:36	0.049	0.00100	"	0.0500	ND	99.0	70-130	1.06	20	
Thallium [He]	4/19/24 12:36	0.102	0.00100	"	0.100	ND	102	70-130	0.758	20	
Zinc [He]	4/19/24 12:36	0.097	0.00500	"	0.100	0.002	96.6	70-130	0.382	20	

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Project: Permit Renewal
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Project Manager: Brock Jones

Reported:
05/07/2024 09:53

Acid and Base/Neutral Extractables by EPA Method 625.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4D23030 - EPA 3510C DCN 4000 Rev 12											
Blank (4D23030-BLK1)											
2-Chlorophenol	4/29/24 13:11	ND	3.3	ug/L							
2,4-Dichlorophenol	4/29/24 13:11	ND	2.7	"							
2,4-Dimethylphenol	4/29/24 13:11	ND	2.7	"							
4,6-Dinitro-o-cresol	4/29/24 13:11	ND	3.3	"							
2,4-Dinitrophenol	5/1/24 12:06	ND	5.0	"							
2-Nitrophenol	4/29/24 13:11	ND	3.6	"							
4-Nitrophenol	4/29/24 13:11	ND	2.4	"							
p-Chloro-m-cresol	4/29/24 13:11	ND	3.0	"							
Pentachlorophenol	4/29/24 13:11	ND	3.6	"							
Phenol	4/29/24 13:11	ND	1.5	"							
2,4,6-Trichlorophenol	4/29/24 13:11	ND	2.7	"							
Acenaphthene	4/29/24 13:11	ND	1.9	"							
Acenaphthylene	4/29/24 13:11	ND	3.5	"							
Anthracene	4/29/24 13:11	ND	1.9	"							
Benzidine	5/1/24 12:06	ND	15.0	"							
Benzo (a) anthracene	4/29/24 13:11	ND	7.8	"							
Benzo (a) pyrene	4/29/24 13:11	ND	2.5	"							
3,4-Benzo-fluoranthene	4/29/24 13:11	ND	4.8	"							
Benzo (g,h,i) perylene	4/29/24 13:11	ND	4.1	"							
Benzo (k) fluoranthene	4/29/24 13:11	ND	2.5	"							
Bis(2-chloroethoxy)methane	4/29/24 13:11	ND	5.3	"							
Bis(2-chloroethyl)ether	4/29/24 13:11	ND	5.7	"							
Bis(2-chloroisopropyl)ether	4/29/24 13:11	ND	5.7	"							
Bis(2-ethylhexyl)phthalate	4/29/24 13:11	ND	2.5	"							
4-Bromophenyl phenyl ether	4/29/24 13:11	ND	1.9	"							
Butyl benzyl phthalate	4/29/24 13:11	ND	2.5	"							
2-Chloronaphthalene	4/29/24 13:11	ND	1.9	"							
4-Chlorophenyl phenyl ether	4/29/24 13:11	ND	4.2	"							
Chrysene	4/29/24 13:11	ND	2.5	"							
Dibenz (a,h) anthracene	4/29/24 13:11	ND	2.5	"							
1,2-Dichlorobenzene	4/29/24 13:11	ND	1.9	"							
1,3-Dichlorobenzene	4/29/24 13:11	ND	1.9	"							
1,4-Dichlorobenzene	4/29/24 13:11	ND	4.4	"							
3,3'-Dichlorobenzidine	5/1/24 12:06	ND	5.0	"							
Diethyl phthalate	4/29/24 13:11	ND	1.9	"							
Dimethyl phthalate	4/29/24 13:11	ND	1.6	"							
Di-n-butyl phthalate	4/29/24 13:11	ND	2.5	"							
2,4-Dinitrotoluene	4/29/24 13:11	ND	5.7	"							
2,6-Dinitrotoluene	4/29/24 13:11	ND	1.9	"							
Di-n-octyl phthalate	5/1/24 12:06	ND	2.5	"							
1,2-Diphenylhydrazine as Azobenzene	4/29/24 13:11	ND	10.0	"							
Fluoranthene	4/29/24 13:11	ND	2.2	"							
Fluorene	4/29/24 13:11	ND	1.9	"							
Hexachlorobenzene	4/29/24 13:11	ND	1.9	"							
Hexachlorobutadiene	4/29/24 13:11	ND	0.9	"							

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Acid and Base/Neutral Extractables by EPA Method 625.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4D23030 - EPA 3510C DCN 4000 Rev 12											
Blank (4D23030-BLK1)											
Hexachlorocyclopentadiene	5/1/24 19:48	ND	2.3	ug/L							
Hexachloroethane	4/29/24 13:11	ND	1.4	"							
Indeno (1,2,3-cd) pyrene	4/29/24 13:11	ND	3.7	"							
Isophorone	4/29/24 13:11	ND	2.2	"							
Naphthalene	4/29/24 13:11	ND	1.6	"							
Nitrobenzene	4/29/24 13:11	ND	1.9	"							
N-Nitrosodimethylamine	4/29/24 13:11	ND	1.5	"							
N-Nitrosodi-n-propylamine	4/29/24 13:11	ND	1.9	"							
N-Nitrosodiphenylamine	4/29/24 13:11	ND	1.9	"							
Phenanthrene	4/29/24 13:11	ND	5.4	"							
Pyrene	5/1/24 12:06	ND	1.9	"							
1,2,4-Trichlorobenzene	4/29/24 13:11	ND	1.9	"							
Surrogate: 2,4,6-Tribromophenol		*6.48*		"	*10.0*		*64.8*	*19.6-127*			
Surrogate: 2-Fluorobiphenyl		*2.53*		"	*5.00*		*50.6*	*13.3-104*			
Surrogate: 2-Fluorophenol		*4.29*		"	*10.0*		*42.9*	*11.4-100*			
Surrogate: Nitrobenzene-d5		*2.47*		"	*5.00*		*49.4*	*10-100*			
Surrogate: Phenol-d5		*2.08*		"	*10.0*		*20.8*	*10-100*			
Surrogate: Terphenyl-dl4		*4.22*		"	*5.00*		*84.4*	*10-116*			
LCS (4D23030-BS1)											
2-Chlorophenol	4/29/24 11:45	4.7	3.3	ug/L	10.0		46.7	36-120			
2,4-Dichlorophenol	4/29/24 11:45	7.9	2.7	"	10.0		79.1	53-122			
2,4-Dimethylphenol	4/29/24 11:45	8.2	2.7	"	10.0		81.6	42-120			
4,6-Dinitro-o-cresol	4/29/24 11:45	9.1	3.3	"	10.0		91.4	53-130			
2,4-Dinitrophenol	5/1/24 10:48	4.5	5.0	"	10.0		45.1	10-173			
2-Nitrophenol	4/29/24 11:45	7.0	3.6	"	10.0		70.4	45-167			
4-Nitrophenol	4/29/24 11:45	11.9	2.4	"	10.0		119	13-129			
p-Chloro-m-cresol	4/29/24 11:45	7.0	3.0	"	10.0		70.3	41-128			
Pentachlorophenol	4/29/24 11:45	5.5	3.6	"	10.0		54.9	38-152			
Phenol	4/29/24 11:45	3.1	1.5	"	10.0		31.3	17-120			
2,4,6-Trichlorophenol	4/29/24 11:45	8.2	2.7	"	10.0		82.1	52-129			
Acenaphthene	4/29/24 11:45	6.3	1.9	"	10.0		62.9	60-132			
Acenaphthylene	4/29/24 11:45	6.8	3.5	"	10.0		68.0	54-126			
Anthracene	4/29/24 11:45	6.4	1.9	"	10.0		63.7	43-120			
Benzo (a) anthracene	4/29/24 11:45	6.9	7.8	"	10.0		68.7	42-133			
Benzo (a) pyrene	4/29/24 11:45	6.0	2.5	"	10.0		60.3	32-148			
3,4-Benzo-fluoranthene	4/29/24 11:45	7.8	4.8	"	10.0		78.0	42-140			
Benzo (g,h,i) perylene	4/29/24 11:45	4.7	4.1	"	10.0		46.5	10-195			
Benzo (k) fluoranthene	4/29/24 11:45	8.6	2.5	"	10.0		85.8	25-146			
Bis(2-chloroethoxy)methane	4/29/24 11:45	7.6	5.3	"	10.0		75.7	49-165			
Bis(2-chloroethyl)ether	5/1/24 18:37	6.2	5.7	"	10.0		62.2	43-126			
Bis(2-chloroisopropyl)ether	5/1/24 10:48	6.9	5.7	"	10.0		69.4	63-139			
Bis(2-ethylhexyl)phthalate	4/29/24 11:45	7.9	2.5	"	10.0		79.1	29-137			
4-Bromophenyl phenyl ether	4/29/24 11:45	7.0	1.9	"	10.0		70.4	65-120			

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Acid and Base/Neutral Extractables by EPA Method 625.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4D23030 - EPA 3510C DCN 4000 Rev 12											
LCS (4D23030-BS1)											
Butyl benzyl phthalate	4/29/24 11:45	8.8	2.5	ug/L	10.0		88.1	10-140			
2-Chloronaphthalene	4/29/24 11:45	6.8	1.9	"	10.0		68.0	65-120			
4-Chlorophenyl phenyl ether	4/29/24 11:45	6.8	4.2	"	10.0		67.8	38-145			
Chrysene	4/29/24 11:45	6.6	2.5	"	10.0		66.4	44-140			
Dibenz (a,h) anthracene	4/29/24 11:45	4.1	2.5	"	10.0		40.5	10-200			
1,2-Dichlorobenzene	4/29/24 11:45	5.6	1.9	"	10.0		56.1	60-140			L2
1,3-Dichlorobenzene	4/29/24 11:45	5.6	1.9	"	10.0		55.9	60-140			L2
1,4-Dichlorobenzene	5/1/24 10:48	6.1	4.4	"	10.0		60.6	60-140			
Diethyl phthalate	4/29/24 11:45	6.9	1.9	"	10.0		69.0	10-120			
Dimethyl phthalate	4/29/24 11:45	7.1	1.6	"	10.0		71.0	10-120			
Di-n-butyl phthalate	4/29/24 11:45	7.6	2.5	"	10.0		76.4	8-120			
2,4-Dinitrotoluene	4/29/24 11:45	7.9	5.7	"	10.0		79.0	48-127			
2,6-Dinitrotoluene	4/29/24 11:45	7.6	1.9	"	10.0		75.6	68-137			
Di-n-octyl phthalate	5/1/24 10:48	9.5	2.5	"	10.0		95.0	19-132			
1,2-Diphenylhydrazine as Azobenzene	4/29/24 11:45	7.4	10.0	"	10.0		74.0	60-140			
Fluoranthene	4/29/24 11:45	7.2	2.2	"	10.0		71.6	43-121			
Fluorene	4/29/24 11:45	7.5	1.9	"	10.0		74.5	70-120			
Hexachlorobenzene	4/29/24 11:45	6.9	1.9	"	10.0		68.9	8-142			
Hexachlorobutadiene	4/29/24 11:45	5.0	0.9	"	10.0		49.7	38-120			
Hexachlorocyclopentadiene	5/1/24 18:37	2.3	2.3	"	10.0		22.8	60-140			L2
Hexachloroethane	4/29/24 11:45	4.8	1.4	"	10.0		47.9	55-120			L2
Indeno (1,2,3-cd) pyrene	4/29/24 11:45	3.7	3.7	"	10.0		37.4	10-151			
Isophorone	4/29/24 11:45	6.8	2.2	"	10.0		67.9	47-180			
Naphthalene	4/29/24 11:45	5.9	1.6	"	10.0		59.0	36-120			
Nitrobenzene	4/29/24 11:45	7.5	1.9	"	10.0		75.0	54-158			
N-Nitrosodimethylamine	4/29/24 11:45	3.5	1.5	"	10.0		34.8	60-140			L2
N-Nitrosodi-n-propylamine	4/29/24 11:45	7.0	1.9	"	10.0		70.4	14-198			
N-Nitrosodiphenylamine	4/29/24 11:45	6.6	1.9	"	10.0		66.2	60-140			
Phenanthrene	4/29/24 11:45	6.9	5.4	"	10.0		68.7	65-120			
Pyrene	5/1/24 10:48	8.7	1.9	"	10.0		87.4	70-120			
1,2,4-Trichlorobenzene	4/29/24 11:45	6.1	1.9	"	10.0		60.8	57-130			
Surrogate: 2,4,6-Tribromophenol		*8.16*		"	*10.0*		*81.6*	*21.1-140*			
Surrogate: 2-Fluorobiphenyl		*3.57*		"	*5.00*		*71.4*	*10.8-140*			
Surrogate: 2-Fluorophenol		*5.73*		"	*10.0*		*57.3*	*10-140*			
Surrogate: Nitrobenzene-d5		*3.79*		"	*5.00*		*75.8*	*46-219*			
Surrogate: Phenol-d5		*3.77*		"	*10.0*		*37.7*	*48-208*			*SR05*
Surrogate: Terphenyl-dl4		*4.74*		"	*5.00*		*94.8*	*10-140*			

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Project: Permit Renewal
Project Number: Permit Renewal-2024
Project Manager: Brock Jones

Reported:
05/07/2024 09:53

Acid and Base/Neutral Extractables by EPA Method 625.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4D23030 - EPA 3510C DCN 4000 Rev 12											
LCS Dup (4D23030-BSD1)											
2-Chlorophenol	4/29/24 12:32	5.5	3.3	ug/L	10.0		55.3	36-120	16.9	200	
2,4-Dichlorophenol	4/29/24 12:32	8.9	2.7	"	10.0		88.6	53-122	11.3	200	
2,4-Dimethylphenol	4/29/24 12:32	8.9	2.7	"	10.0		88.9	42-120	8.56	200	
4,6-Dinitro-o-cresol	4/29/24 12:32	9.8	3.3	"	10.0		97.9	53-130	6.87	200	
2,4-Dinitrophenol	5/1/24 11:27	4.6	5.0	"	10.0		45.5	10-173	0.883	200	
2-Nitrophenol	4/29/24 12:32	7.7	3.6	"	10.0		76.5	45-167	8.30	200	
4-Nitrophenol	4/29/24 12:32	5.6	2.4	"	10.0		56.3	13-129	71.2	200	
p-Chloro-m-cresol	4/29/24 12:32	6.8	3.0	"	10.0		68.2	41-128	3.03	200	
Pentachlorophenol	4/29/24 12:32	6.4	3.6	"	10.0		64.1	38-152	15.5	200	
Phenol	4/29/24 12:32	3.5	1.5	"	10.0		34.9	17-120	10.9	200	
2,4,6-Trichlorophenol	4/29/24 12:32	9.3	2.7	"	10.0		92.6	52-129	12.0	200	
Acenaphthene	4/29/24 12:32	7.1	1.9	"	10.0		70.6	60-132	11.5	200	
Acenaphthylene	4/29/24 12:32	7.5	3.5	"	10.0		75.1	54-126	9.92	200	
Anthracene	4/29/24 12:32	7.0	1.9	"	10.0		69.5	43-120	8.71	200	
Benzo (a) anthracene	4/29/24 12:32	7.5	7.8	"	10.0		75.2	42-133	9.03	200	
Benzo (a) pyrene	4/29/24 12:32	6.8	2.5	"	10.0		67.8	32-148	11.7	200	
3,4-Benzo-fluoranthene	4/29/24 12:32	9.3	4.8	"	10.0		92.5	42-140	17.0	200	
Benzo (g,h,i) perylene	4/29/24 12:32	4.6	4.1	"	10.0		45.9	10-195	1.30	200	
Benzo (k) fluoranthene	4/29/24 12:32	9.8	2.5	"	10.0		98.2	25-146	13.5	200	
Bis(2-chloroethoxy)methane	4/29/24 12:32	8.5	5.3	"	10.0		85.3	49-165	11.9	200	
Bis(2-chloroethyl)ether	5/1/24 19:13	7.4	5.7	"	10.0		73.6	43-126	16.8	200	
Bis(2-chloroisopropyl)ether	4/29/24 12:32	6.4	5.7	"	10.0		64.4	63-139	7.47	200	
Bis(2-ethylhexyl)phthalate	4/29/24 12:32	9.4	2.5	"	10.0		93.8	29-137	17.0	200	
4-Bromophenyl phenyl ether	4/29/24 12:32	8.0	1.9	"	10.0		80.0	65-120	12.8	200	
Butyl benzyl phthalate	4/29/24 12:32	10.6	2.5	"	10.0		106	10-140	20.3	200	
2-Chloronaphthalene	4/29/24 12:32	7.5	1.9	"	10.0		74.6	65-120	9.26	200	
4-Chlorophenyl phenyl ether	4/29/24 12:32	7.5	4.2	"	10.0		75.1	38-145	10.2	200	
Chrysene	4/29/24 12:32	7.0	2.5	"	10.0		70.1	44-140	5.42	200	
Dibenz (a,h) anthracene	4/29/24 12:32	3.8	2.5	"	10.0		37.8	10-200	6.90	200	
1,2-Dichlorobenzene	4/29/24 12:32	6.1	1.9	"	10.0		61.0	60-140	8.37	200	
1,3-Dichlorobenzene	4/29/24 12:32	6.1	1.9	"	10.0		60.5	60-140	7.90	200	
1,4-Dichlorobenzene	4/29/24 12:32	6.3	4.4	"	10.0		62.7	60-140	3.41	200	
Diethyl phthalate	4/29/24 12:32	7.6	1.9	"	10.0		75.6	10-120	9.13	200	
Dimethyl phthalate	4/29/24 12:32	7.9	1.6	"	10.0		79.3	10-120	11.0	200	
Di-n-butyl phthalate	4/29/24 12:32	8.5	2.5	"	10.0		85.2	8-120	10.9	200	
2,4-Dinitrotoluene	4/29/24 12:32	8.7	5.7	"	10.0		86.9	48-127	9.52	200	
2,6-Dinitrotoluene	4/29/24 12:32	8.3	1.9	"	10.0		83.1	68-137	9.45	200	
Di-n-octyl phthalate	5/1/24 11:27	9.8	2.5	"	10.0		98.1	19-132	3.21	200	
1,2-Diphenylhydrazine as Azobenzene	4/29/24 12:32	8.2	10.0	"	10.0		81.5	60-140	9.65	200	
Fluoranthene	4/29/24 12:32	7.6	2.2	"	10.0		75.9	43-121	5.83	200	
Fluorene	4/29/24 12:32	7.3	1.9	"	10.0		72.8	70-120	2.31	200	
Hexachlorobenzene	4/29/24 12:32	7.8	1.9	"	10.0		78.3	8-142	12.8	200	
Hexachlorobutadiene	4/29/24 12:32	5.4	0.9	"	10.0		54.4	38-120	9.03	200	
Hexachlorocyclopentadiene	5/1/24 19:13	4.4	2.3	"	10.0		43.8	60-140	63.1	200	L2
Hexachloroethane	4/29/24 12:32	5.2	1.4	"	10.0		51.9	55-120	8.02	200	L2

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Project: Permit Renewal
Project Number: Permit Renewal-2024
Project Manager: Brock Jones

Reported:
05/07/2024 09:53

Acid and Base/Neutral Extractables by EPA Method 625.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4D23030 - EPA 3510C DCN 4000 Rev 12											
LCS Dup (4D23030-BSD1)											
Indeno (1,2,3-cd) pyrene	4/29/24 12:32	3.5	3.7	ug/L	10.0		34.9	10-151	6.92	200	
Isophorone	4/29/24 12:32	7.6	2.2	"	10.0		76.2	47-180	11.5	200	
Naphthalene	4/29/24 12:32	6.5	1.6	"	10.0		64.8	36-120	9.37	200	
Nitrobenzene	4/29/24 12:32	8.1	1.9	"	10.0		80.8	54-158	7.45	200	
N-Nitrosodimethylamine	4/29/24 12:32	3.9	1.5	"	10.0		38.7	60-140	10.6	200	L2
N-Nitrosodi-n-propylamine	4/29/24 12:32	7.9	1.9	"	10.0		79.0	14-198	11.5	200	
N-Nitrosodiphenylamine	4/29/24 12:32	6.9	1.9	"	10.0		68.8	60-140	3.85	200	
Phenanthrene	4/29/24 12:32	7.6	5.4	"	10.0		75.6	65-120	9.56	200	
Pyrene	5/1/24 11:27	8.6	1.9	"	10.0		85.6	70-120	2.08	200	
1,2,4-Trichlorobenzene	4/29/24 12:32	6.7	1.9	"	10.0		67.1	57-130	9.85	200	
Surrogate: 2,4,6-Tribromophenol		*8.23*		"	*10.0*		*82.3*	*21.1-140*			
Surrogate: 2-Fluorobiphenyl		*3.67*		"	*5.00*		*73.4*	*10.8-140*			
Surrogate: 2-Fluorophenol		*5.84*		"	*10.0*		*58.4*	*10-140*			
Surrogate: Nitrobenzene-d5		*3.85*		"	*5.00*		*77.0*	*46-219*			
Surrogate: Phenol-d5		*3.79*		"	*10.0*		*37.9*	*48-208*			*SR05*
Surrogate: Terphenyl-dl4		*4.23*		"	*5.00*		*84.6*	*10-140*			
Duplicate (4D23030-DUP1)				**Source: 2404441-01**							
2-Chlorophenol	5/1/24 14:44	ND	3.3	ug/L		ND				45	
2,4-Dichlorophenol	5/1/24 14:44	ND	2.7	"		ND				45	
2,4-Dimethylphenol	5/1/24 14:44	ND	2.7	"		ND				45	
4,6-Dinitro-o-cresol	5/1/24 14:44	ND	3.3	"		ND				45	
2,4-Dinitrophenol	5/1/24 14:44	ND	5.1	"		ND				45	
2-Nitrophenol	5/1/24 14:44	ND	3.6	"		ND				45	
4-Nitrophenol	5/1/24 14:44	ND	2.4	"		ND				45	
p-Chloro-m-cresol	5/1/24 14:44	ND	3.0	"		ND				45	
Pentachlorophenol	5/1/24 14:44	ND	3.6	"		ND				45	
Phenol	5/1/24 14:44	ND	1.5	"		ND				45	
2,4,6-Trichlorophenol	5/1/24 14:44	ND	2.7	"		ND				45	
Acenaphthene	5/1/24 14:44	ND	1.9	"		ND				45	
Acenaphthylene	5/1/24 14:44	ND	3.5	"		ND				45	
Anthracene	5/1/24 14:44	ND	1.9	"		ND				45	
Benzidine	5/1/24 14:44	ND	15.2	"		ND				45	
Benzo (a) anthracene	5/1/24 14:44	ND	7.9	"		ND				45	
Benzo (a) pyrene	5/1/24 14:44	ND	2.5	"		ND				45	
3,4-Benzo-fluoranthene	5/1/24 14:44	ND	4.8	"		ND				45	
Benzo (g,h,i) perylene	5/1/24 14:44	ND	4.1	"		ND				45	
Benzo (k) fluoranthene	5/1/24 14:44	ND	2.5	"		ND				45	
Bis(2-chloroethoxy)methane	5/1/24 14:44	ND	5.4	"		ND				45	
Bis(2-chloroethyl)ether	5/1/24 14:44	ND	5.8	"		ND				45	
Bis(2-chloroisopropyl)ether	5/1/24 14:44	ND	5.8	"		ND				45	
Bis(2-ethylhexyl)phthalate	5/1/24 14:44	ND	2.5	"		ND				45	
4-Bromophenyl phenyl ether	5/1/24 14:44	ND	1.9	"		ND				45	
Butyl benzyl phthalate	5/1/24 14:44	ND	2.5	"		ND				45	

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Reported:
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Acid and Base/Neutral Extractables by EPA Method 625.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4D23030 - EPA 3510C DCN 4000 Rev 12											
Duplicate (4D23030-DUP1)			**Source: 2404441-01**								
2-Chloronaphthalene	5/1/24 14:44	ND	1.9	ug/L		ND				45	
4-Chlorophenyl phenyl ether	5/1/24 14:44	ND	4.2	"		ND				45	
Chrysene	5/1/24 14:44	ND	2.5	"		ND				45	
Dibenz (a,h) anthracene	5/1/24 14:44	ND	2.5	"		ND				45	
1,2-Dichlorobenzene	5/1/24 14:44	ND	1.9	"		ND				45	
1,3-Dichlorobenzene	5/1/24 14:44	ND	1.9	"		ND				45	
1,4-Dichlorobenzene	5/1/24 14:44	ND	4.4	"		ND				45	
3,3'-Dichlorobenzidine	5/1/24 14:44	ND	5.1	"		ND				45	
Diethyl phthalate	5/1/24 14:44	ND	1.9	"		ND				45	
Dimethyl phthalate	5/1/24 14:44	ND	1.6	"		ND				45	
Di-n-butyl phthalate	5/1/24 14:44	ND	2.5	"		ND				45	
2,4-Dinitrotoluene	5/1/24 14:44	ND	5.8	"		ND				45	
2,6-Dinitrotoluene	5/1/24 14:44	ND	1.9	"		ND				45	
Di-n-octyl phthalate	5/1/24 14:44	ND	2.5	"		ND				45	
1,2-Diphenylhydrazine as Azobenzene	5/1/24 14:44	ND	10.1	"		ND				45	
Fluoranthene	5/1/24 14:44	ND	2.2	"		ND				45	
Fluorene	5/1/24 14:44	ND	1.9	"		ND				45	
Hexachlorobenzene	5/1/24 14:44	ND	1.9	"		ND				45	
Hexachlorobutadiene	5/1/24 14:44	ND	0.9	"		ND				45	
Hexachlorocyclopentadiene	5/1/24 20:58	ND	2.4	"		ND				45	
Hexachloroethane	5/1/24 14:44	ND	1.4	"		ND				45	
Indeno (1,2,3-cd) pyrene	5/1/24 14:44	ND	3.7	"		ND				45	
Isophorone	5/1/24 14:44	ND	2.2	"		ND				45	
Naphthalene	5/1/24 14:44	ND	1.6	"		ND				45	
Nitrobenzene	5/1/24 14:44	ND	1.9	"		ND				45	
N-Nitrosodimethylamine	5/1/24 14:44	ND	1.5	"		ND				45	
N-Nitrosodi-n-propylamine	5/1/24 14:44	ND	1.9	"		ND				45	
N-Nitrosodiphenylamine	5/1/24 14:44	ND	1.9	"		ND				45	
Phenanthrene	5/1/24 14:44	ND	5.5	"		ND				45	
Pyrene	5/1/24 14:44	ND	1.9	"		ND				45	
1,2,4-Trichlorobenzene	5/1/24 14:44	ND	1.9	"		ND				45	
Surrogate: 2,4,6-Tribromophenol		*6.17*		"	*10.1*		*61.1*	*19.6-127*			
Surrogate: 2-Fluorobiphenyl		*2.09*		"	*5.05*		*41.4*	*13.3-104*			
Surrogate: 2-Fluorophenol		*3.35*		"	*10.1*		*33.2*	*11.4-100*			
Surrogate: Nitrobenzene-d5		*2.32*		"	*5.05*		*46.0*	*10-100*			
Surrogate: Phenol-d5		*2.17*		"	*10.1*		*21.5*	*10-100*			
Surrogate: Terphenyl-dl4		*3.36*		"	*5.05*		*66.6*	*10-116*			

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Acid and Base/Neutral Extractables by EPA Method 625.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4D23030 - EPA 3510C DCN 4000 Rev 12											
Matrix Spike (4D23030-MS1)			**Source: 2404441-01**								
2-Chlorophenol	5/1/24 15:24	7.1	3.4	ug/L	10.2	ND	69.6	23-134			
2,4-Dichlorophenol	5/1/24 15:24	8.2	2.7	"	10.2	ND	80.6	39-135			
2,4-Dimethylphenol	5/1/24 15:24	9.0	2.7	"	10.2	ND	89.0	32-120			
4,6-Dinitro-o-cresol	5/1/24 15:24	12.0	3.3	"	10.2	ND	118	0.992-181			
2,4-Dinitrophenol	5/1/24 15:24	6.0	5.1	"	10.2	ND	59.4	1.58-191			
2-Nitrophenol	5/1/24 15:24	7.9	3.7	"	10.2	ND	77.7	29-182			
4-Nitrophenol	5/1/24 15:24	2.9	2.4	"	10.2	ND	28.5	0.642-132			
p-Chloro-m-cresol	5/1/24 15:24	7.4	3.0	"	10.2	ND	72.9	22-147			
Pentachlorophenol	5/1/24 15:24	12.7	3.7	"	10.2	ND	125	14-176			
Phenol	5/1/24 15:24	3.7	1.5	"	10.2	ND	36.2	5-120			
2,4,6-Trichlorophenol	5/1/24 15:24	8.8	2.7	"	10.2	ND	86.8	37-144			
Acenaphthene	5/1/24 15:24	6.2	1.9	"	10.2	ND	61.0	47-145			
Acenaphthylene	5/1/24 15:24	6.8	3.6	"	10.2	ND	67.2	33-145			
Anthracene	5/1/24 15:24	6.3	1.9	"	10.2	ND	61.7	27-133			
Benzo (a) anthracene	5/1/24 15:24	7.3	7.9	"	10.2	ND	72.3	33-143			
Benzo (a) pyrene	5/1/24 15:24	5.4	2.5	"	10.2	ND	53.5	17-163			
3,4-Benzo-fluoranthene	5/1/24 15:24	7.5	4.9	"	10.2	ND	73.8	24-159			
Benzo (g,h,i) perylene	5/1/24 15:24	4.4	4.2	"	10.2	ND	43.7	0.518-219			
Benzo (k) fluoranthene	5/1/24 15:24	6.7	2.5	"	10.2	ND	66.2	11-162			
Bis(2-chloroethoxy)methane	5/1/24 15:24	7.9	5.4	"	10.2	ND	77.4	33-184			
Bis(2-chloroethyl)ether	5/1/24 15:24	3.7	5.8	"	10.2	ND	36.9	12-158			
Bis(2-chloroisopropyl)ether	5/1/24 15:24	6.6	5.8	"	10.2	ND	64.9	36-166			
Bis(2-ethylhexyl)phthalate	5/1/24 15:24	8.3	2.5	"	10.2	ND	81.4	8-158			
4-Bromophenyl phenyl ether	5/1/24 15:24	7.7	1.9	"	10.2	ND	76.0	53-127			
Butyl benzyl phthalate	5/1/24 15:24	8.7	2.5	"	10.2	ND	85.8	0.835-152			
2-Chloronaphthalene	5/1/24 15:24	6.7	1.9	"	10.2	ND	65.9	60-120			
4-Chlorophenyl phenyl ether	5/1/24 15:24	7.1	4.3	"	10.2	ND	69.8	25-158			
Chrysene	5/1/24 15:24	8.8	2.5	"	10.2	ND	86.2	17-168			
Dibenz (a,h) anthracene	5/1/24 15:24	4.1	2.5	"	10.2	ND	40.3	0.515-227			
1,2-Dichlorobenzene	5/1/24 15:24	5.6	1.9	"	10.2	ND	55.1	32-129			
1,3-Dichlorobenzene	5/1/24 15:24	5.6	1.9	"	10.2	ND	55.0	5-172			
1,4-Dichlorobenzene	5/1/24 15:24	5.9	4.5	"	10.2	ND	57.7	20-124			
Diethyl phthalate	5/1/24 15:24	7.1	1.9	"	10.2	ND	70.2	0.603-120			
Dimethyl phthalate	5/1/24 15:24	7.4	1.6	"	10.2	ND	72.9	0.615-120			
Di-n-butyl phthalate	5/1/24 15:24	7.6	2.5	"	10.2	ND	74.7	1-120			
2,4-Dinitrotoluene	5/1/24 15:24	8.4	5.8	"	10.2	ND	82.6	39-139			
2,6-Dinitrotoluene	5/1/24 15:24	7.9	1.9	"	10.2	ND	77.5	50-158			
Di-n-octyl phthalate	5/1/24 15:24	9.9	2.5	"	10.2	ND	97.5	4-146			
1,2-Diphenylhydrazine as Azobenzene	5/1/24 15:24	7.4	10.2	"	10.2	ND	73.1	60-140			
Fluoranthene	5/1/24 15:24	7.1	2.2	"	10.2	ND	70.2	26-137			
Fluorene	5/1/24 15:24	6.8	1.9	"	10.2	ND	67.4	59-121			
Hexachlorobenzene	5/1/24 15:24	7.6	1.9	"	10.2	ND	74.7	0.362-152			
Hexachlorobutadiene	5/1/24 15:24	5.4	0.9	"	10.2	ND	53.5	24-120			
Hexachlorocyclopentadiene	5/1/24 21:34	5.6	2.4	"	10.2	ND	55.0	1.2-98.1			
Hexachloroethane	5/1/24 15:24	4.6	1.4	"	10.2	ND	45.5	40-120			

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Project: Permit Renewal
Project Number: Permit Renewal-2024
Project Manager: Brock Jones

Reported:
05/07/2024 09:53

Acid and Base/Neutral Extractables by EPA Method 625.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4D23030 - EPA 3510C DCN 4000 Rev 12											
Matrix Spike (4D23030-MS1)			**Source: 2404441-01**								
Indeno (1,2,3-cd) pyrene	5/1/24 15:24	3.9	3.8	ug/L	10.2	ND	38.9	0.547-171			
Isophorone	5/1/24 15:24	6.9	2.2	"	10.2	ND	68.3	21-196			
Naphthalene	5/1/24 15:24	5.9	1.6	"	10.2	ND	58.0	21-133			
Nitrobenzene	5/1/24 15:24	7.7	1.9	"	10.2	ND	75.7	35-180			
N-Nitrosodimethylamine	5/1/24 15:24	3.0	1.5	"	10.2	ND	29.9	1-126			
N-Nitrosodi-n-propylamine	5/1/24 15:24	7.3	2.0	"	10.2	ND	71.6	0.8-230			
N-Nitrosodiphenylamine	5/1/24 15:24	6.8	1.9	"	10.2	ND	67.3	16.8-118			
Phenanthrene	5/1/24 15:24	7.2	5.5	"	10.2	ND	71.3	54-120			
Pyrene	5/1/24 15:24	9.1	1.9	"	10.2	ND	90.1	52-120			
1,2,4-Trichlorobenzene	5/1/24 15:24	6.1	1.9	"	10.2	ND	59.7	44-142			
Surrogate: 2,4,6-Tribromophenol		*9.41*		"	*10.2*		*92.7*	*19.6-127*			
Surrogate: 2-Fluorobiphenyl		*3.22*		"	*5.08*		*63.4*	*13.3-104*			
Surrogate: 2-Fluorophenol		*5.03*		"	*10.2*		*49.5*	*11.4-100*			
Surrogate: Nitrobenzene-d5		*3.74*		"	*5.08*		*73.6*	*10-100*			
Surrogate: Phenol-d5		*3.45*		"	*10.2*		*34.0*	*10-100*			
Surrogate: Terphenyl-dl4		*4.84*		"	*5.08*		*95.4*	*10-116*			

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Project Number: Permit Renewal-2024
Project Manager: Brock Jones

Reported:
05/07/2024 09:53

Purgeables by EPA Method 624.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4E02050 - EPA 624.1											
Blank (4E02050-BLK1)											
Acrolein	5/1/24 13:34	ND	5.00	ug/L							CC-01
Acrylonitrile	5/1/24 12:09	ND	5.00	"							
Benzene	5/1/24 12:09	ND	3.50	"							
Bromoform	5/1/24 12:09	ND	4.70	"							
Carbon Tetrachloride	5/1/24 12:09	ND	2.80	"							
Chlorobenzene	5/1/24 12:09	ND	3.21	"							
Chlorodibromomethane	5/1/24 12:09	ND	3.10	"							
Chloroethane	5/1/24 12:09	ND	3.88	"							
2-Chloroethylvinyl ether	5/1/24 12:09	ND	10.0	"							
Chloroform	5/1/24 12:09	ND	1.60	"							
Dichlorobromomethane	5/1/24 12:09	ND	2.20	"							
1,1-Dichloroethane	5/1/24 12:09	ND	3.42	"							
1,2-Dichloroethane	5/1/24 12:09	ND	2.80	"							
1,1-Dichloroethylene	5/1/24 12:09	ND	2.80	"							
1,2-Dichloropropane	5/1/24 12:09	ND	2.92	"							
cis-1,3-Dichloropropylene	5/1/24 12:09	ND	3.87	"							
trans-1,3-Dichloropropylene	5/1/24 12:09	ND	2.78	"							
Ethylbenzene	5/1/24 12:09	ND	4.10	"							
Methyl Bromide	5/1/24 12:09	ND	4.35	"							
Methyl Chloride	5/1/24 12:09	ND	4.61	"							
Methylene chloride	5/1/24 12:09	ND	2.77	"							
1,1,2,2-Tetrachloroethane	5/1/24 12:09	ND	4.13	"							
Tetrachloroethylene	5/1/24 12:09	ND	4.10	"							
Toluene	5/1/24 12:09	ND	4.46	"							
trans-1,2-Dichloroethylene	5/1/24 12:09	ND	1.60	"							
1,1,1-Trichloroethane	5/1/24 12:09	ND	2.93	"							
1,1,2-Trichloroethane	5/1/24 12:09	ND	3.66	"							
Trichloroethylene	5/1/24 12:09	ND	1.90	"							
Vinyl chloride	5/1/24 12:09	ND	3.74	"							
Surrogate: Dibromofluoromethane		*50.6*		"	*50.0*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4		*48.7*		"	*50.0*		*97.4*	*70-130*			
Surrogate: Toluene-d8		*48.3*		"	*50.0*		*96.6*	*70-130*			
Surrogate: 4-Bromofluorobenzene		*50.3*		"	*50.0*		*101*	*70-130*			

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Project Manager: Brock Jones

Reported:
05/07/2024 09:53

Purgeables by EPA Method 624.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4E02050 - EPA 624.1											
LCS (4E02050-BS1)											
Acrolein	5/1/24 13:05	30.7	5.00	ug/L	20.0		154	60-140			CC-04, L1
Acrylonitrile	5/1/24 11:44	19.1	5.00	"	20.0		95.4	60-140			
Benzene	5/1/24 11:44	23.0	3.50	"	20.0		115	65-135			
Bromoform	5/1/24 11:44	20.2	4.70	"	20.0		101	70-130			
Carbon Tetrachloride	5/1/24 11:44	23.0	2.80	"	20.0		115	70-130			
Chlorobenzene	5/1/24 11:44	21.5	3.21	"	20.0		107	65-135			
Chlorodibromomethane	5/1/24 11:44	23.3	3.10	"	20.0		117	70-135			
Chloroethane	5/1/24 11:44	15.0	3.88	"	20.0		74.9	40-160			
2-Chloroethylvinyl ether	5/1/24 11:44	15.8	10.0	"	20.0		79.2	5-225			
Chloroform	5/1/24 11:44	23.5	1.60	"	20.0		118	70-135			
Dichlorobromomethane	5/1/24 11:44	24.7	2.20	"	20.0		123	65-135			
1,1-Dichloroethane	5/1/24 11:44	23.0	3.42	"	20.0		115	70-130			
1,2-Dichloroethane	5/1/24 11:44	23.1	2.80	"	20.0		115	70-130			
1,1-Dichloroethylene	5/1/24 11:44	20.4	2.80	"	20.0		102	50-150			
1,2-Dichloropropane	5/1/24 11:44	24.0	2.92	"	20.0		120	35-165			
cis-1,3-Dichloropropylene	5/1/24 11:44	24.3	3.87	"	20.0		122	25-175			
trans-1,3-Dichloropropylene	5/1/24 11:44	23.4	2.78	"	20.0		117	50-150			
Ethylbenzene	5/1/24 11:44	22.1	4.10	"	20.0		111	60-140			
Methyl Bromide	5/1/24 11:44	16.8	4.35	"	20.0		83.9	15-185			
Methyl Chloride	5/1/24 11:44	17.0	4.61	"	20.0		85.0	5-205			
Methylene chloride	5/1/24 11:44	19.1	2.77	"	20.0		95.4	60-140			
1,1,2,2-Tetrachloroethane	5/1/24 11:44	21.5	4.13	"	20.0		107	60-140			
Tetrachloroethylene	5/1/24 11:44	23.3	4.10	"	20.0		117	70-130			
Toluene	5/1/24 11:44	22.0	4.46	"	20.0		110	70-130			
trans-1,2-Dichloroethylene	5/1/24 11:44	22.4	1.60	"	20.0		112	70-130			
1,1,1-Trichloroethane	5/1/24 11:44	24.1	2.93	"	20.0		120	70-130			
1,1,2-Trichloroethane	5/1/24 11:44	24.2	3.66	"	20.0		121	70-130			
Trichloroethylene	5/1/24 11:44	23.7	1.90	"	20.0		118	65-135			
Vinyl chloride	5/1/24 11:44	15.2	3.74	"	20.0		75.8	5-195			
Surrogate: Dibromofluoromethane		*51.7*		"	*50.0*		*103*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4		*47.9*		"	*50.0*		*95.9*	*70-130*			
Surrogate: Toluene-d8		*47.7*		"	*50.0*		*95.4*	*70-130*			
Surrogate: 4-Bromofluorobenzene		*50.3*		"	*50.0*		*101*	*70-130*			

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Project: Permit Renewal
Project Number: Permit Renewal-2024
Project Manager: Brock Jones

Reported:
05/07/2024 09:53

Purgeables by EPA Method 624.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4E02050 - EPA 624.1											
Matrix Spike (4E02050-MS1)			**Source: 2404412-01**								
Acrolein	5/1/24 18:40	9.76	5.00	ug/L	20.0	ND	48.8	40-160			CC-03
Acrylonitrile	5/1/24 13:38	22.1	5.00	"	20.0	ND	111	40-160			
Benzene	5/1/24 13:38	28.8	3.50	"	20.0	ND	144	37-151			
Bromoform	5/1/24 13:38	26.3	4.70	"	20.0	ND	132	45-169			
Carbon Tetrachloride	5/1/24 13:38	27.2	2.80	"	20.0	ND	136	70-140			
Chlorobenzene	5/1/24 13:38	27.1	3.21	"	20.0	ND	136	37-160			
Chlorodibromomethane	5/1/24 13:38	31.8	3.10	"	20.0	ND	158	53-149			M1
Chloroethane	5/1/24 13:38	17.6	3.88	"	20.0	ND	88.1	14-230			
2-Chloroethylvinyl ether	5/1/24 13:38	15.0	10.0	"	20.0	ND	75.2	5-305			
Chloroform	5/1/24 13:38	42.7	1.60	"	20.0	14.7	140	51-138			M1
Dichlorobromomethane	5/1/24 13:38	34.5	2.20	"	20.0	2.39	161	35-155			M1
1,1-Dichloroethane	5/1/24 13:38	28.5	3.42	"	20.0	ND	143	59-155			
1,2-Dichloroethane	5/1/24 13:38	30.4	2.80	"	20.0	ND	152	49-155			
1,1-Dichloroethylene	5/1/24 13:38	24.1	2.80	"	20.0	ND	120	5-234			
1,2-Dichloropropane	5/1/24 13:38	31.0	2.92	"	20.0	ND	155	5-210			
cis-1,3-Dichloropropylene	5/1/24 13:38	32.3	3.87	"	20.0	ND	162	5-227			
trans-1,3-Dichloropropylene	5/1/24 13:38	31.5	2.78	"	20.0	ND	158	17-183			
Ethylbenzene	5/1/24 13:38	27.5	4.10	"	20.0	ND	138	37-162			
Methyl Bromide	5/1/24 13:38	19.9	4.35	"	20.0	ND	99.6	5-242			
Methyl Chloride	5/1/24 13:38	19.8	4.61	"	20.0	ND	98.9	5-273			
Methylene chloride	5/1/24 13:38	24.0	2.77	"	20.0	ND	120	5-221			
1,1,2,2-Tetrachloroethane	5/1/24 13:38	28.0	4.13	"	20.0	ND	140	46-157			
Tetrachloroethylene	5/1/24 13:38	28.5	4.10	"	20.0	ND	143	64-148			
Toluene	5/1/24 13:38	27.7	4.46	"	20.0	ND	139	47-150			
trans-1,2-Dichloroethylene	5/1/24 13:38	27.4	1.60	"	20.0	ND	137	54-156			
1,1,1-Trichloroethane	5/1/24 13:38	29.2	2.93	"	20.0	ND	146	52-162			
1,1,2-Trichloroethane	5/1/24 13:38	32.6	3.66	"	20.0	ND	163	52-150			M1
Trichloroethylene	5/1/24 13:38	29.4	1.90	"	20.0	ND	147	70-157			
Vinyl chloride	5/1/24 13:38	17.3	3.74	"	20.0	ND	86.3	5-251			
Surrogate: Dibromofluoromethane		*53.2*		"	*50.0*		*106*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4		*49.3*		"	*50.0*		*98.6*	*70-130*			
Surrogate: Toluene-d8		*47.6*		"	*50.0*		*95.3*	*70-130*			
Surrogate: 4-Bromofluorobenzene		*50.6*		"	*50.0*		*101*	*70-130*			

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Reported:
05/07/2024 09:53

Purgeables by EPA Method 624.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4E02050 - EPA 624.1											
Matrix Spike Dup (4E02050-MSD1)			**Source: 2404412-01**								
Acrolein	5/1/24 19:04	11.8	5.00	ug/L	20.0	ND	58.9	40-160	18.8	60	CC-03
Acrylonitrile	5/1/24 14:03	21.0	5.00	"	20.0	ND	105	40-160	5.05	60	
Benzene	5/1/24 14:03	26.0	3.50	"	20.0	ND	130	37-151	10.2	61	
Bromoform	5/1/24 14:03	24.6	4.70	"	20.0	ND	123	45-169	6.80	42	
Carbon Tetrachloride	5/1/24 14:03	24.9	2.80	"	20.0	ND	125	70-140	8.68	41	
Chlorobenzene	5/1/24 14:03	24.7	3.21	"	20.0	ND	124	37-160	9.15	53	
Chlorodibromomethane	5/1/24 14:03	28.6	3.10	"	20.0	ND	143	53-149	9.81	50	
Chloroethane	5/1/24 14:03	15.9	3.88	"	20.0	ND	79.3	14-230	10.6	78	
2-Chloroethylvinyl ether	5/1/24 14:03	20.7	10.0	"	20.0	ND	103	5-305	31.5	71	
Chloroform	5/1/24 14:03	40.1	1.60	"	20.0	14.7	127	51-138	6.40	54	
Dichlorobromomethane	5/1/24 14:03	31.8	2.20	"	20.0	2.39	147	35-155	8.36	56	
1,1-Dichloroethane	5/1/24 14:03	25.9	3.42	"	20.0	ND	129	59-155	9.71	40	
1,2-Dichloroethane	5/1/24 14:03	28.0	2.80	"	20.0	ND	140	49-155	8.32	49	
1,1-Dichloroethylene	5/1/24 14:03	22.1	2.80	"	20.0	ND	110	5-234	8.80	32	
1,2-Dichloropropane	5/1/24 14:03	28.2	2.92	"	20.0	ND	141	5-210	9.67	55	
cis-1,3-Dichloropropylene	5/1/24 14:03	29.4	3.87	"	20.0	ND	147	5-227	9.43	58	
trans-1,3-Dichloropropylene	5/1/24 14:03	28.9	2.78	"	20.0	ND	144	17-183	8.84	86	
Ethylbenzene	5/1/24 14:03	24.7	4.10	"	20.0	ND	123	37-162	11.0	63	
Methyl Bromide	5/1/24 14:03	18.1	4.35	"	20.0	ND	90.7	5-242	9.35	61	
Methyl Chloride	5/1/24 14:03	17.9	4.61	"	20.0	ND	89.5	5-273	9.98	60	
Methylene chloride	5/1/24 14:03	21.2	2.77	"	20.0	ND	106	5-221	12.2	28	
1,1,2,2-Tetrachloroethane	5/1/24 14:03	26.0	4.13	"	20.0	ND	130	46-157	7.48	61	
Tetrachloroethylene	5/1/24 14:03	25.5	4.10	"	20.0	ND	128	64-148	11.1	39	
Toluene	5/1/24 14:03	25.2	4.46	"	20.0	ND	126	47-150	9.48	41	
trans-1,2-Dichloroethylene	5/1/24 14:03	24.8	1.60	"	20.0	ND	124	54-156	9.85	45	
1,1,1-Trichloroethane	5/1/24 14:03	26.2	2.93	"	20.0	ND	131	52-162	10.9	36	
1,1,2-Trichloroethane	5/1/24 14:03	29.9	3.66	"	20.0	ND	149	52-150	8.75	45	
Trichloroethylene	5/1/24 14:03	26.4	1.90	"	20.0	ND	132	70-157	10.7	48	
Vinyl chloride	5/1/24 14:03	15.3	3.74	"	20.0	ND	76.6	5-251	11.9	66	
Surrogate: Dibromofluoromethane		*52.1*		"	*50.0*		*104*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4		*49.7*		"	*50.0*		*99.3*	*70-130*			
Surrogate: Toluene-d8		*47.7*		"	*50.0*		*95.3*	*70-130*			
Surrogate: 4-Bromofluorobenzene		*50.6*		"	*50.0*		*101*	*70-130*			

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MICRO-METHODS LABORATORY, INC.

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Ocean Springs, MS 39564
228-875-6420 Phone
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City of Chickasaw 224 Grant Street Mobile AL, 36611	Project: Permit Renewal Project Number: Permit Renewal-2024 Project Manager: Brock Jones	**Reported:** 05/07/2024 09:53

Certified Analyses Included in this Report

Analyte	Certification Code
EPA 420.1 1978 in Water	
Phenolics, Total	C01,C02
EPA 1664A in Water	
Oil & Grease (HEM)	C01,C02
EPA 200.8 Rev 5.4 in Water	
Aluminum [He]	C01,C02
Antimony [He]	C01,C02
Antimony [NG]	C01,C02
Arsenic [He]	C01,C02
Arsenic [NG]	C01,C02
Barium [He]	C01,C02
Beryllium [He]	C01,C02
Cadmium [He]	C01,C02
Cadmium [NG]	C01,C02
Chromium [He]	C01,C02
Cobalt [He]	C01,C02
Copper [He]	C01,C02
Copper [NG]	C01,C02
Iron [He]	C01,C02
Lead [He]	C01,C02
Lead [NG]	C01,C02
Manganese [He]	C01,C02
Molybdenum [He]	C01,C02
Nickel [He]	C01,C02
Selenium [He]	C01,C02
Selenium [NG]	C01,C02
Silver [He]	C01,C02
Silver [NG]	C01,C02
Strontium [He]	C01,C02
Thallium [He]	C01,C02
Vanadium [He]	C01,C02
Zinc [He]	C01,C02
SM 2340C-2011 in Water	
Hardness	C01,C02
Hardness (EDTA) as CaCO3	C01,C02
SM 2540 C-2015 in Water	
Total Dissolved Solids	C01,C02
SM 4500-CN E 2016 in Water	
Cyanide (total)	C01,C02

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****Only compounds included in this list are associated with accredited analyses****

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City of Chickasaw 224 Grant Street Mobile AL, 36611	Project: Permit Renewal Project Number: Permit Renewal-2024 Project Manager: Brock Jones	**Reported:** 05/07/2024 09:53

Laboratory Accreditations/Certifications

Code	Description	Number	Expires
C01	LA Environmental Lab Accreditation Program	01960	06/30/2024
C02	The NELAC Institute (NELAP)	TNI01397	06/30/2024
C03	MS Dept of Health (Drinking Water Microbiology)	MS00021	12/31/2024
C04	MS Dept of Health (Drinking Water Chemistry)	MS00021	12/31/2024
C05	MS DEQ Lead Firm Certification	PBF-00000028	03/31/2024
C06	MSDEQ Asbestos Inspector : C.D. Bingham	ABI-00001348	02/09/2024
C07	MSDEQ Air Monitor : C.D. Bingham	AM-011572	02/10/2024
C08	MSDEQ Asbestos Inspector: C. W. Meins	ABI-00001821	09/09/2022
C09	MSDEQ Air Monitor : C.W. Meins	AM-011189	02/10/2024
C10	ADEM (Drinking Water Microbiology)	43500	12/31/2024
C11	ADEM (Drinking Water Chemistry)	43500	12/31/2024
C14	MSDEQ Lead Paint Inspector : C.D. Bingham	PBI-00003690	02/07/2024
C15	MSDEQ Lead Paint Inspector : C.W. Meins	PBI-00001740	02/07/2024

Report Definitions

TNC	Too Numerous To Count
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the minimum reporting limit
NR	Not Reported
RPD	Relative Percent Difference
ICV	Initial Calibration Verfiication
CCV	Continuing Calibration Verification Standard
SSV	Secondary Source Verfication Standard
LCS	Lab Control Spike - Lab matrix prepared with known concentration of analyte/s of interest analyzed by method.
MS	Matrix Spike - Sample prepared with known concentration of analyte/s of interest analyzed by method.
MSD	Matrix Spike Duplicate - Duplicate sample prepared with known concentration of analyte/s of interest analyzed by method.
MRL	Minimum Reporting Limit
%REC	Percentage Recovery of known concentration added to matrix
Batch	Group of samples prepared for analysis not to exceed 20 samples.
Matrix	Material containing analyte/s of interest
Surrogate	Analyte added to sample to determine extraction efficiency of method.

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City of Chickasaw 224 Grant Street Mobile AL, 36611	Project: Permit Renewal Project Number: Permit Renewal-2024 Project Manager: Brock Jones	**Reported:** 05/07/2024 09:53

Analyst Initials Key

FullName	Initials
Alexandria S Windham	ASW
Brett S Fore	BSF
Charles D. Bingham	CDB
Clifford W. Meins	CWM
Christa R Gray	CRG
Christina L Vorhoff	CRLV
Dortha L. Wells	DLW
Jason B McCullar	JBM
Jeremy Broussard	JLB
Sarah E. Tomek	SET
Samantha C. Hall	SCH
Teresa Meins	TKM
Tina Tomek	TPT

Print Form

MICRO-METHODS LABORATORY, INC.
PO Box 1410, Ocean Springs, MS 39566-1410
(228) 875-6420 FAX (228) 875-6423
www.micromethodslab.com

Chain of Custody Record

Lab ID# MS00021
LELAP ID # 01960
TNI ID # TNI01397

M-M Lab WO # 24044412

Company Name: City of Chickasaw
Address: 224 N. Craft Hwy
City: Chickasaw State: AL Zip: 36611
Phone: 251-751-2527
Fax:

Project Manager: Chuck Starling
Purchase Order #:
Email Address: chuck.starling@kimley-horn.com
Sampler Name Printed: Clifford Meins
Sampler Name Signed: Clifford Meins

Turn Around Time & Reporting
Our normal turn around time is 10 working days
__Normal __Next Day* __2nd Day* __Other*_____
*All rush order requests must be prior approved.
__Phone __Mail __Fax __Email
QC Level: Level 1 ☐ Level 2 ☐ Level 3 ☐

Project Name: Permit Renewal
Project #:

List Analyses Requested

Sample Identification	Sampling Date/Time	Matrix Code	# of Containers	Grab (G) or Composite (C)	Oil & Grease (Preservative: 1)	625 SVOC's	624 VOC's (8)	Cyanide (3)	Phenol (1)	Total Hardness	TDS	Metals* (6)
Effluent	4/17/24 1015	W	12	G	X	X	X					
Effluent	4/17/24 1020	W	4	C				X	X	X	X	X
Trip Blank TBV# 7392	4/17/24 1015	W	4	G			X					

*Metals: Sb, As, Be, Cd, Cr, Cu, Pb, Ni, Se, Ag, Tl, Zn

Received on Ice? (Y) N Thermometer# 5 Cooler # 1140
Date & Time _____ By: SJ
Receipt Temp Corrected(°C) -0.4°c
Sample X Blank____ Cooler____

Field Testing

ID#	ID#	ID#	ID#
Field Test	Field Test	Field Test	Field Test

MICRO-METHODS LABORATORY, INC.

Mailing Address:
PO Box 1410
Ocean Springs, MS
39566-1410

6500 Sunplex Drive
Ocean Springs, MS 39564
228.875.6420 Phone
228.875.6423 Fax

June 07, 2024

Brock Jones

Work Order # : 2405556

Purchase Order #:

City of Chickasaw
224 Grant Street
Mobile, AL 36611

RE: Permit Renewal

Enclosed are Micro-Methods Laboratory, Inc. results of analyses performed on samples received 05/29/2024 15:20. If you have any questions concerning this report, please feel free to contact the office.

Sincerely,

Mitch Spicer

Lab Director
Micro-Methods Laboratory, Inc.

NELAP ACCREDITED TNI LABORATORY

RECEIVED
DEC 17 2025
IND/MUN BRANCH
WATER DIVISION

DISCLAIMER

The results only relate to the items or the sample and/or samples received by the laboratory. This report shall not be reproduced except in full, without the approval of the laboratory. All NELAP certified test methods performed meet the requirements of NELAC 2009 Standards. Any variances and/or deviations specific to this analytical report are referenced in the lab report using qualifiers and detailed explanations found in the case narrative.

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City of Chickasaw
224 Grant Street
Mobile AL, 36611

Project: Permit Renewal
Project Number: Permit Renewal
Project Manager: Brock Jones

Reported:
06/07/2024 14:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date/Time Sampled	Sampled by	Date/Time Received
Effluent-Grab	2405556-01	Water	05/29/2024 09:55	*Clifford W. Meins*	05/29/2024 15:20
Effluent-Composite	2405556-02	Water	05/29/2024 09:50	*Clifford W. Meins*	05/29/2024 15:20
Trip Blank TBV#7407	2405556-03	Water	05/29/2024 09:55	*Micro Methods*	05/29/2024 15:20

Sample Receipt Conditions

Date/Time Received: 5/29/2024 3:20:00PM
Received by: Sarah E. Tomek
Date/Time Logged: 5/30/2024 7:51:00AM
Cooler ID: #339

Shipped by: Lab Pick-up
Submitted by: Clifford W. Meins
Logged by: Sarah E. Tomek
Receipt Temperature: 2.4 °C

Cooler Custody Seals Present	No	*Received on Ice but Not Frozen*	Yes
Containers Intact	Yes	*No Ice, Short Trip*	No
COC/Labels Agree	Yes	*Obvious Contamination*	No
Labels Complete	No	*Rush to meet HT*	No
COC Complete	Yes	*Received within HT*	Yes
Volatile Vial Headspace >6mm	No	*Proper Containers for Analysis*	Yes
Field Sheet/Instructions Included	No	*Correct Preservation*	Yes
Samples Rejected/Documented in Log	No	*Adequate Sample for Analysis*	Yes
Temp Taken From Temp Blank	No	*Sample Custody Seals Present*	No
Temp Taken From Sample Container	Yes	*Samples Missing from COC/Cooler*	No
Temp Taken From Cooler	No		
COC meets acceptance criteria	Yes		

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City of Chickasaw 224 Grant Street Mobile AL, 36611	Project: Permit Renewal Project Number: Permit Renewal Project Manager: Brock Jones	**Reported:** 06/07/2024 14:25

CASE NARRATIVE SUMMARY

All reported results are within Micro-Methods Laboratory, Inc.defined laboratory quality control objectives unless detailed in narrative summary or identified as qualifications. NOTE: All results listed on this report are calculated on a wet weight basis (as received by the laboratory) unless otherwise noted in the analysis qualification sections.

Summary Comments:

Volatile Technician Comments - BSF:
Sample(s) analyzed with zero headspace. 624.1
pH of sample(s) is less than two in preserved vials. 624.1

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Phenol (PH4APN)-EPA 420.1 1978

Qualifiers:

CC-01 CCV outside acceptance limits. Sample results reported from this calibration were below the reporting limits.

Phenolics, Total
2405556-02[Effluent-Composite]

CC-03 CCV outside acceptance limits. QC Results reported from this calibration within acceptance limits.

Phenolics, Total
4E31012-BLK1, 4E31012-BS1, 4E31012-BSD1, 4E31012-MS1

Oil and Grease EPA 1664A-EPA 1664A

Qualifiers:

M2 MS/MSD Recovery below acceptable limit.

Analyte & Samples(s) Qualified:

4F05051-MS1

M8 Target recovery is outside of established control limits due to matrix interference.

Analyte & Samples(s) Qualified:

4F05051-MS1

Total Metals-EPA 200.8 Rev 5.4

Qualifiers:

L1 LCS and/or LCSD Recovery Limit exceeded.

Nickel [He]
4F03035-BS1

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Volatile Organic Compounds by GCMS EPA 624.1-EPA 624.1

Qualifiers:

M1 MS/MSD Recovery limit exceeded.

1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,2-Dichloroethane, Chlorodibromomethane, Chloroform, Dichlorobromomethane
4F04039-MS1

M3 MS/MSD Precision Limit exceeded.

1,1,1-Trichloroethane, 1,1-Dichloroethylene, Methylene chloride
4F04039-MSD1

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City of Chickasaw	Project: Permit Renewal	
224 Grant Street	Project Number: Permit Renewal	**Reported:**
Mobile AL, 36611	Project Manager: Brock Jones	06/07/2024 14:25

Semivolatile Organic Compounds by 625.1-EPA 625.1

Qualifiers:

CC-01 CCV outside acceptance limits. Sample results reported from this calibration were below the reporting limits.

Di-n-octyl phthalate, Hexachlorocyclopentadiene

2405556-01[Effluent-Grab], 4F03024-DUP1, 4F03024-BLK1

CC-03 CCV outside acceptance limits. QC Results reported from this calibration within acceptance limits.

Hexachlorocyclopentadiene

4F03024-MS1

CC-04 CCV outside acceptance limits. Results reported are estimated values.

Hexachlorocyclopentadiene

4F03024-BS1, 4F03024-BSD1

L2 LCS and/or LCSD Recovery below acceptance limit.

1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2-Chloronaphthalene, 4-Bromophenyl phenyl ether, Bis(2-chloroisopropyl)ether, Hexachlorocyclopentadiene, Hexachloroethane, N-Nitrosodimethylamine, Phenanthrene

4F03024-BS1, 4F03024-BSD1

M5 Spike amounts should be in the range of 1 to 5 times the background level when a sample contains the target parameter in order to effectively evaluate spike recoveries. Batch acceptance is based on LCS/LCSD recoveries.

Acenaphthene, Fluorene, Phenanthrene

4F03024-MS1

P3 Sample/Sample Duplicate RPD exceeded acceptance criteria.

Acenaphthene, Fluorene, Naphthalene, Phenanthrene

4F03024-DUP1

SR05 Acid surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two acid surrogates.

Phenol-d5

4F03024-BS1, 4F03024-BSD1

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City of Chickasaw
224 Grant Street
Mobile AL, 36611

Project: Permit Renewal
Project Number: Permit Renewal
Project Manager: Brock Jones

Reported:
06/07/2024 14:25

Effluent-Grab

2405556-01 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Oil & Grease (HEM)	ND	5.00	mg/L	1.0	4F05051	rwm	06/04/2024 08:35	06/04/2024 16:00	EPA 1664A	
Acid and Base/Neutral Extractables by EPA Method 625.1										
2-Chlorophenol	ND	3.4	ug/L	1.0	4F03024	CRLV	06/03/2024 08:06	06/04/2024 13:21	EPA 625.1	
2,4-Dichlorophenol	ND	2.8	"	"	"	CRLV	"	"	"	
2,4-Dimethylphenol	ND	2.8	"	"	"	CRLV	"	"	"	
4,6-Dinitro-o-cresol	ND	3.3	"	"	"	CRLV	"	"	"	
2,4-Dinitrophenol	ND	5.1	"	"	"	CRLV	"	"	"	
2-Nitrophenol	ND	3.7	"	"	"	CRLV	"	"	"	
4-Nitrophenol	ND	2.4	"	"	"	CRLV	"	"	"	
p-Chloro-m-cresol	ND	3.1	"	"	"	CRLV	"	"	"	
Pentachlorophenol	ND	3.7	"	"	"	CRLV	"	"	"	
Phenol	ND	1.5	"	"	"	CRLV	"	"	"	
2,4,6-Trichlorophenol	ND	2.8	"	"	"	CRLV	"	"	"	
Acenaphthene	ND	1.9	"	"	"	CRLV	"	"	"	
Acenaphthylene	ND	3.6	"	"	"	CRLV	"	"	"	
Anthracene	ND	1.9	"	"	"	CRLV	"	"	"	
Benzidine	ND	15.3	"	"	"	CRLV	"	"	"	
Benzo (a) anthracene	ND	8.0	"	"	"	CRLV	"	"	"	
Benzo (a) pyrene	ND	2.6	"	"	"	CRLV	"	06/05/2024 20:48	"	
3,4-Benzo-fluoranthene	ND	4.9	"	"	"	CRLV	"	"	"	
Benzo (g,h,i) perylene	ND	4.2	"	"	"	CRLV	"	"	"	
Benzo (k) fluoranthene	ND	2.6	"	"	"	CRLV	"	"	"	
Bis(2-chloroethoxy)methane	ND	5.4	"	"	"	CRLV	"	06/04/2024 13:21	"	
Bis(2-chloroethyl)ether	ND	5.8	"	"	"	CRLV	"	"	"	
Bis(2-chloroisopropyl)ether	ND	5.8	"	"	"	CRLV	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	2.6	"	"	"	CRLV	"	"	"	
4-Bromophenyl phenyl ether	ND	1.9	"	"	"	CRLV	"	"	"	
Butyl benzyl phthalate	ND	2.6	"	"	"	CRLV	"	"	"	
2-Chloronaphthalene	ND	1.9	"	"	"	CRLV	"	"	"	
4-Chlorophenyl phenyl ether	ND	4.3	"	"	"	CRLV	"	"	"	
Chrysene	ND	2.6	"	"	"	CRLV	"	"	"	
Dibenz (a,h) anthracene	ND	2.6	"	"	"	CRLV	"	06/05/2024 20:48	"	
1,2-Dichlorobenzene	ND	1.9	"	"	"	CRLV	"	06/04/2024 13:21	"	
1,3-Dichlorobenzene	ND	1.9	"	"	"	CRLV	"	"	"	
1,4-Dichlorobenzene	ND	4.5	"	"	"	CRLV	"	"	"	
3,3'-Dichlorobenzidine	ND	5.1	"	"	"	CRLV	"	"	"	
Diethyl phthalate	ND	1.9	"	"	"	CRLV	"	"	"	
Dimethyl phthalate	ND	1.6	"	"	"	CRLV	"	"	"	

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City of Chickasaw
224 Grant Street
Mobile AL, 36611

Project: Permit Renewal
Project Number: Permit Renewal
Project Manager: Brock Jones

Reported:
06/07/2024 14:25

Effluent-Grab

2405556-01 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Acid and Base/Neutral Extractables by EPA Method 625.1										
Di-n-butyl phthalate	ND	2.6	ug/L	1.0	4F03024	CRLV	06/03/2024 08:06	"	"	
2,4-Dinitrotoluene	ND	5.8	"	"	"	CRLV	"	"	"	
2,6-Dinitrotoluene	ND	1.9	"	"	"	CRLV	"	"	"	
Di-n-octyl phthalate	ND	2.6	"	"	"	CRLV	"	06/05/2024 20:48	"	CC-01
1,2-Diphenylhydrazine as Azobenzene	ND	10.2	"	"	"	CRLV	"	06/04/2024 13:21	"	
Fluoranthene	ND	2.2	"	"	"	CRLV	"	"	"	
Fluorene	ND	1.9	"	"	"	CRLV	"	"	"	
Hexachlorobenzene	ND	1.9	"	"	"	CRLV	"	"	"	
Hexachlorobutadiene	ND	0.9	"	"	"	CRLV	"	"	"	
Hexachlorocyclopentadiene	ND	2.4	"	"	"	CRLV	"	"	"	CC-01
Hexachloroethane	ND	1.4	"	"	"	CRLV	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	3.8	"	"	"	CRLV	"	06/05/2024 20:48	"	
Isophorone	ND	2.2	"	"	"	CRLV	"	06/04/2024 13:21	"	
Naphthalene	ND	1.6	"	"	"	CRLV	"	"	"	
Nitrobenzene	ND	1.9	"	"	"	CRLV	"	"	"	
N-Nitrosodimethylamine	ND	1.5	"	"	"	CRLV	"	"	"	
N-Nitrosodi-n-propylamine	ND	2.0	"	"	"	CRLV	"	"	"	
N-Nitrosodiphenylamine	ND	1.9	"	"	"	CRLV	"	"	"	
Phenanthrene	ND	5.5	"	"	"	CRLV	"	"	"	
Pyrene	ND	1.9	"	"	"	CRLV	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	CRLV	"	"	"	

Surrogate		*% Rec*	*Rec Limits*	*Batch*		*Date Time Prepared*	*Date Time Analyzed*	*Method*	*Notes*
2,4,6-Tribromophenol	6.14	*60.2 %*	*19.6-127*	"	CRLV	"	"	"	
2-Fluorobiphenyl	2.40	*47.0 %*	*13.3-104*	"	CRLV	"	"	"	
2-Fluorophenol	1.91	*18.7 %*	*11.4-100*	"	CRLV	"	"	"	
Nitrobenzene-d5	1.90	*37.2 %*	*10-100*	"	CRLV	"	"	"	
Phenol-d5	1.80	*17.6 %*	*10-100*	"	CRLV	"	*06/05/2024 20:48*	"	
Terphenyl-dl4	2.43	*47.6 %*	*10-116*	"	CRLV	"	*06/04/2024 13:21*	"	

Purgeables by EPA Method 624.1

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Project: Permit Renewal
Project Number: Permit Renewal
Project Manager: Brock Jones

Reported:
06/07/2024 14:25

Effluent-Grab

2405556-01 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Purgeables by EPA Method 624.1										
Acrolein	ND	10.0	ug/L	1.0	4F04039	BSF	06/03/2024 08:00	06/05/2024 15:09	EPA 624.1	
Acrylonitrile	ND	5.00	"	"	"	BSF	"	06/03/2024 16:30	"	
Benzene	ND	3.50	"	"	"	BSF	"	"	"	
Bromoform	ND	4.70	"	"	"	BSF	"	"	"	
Carbon Tetrachloride	ND	2.80	"	"	"	BSF	"	"	"	
Chlorobenzene	ND	3.21	"	"	"	BSF	"	"	"	
Chlorodibromomethane	ND	3.10	"	"	"	BSF	"	"	"	
Chloroethane	ND	3.88	"	"	"	BSF	"	"	"	
2-Chloroethylvinyl ether	ND	10.0	"	"	"	BSF	"	"	"	
Chloroform	**9.10**	1.60	"	"	"	BSF	"	"	"	
Dichlorobromomethane	ND	2.20	"	"	"	BSF	"	"	"	
1,1-Dichloroethane	ND	3.42	"	"	"	BSF	"	"	"	
1,2-Dichloroethane	ND	2.80	"	"	"	BSF	"	"	"	
1,1-Dichloroethylene	ND	2.80	"	"	"	BSF	"	"	"	
1,2-Dichloropropane	ND	2.92	"	"	"	BSF	"	"	"	
cis-1,3-Dichloropropylene	ND	3.87	"	"	"	BSF	"	"	"	
trans-1,3-Dichloropropylene	ND	2.78	"	"	"	BSF	"	"	"	
Ethylbenzene	ND	4.10	"	"	"	BSF	"	"	"	
Methyl Bromide	ND	4.35	"	"	"	BSF	"	"	"	
Methyl Chloride	ND	4.61	"	"	"	BSF	"	"	"	
Methylene chloride	ND	2.77	"	"	"	BSF	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.13	"	"	"	BSF	"	"	"	
Tetrachloroethylene	ND	4.10	"	"	"	BSF	"	"	"	
Toluene	ND	4.46	"	"	"	BSF	"	"	"	
trans-1,2-Dichloroethylene	ND	1.60	"	"	"	BSF	"	"	"	
1,1,1-Trichloroethane	ND	2.93	"	"	"	BSF	"	"	"	
1,1,2-Trichloroethane	ND	3.66	"	"	"	BSF	"	"	"	
Trichloroethylene	ND	1.90	"	"	"	BSF	"	"	"	
Vinyl chloride	ND	3.74	"	"	"	BSF	"	"	"	

Surrogate		*% Rec*	*Rec Limits*	*Batch*		*Date Time Prepared*	*Date Time Analyzed*	*Method*	*Notes*
Dibromofluoromethane	54.0	*108 %*	*70-130*	"	BSF	"	"	"	
1,2-Dichloroethane-d4	55.7	*111 %*	*70-130*	"	BSF	"	"	"	
Toluene-d8	47.9	*95.7 %*	*70-130*	"	BSF	"	"	"	
4-Bromofluorobenzene	52.1	*104 %*	*70-130*	"	BSF	"	"	"	

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City of Chickasaw
224 Grant Street
Mobile AL, 36611

Project: Permit Renewal
Project Number: Permit Renewal
Project Manager: Brock Jones

Reported:
06/07/2024 14:25

Effluent-Composite

2405556-02 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Cyanide (total)	ND	0.050	mg/L	1.0	4F05045	CRG	06/05/2024 15:37	06/05/2024 15:54	SM 4500-CN E 2016	
Hardness (EDTA) as CaCO3	**52.0**	1.78	"	"	4E31020	RWM	05/31/2024 10:52	05/31/2024 11:30	SM 2340C-2011	
Phenolics, Total	ND	0.050	"	"	4E31012	DLW	05/31/2024 08:15	05/31/2024 13:49	EPA 420.1 1978	CC-01
Total Dissolved Solids	**132**	1	"	"	4F03029	CRG	05/31/2024 15:39	06/04/2024 11:43	SM 2540 C-2015	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4F03035	SCH	06/03/2024 09:00	06/04/2024 13:39	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Copper [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Nickel [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Silver [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Zinc [He]	ND	0.00500	"	"	"	SCH	"	"	"	

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Reported:
06/07/2024 14:25

Trip Blank TBV#7407

2405556-03 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Purgeables by EPA Method 624.1										
Acrolein	ND	10.0	ug/L	1.0	4F04039	BSF	06/03/2024 08:00	06/05/2024 15:34	EPA 624.1	
Acrylonitrile	ND	5.00	"	"	"	BSF	"	06/03/2024 16:59	"	
Benzene	ND	3.50	"	"	"	BSF	"	"	"	
Bromoform	ND	4.70	"	"	"	BSF	"	"	"	
Carbon Tetrachloride	ND	2.80	"	"	"	BSF	"	"	"	
Chlorobenzene	ND	3.21	"	"	"	BSF	"	"	"	
Chlorodibromomethane	ND	3.10	"	"	"	BSF	"	"	"	
Chloroethane	ND	3.88	"	"	"	BSF	"	"	"	
2-Chloroethylvinyl ether	ND	10.0	"	"	"	BSF	"	"	"	
Chloroform	ND	1.60	"	"	"	BSF	"	"	"	
Dichlorobromomethane	ND	2.20	"	"	"	BSF	"	"	"	
1,1-Dichloroethane	ND	3.42	"	"	"	BSF	"	"	"	
1,2-Dichloroethane	ND	2.80	"	"	"	BSF	"	"	"	
1,1-Dichloroethylene	ND	2.80	"	"	"	BSF	"	"	"	
1,2-Dichloropropane	ND	2.92	"	"	"	BSF	"	"	"	
cis-1,3-Dichloropropylene	ND	3.87	"	"	"	BSF	"	"	"	
trans-1,3-Dichloropropylene	ND	2.78	"	"	"	BSF	"	"	"	
Ethylbenzene	ND	4.10	"	"	"	BSF	"	"	"	
Methyl Bromide	ND	4.35	"	"	"	BSF	"	"	"	
Methyl Chloride	ND	4.61	"	"	"	BSF	"	"	"	
Methylene chloride	ND	2.77	"	"	"	BSF	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.13	"	"	"	BSF	"	"	"	
Tetrachloroethylene	ND	4.10	"	"	"	BSF	"	"	"	
Toluene	ND	4.46	"	"	"	BSF	"	"	"	
trans-1,2-Dichloroethylene	ND	1.60	"	"	"	BSF	"	"	"	
1,1,1-Trichloroethane	ND	2.93	"	"	"	BSF	"	"	"	
1,1,2-Trichloroethane	ND	3.66	"	"	"	BSF	"	"	"	
Trichloroethylene	ND	1.90	"	"	"	BSF	"	"	"	
Vinyl chloride	ND	3.74	"	"	"	BSF	"	"	"	

Surrogate		*% Rec*	*Rec Limits*	*Batch*		*Date Time Prepared*	*Date Time Analyzed*	*Method*	*Notes*
Dibromofluoromethane	53.2	*106 %*	*70-130*	"	BSF	"	"	"	
1,2-Dichloroethane-d4	56.0	*112 %*	*70-130*	"	BSF	"	"	"	
Toluene-d8	47.3	*94.6 %*	*70-130*	"	BSF	"	"	"	
4-Bromofluorobenzene	51.4	*103 %*	*70-130*	"	BSF	"	"	"	

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City of Chickasaw
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Mobile AL, 36611

Project: Permit Renewal
Project Number: Permit Renewal
Project Manager: Brock Jones

Reported:
06/07/2024 14:25

Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4E31012 - Default Prep GenChem											
Blank (4E31012-BLK1)											
Phenolics, Total	5/31/24 13:49	ND	0.050	mg/L							CC-03
LCS (4E31012-BS1)											
Phenolics, Total	5/31/24 13:49	0.101	0.050	mg/L	0.101		100	67-117			CC-03
LCS Dup (4E31012-BSD1)											
Phenolics, Total	5/31/24 13:49	0.097	0.050	mg/L	0.101		96.0	67-117	4.04	30	CC-03
Matrix Spike (4E31012-MS1)			Source: 2405453-02								
Phenolics, Total	5/31/24 13:49	0.118	0.050	mg/L	0.101	ND	117	47.1-119			CC-03
Batch 4E31020 - Default Prep GenChem											
Blank (4E31020-BLK1)											
Hardness (EDTA) as CaCO3	5/31/24 11:30	ND	1.78	mg/L							
LCS (4E31020-BS1)											
Hardness (EDTA) as CaCO3	5/31/24 11:30	40.0	1.78	mg/L	40.0		100	90-110			
LCS Dup (4E31020-BSD1)											
Hardness (EDTA) as CaCO3	5/31/24 11:30	40.0	1.78	mg/L	40.0		100	90-110	0.00	20	
Duplicate (4E31020-DUP1)			Source: 2405556-02								
Hardness (EDTA) as CaCO3	5/31/24 11:30	53.0	1.78	mg/L		52.0			1.90	35	
Batch 4F03029 - Default Prep GenChem											
Blank (4F03029-BLK1)											
Total Dissolved Solids	6/4/24 11:43	ND	1	mg/L							

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Project Manager: Brock Jones

Reported:
06/07/2024 14:25

Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4F03029 - Default Prep GenChem											
LCS (4F03029-BS1)											
Total Dissolved Solids	6/4/24 11:43	89	1	mg/L	99.2		89.7	69.8-100			
LCS Dup (4F03029-BSD1)											
Total Dissolved Solids	6/4/24 11:43	89	1	mg/L	99.2		89.7	69.8-100	0.00	10	
Duplicate (4F03029-DUP1)			**Source: 2405530-01**								
Total Dissolved Solids	6/4/24 11:43	2478	2	mg/L		2446			1.30	10	
Batch 4F05045 - Default Prep GenChem											
Blank (4F05045-BLK1)											
Cyanide (total)	6/5/24 15:54	ND	0.050	mg/L							
LCS (4F05045-BS1)											
Cyanide (total)	6/5/24 15:54	0.389	0.050	mg/L	0.400		97.3	82.6-115			
LCS Dup (4F05045-BSD1)											
Cyanide (total)	6/5/24 15:54	0.391	0.050	mg/L	0.400		97.6	82.6-115	0.359	20	
Duplicate (4F05045-DUP1)			**Source: 2405556-02**								
Cyanide (total)	6/5/24 15:54	ND	0.050	mg/L		ND				20	
Matrix Spike (4F05045-MS1)			**Source: 2405556-02**								
Cyanide (total)	6/5/24 15:54	0.339	0.050	mg/L	0.400	ND	84.7	77.2-117			
Matrix Spike Dup (4F05045-MSD1)			**Source: 2405556-02**								
Cyanide (total)	6/5/24 15:54	0.337	0.050	mg/L	0.400	ND	84.3	77.2-117	0.414	25	

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Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4F05051 - Default Prep GenChem											
Blank (4F05051-BLK1)											
Oil & Grease (HEM)	6/4/24 16:00	ND	3.90	mg/L							
LCS (4F05051-BS1)											
Oil & Grease (HEM)	6/4/24 16:00	36.6	3.88	mg/L	40.8		89.6	78-114			
LCS Dup (4F05051-BSD1)											
Oil & Grease (HEM)	6/4/24 16:00	33.3	3.92	mg/L	41.3		80.8	78-114	9.26	18	
Matrix Spike (4F05051-MS1)			**Source: 2405559-01**								**M2, M8**
Oil & Grease (HEM)	6/4/24 16:00	15.1	4.04	mg/L	42.5	ND	35.4	78-114			
Matrix Spike (4F05051-MS2)			**Source: 2405523-02**								
Oil & Grease (HEM)	6/4/24 16:00	32.2	3.74	mg/L	39.4	ND	81.8	78-114			

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Reported:
06/07/2024 14:25

Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4F03035 - EPA 200.2 DCN 1017 Rev 10											
Blank (4F03035-BLK1)											
Antimony [He]	6/4/24 13:04	ND	0.00200	mg/L							
Arsenic [He]	6/4/24 13:04	ND	0.00200	"							
Beryllium [He]	6/4/24 13:04	ND	0.00100	"							
Cadmium [He]	6/4/24 13:04	ND	0.00100	"							
Chromium [He]	6/4/24 13:04	ND	0.00100	"							
Copper [He]	6/4/24 13:04	ND	0.00100	"							
Lead [He]	6/4/24 13:04	ND	0.00100	"							
Nickel [He]	6/4/24 13:04	ND	0.00100	"							
Selenium [He]	6/4/24 13:04	ND	0.00100	"							
Silver [He]	6/4/24 13:04	ND	0.00100	"							
Thallium [He]	6/4/24 13:04	ND	0.00100	"							
Zinc [He]	6/4/24 13:04	ND	0.00500	"							
LCS (4F03035-BS1)											
Antimony [He]	6/4/24 11:25	0.103	0.00200	mg/L	0.100		103	85-115			
Arsenic [He]	6/4/24 11:25	0.101	0.00200	"	0.100		101	85-115			
Beryllium [He]	6/4/24 11:25	0.104	0.00100	"	0.100		104	85-115			
Cadmium [He]	6/4/24 11:25	0.100	0.00100	"	0.100		100	85-115			
Chromium [He]	6/4/24 11:25	0.105	0.00100	"	0.100		105	85-115			
Copper [He]	6/4/24 11:25	0.105	0.00100	"	0.100		105	85-115			
Lead [He]	6/4/24 11:25	0.101	0.00100	"	0.100		101	85-115			
Nickel [He]	6/4/24 11:25	0.117	0.00100	"	0.100		117	85-115			L1
Selenium [He]	6/4/24 11:25	0.101	0.00100	"	0.100		101	85-115			
Silver [He]	6/4/24 11:25	0.052	0.00100	"	0.0500		103	85-115			
Thallium [He]	6/4/24 11:25	0.100	0.00100	"	0.100		100	85-115			
Zinc [He]	6/4/24 11:25	0.102	0.00500	"	0.100		102	85-115			
LCS Dup (4F03035-BSD1)											
Antimony [He]	6/4/24 11:30	0.104	0.00200	mg/L	0.100		104	85-115	1.56	20	
Arsenic [He]	6/4/24 11:30	0.101	0.00200	"	0.100		101	85-115	0.653	20	
Beryllium [He]	6/4/24 11:30	0.104	0.00100	"	0.100		104	85-115	0.155	20	
Cadmium [He]	6/4/24 11:30	0.102	0.00100	"	0.100		102	85-115	1.49	20	
Chromium [He]	6/4/24 11:30	0.106	0.00100	"	0.100		106	85-115	0.571	20	
Copper [He]	6/4/24 11:30	0.106	0.00100	"	0.100		106	85-115	0.708	20	
Lead [He]	6/4/24 11:30	0.101	0.00100	"	0.100		101	85-115	0.322	20	
Nickel [He]	6/4/24 11:30	0.102	0.00100	"	0.100		102	85-115	13.9	20	
Selenium [He]	6/4/24 11:30	0.096	0.00100	"	0.100		95.9	85-115	4.95	20	
Silver [He]	6/4/24 11:30	0.052	0.00100	"	0.0500		104	85-115	0.613	20	
Thallium [He]	6/4/24 11:30	0.101	0.00100	"	0.100		101	85-115	0.497	20	
Zinc [He]	6/4/24 11:30	0.103	0.00500	"	0.100		103	85-115	0.725	20	

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Reported:
06/07/2024 14:25

Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4F03035 - EPA 200.2 DCN 1017 Rev 10											
Matrix Spike (4F03035-MS1)			**Source: 2405517-01**								
Antimony [He]	6/4/24 11:39	0.107	0.00200	mg/L	0.100	0.003	104	70-130			
Arsenic [He]	6/4/24 11:39	0.100	0.00200	"	0.100	0.001	98.9	70-130			
Beryllium [He]	6/4/24 11:39	0.083	0.00100	"	0.100	ND	83.3	70-130			
Cadmium [He]	6/4/24 11:39	0.090	0.00100	"	0.100	ND	89.7	70-130			
Chromium [He]	6/4/24 11:39	0.095	0.00100	"	0.100	0.0009	94.4	70-130			
Copper [He]	6/4/24 11:39	0.085	0.00100	"	0.100	0.0005	84.9	70-130			
Lead [He]	6/4/24 11:39	0.106	0.00100	"	0.100	ND	106	70-130			
Nickel [He]	6/4/24 11:39	0.179	0.00100	"	0.100	0.097	81.2	70-130			
Selenium [He]	6/4/24 11:39	0.098	0.00100	"	0.100	0.0009	97.1	70-130			
Silver [He]	6/4/24 11:39	0.050	0.00100	"	0.0500	ND	99.6	70-130			
Thallium [He]	6/4/24 11:39	0.105	0.00100	"	0.100	0.001	104	70-130			
Zinc [He]	6/4/24 11:39	0.088	0.00500	"	0.100	0.004	83.7	70-130			
Matrix Spike (4F03035-MS2)			**Source: 2405542-04**								
Antimony [He]	6/4/24 13:26	0.104	0.00200	mg/L	0.100	0.0008	103	70-130			
Arsenic [He]	6/4/24 13:26	0.100	0.00200	"	0.100	0.0005	99.3	70-130			
Beryllium [He]	6/4/24 13:26	0.109	0.00100	"	0.100	ND	109	70-130			
Cadmium [He]	6/4/24 13:26	0.106	0.00100	"	0.100	0.004	101	70-130			
Chromium [He]	6/4/24 13:26	0.105	0.00100	"	0.100	0.0007	105	70-130			
Copper [He]	6/4/24 13:26	0.108	0.00100	"	0.100	0.005	103	70-130			
Lead [He]	6/4/24 13:26	0.100	0.00100	"	0.100	0.001	99.2	70-130			
Nickel [He]	6/4/24 13:26	0.103	0.00100	"	0.100	0.005	97.7	70-130			
Selenium [He]	6/4/24 13:26	0.095	0.00100	"	0.100	0.003	91.5	70-130			
Silver [He]	6/4/24 13:26	0.051	0.00100	"	0.0500	ND	103	70-130			
Thallium [He]	6/4/24 13:26	0.097	0.00100	"	0.100	0.0002	96.5	70-130			
Zinc [He]	6/4/24 13:26	0.140	0.00500	"	0.100	0.039	101	70-130			
Matrix Spike Dup (4F03035-MSD1)			**Source: 2405517-01**								
Antimony [He]	6/4/24 11:43	0.108	0.00200	mg/L	0.100	0.003	105	70-130	0.547	20	
Arsenic [He]	6/4/24 11:43	0.099	0.00200	"	0.100	0.001	98.3	70-130	0.599	20	
Beryllium [He]	6/4/24 11:43	0.082	0.00100	"	0.100	ND	82.3	70-130	1.18	20	
Cadmium [He]	6/4/24 11:43	0.090	0.00100	"	0.100	ND	90.1	70-130	0.473	20	
Chromium [He]	6/4/24 11:43	0.095	0.00100	"	0.100	0.0009	93.9	70-130	0.554	20	
Copper [He]	6/4/24 11:43	0.086	0.00100	"	0.100	0.0005	85.3	70-130	0.390	20	
Lead [He]	6/4/24 11:43	0.107	0.00100	"	0.100	ND	107	70-130	0.917	20	
Nickel [He]	6/4/24 11:43	0.180	0.00100	"	0.100	0.097	82.9	70-130	0.965	20	
Selenium [He]	6/4/24 11:43	0.097	0.00100	"	0.100	0.0009	95.8	70-130	1.31	20	
Silver [He]	6/4/24 11:43	0.050	0.00100	"	0.0500	ND	101	70-130	1.05	20	
Thallium [He]	6/4/24 11:43	0.106	0.00100	"	0.100	0.001	105	70-130	0.732	20	
Zinc [He]	6/4/24 11:43	0.087	0.00500	"	0.100	0.004	83.4	70-130	0.379	20	

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Project: Permit Renewal
Project Number: Permit Renewal
Project Manager: Brock Jones

Reported:
06/07/2024 14:25

Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4F03035 - EPA 200.2 DCN 1017 Rev 10											
Matrix Spike Dup (4F03035-MSD2)			**Source: 2405542-04**								
Antimony [He]	6/4/24 13:30	0.103	0.00200	mg/L	0.100	0.0008	102	70-130	1.01	20	
Arsenic [He]	6/4/24 13:30	0.100	0.00200	"	0.100	0.0005	99.8	70-130	0.432	20	
Beryllium [He]	6/4/24 13:30	0.107	0.00100	"	0.100	ND	107	70-130	1.65	20	
Cadmium [He]	6/4/24 13:30	0.105	0.00100	"	0.100	0.004	101	70-130	0.209	20	
Chromium [He]	6/4/24 13:30	0.105	0.00100	"	0.100	0.0007	104	70-130	0.290	20	
Copper [He]	6/4/24 13:30	0.109	0.00100	"	0.100	0.005	104	70-130	0.546	20	
Lead [He]	6/4/24 13:30	0.100	0.00100	"	0.100	0.001	98.3	70-130	0.906	20	
Nickel [He]	6/4/24 13:30	0.103	0.00100	"	0.100	0.005	98.2	70-130	0.470	20	
Selenium [He]	6/4/24 13:30	0.098	0.00100	"	0.100	0.003	94.6	70-130	3.13	20	
Silver [He]	6/4/24 13:30	0.051	0.00100	"	0.0500	ND	102	70-130	0.252	20	
Thallium [He]	6/4/24 13:30	0.096	0.00100	"	0.100	0.0002	96.3	70-130	0.226	20	
Zinc [He]	6/4/24 13:30	0.140	0.00500	"	0.100	0.039	101	70-130	0.127	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Acid and Base/Neutral Extractables by EPA Method 625.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4F03024 - EPA 3510C DCN 4000 Rev 12											
Blank (4F03024-BLK1)											
2-Chlorophenol	6/4/24 10:59	ND	3.3	ug/L							
2,4-Dichlorophenol	6/4/24 10:59	ND	2.7	"							
2,4-Dimethylphenol	6/4/24 10:59	ND	2.7	"							
4,6-Dinitro-o-cresol	6/4/24 10:59	ND	3.3	"							
2,4-Dinitrophenol	6/4/24 10:59	ND	5.0	"							
2-Nitrophenol	6/4/24 10:59	ND	3.6	"							
4-Nitrophenol	6/4/24 10:59	ND	2.4	"							
p-Chloro-m-cresol	6/4/24 10:59	ND	3.0	"							
Pentachlorophenol	6/4/24 10:59	ND	3.6	"							
Phenol	6/4/24 10:59	ND	1.5	"							
2,4,6-Trichlorophenol	6/4/24 10:59	ND	2.7	"							
Acenaphthene	6/4/24 10:59	ND	1.9	"							
Acenaphthylene	6/4/24 10:59	ND	3.5	"							
Anthracene	6/4/24 10:59	ND	1.9	"							
Benzidine	6/4/24 10:59	ND	15.0	"							
Benzo (a) anthracene	6/4/24 10:59	ND	7.8	"							
Benzo (a) pyrene	6/4/24 10:59	ND	2.5	"							
3,4-Benzo-fluoranthene	6/4/24 10:59	ND	4.8	"							
Benzo (g,h,i) perylene	6/4/24 10:59	ND	4.1	"							
Benzo (k) fluoranthene	6/4/24 10:59	ND	2.5	"							
Bis(2-chloroethoxy)methane	6/4/24 10:59	ND	5.3	"							
Bis(2-chloroethyl)ether	6/4/24 10:59	ND	5.7	"							
Bis(2-chloroisopropyl)ether	6/4/24 10:59	ND	5.7	"							
Bis(2-ethylhexyl)phthalate	6/4/24 10:59	ND	2.5	"							
4-Bromophenyl phenyl ether	6/4/24 10:59	ND	1.9	"							
Butyl benzyl phthalate	6/4/24 10:59	ND	2.5	"							
2-Chloronaphthalene	6/4/24 10:59	ND	1.9	"							
4-Chlorophenyl phenyl ether	6/4/24 10:59	ND	4.2	"							
Chrysene	6/4/24 10:59	ND	2.5	"							
Dibenz (a,h) anthracene	6/4/24 10:59	ND	2.5	"							
1,2-Dichlorobenzene	6/4/24 10:59	ND	1.9	"							
1,3-Dichlorobenzene	6/4/24 10:59	ND	1.9	"							
1,4-Dichlorobenzene	6/4/24 10:59	ND	4.4	"							
3,3'-Dichlorobenzidine	6/4/24 10:59	ND	5.0	"							
Diethyl phthalate	6/4/24 10:59	ND	1.9	"							
Dimethyl phthalate	6/4/24 10:59	ND	1.6	"							
Di-n-butyl phthalate	6/4/24 10:59	ND	2.5	"							
2,4-Dinitrotoluene	6/4/24 10:59	ND	5.7	"							
2,6-Dinitrotoluene	6/4/24 10:59	ND	1.9	"							
Di-n-octyl phthalate	6/4/24 10:59	ND	2.5	"							
1,2-Diphenylhydrazine as Azobenzene	6/4/24 10:59	ND	10.0	"							
Fluoranthene	6/4/24 10:59	ND	2.2	"							
Fluorene	6/4/24 10:59	ND	1.9	"							
Hexachlorobenzene	6/4/24 10:59	ND	1.9	"							
Hexachlorobutadiene	6/4/24 10:59	ND	0.9	"							

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06/07/2024 14:25

Acid and Base/Neutral Extractables by EPA Method 625.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4F03024 - EPA 3510C DCN 4000 Rev 12											
Blank (4F03024-BLK1)											
Hexachlorocyclopentadiene	6/4/24 10:59	ND	2.3	ug/L							CC-01
Hexachloroethane	6/4/24 10:59	ND	1.4	"							
Indeno (1,2,3-cd) pyrene	6/4/24 10:59	ND	3.7	"							
Isophorone	6/4/24 10:59	ND	2.2	"							
Naphthalene	6/4/24 10:59	ND	1.6	"							
Nitrobenzene	6/4/24 10:59	ND	1.9	"							
N-Nitrosodimethylamine	6/4/24 10:59	ND	1.5	"							
N-Nitrosodi-n-propylamine	6/4/24 10:59	ND	1.9	"							
N-Nitrosodiphenylamine	6/4/24 10:59	ND	1.9	"							
Phenanthrene	6/4/24 10:59	ND	5.4	"							
Pyrene	6/4/24 10:59	ND	1.9	"							
1,2,4-Trichlorobenzene	6/4/24 10:59	ND	1.9	"							
Surrogate: 2,4,6-Tribromophenol		*5.79*		"	*10.0*		*57.9*	*19.6-127*			
Surrogate: 2-Fluorobiphenyl		*2.50*		"	*5.00*		*50.0*	*13.3-104*			
Surrogate: 2-Fluorophenol		*1.75*		"	*10.0*		*17.5*	*11.4-100*			
Surrogate: Nitrobenzene-d5		*1.74*		"	*5.00*		*34.8*	*10-100*			
Surrogate: Phenol-d5		*2.06*		"	*10.0*		*20.6*	*10-100*			
Surrogate: Terphenyl-dl4		*2.84*		"	*5.00*		*56.8*	*10-116*			
LCS (4F03024-BS1)											
2-Chlorophenol	6/4/24 13:57	5.0	3.3	ug/L	10.0		49.5	36-120			
2,4-Dichlorophenol	6/4/24 13:57	5.7	2.7	"	10.0		56.8	53-122			
2,4-Dimethylphenol	6/4/24 13:57	6.3	2.7	"	10.0		63.1	42-120			
4,6-Dinitro-o-cresol	6/4/24 13:57	5.8	3.3	"	10.0		57.5	53-130			
2,4-Dinitrophenol	6/4/24 13:57	2.6	5.0	"	10.0		25.9	10-173			
2-Nitrophenol	6/4/24 13:57	7.3	3.6	"	10.0		73.0	45-167			
4-Nitrophenol	6/4/24 13:57	1.3	2.4	"	10.0		13.2	13-129			
p-Chloro-m-cresol	6/4/24 13:57	5.9	3.0	"	10.0		59.3	41-128			
Pentachlorophenol	6/4/24 13:57	4.6	3.6	"	10.0		46.1	38-152			
Phenol	6/4/24 13:57	1.9	1.5	"	10.0		18.8	17-120			
2,4,6-Trichlorophenol	6/4/24 13:57	5.8	2.7	"	10.0		58.4	52-129			
Acenaphthene	6/4/24 13:57	6.1	1.9	"	10.0		61.1	60-132			
Acenaphthylene	6/4/24 13:57	6.0	3.5	"	10.0		59.7	54-126			
Anthracene	6/4/24 13:57	5.4	1.9	"	10.0		54.4	43-120			
Benzo (a) anthracene	6/4/24 13:57	5.3	7.8	"	10.0		52.8	42-133			
Benzo (a) pyrene	6/5/24 15:32	5.6	2.5	"	10.0		55.5	32-148			
3,4-Benzo-fluoranthene	6/5/24 15:32	6.0	4.8	"	10.0		60.4	42-140			
Benzo (g,h,i) perylene	6/4/24 9:49	1.9	4.1	"	10.0		18.8	10-195			
Benzo (k) fluoranthene	6/4/24 9:49	2.6	2.5	"	10.0		26.2	25-146			
Bis(2-chloroethoxy)methane	6/4/24 13:57	6.0	5.3	"	10.0		59.7	49-165			
Bis(2-chloroethyl)ether	6/4/24 13:57	7.2	5.7	"	10.0		72.1	43-126			
Bis(2-chloroisopropyl)ether	6/4/24 13:57	4.7	5.7	"	10.0		47.2	63-139			L2
Bis(2-ethylhexyl)phthalate	6/4/24 13:57	6.5	2.5	"	10.0		64.7	29-137			
4-Bromophenyl phenyl ether	6/4/24 13:57	5.9	1.9	"	10.0		58.7	65-120			L2

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Acid and Base/Neutral Extractables by EPA Method 625.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4F03024 - EPA 3510C DCN 4000 Rev 12											
LCS (4F03024-BS1)											
Butyl benzyl phthalate	6/4/24 9:49	2.4	2.5	ug/L	10.0		24.0	10-140			
2-Chloronaphthalene	6/4/24 13:57	6.7	1.9	"	10.0		67.3	65-120			
4-Chlorophenyl phenyl ether	6/4/24 13:57	5.8	4.2	"	10.0		57.7	38-145			
Chrysene	6/4/24 13:57	5.8	2.5	"	10.0		57.5	44-140			
Dibenz (a,h) anthracene	6/5/24 15:32	4.1	2.5	"	10.0		40.5	10-200			
1,2-Dichlorobenzene	6/4/24 13:57	4.8	1.9	"	10.0		47.9	60-140			L2
1,3-Dichlorobenzene	6/4/24 13:57	4.7	1.9	"	10.0		46.6	60-140			L2
1,4-Dichlorobenzene	6/4/24 13:57	4.6	4.4	"	10.0		46.1	60-140			L2
Diethyl phthalate	6/4/24 9:49	2.1	1.9	"	10.0		21.1	10-120			
Dimethyl phthalate	6/4/24 9:49	2.2	1.6	"	10.0		21.5	10-120			
Di-n-butyl phthalate	6/4/24 9:49	2.1	2.5	"	10.0		20.5	8-120			
2,4-Dinitrotoluene	6/4/24 13:57	7.2	5.7	"	10.0		71.9	48-127			
2,6-Dinitrotoluene	6/4/24 13:57	6.8	1.9	"	10.0		68.1	68-137			
Di-n-octyl phthalate	6/4/24 9:49	2.8	2.5	"	10.0		28.3	19-132			
1,2-Diphenylhydrazine as Azobenzene	6/4/24 13:57	6.4	10.0	"	10.0		64.3	60-140			
Fluoranthene	6/4/24 13:57	5.7	2.2	"	10.0		56.7	43-121			
Fluorene	6/4/24 13:57	7.8	1.9	"	10.0		77.6	70-120			
Hexachlorobenzene	6/4/24 9:49	2.0	1.9	"	10.0		20.3	8-142			
Hexachlorobutadiene	6/4/24 13:57	4.4	0.9	"	10.0		43.9	38-120			
Hexachlorocyclopentadiene	6/4/24 13:57	3.7	2.3	"	10.0		37.1	60-140			CC-04, L2
Hexachloroethane	6/4/24 13:57	4.5	1.4	"	10.0		44.6	55-120			L2
Indeno (1,2,3-cd) pyrene	6/4/24 9:49	1.7	3.7	"	10.0		17.1	10-151			
Isophorone	6/4/24 13:57	6.0	2.2	"	10.0		59.5	47-180			
Naphthalene	6/4/24 13:57	4.9	1.6	"	10.0		48.6	36-120			
Nitrobenzene	6/4/24 13:57	6.0	1.9	"	10.0		60.2	54-158			
N-Nitrosodimethylamine	6/4/24 13:57	2.9	1.5	"	10.0		28.7	60-140			L2
N-Nitrosodi-n-propylamine	6/4/24 9:49	1.8	1.9	"	10.0		18.2	14-198			
N-Nitrosodiphenylamine	6/4/24 13:57	7.2	1.9	"	10.0		72.4	60-140			
Phenanthrene	6/4/24 13:57	5.6	5.4	"	10.0		56.0	65-120			L2
Pyrene	6/4/24 13:57	7.1	1.9	"	10.0		70.5	70-120			
1,2,4-Trichlorobenzene	6/4/24 13:57	4.8	1.9	"	10.0		48.1	57-130			L2
Surrogate: 2,4,6-Tribromophenol		*8.02*		"	*10.0*		*80.2*	*21.1-140*			
Surrogate: 2-Fluorobiphenyl		*0.930*		"	*5.00*		*18.6*	*10.8-140*			
Surrogate: 2-Fluorophenol		*3.18*		"	*10.0*		*31.8*	*10-140*			
Surrogate: Nitrobenzene-d5		*3.88*		"	*5.00*		*77.6*	*46-219*			
Surrogate: Phenol-d5		*2.95*		"	*10.0*		*29.5*	*48-208*			*SR05*
Surrogate: Terphenyl-dl4		*1.13*		"	*5.00*		*22.6*	*10-140*			

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Acid and Base/Neutral Extractables by EPA Method 625.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4F03024 - EPA 3510C DCN 4000 Rev 12											
LCS Dup (4F03024-BSD1)											
2-Chlorophenol	6/4/24 10:24	4.6	3.3	ug/L	10.0		46.4	36-120	6.47	200	
2,4-Dichlorophenol	6/4/24 10:24	5.4	2.7	"	10.0		54.4	53-122	4.32	200	
2,4-Dimethylphenol	6/4/24 10:24	6.2	2.7	"	10.0		61.9	42-120	1.92	200	
4,6-Dinitro-o-cresol	6/4/24 14:32	6.3	3.3	"	10.0		63.1	53-130	9.29	200	
2,4-Dinitrophenol	6/4/24 10:24	4.6	5.0	"	10.0		46.4	10-173	56.7	200	
2-Nitrophenol	6/4/24 10:24	6.7	3.6	"	10.0		67.0	45-167	8.57	200	
4-Nitrophenol	6/4/24 10:24	1.7	2.4	"	10.0		17.3	13-129	26.9	200	
p-Chloro-m-cresol	6/4/24 10:24	5.6	3.0	"	10.0		56.0	41-128	5.72	200	
Pentachlorophenol	6/4/24 10:24	4.4	3.6	"	10.0		43.5	38-152	5.80	200	
Phenol	6/4/24 10:24	1.7	1.5	"	10.0		17.1	17-120	9.47	200	
2,4,6-Trichlorophenol	6/4/24 10:24	5.5	2.7	"	10.0		54.8	52-129	6.36	200	
Acenaphthene	6/4/24 14:32	6.1	1.9	"	10.0		61.0	60-132	0.164	200	
Acenaphthylene	6/4/24 10:24	6.2	3.5	"	10.0		62.1	54-126	3.94	200	
Anthracene	6/4/24 10:24	5.9	1.9	"	10.0		59.3	43-120	8.62	200	
Benzo (a) anthracene	6/4/24 10:24	5.8	7.8	"	10.0		57.6	42-133	8.70	200	
Benzo (a) pyrene	6/4/24 10:24	6.2	2.5	"	10.0		62.4	32-148	11.7	200	
3,4-Benzo-fluoranthene	6/4/24 10:24	5.8	4.8	"	10.0		58.2	42-140	3.71	200	
Benzo (g,h,i) perylene	6/4/24 10:24	5.6	4.1	"	10.0		56.2	10-195	99.7	200	
Benzo (k) fluoranthene	6/4/24 10:24	7.3	2.5	"	10.0		72.9	25-146	94.2	200	
Bis(2-chloroethoxy)methane	6/4/24 10:24	5.7	5.3	"	10.0		57.4	49-165	3.93	200	
Bis(2-chloroethyl)ether	6/4/24 10:24	6.9	5.7	"	10.0		68.9	43-126	4.54	200	
Bis(2-chloroisopropyl)ether	6/4/24 14:32	4.9	5.7	"	10.0		49.2	63-139	4.15	200	L2
Bis(2-ethylhexyl)phthalate	6/4/24 10:24	7.1	2.5	"	10.0		71.4	29-137	9.85	200	
4-Bromophenyl phenyl ether	6/4/24 14:32	5.7	1.9	"	10.0		57.4	65-120	2.24	200	L2
Butyl benzyl phthalate	6/4/24 10:24	7.2	2.5	"	10.0		72.2	10-140	100	200	
2-Chloronaphthalene	6/4/24 14:32	5.0	1.9	"	10.0		49.6	65-120	30.3	200	L2
4-Chlorophenyl phenyl ether	6/4/24 10:24	6.2	4.2	"	10.0		61.8	38-145	6.86	200	
Chrysene	6/4/24 10:24	6.5	2.5	"	10.0		65.0	44-140	12.2	200	
Dibenz (a,h) anthracene	6/4/24 10:24	5.2	2.5	"	10.0		51.5	10-200	23.9	200	
1,2-Dichlorobenzene	6/4/24 14:32	4.9	1.9	"	10.0		49.2	60-140	2.68	200	L2
1,3-Dichlorobenzene	6/4/24 14:32	4.9	1.9	"	10.0		48.8	60-140	4.61	200	L2
1,4-Dichlorobenzene	6/4/24 14:32	4.8	4.4	"	10.0		47.9	60-140	3.83	200	L2
Diethyl phthalate	6/4/24 10:24	6.1	1.9	"	10.0		61.3	10-120	97.6	200	
Dimethyl phthalate	6/4/24 10:24	6.3	1.6	"	10.0		62.8	10-120	98.0	200	
Di-n-butyl phthalate	6/4/24 10:24	6.1	2.5	"	10.0		61.2	8-120	99.6	200	
2,4-Dinitrotoluene	6/4/24 10:24	6.9	5.7	"	10.0		69.2	48-127	3.83	200	
2,6-Dinitrotoluene	6/4/24 10:24	7.1	1.9	"	10.0		71.0	68-137	4.17	200	
Di-n-octyl phthalate	6/4/24 10:24	7.6	2.5	"	10.0		76.1	19-132	91.6	200	
1,2-Diphenylhydrazine as Azobenzene	6/4/24 10:24	6.7	10.0	"	10.0		67.0	60-140	4.11	200	
Fluoranthene	6/4/24 10:24	6.1	2.2	"	10.0		60.7	43-121	6.81	200	
Fluorene	6/4/24 14:32	7.4	1.9	"	10.0		73.6	70-120	5.29	200	
Hexachlorobenzene	6/4/24 10:24	6.0	1.9	"	10.0		59.6	8-142	98.4	200	
Hexachlorobutadiene	6/4/24 10:24	4.5	0.9	"	10.0		45.4	38-120	3.36	200	
Hexachlorocyclopentadiene	6/4/24 10:24	2.6	2.3	"	10.0		25.6	60-140	36.7	200	CC-04, L2
Hexachloroethane	6/4/24 14:32	6.0	1.4	"	10.0		59.7	55-120	29.0	200	

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Project: Permit Renewal
Project Number: Permit Renewal
Project Manager: Brock Jones

Reported:
06/07/2024 14:25

Acid and Base/Neutral Extractables by EPA Method 625.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4F03024 - EPA 3510C DCN 4000 Rev 12											
LCS Dup (4F03024-BSD1)											
Indeno (1,2,3-cd) pyrene	6/4/24 10:24	5.4	3.7	ug/L	10.0		54.4	10-151	104	200	
Isophorone	6/4/24 10:24	5.8	2.2	"	10.0		58.1	47-180	2.38	200	
Naphthalene	6/4/24 10:24	5.0	1.6	"	10.0		49.5	36-120	1.83	200	
Nitrobenzene	6/4/24 14:32	5.8	1.9	"	10.0		57.8	54-158	4.07	200	
N-Nitrosodimethylamine	6/4/24 14:32	3.0	1.5	"	10.0		30.1	60-140	4.76	200	L2
N-Nitrosodi-n-propylamine	6/4/24 10:24	5.8	1.9	"	10.0		58.2	14-198	105	200	
N-Nitrosodiphenylamine	6/4/24 10:24	8.8	1.9	"	10.0		88.1	60-140	19.6	200	
Phenanthrene	6/4/24 14:32	5.6	5.4	"	10.0		55.8	65-120	0.358	200	L2
Pyrene	6/4/24 10:24	7.2	1.9	"	10.0		72.3	70-120	2.52	200	
1,2,4-Trichlorobenzene	6/4/24 14:32	5.7	1.9	"	10.0		57.1	57-130	17.1	200	
Surrogate: 2,4,6-Tribromophenol		*6.44*		"	*10.0*		*64.4*	*21.1-140*			
Surrogate: 2-Fluorobiphenyl		*2.94*		"	*5.00*		*58.8*	*10.8-140*			
Surrogate: 2-Fluorophenol		*2.57*		"	*10.0*		*25.7*	*10-140*			
Surrogate: Nitrobenzene-d5		*3.13*		"	*5.00*		*62.6*	*46-219*			
Surrogate: Phenol-d5		*3.29*		"	*10.0*		*32.9*	*48-208*			*SR05*
Surrogate: Terphenyl-dl4		*3.23*		"	*5.00*		*64.6*	*10-140*			
Duplicate (4F03024-DUP1)				**Source: 2405541-01**							
2-Chlorophenol	6/4/24 12:10	ND	3.4	ug/L		ND				45	
2,4-Dichlorophenol	6/4/24 12:10	ND	2.8	"		ND				45	
2,4-Dimethylphenol	6/4/24 12:10	ND	2.8	"		ND				45	
4,6-Dinitro-o-cresol	6/4/24 12:10	ND	3.3	"		ND				45	
2,4-Dinitrophenol	6/4/24 12:10	ND	5.1	"		ND				45	
2-Nitrophenol	6/4/24 12:10	ND	3.7	"		ND				45	
4-Nitrophenol	6/4/24 12:10	ND	2.4	"		ND				45	
p-Chloro-m-cresol	6/4/24 12:10	ND	3.1	"		ND				45	
Pentachlorophenol	6/4/24 12:10	ND	3.7	"		ND				45	
Phenol	6/4/24 12:10	ND	1.5	"		ND				45	
2,4,6-Trichlorophenol	6/4/24 12:10	ND	2.8	"		ND				45	
Acenaphthene	6/4/24 12:10	9.5	1.9	"		17.0			56.3	45	P3
Acenaphthylene	6/4/24 12:10	ND	3.6	"		ND				45	
Anthracene	6/4/24 12:10	ND	1.9	"		ND				45	
Benzidine	6/4/24 12:10	ND	15.3	"		ND				45	
Benzo (a) anthracene	6/4/24 12:10	ND	8.0	"		ND				45	
Benzo (a) pyrene	6/5/24 20:13	ND	2.6	"		ND				45	
3,4-Benzo-fluoranthene	6/5/24 20:13	ND	4.9	"		ND				45	
Benzo (g,h,i) perylene	6/5/24 20:13	ND	4.2	"		ND				45	
Benzo (k) fluoranthene	6/5/24 20:13	ND	2.6	"		ND				45	
Bis(2-chloroethoxy)methane	6/4/24 12:10	ND	5.4	"		ND				45	
Bis(2-chloroethyl)ether	6/4/24 12:10	ND	5.8	"		ND				45	
Bis(2-chloroisopropyl)ether	6/4/24 12:10	ND	5.8	"		ND				45	
Bis(2-ethylhexyl)phthalate	6/4/24 12:10	ND	2.6	"		ND				45	
4-Bromophenyl phenyl ether	6/4/24 12:10	ND	1.9	"		ND				45	
Butyl benzyl phthalate	6/4/24 12:10	ND	2.6	"		ND				45	

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Project Manager: Brock Jones

Reported:
06/07/2024 14:25

Acid and Base/Neutral Extractables by EPA Method 625.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4F03024 - EPA 3510C DCN 4000 Rev 12											
Duplicate (4F03024-DUP1)			**Source: 2405541-01**								
2-Chloronaphthalene	6/4/24 12:10	ND	1.9	ug/L		ND				45	
4-Chlorophenyl phenyl ether	6/4/24 12:10	ND	4.3	"		ND				45	
Chrysene	6/4/24 12:10	ND	2.6	"		ND				45	
Dibenz (a,h) anthracene	6/5/24 20:13	ND	2.6	"		ND				45	
1,2-Dichlorobenzene	6/4/24 12:10	ND	1.9	"		ND				45	
1,3-Dichlorobenzene	6/4/24 12:10	ND	1.9	"		ND				45	
1,4-Dichlorobenzene	6/4/24 12:10	ND	4.5	"		ND				45	
3,3'-Dichlorobenzidine	6/4/24 12:10	ND	5.1	"		ND				45	
Diethyl phthalate	6/4/24 12:10	ND	1.9	"		ND				45	
Dimethyl phthalate	6/4/24 12:10	ND	1.6	"		ND				45	
Di-n-butyl phthalate	6/4/24 12:10	ND	2.6	"		ND				45	
2,4-Dinitrotoluene	6/4/24 12:10	ND	5.8	"		ND				45	
2,6-Dinitrotoluene	6/4/24 12:10	ND	1.9	"		ND				45	
Di-n-octyl phthalate	6/5/24 20:13	ND	2.6	"		ND				45	CC-01
1,2-Diphenylhydrazine as Azobenzene	6/4/24 12:10	ND	10.2	"		ND				45	
Fluoranthene	6/4/24 12:10	ND	2.2	"		ND				45	
Fluorene	6/4/24 12:10	6.8	1.9	"		11.9			54.6	45	P3
Hexachlorobenzene	6/4/24 12:10	ND	1.9	"		ND				45	
Hexachlorobutadiene	6/4/24 12:10	ND	0.9	"		ND				45	
Hexachlorocyclopentadiene	6/4/24 12:10	ND	2.4	"		ND				45	CC-01
Hexachloroethane	6/4/24 12:10	ND	1.4	"		ND				45	
Indeno (1,2,3-cd) pyrene	6/5/24 20:13	ND	3.8	"		ND				45	
Isophorone	6/4/24 12:10	ND	2.2	"		ND				45	
Naphthalene	6/4/24 12:10	12.3	1.6	"		22.5			58.8	45	P3
Nitrobenzene	6/4/24 12:10	ND	1.9	"		ND				45	
N-Nitrosodimethylamine	6/4/24 12:10	ND	1.5	"		ND				45	
N-Nitrosodi-n-propylamine	6/4/24 12:10	ND	2.0	"		ND				45	
N-Nitrosodiphenylamine	6/4/24 12:10	ND	1.9	"		ND				45	
Phenanthrene	6/4/24 12:10	4.8	5.5	"		8.5			54.7	45	P3
Pyrene	6/4/24 12:10	ND	1.9	"		ND				45	
1,2,4-Trichlorobenzene	6/4/24 12:10	ND	1.9	"		ND				45	
Surrogate: 2,4,6-Tribromophenol		*3.58*		*"*	*10.2*		*35.1*	*19.6-127*			
Surrogate: 2-Fluorobiphenyl		*1.59*		*"*	*5.10*		*31.2*	*13.3-104*			
Surrogate: 2-Fluorophenol		*1.66*		*"*	*10.2*		*16.3*	*11.4-100*			
Surrogate: Nitrobenzene-d5		*1.38*		*"*	*5.10*		*27.0*	*10-100*			
Surrogate: Phenol-d5		*1.35*		*"*	*10.2*		*13.2*	*10-100*			
Surrogate: Terphenyl-dl4		*1.66*		*"*	*5.10*		*32.6*	*10-116*			

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Project Manager: Brock Jones

Reported:
06/07/2024 14:25

Acid and Base/Neutral Extractables by EPA Method 625.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4F03024 - EPA 3510C DCN 4000 Rev 12											
Matrix Spike (4F03024-MS1)			**Source: 2405541-01**								
2-Chlorophenol	6/4/24 12:46	4.1	3.4	ug/L	10.2	ND	40.8	23-134			
2,4-Dichlorophenol	6/4/24 12:46	5.0	2.8	"	10.2	ND	49.2	39-135			
2,4-Dimethylphenol	6/4/24 12:46	6.3	2.8	"	10.2	ND	61.6	32-120			
4,6-Dinitro-o-cresol	6/4/24 12:46	5.9	3.3	"	10.2	ND	57.6	0.992-181			
2,4-Dinitrophenol	6/4/24 12:46	2.0	5.1	"	10.2	ND	19.7	1.58-191			
2-Nitrophenol	6/4/24 12:46	5.8	3.7	"	10.2	ND	56.6	29-182			
4-Nitrophenol	6/4/24 12:46	2.0	2.4	"	10.2	ND	20.0	0.642-132			
p-Chloro-m-cresol	6/4/24 12:46	5.5	3.1	"	10.2	ND	53.9	22-147			
Pentachlorophenol	6/4/24 12:46	3.3	3.7	"	10.2	ND	32.0	14-176			
Phenol	6/4/24 12:46	1.7	1.5	"	10.2	ND	16.7	5-120			
2,4,6-Trichlorophenol	6/4/24 12:46	5.2	2.8	"	10.2	ND	51.1	37-144			
Acenaphthene	6/4/24 12:46	21.1	1.9	"	10.2	17.0	39.9	47-145			M5
Acenaphthylene	6/4/24 12:46	5.7	3.6	"	10.2	ND	56.0	33-145			
Anthracene	6/4/24 12:46	5.9	1.9	"	10.2	ND	58.0	27-133			
Benzo (a) anthracene	6/4/24 12:46	5.3	8.0	"	10.2	ND	51.5	33-143			
Benzo (a) pyrene	6/4/24 12:46	5.1	2.6	"	10.2	ND	50.1	17-163			
3,4-Benzo-fluoranthene	6/4/24 12:46	5.1	4.9	"	10.2	ND	50.0	24-159			
Benzo (g,h,i) perylene	6/4/24 12:46	4.9	4.2	"	10.2	ND	48.0	0.518-219			
Benzo (k) fluoranthene	6/4/24 12:46	6.0	2.6	"	10.2	ND	58.5	11-162			
Bis(2-chloroethoxy)methane	6/4/24 12:46	5.2	5.4	"	10.2	ND	51.0	33-184			
Bis(2-chloroethyl)ether	6/4/24 12:46	5.9	5.8	"	10.2	ND	57.8	12-158			
Bis(2-chloroisopropyl)ether	6/4/24 12:46	4.1	5.8	"	10.2	ND	39.7	36-166			
Bis(2-ethylhexyl)phthalate	6/4/24 12:46	6.5	2.6	"	10.2	ND	64.1	8-158			
4-Bromophenyl phenyl ether	6/4/24 12:46	5.4	1.9	"	10.2	ND	53.2	53-127			
Butyl benzyl phthalate	6/4/24 12:46	6.5	2.6	"	10.2	ND	63.4	0.835-152			
2-Chloronaphthalene	6/4/24 12:46	6.2	1.9	"	10.2	ND	60.3	60-120			
4-Chlorophenyl phenyl ether	6/4/24 12:46	5.3	4.3	"	10.2	ND	52.1	25-158			
Chrysene	6/4/24 12:46	5.3	2.6	"	10.2	ND	51.9	17-168			
Dibenz (a,h) anthracene	6/4/24 12:46	4.5	2.6	"	10.2	ND	43.8	0.515-227			
1,2-Dichlorobenzene	6/4/24 12:46	4.1	1.9	"	10.2	ND	40.0	32-129			
1,3-Dichlorobenzene	6/4/24 12:46	4.0	1.9	"	10.2	ND	39.0	5-172			
1,4-Dichlorobenzene	6/4/24 12:46	4.0	4.5	"	10.2	ND	39.2	20-124			
Diethyl phthalate	6/4/24 12:46	5.5	1.9	"	10.2	ND	54.1	0.603-120			
Dimethyl phthalate	6/4/24 12:46	5.5	1.6	"	10.2	ND	54.2	0.615-120			
Di-n-butyl phthalate	6/4/24 12:46	5.4	2.6	"	10.2	ND	52.8	1-120			
2,4-Dinitrotoluene	6/4/24 12:46	6.5	5.8	"	10.2	ND	64.1	39-139			
2,6-Dinitrotoluene	6/4/24 12:46	6.2	1.9	"	10.2	ND	60.5	50-158			
Di-n-octyl phthalate	6/4/24 12:46	6.9	2.6	"	10.2	ND	67.5	4-146			
1,2-Diphenylhydrazine as Azobenzene	6/4/24 12:46	7.2	10.2	"	10.2	ND	71.0	60-140			
Fluoranthene	6/4/24 12:46	7.1	2.2	"	10.2	ND	69.9	26-137			
Fluorene	6/4/24 12:46	16.1	1.9	"	10.2	11.9	40.8	59-121			M5
Hexachlorobenzene	6/4/24 12:46	4.9	1.9	"	10.2	ND	48.5	0.362-152			
Hexachlorobutadiene	6/4/24 12:46	3.7	0.9	"	10.2	ND	35.9	24-120			
Hexachlorocyclopentadiene	6/4/24 12:46	2.3	2.4	"	10.2	ND	22.6	1.2-98.1			CC-03
Hexachloroethane	6/4/24 12:46	4.1	1.4	"	10.2	ND	40.5	40-120			

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Reported:
06/07/2024 14:25

Acid and Base/Neutral Extractables by EPA Method 625.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4F03024 - EPA 3510C DCN 4000 Rev 12											
Matrix Spike (4F03024-MS1)			**Source: 2405541-01**								
Indeno (1,2,3-cd) pyrene	6/4/24 12:46	4.6	3.8	ug/L	10.2	ND	45.4	0.547-171			
Isophorone	6/4/24 12:46	5.4	2.2	"	10.2	ND	53.4	21-196			
Naphthalene	6/4/24 12:46	26.0	1.6	"	10.2	22.5	34.5	21-133			
Nitrobenzene	6/4/24 12:46	4.7	1.9	"	10.2	ND	45.7	35-180			
N-Nitrosodimethylamine	6/4/24 12:46	2.5	1.5	"	10.2	ND	24.5	1-126			
N-Nitrosodi-n-propylamine	6/4/24 12:46	5.1	2.0	"	10.2	ND	50.3	0.8-230			
N-Nitrosodiphenylamine	6/4/24 12:46	7.3	1.9	"	10.2	ND	71.4	16.8-118			
Phenanthrene	6/4/24 12:46	12.8	5.5	"	10.2	8.5	42.4	54-120			M5
Pyrene	6/4/24 12:46	7.4	1.9	"	10.2	ND	72.1	52-120			
1,2,4-Trichlorobenzene	6/4/24 12:46	4.7	1.9	"	10.2	ND	45.7	44-142			
Surrogate: 2,4,6-Tribromophenol		*6.07*		"	*10.2*		*59.5*	*19.6-127*			
Surrogate: 2-Fluorobiphenyl		*2.53*		"	*5.10*		*49.6*	*13.3-104*			
Surrogate: 2-Fluorophenol		*2.64*		"	*10.2*		*25.9*	*11.4-100*			
Surrogate: Nitrobenzene-d5		*2.57*		"	*5.10*		*50.4*	*10-100*			
Surrogate: Phenol-d5		*1.89*		"	*10.2*		*18.5*	*10-100*			
Surrogate: Terphenyl-dl4		*2.76*		"	*5.10*		*54.0*	*10-116*			

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Reported:
06/07/2024 14:25

Purgeables by EPA Method 624.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4F04039 - EPA 624.1											
Blank (4F04039-BLK1)											
Acrolein	6/5/24 13:05	ND	10.0	ug/L							
Acrylonitrile	6/3/24 13:16	ND	5.00	"							
Benzene	6/3/24 13:16	ND	3.50	"							
Bromoform	6/3/24 13:16	ND	4.70	"							
Carbon Tetrachloride	6/3/24 13:16	ND	2.80	"							
Chlorobenzene	6/3/24 13:16	ND	3.21	"							
Chlorodibromomethane	6/3/24 13:16	ND	3.10	"							
Chloroethane	6/3/24 13:16	ND	3.88	"							
2-Chloroethylvinyl ether	6/3/24 13:16	ND	10.0	"							
Chloroform	6/3/24 13:16	ND	1.60	"							
Dichlorobromomethane	6/3/24 13:16	ND	2.20	"							
1,1-Dichloroethane	6/3/24 13:16	ND	3.42	"							
1,2-Dichloroethane	6/3/24 13:16	ND	2.80	"							
1,1-Dichloroethylene	6/3/24 13:16	ND	2.80	"							
1,2-Dichloropropane	6/3/24 13:16	ND	2.92	"							
cis-1,3-Dichloropropylene	6/3/24 13:16	ND	3.87	"							
trans-1,3-Dichloropropylene	6/3/24 13:16	ND	2.78	"							
Ethylbenzene	6/3/24 13:16	ND	4.10	"							
Methyl Bromide	6/3/24 13:16	ND	4.35	"							
Methyl Chloride	6/3/24 13:16	ND	4.61	"							
Methylene chloride	6/3/24 13:16	ND	2.77	"							
1,1,2,2-Tetrachloroethane	6/3/24 13:16	ND	4.13	"							
Tetrachloroethylene	6/3/24 13:16	ND	4.10	"							
Toluene	6/3/24 13:16	ND	4.46	"							
trans-1,2-Dichloroethylene	6/3/24 13:16	ND	1.60	"							
1,1,1-Trichloroethane	6/3/24 13:16	ND	2.93	"							
1,1,2-Trichloroethane	6/3/24 13:16	ND	3.66	"							
Trichloroethylene	6/3/24 13:16	ND	1.90	"							
Vinyl chloride	6/3/24 13:16	ND	3.74	"							
Surrogate: Dibromofluoromethane		*52.1*		"	*50.0*		*104*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4		*50.2*		"	*50.0*		*100*	*70-130*			
Surrogate: Toluene-d8		*48.3*		"	*50.0*		*96.6*	*70-130*			
Surrogate: 4-Bromofluorobenzene		*50.7*		"	*50.0*		*101*	*70-130*			

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

City of Chickasaw
224 Grant Street
Mobile AL, 36611

Project: Permit Renewal
Project Number: Permit Renewal
Project Manager: Brock Jones

Reported:
06/07/2024 14:25

Purgeables by EPA Method 624.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4F04039 - EPA 624.1											
LCS (4F04039-BS1)											
Acrolein	6/5/24 11:12	30.7	10.0	ug/L	25.0		123	60-140			
Acrylonitrile	6/3/24 12:15	26.4	5.00	"	25.0		106	60-140			
Benzene	6/3/24 12:15	25.3	3.50	"	25.0		101	65-135			
Bromoform	6/3/24 12:15	25.3	4.70	"	25.0		101	70-130			
Carbon Tetrachloride	6/3/24 12:15	24.3	2.80	"	25.0		97.2	70-130			
Chlorobenzene	6/3/24 12:15	23.5	3.21	"	25.0		94.0	65-135			
Chlorodibromomethane	6/3/24 12:15	27.9	3.10	"	25.0		112	70-135			
Chloroethane	6/3/24 12:15	20.8	3.88	"	25.0		83.2	40-160			
2-Chloroethylvinyl ether	6/3/24 12:15	35.1	10.0	"	25.0		140	5-225			
Chloroform	6/3/24 12:15	26.0	1.60	"	25.0		104	70-135			
Dichlorobromomethane	6/3/24 12:15	28.3	2.20	"	25.0		113	65-135			
1,1-Dichloroethane	6/3/24 12:15	25.6	3.42	"	25.0		103	70-130			
1,2-Dichloroethane	6/3/24 12:15	27.3	2.80	"	25.0		109	70-130			
1,1-Dichloroethylene	6/3/24 12:15	24.6	2.80	"	25.0		98.5	50-150			
1,2-Dichloropropane	6/3/24 12:15	26.7	2.92	"	25.0		107	35-165			
cis-1,3-Dichloropropylene	6/3/24 12:15	27.4	3.87	"	25.0		110	25-175			
trans-1,3-Dichloropropylene	6/3/24 12:15	27.9	2.78	"	25.0		112	50-150			
Ethylbenzene	6/3/24 12:15	23.8	4.10	"	25.0		95.3	60-140			
Methyl Bromide	6/3/24 12:15	29.4	4.35	"	25.0		118	15-185			
Methyl Chloride	6/3/24 12:15	27.3	4.61	"	25.0		109	5-205			
Methylene chloride	6/3/24 12:15	24.9	2.77	"	25.0		99.6	60-140			
1,1,2,2-Tetrachloroethane	6/3/24 12:15	26.6	4.13	"	25.0		106	60-140			
Tetrachloroethylene	6/3/24 12:15	24.6	4.10	"	25.0		98.4	70-130			
Toluene	6/3/24 12:15	23.5	4.46	"	25.0		94.1	70-130			
trans-1,2-Dichloroethylene	6/3/24 12:15	25.4	1.60	"	25.0		101	70-130			
1,1,1-Trichloroethane	6/3/24 12:15	26.1	2.93	"	25.0		104	70-130			
1,1,2-Trichloroethane	6/3/24 12:15	29.3	3.66	"	25.0		117	70-130			
Trichloroethylene	6/3/24 12:15	25.8	1.90	"	25.0		103	65-135			
Vinyl chloride	6/3/24 12:15	26.7	3.74	"	25.0		107	5-195			
Surrogate: Dibromofluoromethane		*53.0*		"	*50.0*		*106*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4		*52.0*		"	*50.0*		*104*	*70-130*			
Surrogate: Toluene-d8		*47.3*		"	*50.0*		*94.7*	*70-130*			
Surrogate: 4-Bromofluorobenzene		*50.5*		"	*50.0*		*101*	*70-130*			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

City of Chickasaw
224 Grant Street
Mobile AL, 36611

Project: Permit Renewal
Project Number: Permit Renewal
Project Manager: Brock Jones

Reported:
06/07/2024 14:25

Purgeables by EPA Method 624.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4F04039 - EPA 624.1											
Matrix Spike (4F04039-MS1)			**Source: 2405453-01**								
Acrolein	6/5/24 13:54	25.9	10.0	ug/L	25.0	ND	103	40-160			
Acrylonitrile	6/3/24 15:05	36.9	5.00	"	25.0	ND	147	40-160			
Benzene	6/3/24 15:05	35.2	3.50	"	25.0	ND	141	37-151			
Bromoform	6/3/24 15:05	38.1	4.70	"	25.0	ND	152	45-169			
Carbon Tetrachloride	6/3/24 15:05	33.1	2.80	"	25.0	ND	132	70-140			
Chlorobenzene	6/3/24 15:05	32.7	3.21	"	25.0	ND	131	37-160			
Chlorodibromomethane	6/3/24 15:05	42.1	3.10	"	25.0	ND	168	53-149			M1
Chloroethane	6/3/24 15:05	27.1	3.88	"	25.0	ND	108	14-230			
2-Chloroethylvinyl ether	6/3/24 15:05	31.6	10.0	"	25.0	ND	126	5-305			
Chloroform	6/3/24 15:05	38.7	1.60	"	25.0	2.42	145	51-138			M1
Dichlorobromomethane	6/3/24 15:05	41.8	2.20	"	25.0	ND	167	35-155			M1
1,1-Dichloroethane	6/3/24 15:05	35.5	3.42	"	25.0	ND	142	59-155			
1,2-Dichloroethane	6/3/24 15:05	40.7	2.80	"	25.0	ND	163	49-155			M1
1,1-Dichloroethylene	6/3/24 15:05	33.1	2.80	"	25.0	ND	132	5-234			
1,2-Dichloropropane	6/3/24 15:05	38.4	2.92	"	25.0	ND	153	5-210			
cis-1,3-Dichloropropylene	6/3/24 15:05	40.5	3.87	"	25.0	ND	162	5-227			
trans-1,3-Dichloropropylene	6/3/24 15:05	42.2	2.78	"	25.0	ND	169	17-183			
Ethylbenzene	6/3/24 15:05	32.8	4.10	"	25.0	ND	131	37-162			
Methyl Bromide	6/3/24 15:05	37.1	4.35	"	25.0	ND	149	5-242			
Methyl Chloride	6/3/24 15:05	40.7	4.61	"	25.0	ND	163	5-273			
Methylene chloride	6/3/24 15:05	34.0	2.77	"	25.0	ND	136	5-221			
1,1,2,2-Tetrachloroethane	6/3/24 15:05	40.9	4.13	"	25.0	ND	164	46-157			M1
Tetrachloroethylene	6/3/24 15:05	34.0	4.10	"	25.0	ND	136	64-148			
Toluene	6/3/24 15:05	33.1	4.46	"	25.0	ND	132	47-150			
trans-1,2-Dichloroethylene	6/3/24 15:05	34.8	1.60	"	25.0	ND	139	54-156			
1,1,1-Trichloroethane	6/3/24 15:05	35.5	2.93	"	25.0	ND	142	52-162			
1,1,2-Trichloroethane	6/3/24 15:05	44.3	3.66	"	25.0	ND	177	52-150			M1
Trichloroethylene	6/3/24 15:05	35.5	1.90	"	25.0	ND	142	70-157			
Vinyl chloride	6/3/24 15:05	36.4	3.74	"	25.0	ND	146	5-251			
Surrogate: Dibromofluoromethane		*53.8*		"	*50.0*		*108*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4		*52.7*		"	*50.0*		*105*	*70-130*			
Surrogate: Toluene-d8		*46.6*		"	*50.0*		*93.1*	*70-130*			
Surrogate: 4-Bromofluorobenzene		*52.5*		"	*50.0*		*105*	*70-130*			

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City of Chickasaw
224 Grant Street
Mobile AL, 36611

Project: Permit Renewal
Project Number: Permit Renewal
Project Manager: Brock Jones

Reported:
06/07/2024 14:25

Purgeables by EPA Method 624.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4F04039 - EPA 624.1											
Matrix Spike Dup (4F04039-MSD1)			**Source: 2405453-01**								
Acrolein	6/5/24 14:19	28.7	10.0	ug/L	25.0	ND	115	40-160	10.4	60	
Acrylonitrile	6/3/24 15:33	25.9	5.00	"	25.0	ND	104	40-160	34.9	60	
Benzene	6/3/24 15:33	24.0	3.50	"	25.0	ND	95.9	37-151	38.0	61	
Bromoform	6/3/24 15:33	25.4	4.70	"	25.0	ND	102	45-169	40.0	42	
Carbon Tetrachloride	6/3/24 15:33	23.0	2.80	"	25.0	ND	92.2	70-140	35.9	41	
Chlorobenzene	6/3/24 15:33	22.4	3.21	"	25.0	ND	89.4	37-160	37.5	53	
Chlorodibromomethane	6/3/24 15:33	27.9	3.10	"	25.0	ND	111	53-149	40.6	50	
Chloroethane	6/3/24 15:33	19.5	3.88	"	25.0	ND	77.9	14-230	32.6	78	
2-Chloroethylvinyl ether	6/3/24 15:33	39.7	10.0	"	25.0	ND	159	5-305	22.6	71	
Chloroform	6/3/24 15:33	27.3	1.60	"	25.0	2.42	99.6	51-138	34.4	54	
Dichlorobromomethane	6/3/24 15:33	27.9	2.20	"	25.0	ND	112	35-155	39.9	56	
1,1-Dichloroethane	6/3/24 15:33	24.1	3.42	"	25.0	ND	96.6	59-155	38.1	40	
1,2-Dichloroethane	6/3/24 15:33	27.2	2.80	"	25.0	ND	109	49-155	39.8	49	
1,1-Dichloroethylene	6/3/24 15:33	22.5	2.80	"	25.0	ND	89.9	5-234	38.1	32	M3
1,2-Dichloropropane	6/3/24 15:33	26.3	2.92	"	25.0	ND	105	5-210	37.4	55	
cis-1,3-Dichloropropylene	6/3/24 15:33	27.1	3.87	"	25.0	ND	108	5-227	39.6	58	
trans-1,3-Dichloropropylene	6/3/24 15:33	27.6	2.78	"	25.0	ND	110	17-183	41.8	86	
Ethylbenzene	6/3/24 15:33	22.2	4.10	"	25.0	ND	88.6	37-162	38.7	63	
Methyl Bromide	6/3/24 15:33	26.2	4.35	"	25.0	ND	105	5-242	34.4	61	
Methyl Chloride	6/3/24 15:33	27.2	4.61	"	25.0	ND	109	5-273	39.9	60	
Methylene chloride	6/3/24 15:33	23.9	2.77	"	25.0	ND	95.5	5-221	35.1	28	M3
1,1,2,2-Tetrachloroethane	6/3/24 15:33	27.3	4.13	"	25.0	ND	109	46-157	39.8	61	
Tetrachloroethylene	6/3/24 15:33	22.9	4.10	"	25.0	ND	91.7	64-148	38.9	39	
Toluene	6/3/24 15:33	22.3	4.46	"	25.0	ND	89.4	47-150	38.8	41	
trans-1,2-Dichloroethylene	6/3/24 15:33	23.5	1.60	"	25.0	ND	94.1	54-156	38.5	45	
1,1,1-Trichloroethane	6/3/24 15:33	23.9	2.93	"	25.0	ND	95.5	52-162	39.2	36	M3
1,1,2-Trichloroethane	6/3/24 15:33	29.3	3.66	"	25.0	ND	117	52-150	40.9	45	
Trichloroethylene	6/3/24 15:33	23.9	1.90	"	25.0	ND	95.5	70-157	39.1	48	
Vinyl chloride	6/3/24 15:33	24.7	3.74	"	25.0	ND	98.9	5-251	38.3	66	
Surrogate: Dibromofluoromethane		*54.2*		"	*50.0*		*108*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4		*53.4*		"	*50.0*		*107*	*70-130*			
Surrogate: Toluene-d8		*47.1*		"	*50.0*		*94.2*	*70-130*			
Surrogate: 4-Bromofluorobenzene		*51.5*		"	*50.0*		*103*	*70-130*			

MICRO-METHODS LABORATORY, INC.

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City of Chickasaw 224 Grant Street Mobile AL, 36611	Project: Permit Renewal Project Number: Permit Renewal Project Manager: Brock Jones	Reported: 06/07/2024 14:25

Certified Analyses Included in this Report

Analyte	Certification Code
EPA 420.1 1978 in Water	
Phenolics, Total	C01,C02
EPA 1664A in Water	
Oil & Grease (HEM)	C01,C02
EPA 200.8 Rev 5.4 in Water	
Aluminum [He]	C01,C02
Antimony [He]	C01,C02
Antimony [NG]	C01,C02
Arsenic [He]	C01,C02
Arsenic [NG]	C01,C02
Barium [He]	C01,C02
Beryllium [He]	C01,C02
Cadmium [He]	C01,C02
Cadmium [NG]	C01,C02
Chromium [He]	C01,C02
Cobalt [He]	C01,C02
Copper [He]	C01,C02
Copper [NG]	C01,C02
Iron [He]	C01,C02
Lead [He]	C01,C02
Lead [NG]	C01,C02
Manganese [He]	C01,C02
Molybdenum [He]	C01,C02
Nickel [He]	C01,C02
Selenium [He]	C01,C02
Selenium [NG]	C01,C02
Silver [He]	C01,C02
Silver [NG]	C01,C02
Strontium [He]	C01,C02
Thallium [He]	C01,C02
Vanadium [He]	C01,C02
Zinc [He]	C01,C02
SM 2340C-2011 in Water	
Hardness	C01,C02
Hardness (EDTA) as CaCO3	C01,C02
SM 2540 C-2015 in Water	
Total Dissolved Solids	C01,C02
SM 4500-CN E 2016 in Water	
Cyanide (total)	C01,C02

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City of Chickasaw 224 Grant Street Mobile AL, 36611	Project: Permit Renewal Project Number: Permit Renewal Project Manager: Brock Jones	**Reported:** 06/07/2024 14:25

****Only compounds included in this list are associated with accredited analyses****

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City of Chickasaw 224 Grant Street Mobile AL, 36611	Project: Permit Renewal Project Number: Permit Renewal Project Manager: Brock Jones	**Reported:** 06/07/2024 14:25

Laboratory Accreditations/Certifications

Code	Description	Number	Expires
C01	LA Environmental Lab Accreditation Program	01960	06/30/2024
C02	The NELAC Institute (NELAP)	TNI01397	06/30/2024
C03	MS Dept of Health (Drinking Water Microbiology)	MS00021	12/31/2024
C04	MS Dept of Health (Drinking Water Chemistry)	MS00021	12/31/2024
C05	MS DEQ Lead Firm Certification	PBF-00000028	03/31/2024
C06	MSDEQ Asbestos Inspector : C.D. Bingham	ABI-00001348	02/09/2024
C07	MSDEQ Air Monitor : C.D. Bingham	AM-011572	02/10/2024
C08	MSDEQ Asbestos Inspector: C. W. Meins	ABI-00001821	09/09/2022
C09	MSDEQ Air Monitor : C.W. Meins	AM-011189	02/10/2024
C10	ADEM (Drinking Water Microbiology)	43500	12/31/2024
C11	ADEM (Drinking Water Chemistry)	43500	12/31/2024
C14	MSDEQ Lead Paint Inspector : C.D. Bingham	PBI-00003690	02/07/2024
C15	MSDEQ Lead Paint Inspector : C.W. Meins	PBI-00001740	02/07/2024

Report Definitions

TNC	Too Numerous To Count
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the minimum reporting limit
NR	Not Reported
RPD	Relative Percent Difference
ICV	Initial Calibration Verfiication
CCV	Continuing Calibration Verification Standard
SSV	Secondary Source Verfication Standard
LCS	Lab Control Spike - Lab matrix prepared with known concentration of analyte/s of interest analyzed by method.
MS	Matrix Spike - Sample prepared with known concentration of analyte/s of interest analyzed by method.
MSD	Matrix Spike Duplicate - Duplicate sample prepared with known concentration of analyte/s of interest analyzed by method.
MRL	Minimum Reporting Limit
%REC	Percentage Recovery of known concentration added to matrix
Batch	Group of samples prepared for analysis not to exceed 20 samples.
Matrix	Material containing analyte/s of interest
Surrogate	Analyte added to sample to determine extraction efficiency of method.

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City of Chickasaw	Project: Permit Renewal	
224 Grant Street	Project Number: Permit Renewal	**Reported:**
Mobile AL, 36611	Project Manager: Brock Jones	06/07/2024 14:25

Analyst Initials Key

FullName	Initials
Brett S Fore	BSF
Clifford W. Meins	CWM
Christa R Gray	CRG
Christina L Vorhoff	CRLV
Dortha L. Wells	DLW
Paul R Payne	PRP
Robert W McBeth	RWM
Sarah E. Tomek	SET
Samantha C. Hall	SCH
Teresa Meins	TKM
Tina Tomek	TPT

MICRO-METHODS LABORATORY, INC.
PO Box 1410, Ocean Springs, MS 39566-1410
(228) 875-6420 FAX (228) 875-6423
www.micromethodslab.com

Chain of Custody Record

Lab ID# MS00021
LELAP ID # 01960
TNI ID # TNI01397

Print Form

M-M Lab WO # 2405556

Company Name: City of Chickasaw	Project Manager: Chuck Starling
Address: 224 N. Craft Hwy	Purchase Order #:
City: Chickasaw State: AL Zip: 36611	Email Address: chuck.starling@kimley-horn.com
Phone: 251-751-2527	Sampler Name Printed: Clifford Meins
Fax:	Sampler Name Signed: Clifford Meins

Turn Around Time & Reporting
Our normal turn around time is 10 working days
__Normal __Next Day* __2nd Day* __Other*_____
*All rush order requests must be prior approved.
__Phone __Mail __Fax __Email
QC Level: Level 1 ☐ Level 2 ☐ Level 3 ☐

Project Name: Permit Renewal
Project #:

List Analyses Requested

Sample Identification	Sampling Date/Time	Matrix Code	# of Containers	Grab (G) or Composite (C)	Oil & Grease (Preservative: 1)	625 SVOC's	624 VOC's (8)	Cyanide (3)	Phenol (1)	Total Hardness	TDS	Metals* (6)
Effluent	5-29-2024 9:55	W	12	G	X	X	X					
Effluent	5-29-2024 9:50	W	4	C				X	X	X	X	X
Trip Blank TBV# 7407	5/29/24 0955	W	4	G			X					

*Metals: Sb, As, Be, Cd, Cr, Cu, Pb, Ni, Se, Ag, Tl, Zn

Received on Ice? Y / N Thermometer# 5 Cooler # 339 Receipt Temp Corrected(°C) 2.4c
Date & Time _____ By: _____ Sample X Blank ____ Cooler ____

Field Testing

ID#	ID#	ID#	ID#
Field Test	Field Test	Field Test	Field Test

Matrix:
W = Water
DW = Drinking Water
S = Solid
SO = Soil
SE = Sediment
L = Liquid
A = Air
O = Oil
SL = Sludge

Preservation:
1= H2SO4
2= H3PO4
3=NaOH
4=ZnC4H10O6
5=ZnC4H10O6 & NaOH
6=HNO3
7=Na2S2O3
8=HCl
9=NaHSO4

All Temps are Corrected Values

	Printed Name	Signature	Company	Date	Time
Relinquished by	Clifford MEINS	Clifford Meins	micro methods	5/29/24	1520
Received by	Sarah Tomek	Sarah Tomek	MM	5/29/24	1520
Relinquished by					
Received by					
Relinquished by					
Received by					

Notes:

MICRO-METHODS LABORATORY, INC.

Mailing Address:
PO Box 1410
Ocean Springs, MS
39566-1410

6500 Sunplex Drive
Ocean Springs, MS 39564
228.875.6420 Phone
228.875.6423 Fax

June 07, 2024

Brock Jones

Work Order # : 2405453

Purchase Order #:

City of Chickasaw
224 Grant Street
Mobile, AL 36611

RE: Permit Renewal

Enclosed are Micro-Methods Laboratory, Inc. results of analyses performed on samples received 05/22/2024 15:50. If you have any questions concerning this report, please feel free to contact the office.

Sincerely,

Mitch Spicer

Lab Director
Micro-Methods Laboratory, Inc.

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ER DIVISION

DISCLAIMER

The results only relate to the items or the sample and/or samples received by the laboratory. This report shall not be reproduced except in full, without the approval of the laboratory. All NELAP certified test methods performed meet the requirements of NELAC 2009 Standards. Any variances and/or deviations specific to this analytical report are referenced in the lab report using qualifiers and detailed explanations found in the case narrative.

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

City of Chickasaw
224 Grant Street
Mobile AL, 36611

Project: Permit Renewal
Project Number: Permit Renewal
Project Manager: Brock Jones

Reported:
06/07/2024 14:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date/Time Sampled	Sampled by	Date/Time Received
Effluent-Grab	2405453-01	Water	05/22/2024 10:00	*Clifford W. Meins*	05/22/2024 15:50
Effluent-Composite	2405453-02	Water	05/22/2024 10:10	*Clifford W. Meins*	05/22/2024 15:50
Trip Blank TBV#7406	2405453-03	Water	05/22/2024 10:00	*Micro Methods*	05/22/2024 15:50

Sample Receipt Conditions

Date/Time Received: 5/22/2024 3:50:00PM
Received by: Sarah E. Tomek
Date/Time Logged: 5/23/2024 8:22:00AM
Cooler ID: #529

Shipped by: Lab Pick-up
Submitted by: Clifford W. Meins
Logged by: Sarah E. Tomek
Receipt Temperature: 5.4 °C

Cooler Custody Seals Present	No	*Received on Ice but Not Frozen*	Yes
Containers Intact	Yes	*No Ice, Short Trip*	No
COC/Labels Agree	Yes	*Obvious Contamination*	No
Labels Complete	No	*Rush to meet HT*	No
COC Complete	Yes	*Received within HT*	Yes
Volatile Vial Headspace >6mm	No	*Proper Containers for Analysis*	Yes
Field Sheet/Instructions Included	No	*Correct Preservation*	Yes
Samples Rejected/Documented in Log	No	*Adequate Sample for Analysis*	Yes
Temp Taken From Temp Blank	No	*Sample Custody Seals Present*	No
Temp Taken From Sample Container	Yes	*Samples Missing from COC/Cooler*	No
Temp Taken From Cooler	No		
COC meets acceptance criteria	Yes		

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CASE NARRATIVE SUMMARY

All reported results are within Micro-Methods Laboratory, Inc.defined laboratory quality control objectives unless detailed in narrative summary or identified as qualifications. NOTE: All results listed on this report are calculated on a wet weight basis (as received by the laboratory) unless otherwise noted in the analysis qualification sections.

Summary Comments:

Volatile Technician Comments - BSF:
Sample(s) analyzed with zero headspace. 624.1
pH of sample(s) is less than two in preserved vials. 624.1

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Phenol (PH4APN)-EPA 420.1 1978

Qualifiers:

CC-01 CCV outside acceptance limits. Sample results reported from this calibration were below the reporting limits.

Phenolics, Total
2405453-02[Effluent-Composite]

CC-03 CCV outside acceptance limits. QC Results reported from this calibration within acceptance limits.

Phenolics, Total
4E31012-BLK1, 4E31012-BS1, 4E31012-BSD1, 4E31012-MS1

Total Metals-EPA 200.8 Rev 5.4

Qualifiers:

M2 MS/MSD Recovery below acceptable limit.

Silver [He]
4E24008-MSD1

M3 MS/MSD Precision Limit exceeded.

Silver [He]
4E24008-MSD1

Volatile Organic Compounds by GCMS EPA 624.1-EPA 624.1

Qualifiers:

M1 MS/MSD Recovery limit exceeded.

1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,2-Dichloroethane, Chlorodibromomethane, Chloroform, Dichlorobromomethane
4F04039-MS1

M3 MS/MSD Precision Limit exceeded.

1,1,1-Trichloroethane, 1,1-Dichloroethylene, Methylene chloride
4F04039-MSD1

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Semivolatile Organic Compounds by 625.1-EPA 625.1

Qualifiers:

B-06 Possible laboratory contamination.

1,2,4-Trichlorobenzene
2405453-01[Effluent-Grab]

CC-01 CCV outside acceptance limits. Sample results reported from this calibration were below the reporting limits.

Hexachlorocyclopentadiene
2405453-01[Effluent-Grab], 4E28034-BLK1, 4E28034-DUP1, 4E28034-DUP2

CC-04 CCV outside acceptance limits. Results reported are estimated values.

Hexachlorocyclopentadiene
4E28034-BS1, 4E28034-BSD1

HT-21 The sample was originally analyzed within the recommended hold time. Due to a QC issue or Result Confirmation the sample was reanalyzed outside the recommended Hold Time.

Analyte & Samples(s) Qualified:

2405453-01RE1[Effluent-Grab]

L2 LCS and/or LCSD Recovery below acceptance limit.

1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2-Chloronaphthalene, 4-Bromophenyl phenyl ether, Acenaphthene, Bis(2-chloroisopropyl)ether, Hexachlorocyclopentadiene, Hexachloroethane, N-Nitrosodimethylamine, Phenanthrene
4E28034-BS1, 4E28034-BSD1

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06/07/2024 14:24

Effluent-Grab

2405453-01 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Oil & Grease (HEM)	ND	5.00	mg/L	1.0	4E30025	RM	05/29/2024 08:44	05/29/2024 16:00	EPA 1664A	
Acid and Base/Neutral Extractables by EPA Method 625.1										
2-Chlorophenol	ND	3.3	ug/L	1.0	4E28034	CRLV	05/28/2024 09:41	05/29/2024 18:38	EPA 625.1	
2,4-Dichlorophenol	ND	2.7	"	"	"	CRLV	"	"	"	
2,4-Dimethylphenol	ND	2.7	"	"	"	CRLV	"	"	"	
4,6-Dinitro-o-cresol	ND	3.3	"	"	"	CRLV	"	"	"	
2,4-Dinitrophenol	ND	5.1	"	"	"	CRLV	"	"	"	
2-Nitrophenol	ND	3.6	"	"	"	CRLV	"	"	"	
4-Nitrophenol	ND	2.4	"	"	"	CRLV	"	"	"	
p-Chloro-m-cresol	ND	3.0	"	"	"	CRLV	"	"	"	
Pentachlorophenol	ND	3.6	"	"	"	CRLV	"	"	"	
Phenol	ND	1.5	"	"	"	CRLV	"	"	"	
2,4,6-Trichlorophenol	ND	2.7	"	"	"	CRLV	"	"	"	
Acenaphthene	ND	1.9	"	"	"	CRLV	"	"	"	
Acenaphthylene	ND	3.5	"	"	"	CRLV	"	"	"	
Anthracene	ND	1.9	"	"	"	CRLV	"	"	"	
Benzidine	ND	15.2	"	"	"	CRLV	"	"	"	
Benzo (a) anthracene	ND	7.9	"	"	"	CRLV	"	"	"	
Benzo (a) pyrene	ND	2.5	"	"	"	CRLV	"	"	"	
3,4-Benzo-fluoranthene	ND	4.8	"	"	"	CRLV	"	"	"	
Benzo (g,h,i) perylene	ND	4.1	"	"	"	CRLV	"	"	"	
Benzo (k) fluoranthene	ND	2.5	"	"	"	CRLV	"	"	"	
Bis(2-chloroethoxy)methane	ND	5.4	"	"	"	CRLV	"	"	"	
Bis(2-chloroethyl)ether	ND	5.8	"	"	"	CRLV	"	"	"	
Bis(2-chloroisopropyl)ether	ND	5.8	"	"	"	CRLV	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	2.5	"	"	"	CRLV	"	"	"	
4-Bromophenyl phenyl ether	ND	1.9	"	"	"	CRLV	"	"	"	
Butyl benzyl phthalate	ND	2.5	"	"	"	CRLV	"	"	"	
2-Chloronaphthalene	ND	1.9	"	"	"	CRLV	"	"	"	
4-Chlorophenyl phenyl ether	ND	4.2	"	"	"	CRLV	"	"	"	
Chrysene	ND	2.5	"	"	"	CRLV	"	"	"	
Dibenz (a,h) anthracene	ND	2.5	"	"	"	CRLV	"	"	"	
1,2-Dichlorobenzene	ND	1.9	"	"	"	CRLV	"	"	"	
1,3-Dichlorobenzene	ND	1.9	"	"	"	CRLV	"	"	"	
1,4-Dichlorobenzene	ND	4.4	"	"	"	CRLV	"	"	"	
3,3'-Dichlorobenzidine	ND	5.1	"	"	"	CRLV	"	"	"	
Diethyl phthalate	ND	1.9	"	"	"	CRLV	"	"	"	
Dimethyl phthalate	ND	1.6	"	"	"	CRLV	"	"	"	
Di-n-butyl phthalate	ND	2.5	"	"	"	CRLV	"	"	"	

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Project: Permit Renewal
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Project Manager: Brock Jones

Reported:
06/07/2024 14:24

Effluent-Grab

2405453-01 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Acid and Base/Neutral Extractables by EPA Method 625.1										
2,4-Dinitrotoluene	ND	5.8	ug/L	1.0	4E28034	CRLV	05/28/2024 09:41	"	"	
2,6-Dinitrotoluene	ND	1.9	"	"	"	CRLV	"	"	"	
Di-n-octyl phthalate	ND	2.5	"	"	"	CRLV	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	ND	10.1	"	"	"	CRLV	"	"	"	
Fluoranthene	ND	2.2	"	"	"	CRLV	"	"	"	
Fluorene	ND	1.9	"	"	"	CRLV	"	"	"	
Hexachlorobenzene	ND	1.9	"	"	"	CRLV	"	"	"	
Hexachlorobutadiene	ND	0.9	"	"	"	CRLV	"	"	"	
Hexachlorocyclopentadiene	ND	2.4	"	"	"	CRLV	"	"	"	CC-01
Hexachloroethane	ND	1.4	"	"	"	CRLV	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	3.7	"	"	"	CRLV	"	"	"	
Isophorone	ND	2.2	"	"	"	CRLV	"	"	"	
Naphthalene	ND	1.6	"	"	"	CRLV	"	"	"	
Nitrobenzene	ND	1.9	"	"	"	CRLV	"	"	"	
N-Nitrosodimethylamine	ND	1.5	"	"	"	CRLV	"	"	"	
N-Nitrosodi-n-propylamine	ND	1.9	"	"	"	CRLV	"	"	"	
N-Nitrosodiphenylamine	ND	1.9	"	"	"	CRLV	"	"	"	
Phenanthrene	ND	5.5	"	"	"	CRLV	"	"	"	
Pyrene	ND	1.9	"	"	"	CRLV	"	"	"	
1,2,4-Trichlorobenzene	**3.5**	1.9	"	"	"	CRLV	"	"	"	B-06

Surrogate		*% Rec*	*Rec Limits*	*Batch*		*Date Time Prepared*	*Date Time Analyzed*	*Method*	*Notes*
2,4,6-Tribromophenol	7.47	*74.0 %*	*19.6-127*	"	CRLV	"	"	"	
2-Fluorobiphenyl	3.01	*59.6 %*	*13.3-104*	"	CRLV	"	"	"	
2-Fluorophenol	2.73	*27.0 %*	*11.4-100*	"	CRLV	"	"	"	
Nitrobenzene-d5	3.30	*65.4 %*	*10-100*	"	CRLV	"	"	"	
Phenol-d5	1.97	*19.5 %*	*10-100*	"	CRLV	"	"	"	
Terphenyl-dl4	2.55	*50.4 %*	*10-116*	"	CRLV	"	"	"	

Purgeables by EPA Method 624.1

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Reported:
06/07/2024 14:24

Effluent-Grab

2405453-01 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Purgeables by EPA Method 624.1										
Acrolein	ND	10.0	ug/L	1.0	4F04039	BSF	06/03/2024 08:00	06/05/2024 13:30	EPA 624.1	
Acrylonitrile	ND	5.00	"	"	"	BSF	"	06/03/2024 14:37	"	
Benzene	ND	3.50	"	"	"	BSF	"	"	"	
Bromoform	ND	4.70	"	"	"	BSF	"	"	"	
Carbon Tetrachloride	ND	2.80	"	"	"	BSF	"	"	"	
Chlorobenzene	ND	3.21	"	"	"	BSF	"	"	"	
Chlorodibromomethane	ND	3.10	"	"	"	BSF	"	"	"	
Chloroethane	ND	3.88	"	"	"	BSF	"	"	"	
2-Chloroethylvinyl ether	ND	10.0	"	"	"	BSF	"	"	"	
Chloroform	**2.42**	1.60	"	"	"	BSF	"	"	"	
Dichlorobromomethane	ND	2.20	"	"	"	BSF	"	"	"	
1,1-Dichloroethane	ND	3.42	"	"	"	BSF	"	"	"	
1,2-Dichloroethane	ND	2.80	"	"	"	BSF	"	"	"	
1,1-Dichloroethylene	ND	2.80	"	"	"	BSF	"	"	"	
1,2-Dichloropropane	ND	2.92	"	"	"	BSF	"	"	"	
cis-1,3-Dichloropropylene	ND	3.87	"	"	"	BSF	"	"	"	
trans-1,3-Dichloropropylene	ND	2.78	"	"	"	BSF	"	"	"	
Ethylbenzene	ND	4.10	"	"	"	BSF	"	"	"	
Methyl Bromide	ND	4.35	"	"	"	BSF	"	"	"	
Methyl Chloride	ND	4.61	"	"	"	BSF	"	"	"	
Methylene chloride	ND	2.77	"	"	"	BSF	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.13	"	"	"	BSF	"	"	"	
Tetrachloroethylene	ND	4.10	"	"	"	BSF	"	"	"	
Toluene	ND	4.46	"	"	"	BSF	"	"	"	
trans-1,2-Dichloroethylene	ND	1.60	"	"	"	BSF	"	"	"	
1,1,1-Trichloroethane	ND	2.93	"	"	"	BSF	"	"	"	
1,1,2-Trichloroethane	ND	3.66	"	"	"	BSF	"	"	"	
Trichloroethylene	ND	1.90	"	"	"	BSF	"	"	"	
Vinyl chloride	ND	3.74	"	"	"	BSF	"	"	"	

Surrogate		*% Rec*	*Rec Limits*	*Batch*		*Date Time Prepared*	*Date Time Analyzed*	*Method*	*Notes*
Dibromofluoromethane	53.4	*107 %*	*70-130*	"	BSF	"	"	"	
1,2-Dichloroethane-d4	54.6	*109 %*	*70-130*	"	BSF	"	"	"	
Toluene-d8	47.3	*94.7 %*	*70-130*	"	BSF	"	"	"	
4-Bromofluorobenzene	51.5	*103 %*	*70-130*	"	BSF	"	"	"	

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06/07/2024 14:24

Effluent-Grab

2405453-01RE1 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Acid and Base/Neutral Extractables by EPA Method 625.1										**HT-21**

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06/07/2024 14:24

Effluent-Grab

2405453-01RE1 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Acid and Base/Neutral Extractables by EPA Method 625.1										HT-21
2-Chlorophenol	ND	3.3	ug/L	1.0	4E28034	CRLV	05/30/2024 09:41	05/30/2024 16:53	EPA 625.1	
2,4-Dichlorophenol	ND	2.7	"	"	"	CRLV	"	"	"	
2,4-Dimethylphenol	ND	2.7	"	"	"	CRLV	"	"	"	
4,6-Dinitro-o-cresol	ND	3.3	"	"	"	CRLV	"	"	"	
2,4-Dinitrophenol	ND	5.1	"	"	"	CRLV	"	"	"	
2-Nitrophenol	ND	3.6	"	"	"	CRLV	"	"	"	
4-Nitrophenol	ND	2.4	"	"	"	CRLV	"	"	"	
p-Chloro-m-cresol	ND	3.0	"	"	"	CRLV	"	"	"	
Pentachlorophenol	ND	3.6	"	"	"	CRLV	"	"	"	
Phenol	ND	1.5	"	"	"	CRLV	"	"	"	
2,4,6-Trichlorophenol	ND	2.7	"	"	"	CRLV	"	"	"	
Acenaphthene	ND	1.9	"	"	"	CRLV	"	"	"	
Acenaphthylene	ND	3.5	"	"	"	CRLV	"	"	"	
Anthracene	ND	1.9	"	"	"	CRLV	"	"	"	
Benzo (a) anthracene	ND	7.9	"	"	"	CRLV	"	"	"	
Benzo (a) pyrene	ND	2.5	"	"	"	CRLV	"	"	"	
3,4-Benzo-fluoranthene	ND	4.8	"	"	"	CRLV	"	"	"	
Benzo (g,h,i) perylene	ND	4.1	"	"	"	CRLV	"	"	"	
Benzo (k) fluoranthene	ND	2.5	"	"	"	CRLV	"	"	"	
Bis(2-chloroethoxy)methane	ND	5.4	"	"	"	CRLV	"	"	"	
Bis(2-chloroethyl)ether	ND	5.8	"	"	"	CRLV	"	"	"	
Bis(2-chloroisopropyl)ether	ND	5.8	"	"	"	CRLV	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	2.5	"	"	"	CRLV	"	"	"	
4-Bromophenyl phenyl ether	ND	1.9	"	"	"	CRLV	"	"	"	
Butyl benzyl phthalate	ND	2.5	"	"	"	CRLV	"	"	"	
2-Chloronaphthalene	ND	1.9	"	"	"	CRLV	"	"	"	
4-Chlorophenyl phenyl ether	ND	4.2	"	"	"	CRLV	"	"	"	
Chrysene	ND	2.5	"	"	"	CRLV	"	"	"	
Dibenz (a,h) anthracene	ND	2.5	"	"	"	CRLV	"	"	"	
1,2-Dichlorobenzene	ND	1.9	"	"	"	CRLV	"	"	"	
1,3-Dichlorobenzene	ND	1.9	"	"	"	CRLV	"	"	"	
1,4-Dichlorobenzene	ND	4.4	"	"	"	CRLV	"	"	"	
Diethyl phthalate	ND	1.9	"	"	"	CRLV	"	"	"	
Dimethyl phthalate	ND	1.6	"	"	"	CRLV	"	"	"	
Di-n-butyl phthalate	ND	2.5	"	"	"	CRLV	"	"	"	
2,4-Dinitrotoluene	ND	5.8	"	"	"	CRLV	"	"	"	
2,6-Dinitrotoluene	ND	1.9	"	"	"	CRLV	"	"	"	
Di-n-octyl phthalate	ND	2.5	"	"	"	CRLV	"	"	"	
1,2-Diphenylhydrazine as Azobenzene	ND	10.1	"	"	"	CRLV	"	"	"	

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Reported:
06/07/2024 14:24

Effluent-Grab

2405453-01RE1 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Acid and Base/Neutral Extractables by EPA Method 625.1										HT-21
Fluoranthene	ND	2.2	ug/L	1.0	4E28034	CRLV	05/30/2024 09:41	"	"	
Fluorene	ND	1.9	"	"	"	CRLV	"	"	"	
Hexachlorobenzene	ND	1.9	"	"	"	CRLV	"	"	"	
Hexachlorobutadiene	ND	0.9	"	"	"	CRLV	"	"	"	
Hexachlorocyclopentadiene	ND	2.4	"	"	"	CRLV	"	"	"	
Hexachloroethane	ND	1.4	"	"	"	CRLV	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	3.7	"	"	"	CRLV	"	"	"	
Isophorone	ND	2.2	"	"	"	CRLV	"	"	"	
Naphthalene	ND	1.6	"	"	"	CRLV	"	"	"	
Nitrobenzene	ND	1.9	"	"	"	CRLV	"	"	"	
N-Nitrosodimethylamine	ND	1.5	"	"	"	CRLV	"	"	"	
N-Nitrosodi-n-propylamine	ND	1.9	"	"	"	CRLV	"	"	"	
N-Nitrosodiphenylamine	ND	1.9	"	"	"	CRLV	"	"	"	
Phenanthrene	ND	5.5	"	"	"	CRLV	"	"	"	
Pyrene	ND	1.9	"	"	"	CRLV	"	"	"	
1,2,4-Trichlorobenzene	ND	1.9	"	"	"	CRLV	"	"	"	

Surrogate		*% Rec*	*Rec Limits*	*Batch*		*Date Time Prepared*	*Date Time Analyzed*	*Method*	*Notes*
2,4,6-Tribromophenol	4.66	*46.1 %*	*19.6-127*	"	CRLV	"	"	"	
2-Fluorobiphenyl	1.83	*36.2 %*	*13.3-104*	"	CRLV	"	"	"	
2-Fluorophenol	2.07	*20.5 %*	*11.4-100*	"	CRLV	"	"	"	
Nitrobenzene-d5	1.35	*26.8 %*	*10-100*	"	CRLV	"	"	"	
Phenol-d5	1.09	*10.8 %*	*10-100*	"	CRLV	"	"	"	
Terphenyl-dl4	2.13	*42.2 %*	*10-116*	"	CRLV	"	"	"	

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Project: Permit Renewal
Project Number: Permit Renewal
Project Manager: Brock Jones

Reported:
06/07/2024 14:24

Effluent-Composite

2405453-02 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Cyanide (total)	ND	0.050	mg/L	1.0	4E28042	CRG	05/24/2024 15:00	05/28/2024 13:49	SM 4500-CN E 2016	
Hardness (EDTA) as CaCO3	**51.0**	1.78	"	"	4E23054	RWB	05/23/2024 13:15	05/23/2024 13:18	SM 2340C-2011	
Phenolics, Total	ND	0.050	"	"	4E31012	DLW	05/31/2024 08:15	05/31/2024 13:49	EPA 420.1 1978	CC-01
Total Dissolved Solids	**117**	1	"	"	4E29047	DLW	05/24/2024 16:00	05/29/2024 00:00	SM 2540 C-2015	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4E24008	SCH	05/24/2024 11:00	05/29/2024 14:58	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Copper [He]	**0.00152**	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Nickel [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Silver [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Zinc [He]	**0.00688**	0.00500	"	"	"	SCH	"	"	"	

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Reported:
06/07/2024 14:24

Trip Blank TBV#7406

2405453-03 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Purgeables by EPA Method 624.1										
Acrolein	ND	10.0	ug/L	1.0	4F04039	BSF	06/03/2024 08:00	06/05/2024 14:44	EPA 624.1	
Acrylonitrile	ND	5.00	"	"	"	BSF	"	06/03/2024 16:01	"	
Benzene	ND	3.50	"	"	"	BSF	"	"	"	
Bromoform	ND	4.70	"	"	"	BSF	"	"	"	
Carbon Tetrachloride	ND	2.80	"	"	"	BSF	"	"	"	
Chlorobenzene	ND	3.21	"	"	"	BSF	"	"	"	
Chlorodibromomethane	ND	3.10	"	"	"	BSF	"	"	"	
Chloroethane	ND	3.88	"	"	"	BSF	"	"	"	
2-Chloroethylvinyl ether	ND	10.0	"	"	"	BSF	"	"	"	
Chloroform	ND	1.60	"	"	"	BSF	"	"	"	
Dichlorobromomethane	ND	2.20	"	"	"	BSF	"	"	"	
1,1-Dichloroethane	ND	3.42	"	"	"	BSF	"	"	"	
1,2-Dichloroethane	ND	2.80	"	"	"	BSF	"	"	"	
1,1-Dichloroethylene	ND	2.80	"	"	"	BSF	"	"	"	
1,2-Dichloropropane	ND	2.92	"	"	"	BSF	"	"	"	
cis-1,3-Dichloropropylene	ND	3.87	"	"	"	BSF	"	"	"	
trans-1,3-Dichloropropylene	ND	2.78	"	"	"	BSF	"	"	"	
Ethylbenzene	ND	4.10	"	"	"	BSF	"	"	"	
Methyl Bromide	ND	4.35	"	"	"	BSF	"	"	"	
Methyl Chloride	ND	4.61	"	"	"	BSF	"	"	"	
Methylene chloride	ND	2.77	"	"	"	BSF	"	"	"	
1,1,2,2-Tetrachloroethane	ND	4.13	"	"	"	BSF	"	"	"	
Tetrachloroethylene	ND	4.10	"	"	"	BSF	"	"	"	
Toluene	ND	4.46	"	"	"	BSF	"	"	"	
trans-1,2-Dichloroethylene	ND	1.60	"	"	"	BSF	"	"	"	
1,1,1-Trichloroethane	ND	2.93	"	"	"	BSF	"	"	"	
1,1,2-Trichloroethane	ND	3.66	"	"	"	BSF	"	"	"	
Trichloroethylene	ND	1.90	"	"	"	BSF	"	"	"	
Vinyl chloride	ND	3.74	"	"	"	BSF	"	"	"	

Surrogate		*% Rec*	*Rec Limits*	*Batch*		*Date Time Prepared*	*Date Time Analyzed*	*Method*	*Notes*
Dibromofluoromethane	53.9	*108 %*	*70-130*	"	BSF	"	"	"	
1,2-Dichloroethane-d4	55.1	*110 %*	*70-130*	"	BSF	"	"	"	
Toluene-d8	47.2	*94.4 %*	*70-130*	"	BSF	"	"	"	
4-Bromofluorobenzene	51.8	*104 %*	*70-130*	"	BSF	"	"	"	

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Project: Permit Renewal
Project Number: Permit Renewal
Project Manager: Brock Jones

Reported:
06/07/2024 14:24

Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4E23054 - Default Prep GenChem											
Blank (4E23054-BLK1)											
Hardness (EDTA) as CaCO3	5/23/24 13:18	ND	1.78	mg/L							
LCS (4E23054-BS1)											
Hardness (EDTA) as CaCO3	5/23/24 13:18	40.0	1.78	mg/L	40.0		100	90-110			
LCS Dup (4E23054-BSD1)											
Hardness (EDTA) as CaCO3	5/23/24 13:18	40.0	1.78	mg/L	40.0		100	90-110	0.00	20	
Duplicate (4E23054-DUP1)			**Source: 2405453-02**								
Hardness (EDTA) as CaCO3	5/23/24 13:18	53.0	1.78	mg/L		51.0			3.85	35	
Batch 4E28042 - Default Prep GenChem											
Blank (4E28042-BLK1)											
Cyanide (total)	5/28/24 13:49	ND	0.050	mg/L							
LCS (4E28042-BS1)											
Cyanide (total)	5/28/24 13:49	0.385	0.050	mg/L	0.400		96.3	82.6-115			
LCS Dup (4E28042-BSD1)											
Cyanide (total)	5/28/24 13:49	0.382	0.050	mg/L	0.400		95.6	82.6-115	0.678	20	
Duplicate (4E28042-DUP1)			**Source: 2405453-02**								
Cyanide (total)	5/28/24 13:49	ND	0.050	mg/L		ND				20	
Matrix Spike (4E28042-MS1)			**Source: 2405453-02**								
Cyanide (total)	5/28/24 13:49	0.318	0.050	mg/L	0.400	ND	79.5	77.2-117			

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Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4E28042 - Default Prep GenChem											
Matrix Spike Dup (4E28042-MSD1)			Source: 2405453-02								
Cyanide (total)	5/28/24 13:49	0.335	0.050	mg/L	0.400	ND	83.7	77.2-117	5.15	25	
Batch 4E29047 - Default Prep GenChem											
Blank (4E29047-BLK1)											
Total Dissolved Solids	5/29/24 0:00	ND	1	mg/L							
LCS (4E29047-BS1)											
Total Dissolved Solids	5/29/24 0:00	85	1	mg/L	99.2		85.7	69.8-100			
LCS Dup (4E29047-BSD1)											
Total Dissolved Solids	5/29/24 0:00	83	1	mg/L	99.2		83.7	69.8-100	2.38	10	
Duplicate (4E29047-DUP1)			Source: 2405410-01								
Total Dissolved Solids	5/29/24 0:00	1384	2	mg/L		1378			0.434	10	
Batch 4E30025 - Default Prep GenChem											
Blank (4E30025-BLK1)											
Oil & Grease (HEM)	5/29/24 16:00	ND	3.90	mg/L							
LCS (4E30025-BS1)											
Oil & Grease (HEM)	5/29/24 16:00	35.8	3.85	mg/L	40.5		88.4	78-114			
LCS Dup (4E30025-BSD1)											
Oil & Grease (HEM)	5/29/24 16:00	35.4	3.83	mg/L	40.3		87.8	78-114	1.09	18	

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Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4E30025 - Default Prep GenChem											
Matrix Spike (4E30025-MS1)			Source: 2405515-01								
Oil & Grease (HEM)	5/29/24 16:00	30.9	3.59	mg/L	37.8	ND	81.8	78-114			
Batch 4E31012 - Default Prep GenChem											
Blank (4E31012-BLK1)											
Phenolics, Total	5/31/24 13:49	ND	0.050	mg/L							CC-03
LCS (4E31012-BS1)											
Phenolics, Total	5/31/24 13:49	0.101	0.050	mg/L	0.101		100	67-117			CC-03
LCS Dup (4E31012-BSD1)											
Phenolics, Total	5/31/24 13:49	0.097	0.050	mg/L	0.101		96.0	67-117	4.04	30	CC-03
Matrix Spike (4E31012-MS1)			Source: 2405453-02								
Phenolics, Total	5/31/24 13:49	0.118	0.050	mg/L	0.101	ND	117	47.1-119			CC-03

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Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4E24008 - EPA 200.2 DCN 1017 Rev 10											
Blank (4E24008-BLK1)											
Antimony [He]	5/29/24 13:30	ND	0.00200	mg/L							
Arsenic [He]	5/29/24 13:30	ND	0.00200	"							
Beryllium [He]	5/29/24 13:30	ND	0.00100	"							
Cadmium [He]	5/29/24 13:30	ND	0.00100	"							
Chromium [He]	5/29/24 13:30	ND	0.00100	"							
Copper [He]	5/29/24 13:30	ND	0.00100	"							
Lead [He]	5/29/24 13:30	ND	0.00100	"							
Nickel [He]	5/29/24 13:30	ND	0.00100	"							
Selenium [He]	5/29/24 13:30	ND	0.00100	"							
Silver [He]	5/29/24 13:30	ND	0.00100	"							
Thallium [He]	5/29/24 13:30	ND	0.00100	"							
Zinc [He]	5/29/24 13:30	ND	0.00500	"							
LCS (4E24008-BS1)											
Antimony [He]	5/29/24 13:34	0.105	0.00200	mg/L	0.100		105	85-115			
Arsenic [He]	5/29/24 13:34	0.102	0.00200	"	0.100		102	85-115			
Beryllium [He]	5/29/24 13:34	0.109	0.00100	"	0.100		109	85-115			
Cadmium [He]	5/29/24 13:34	0.102	0.00100	"	0.100		102	85-115			
Chromium [He]	5/29/24 13:34	0.108	0.00100	"	0.100		108	85-115			
Copper [He]	5/29/24 13:34	0.109	0.00100	"	0.100		109	85-115			
Lead [He]	5/29/24 13:34	0.104	0.00100	"	0.100		104	85-115			
Nickel [He]	5/29/24 13:34	0.104	0.00100	"	0.100		104	85-115			
Selenium [He]	5/29/24 13:34	0.104	0.00100	"	0.100		104	85-115			
Silver [He]	5/29/24 13:34	0.052	0.00100	"	0.0500		104	85-115			
Thallium [He]	5/29/24 13:34	0.102	0.00100	"	0.100		102	85-115			
Zinc [He]	5/29/24 13:34	0.102	0.00500	"	0.100		102	85-115			
LCS Dup (4E24008-BSD1)											
Antimony [He]	5/29/24 13:38	0.106	0.00200	mg/L	0.100		106	85-115	0.990	20	
Arsenic [He]	5/29/24 13:38	0.106	0.00200	"	0.100		106	85-115	3.16	20	
Beryllium [He]	5/29/24 13:38	0.111	0.00100	"	0.100		111	85-115	1.86	20	
Cadmium [He]	5/29/24 13:38	0.104	0.00100	"	0.100		104	85-115	1.45	20	
Chromium [He]	5/29/24 13:38	0.110	0.00100	"	0.100		110	85-115	1.73	20	
Copper [He]	5/29/24 13:38	0.111	0.00100	"	0.100		111	85-115	1.80	20	
Lead [He]	5/29/24 13:38	0.105	0.00100	"	0.100		105	85-115	1.02	20	
Nickel [He]	5/29/24 13:38	0.107	0.00100	"	0.100		107	85-115	2.15	20	
Selenium [He]	5/29/24 13:38	0.100	0.00100	"	0.100		100	85-115	3.42	20	
Silver [He]	5/29/24 13:38	0.053	0.00100	"	0.0500		106	85-115	1.09	20	
Thallium [He]	5/29/24 13:38	0.103	0.00100	"	0.100		103	85-115	1.22	20	
Zinc [He]	5/29/24 13:38	0.105	0.00500	"	0.100		105	85-115	2.21	20	

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Reported:
06/07/2024 14:24

Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4E24008 - EPA 200.2 DCN 1017 Rev 10											
Matrix Spike (4E24008-MS1)			**Source: 2405414-01**								
Antimony [He]	5/29/24 14:09	0.112	0.00200	mg/L	0.100	0.004	108	70-130			
Arsenic [He]	5/29/24 14:09	0.106	0.00200	"	0.100	0.0006	105	70-130			
Beryllium [He]	5/29/24 14:09	0.086	0.00100	"	0.100	ND	86.3	70-130			
Cadmium [He]	5/29/24 14:09	0.102	0.00100	"	0.100	0.009	93.6	70-130			
Chromium [He]	5/29/24 14:09	0.100	0.00100	"	0.100	0.001	98.7	70-130			
Copper [He]	5/29/24 14:09	0.098	0.00100	"	0.100	0.008	89.7	70-130			
Lead [He]	5/29/24 14:09	0.106	0.00100	"	0.100	ND	106	70-130			
Nickel [He]	5/29/24 14:09	0.100	0.00100	"	0.100	0.011	88.5	70-130			
Selenium [He]	5/29/24 14:09	0.122	0.00100	"	0.100	0.015	107	70-130			
Silver [He]	5/29/24 14:09	0.040	0.00100	"	0.0500	ND	79.4	70-130			
Thallium [He]	5/29/24 14:09	0.103	0.00100	"	0.100	0.0005	103	70-130			
Zinc [He]	5/29/24 14:09	0.095	0.00500	"	0.100	0.010	84.7	70-130			
Matrix Spike (4E24008-MS2)			**Source: 2405414-01**								
Antimony [He]	5/29/24 14:49	0.107	0.00200	mg/L	0.100	0.004	103	70-130			
Arsenic [He]	5/29/24 14:49	0.103	0.00200	"	0.100	0.0006	102	70-130			
Beryllium [He]	5/29/24 14:49	0.103	0.00100	"	0.100	ND	103	70-130			
Cadmium [He]	5/29/24 14:49	0.101	0.00100	"	0.100	0.009	91.9	70-130			
Chromium [He]	5/29/24 14:49	0.105	0.00100	"	0.100	0.001	104	70-130			
Copper [He]	5/29/24 14:49	0.107	0.00100	"	0.100	0.008	98.4	70-130			
Lead [He]	5/29/24 14:49	0.108	0.00100	"	0.100	ND	108	70-130			
Nickel [He]	5/29/24 14:49	0.097	0.00100	"	0.100	0.011	86.1	70-130			
Selenium [He]	5/29/24 14:49	0.095	0.00100	"	0.100	0.015	80.2	70-130			
Silver [He]	5/29/24 14:49	0.051	0.00100	"	0.0500	ND	103	70-130			
Thallium [He]	5/29/24 14:49	0.106	0.00100	"	0.100	0.0005	105	70-130			
Zinc [He]	5/29/24 14:49	0.102	0.00500	"	0.100	0.010	91.3	70-130			
Matrix Spike Dup (4E24008-MSD1)			**Source: 2405414-01**								
Antimony [He]	5/29/24 14:14	0.111	0.00200	mg/L	0.100	0.004	107	70-130	0.510	20	
Arsenic [He]	5/29/24 14:14	0.106	0.00200	"	0.100	0.0006	106	70-130	0.488	20	
Beryllium [He]	5/29/24 14:14	0.089	0.00100	"	0.100	ND	88.9	70-130	2.96	20	
Cadmium [He]	5/29/24 14:14	0.101	0.00100	"	0.100	0.009	92.9	70-130	0.683	20	
Chromium [He]	5/29/24 14:14	0.099	0.00100	"	0.100	0.001	98.3	70-130	0.403	20	
Copper [He]	5/29/24 14:14	0.098	0.00100	"	0.100	0.008	89.4	70-130	0.362	20	
Lead [He]	5/29/24 14:14	0.106	0.00100	"	0.100	ND	106	70-130	0.114	20	
Nickel [He]	5/29/24 14:14	0.099	0.00100	"	0.100	0.011	87.8	70-130	0.686	20	
Selenium [He]	5/29/24 14:14	0.118	0.00100	"	0.100	0.015	104	70-130	2.60	20	
Silver [He]	5/29/24 14:14	0.031	0.00100	"	0.0500	ND	62.1	70-130	24.5	20	M2, M3
Thallium [He]	5/29/24 14:14	0.103	0.00100	"	0.100	0.0005	103	70-130	0.108	20	
Zinc [He]	5/29/24 14:14	0.095	0.00500	"	0.100	0.010	85.0	70-130	0.311	20	

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Reported:
06/07/2024 14:24

Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4E24008 - EPA 200.2 DCN 1017 Rev 10											
Matrix Spike Dup (4E24008-MSD2)			**Source: 2405414-01**								
Antimony [He]	5/29/24 14:53	0.106	0.00200	mg/L	0.100	0.004	102	70-130	0.799	20	
Arsenic [He]	5/29/24 14:53	0.102	0.00200	"	0.100	0.0006	101	70-130	1.14	20	
Beryllium [He]	5/29/24 14:53	0.103	0.00100	"	0.100	ND	103	70-130	0.500	20	
Cadmium [He]	5/29/24 14:53	0.100	0.00100	"	0.100	0.009	91.5	70-130	0.393	20	
Chromium [He]	5/29/24 14:53	0.103	0.00100	"	0.100	0.001	102	70-130	2.40	20	
Copper [He]	5/29/24 14:53	0.106	0.00100	"	0.100	0.008	97.4	70-130	0.921	20	
Lead [He]	5/29/24 14:53	0.107	0.00100	"	0.100	ND	107	70-130	1.03	20	
Nickel [He]	5/29/24 14:53	0.098	0.00100	"	0.100	0.011	86.6	70-130	0.518	20	
Selenium [He]	5/29/24 14:53	0.094	0.00100	"	0.100	0.015	79.3	70-130	0.981	20	
Silver [He]	5/29/24 14:53	0.051	0.00100	"	0.0500	ND	102	70-130	0.784	20	
Thallium [He]	5/29/24 14:53	0.105	0.00100	"	0.100	0.0005	104	70-130	0.931	20	
Zinc [He]	5/29/24 14:53	0.101	0.00500	"	0.100	0.010	90.3	70-130	0.987	20	

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Project: Permit Renewal
Project Number: Permit Renewal
Project Manager: Brock Jones

Reported:
06/07/2024 14:24

Acid and Base/Neutral Extractables by EPA Method 625.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4E28034 - EPA 3510C DCN 4000 Rev 12											
Blank (4E28034-BLK1)											
2-Chlorophenol	5/29/24 11:35	ND	3.3	ug/L							
2,4-Dichlorophenol	5/29/24 11:35	ND	2.7	"							
2,4-Dimethylphenol	5/29/24 11:35	ND	2.7	"							
4,6-Dinitro-o-cresol	5/29/24 11:35	ND	3.3	"							
2,4-Dinitrophenol	5/29/24 11:35	ND	5.0	"							
2-Nitrophenol	5/29/24 11:35	ND	3.6	"							
4-Nitrophenol	5/29/24 11:35	ND	2.4	"							
p-Chloro-m-cresol	5/29/24 11:35	ND	3.0	"							
Pentachlorophenol	5/29/24 11:35	ND	3.6	"							
Phenol	5/29/24 11:35	ND	1.5	"							
2,4,6-Trichlorophenol	5/29/24 11:35	ND	2.7	"							
Acenaphthene	5/29/24 11:35	ND	1.9	"							
Acenaphthylene	5/29/24 11:35	ND	3.5	"							
Anthracene	5/29/24 11:35	ND	1.9	"							
Benzidine	5/29/24 11:35	ND	15.0	"							
Benzo (a) anthracene	5/29/24 11:35	ND	7.8	"							
Benzo (a) pyrene	5/29/24 11:35	ND	2.5	"							
3,4-Benzo-fluoranthene	5/29/24 11:35	ND	4.8	"							
Benzo (g,h,i) perylene	5/29/24 11:35	ND	4.1	"							
Benzo (k) fluoranthene	5/29/24 11:35	ND	2.5	"							
Bis(2-chloroethoxy)methane	5/29/24 11:35	ND	5.3	"							
Bis(2-chloroethyl)ether	5/29/24 11:35	ND	5.7	"							
Bis(2-chloroisopropyl)ether	5/29/24 11:35	ND	5.7	"							
Bis(2-ethylhexyl)phthalate	5/29/24 11:35	ND	2.5	"							
4-Bromophenyl phenyl ether	5/29/24 11:35	ND	1.9	"							
Butyl benzyl phthalate	5/29/24 11:35	ND	2.5	"							
2-Chloronaphthalene	5/29/24 11:35	ND	1.9	"							
4-Chlorophenyl phenyl ether	5/29/24 11:35	ND	4.2	"							
Chrysene	5/29/24 11:35	ND	2.5	"							
Dibenz (a,h) anthracene	5/29/24 11:35	ND	2.5	"							
1,2-Dichlorobenzene	5/29/24 11:35	ND	1.9	"							
1,3-Dichlorobenzene	5/29/24 11:35	ND	1.9	"							
1,4-Dichlorobenzene	5/29/24 11:35	ND	4.4	"							
3,3'-Dichlorobenzidine	5/29/24 11:35	ND	5.0	"							
Diethyl phthalate	5/29/24 11:35	ND	1.9	"							
Dimethyl phthalate	5/29/24 11:35	ND	1.6	"							
Di-n-butyl phthalate	5/29/24 11:35	ND	2.5	"							
2,4-Dinitrotoluene	5/29/24 11:35	ND	5.7	"							
2,6-Dinitrotoluene	5/29/24 11:35	ND	1.9	"							
Di-n-octyl phthalate	5/29/24 11:35	ND	2.5	"							
1,2-Diphenylhydrazine as Azobenzene	5/29/24 11:35	ND	10.0	"							
Fluoranthene	5/29/24 11:35	ND	2.2	"							
Fluorene	5/29/24 11:35	ND	1.9	"							
Hexachlorobenzene	5/29/24 11:35	ND	1.9	"							
Hexachlorobutadiene	5/29/24 11:35	ND	0.9	"							

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Project Number: Permit Renewal
Project Manager: Brock Jones

Reported:
06/07/2024 14:24

Acid and Base/Neutral Extractables by EPA Method 625.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4E28034 - EPA 3510C DCN 4000 Rev 12											
Blank (4E28034-BLK1)											
Hexachlorocyclopentadiene	5/29/24 11:35	ND	2.3	ug/L							CC-01
Hexachloroethane	5/29/24 11:35	ND	1.4	"							
Indeno (1,2,3-cd) pyrene	5/29/24 11:35	ND	3.7	"							
Isophorone	5/29/24 11:35	ND	2.2	"							
Naphthalene	5/29/24 11:35	ND	1.6	"							
Nitrobenzene	5/29/24 11:35	ND	1.9	"							
N-Nitrosodimethylamine	5/29/24 11:35	ND	1.5	"							
N-Nitrosodi-n-propylamine	5/29/24 11:35	ND	1.9	"							
N-Nitrosodiphenylamine	5/29/24 11:35	ND	1.9	"							
Phenanthrene	5/29/24 11:35	ND	5.4	"							
Pyrene	5/29/24 11:35	ND	1.9	"							
1,2,4-Trichlorobenzene	5/29/24 11:35	ND	1.9	"							
Surrogate: 2,4,6-Tribromophenol		*5.50*		"	*10.0*		*55.0*	*19.6-127*			
Surrogate: 2-Fluorobiphenyl		*1.82*		"	*5.00*		*36.4*	*13.3-104*			
Surrogate: 2-Fluorophenol		*1.59*		"	*10.0*		*15.9*	*11.4-100*			
Surrogate: Nitrobenzene-d5		*1.29*		"	*5.00*		*25.8*	*10-100*			
Surrogate: Phenol-d5		*2.04*		"	*10.0*		*20.4*	*10-100*			
Surrogate: Terphenyl-dl4		*3.28*		"	*5.00*		*65.6*	*10-116*			
LCS (4E28034-BS1)											
2-Chlorophenol	5/29/24 10:25	5.4	3.3	ug/L	10.0		53.9	36-120			
2,4-Dichlorophenol	5/29/24 10:25	5.8	2.7	"	10.0		57.9	53-122			
2,4-Dimethylphenol	5/29/24 10:25	5.8	2.7	"	10.0		57.8	42-120			
4,6-Dinitro-o-cresol	5/29/24 10:25	7.2	3.3	"	10.0		72.1	53-130			
2,4-Dinitrophenol	5/29/24 10:25	2.7	5.0	"	10.0		27.2	10-173			
2-Nitrophenol	5/29/24 10:25	7.4	3.6	"	10.0		74.2	45-167			
4-Nitrophenol	5/29/24 10:25	1.7	2.4	"	10.0		17.0	13-129			
p-Chloro-m-cresol	5/29/24 10:25	6.2	3.0	"	10.0		62.2	41-128			
Pentachlorophenol	5/29/24 10:25	5.0	3.6	"	10.0		50.3	38-152			
Phenol	5/29/24 10:25	2.3	1.5	"	10.0		22.9	17-120			
2,4,6-Trichlorophenol	5/29/24 10:25	6.2	2.7	"	10.0		62.0	52-129			
Acenaphthene	5/30/24 12:48	6.9	1.9	"	10.0		68.7	60-132			
Acenaphthylene	5/29/24 10:25	5.9	3.5	"	10.0		59.0	54-126			
Anthracene	5/29/24 10:25	6.2	1.9	"	10.0		62.2	43-120			
Benzo (a) anthracene	5/29/24 10:25	6.0	7.8	"	10.0		59.8	42-133			
Benzo (a) pyrene	5/29/24 10:25	6.1	2.5	"	10.0		61.1	32-148			
3,4-Benzo-fluoranthene	5/29/24 10:25	7.1	4.8	"	10.0		70.7	42-140			
Benzo (g,h,i) perylene	5/29/24 10:25	4.9	4.1	"	10.0		49.2	10-195			
Benzo (k) fluoranthene	5/29/24 10:25	8.2	2.5	"	10.0		82.2	25-146			
Bis(2-chloroethoxy)methane	5/29/24 10:25	5.8	5.3	"	10.0		58.2	49-165			
Bis(2-chloroethyl)ether	5/29/24 10:25	7.2	5.7	"	10.0		71.8	43-126			
Bis(2-chloroisopropyl)ether	5/29/24 10:25	4.8	5.7	"	10.0		48.0	63-139			L2
Bis(2-ethylhexyl)phthalate	5/29/24 10:25	7.4	2.5	"	10.0		73.7	29-137			
4-Bromophenyl phenyl ether	5/29/24 10:25	6.2	1.9	"	10.0		61.9	65-120			L2

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Project Manager: Brock Jones

Reported:
06/07/2024 14:24

Acid and Base/Neutral Extractables by EPA Method 625.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4E28034 - EPA 3510C DCN 4000 Rev 12											
LCS (4E28034-BS1)											
Butyl benzyl phthalate	5/29/24 10:25	8.3	2.5	ug/L	10.0		82.8	10-140			
2-Chloronaphthalene	5/29/24 10:25	4.8	1.9	"	10.0		47.5	65-120			L2
4-Chlorophenyl phenyl ether	5/29/24 10:25	5.7	4.2	"	10.0		57.1	38-145			
Chrysene	5/29/24 10:25	6.8	2.5	"	10.0		67.7	44-140			
Dibenz (a,h) anthracene	5/29/24 10:25	4.2	2.5	"	10.0		42.3	10-200			
1,2-Dichlorobenzene	5/29/24 10:25	4.9	1.9	"	10.0		48.5	60-140			L2
1,3-Dichlorobenzene	5/29/24 10:25	4.1	1.9	"	10.0		40.8	60-140			L2
1,4-Dichlorobenzene	5/29/24 10:25	4.1	4.4	"	10.0		40.7	60-140			L2
Diethyl phthalate	5/29/24 10:25	6.3	1.9	"	10.0		63.2	10-120			
Dimethyl phthalate	5/29/24 10:25	6.6	1.6	"	10.0		66.2	10-120			
Di-n-butyl phthalate	5/29/24 10:25	9.5	2.5	"	10.0		95.1	8-120			
2,4-Dinitrotoluene	5/29/24 10:25	7.3	5.7	"	10.0		72.6	48-127			
2,6-Dinitrotoluene	5/29/24 10:25	7.5	1.9	"	10.0		75.3	68-137			
Di-n-octyl phthalate	5/29/24 10:25	9.5	2.5	"	10.0		95.1	19-132			
1,2-Diphenylhydrazine as Azobenzene	5/29/24 10:25	6.7	10.0	"	10.0		67.2	60-140			
Fluoranthene	5/29/24 10:25	6.1	2.2	"	10.0		60.6	43-121			
Fluorene	5/30/24 12:48	7.6	1.9	"	10.0		75.6	70-120			
Hexachlorobenzene	5/29/24 10:25	6.5	1.9	"	10.0		64.9	8-142			
Hexachlorobutadiene	5/30/24 12:48	4.5	0.9	"	10.0		45.2	38-120			
Hexachlorocyclopentadiene	5/29/24 10:25	1.4	2.3	"	10.0		14.2	60-140			CC-04, L2
Hexachloroethane	5/29/24 10:25	3.4	1.4	"	10.0		34.3	55-120			L2
Indeno (1,2,3-cd) pyrene	5/29/24 10:25	4.8	3.7	"	10.0		48.3	10-151			
Isophorone	5/29/24 10:25	6.0	2.2	"	10.0		60.3	47-180			
Naphthalene	5/29/24 10:25	4.6	1.6	"	10.0		45.9	36-120			
Nitrobenzene	5/30/24 12:48	5.9	1.9	"	10.0		59.1	54-158			
N-Nitrosodimethylamine	5/29/24 10:25	3.9	1.5	"	10.0		39.0	60-140			L2
N-Nitrosodi-n-propylamine	5/29/24 10:25	5.6	1.9	"	10.0		56.2	14-198			
N-Nitrosodiphenylamine	5/29/24 10:25	8.8	1.9	"	10.0		88.3	60-140			
Phenanthrene	5/29/24 10:25	6.3	5.4	"	10.0		63.3	65-120			L2
Pyrene	5/29/24 10:25	8.5	1.9	"	10.0		84.6	70-120			
1,2,4-Trichlorobenzene	5/29/24 10:25	6.4	1.9	"	10.0		64.1	57-130			
Surrogate: 2,4,6-Tribromophenol		*6.94*		"	*10.0*		*69.4*	*21.1-140*			
Surrogate: 2-Fluorobiphenyl		*2.94*		"	*5.00*		*58.8*	*10.8-140*			
Surrogate: 2-Fluorophenol		*3.69*		"	*10.0*		*36.9*	*10-140*			
Surrogate: Nitrobenzene-d5		*3.18*		"	*5.00*		*63.6*	*46-219*			
Surrogate: Phenol-d5		*4.95*		"	*10.0*		*49.5*	*48-208*			
Surrogate: Terphenyl-dl4		*3.85*		"	*5.00*		*77.0*	*10-140*			

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06/07/2024 14:24

Acid and Base/Neutral Extractables by EPA Method 625.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4E28034 - EPA 3510C DCN 4000 Rev 12											
LCS Dup (4E28034-BSD1)											
2-Chlorophenol	5/29/24 11:00	8.0	3.3	ug/L	10.0		80.2	38-120	11.0	200	
2,4-Dichlorophenol	5/29/24 11:00	6.9	2.7	"	10.0		68.8	53-122	17.2	200	
2,4-Dimethylphenol	5/29/24 11:00	7.1	2.7	"	10.0		70.9	42-120	20.4	200	
4,6-Dinitro-o-cresol	5/29/24 11:00	9.1	3.3	"	10.0		90.8	53-130	23.0	200	
2,4-Dinitrophenol	5/29/24 11:00	4.8	5.0	"	10.0		48.1	10-173	55.5	200	
2-Nitrophenol	5/29/24 11:00	8.7	3.6	"	10.0		87.3	45-167	16.2	200	
4-Nitrophenol	5/29/24 11:00	1.9	2.4	"	10.0		18.6	13-129	8.99	200	
p-Chloro-m-cresol	5/29/24 11:00	7.6	3.0	"	10.0		75.9	41-128	19.8	200	
Pentachlorophenol	5/29/24 11:00	4.9	3.6	"	10.0		49.3	38-152	2.01	200	
Phenol	5/29/24 11:00	2.9	1.5	"	10.0		29.4	17-120	24.9	200	
2,4,6-Trichlorophenol	5/29/24 11:00	7.0	2.7	"	10.0		70.2	52-129	12.4	200	
Acenaphthene	5/29/24 11:00	5.9	1.9	"	10.0		58.8	60-132	15.5	200	L2
Acenaphthylene	5/29/24 11:00	6.5	3.5	"	10.0		64.9	54-126	9.52	200	
Anthracene	5/29/24 11:00	6.5	1.9	"	10.0		65.2	43-120	4.71	200	
Benzo (a) anthracene	5/29/24 11:00	7.2	7.8	"	10.0		71.6	42-133	18.0	200	
Benzo (a) pyrene	5/29/24 11:00	7.2	2.5	"	10.0		71.8	32-148	16.1	200	
3,4-Benzo-fluoranthene	5/29/24 11:00	7.8	4.8	"	10.0		77.6	42-140	9.31	200	
Benzo (g,h,i) perylene	5/29/24 11:00	6.7	4.1	"	10.0		67.0	10-195	30.6	200	
Benzo (k) fluoranthene	5/29/24 11:00	8.0	2.5	"	10.0		80.3	25-146	2.34	200	
Bis(2-chloroethoxy)methane	5/29/24 11:00	6.9	5.3	"	10.0		69.4	49-165	17.6	200	
Bis(2-chloroethyl)ether	5/29/24 11:00	8.5	5.7	"	10.0		85.1	43-126	17.0	200	
Bis(2-chloroisopropyl)ether	5/29/24 11:00	5.2	5.7	"	10.0		51.5	63-139	7.04	200	L2
Bis(2-ethylhexyl)phthalate	5/29/24 11:00	8.3	2.5	"	10.0		83.1	29-137	12.0	200	
4-Bromophenyl phenyl ether	5/29/24 11:00	6.1	1.9	"	10.0		60.5	65-120	2.29	200	L2
Butyl benzyl phthalate	5/29/24 11:00	8.6	2.5	"	10.0		86.1	10-140	3.91	200	
2-Chloronaphthalene	5/29/24 11:00	5.2	1.9	"	10.0		52.1	65-120	9.24	200	L2
4-Chlorophenyl phenyl ether	5/29/24 11:00	6.1	4.2	"	10.0		61.1	38-145	6.77	200	
Chrysene	5/29/24 11:00	7.5	2.5	"	10.0		74.6	44-140	9.70	200	
Dibenz (a,h) anthracene	5/29/24 11:00	6.2	2.5	"	10.0		61.7	10-200	37.3	200	
1,2-Dichlorobenzene	5/29/24 11:00	5.3	1.9	"	10.0		52.7	60-140	8.30	200	L2
1,3-Dichlorobenzene	5/29/24 11:00	4.4	1.9	"	10.0		43.6	60-140	6.64	200	L2
1,4-Dichlorobenzene	5/29/24 11:00	4.4	4.4	"	10.0		43.7	60-140	7.11	200	L2
Diethyl phthalate	5/29/24 11:00	7.2	1.9	"	10.0		72.1	10-120	13.2	200	
Dimethyl phthalate	5/29/24 11:00	7.6	1.6	"	10.0		76.0	10-120	13.8	200	
Di-n-butyl phthalate	5/29/24 11:00	8.9	2.5	"	10.0		88.6	8-120	7.08	200	
2,4-Dinitrotoluene	5/29/24 11:00	8.8	5.7	"	10.0		87.9	48-127	19.1	200	
2,6-Dinitrotoluene	5/29/24 11:00	8.4	1.9	"	10.0		84.0	68-137	10.9	200	
Di-n-octyl phthalate	5/29/24 11:00	8.9	2.5	"	10.0		88.6	19-132	7.08	200	
1,2-Diphenylhydrazine as Azobenzene	5/29/24 11:00	7.7	10.0	"	10.0		77.1	60-140	13.7	200	
Fluoranthene	5/29/24 11:00	7.2	2.2	"	10.0		71.6	43-121	16.6	200	
Fluorene	5/30/24 13:24	7.4	1.9	"	10.0		73.8	70-120	2.41	200	
Hexachlorobenzene	5/29/24 11:00	6.5	1.9	"	10.0		64.5	8-142	0.618	200	
Hexachlorobutadiene	5/30/24 13:24	4.7	0.9	"	10.0		47.2	38-120	4.33	200	
Hexachlorocyclopentadiene	5/29/24 11:00	2.8	2.3	"	10.0		27.7	60-140	64.4	200	CC-04, L2
Hexachloroethane	5/29/24 11:00	3.7	1.4	"	10.0		37.1	55-120	7.84	200	L2

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City of Chickasaw
224 Grant Street
Mobile AL, 36611

Project: Permit Renewal
Project Number: Permit Renewal
Project Manager: Brock Jones

Reported:
06/07/2024 14:24

Acid and Base/Neutral Extractables by EPA Method 625.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4E28034 - EPA 3510C DCN 4000 Rev 12											
LCS Dup (4E28034-BSD1)											
Indeno (1,2,3-cd) pyrene	5/29/24 11:00	6.7	3.7	ug/L	10.0		67.4	10-151	33.0	200	
Isophorone	5/29/24 11:00	7.0	2.2	"	10.0		69.6	47-180	14.3	200	
Naphthalene	5/29/24 11:00	5.1	1.6	"	10.0		51.0	36-120	10.5	200	
Nitrobenzene	5/29/24 11:00	6.4	1.9	"	10.0		63.5	54-158	7.18	200	
N-Nitrosodimethylamine	5/29/24 11:00	4.7	1.5	"	10.0		46.9	60-140	18.4	200	L2
N-Nitrosodi-n-propylamine	5/29/24 11:00	6.5	1.9	"	10.0		64.8	14-198	14.2	200	
N-Nitrosodiphenylamine	5/29/24 11:00	9.0	1.9	"	10.0		89.7	60-140	1.57	200	
Phenanthrene	5/29/24 11:00	6.7	5.4	"	10.0		66.6	65-120	5.08	200	
Pyrene	5/29/24 11:00	7.9	1.9	"	10.0		78.9	70-120	6.97	200	
1,2,4-Trichlorobenzene	5/29/24 11:00	7.5	1.9	"	10.0		74.8	57-130	15.4	200	
Surrogate: 2,4,6-Tribromophenol		*8.15*		"	*10.0*		*81.5*	*21.1-140*			
Surrogate: 2-Fluorobiphenyl		*3.19*		"	*5.00*		*63.8*	*10.8-140*			
Surrogate: 2-Fluorophenol		*4.51*		"	*10.0*		*45.1*	*10-140*			
Surrogate: Nitrobenzene-d5		*3.64*		"	*5.00*		*72.8*	*46-219*			
Surrogate: Phenol-d5		*5.02*		"	*10.0*		*50.2*	*48-208*			
Surrogate: Terphenyl-dl4		*3.70*		"	*5.00*		*74.0*	*10-140*			
Duplicate (4E28034-DUP1)					**Source: 2405433-01**						
2-Chlorophenol	5/29/24 15:43	ND	3.3	ug/L		ND				45	
2,4-Dichlorophenol	5/29/24 15:43	ND	2.7	"		ND				45	
2,4-Dimethylphenol	5/29/24 15:43	ND	2.7	"		ND				45	
4,6-Dinitro-o-cresol	5/29/24 15:43	ND	3.3	"		ND				45	
2,4-Dinitrophenol	5/29/24 15:43	ND	5.1	"		ND				45	
2-Nitrophenol	5/29/24 15:43	ND	3.6	"		ND				45	
4-Nitrophenol	5/29/24 15:43	ND	2.4	"		ND				45	
p-Chloro-m-cresol	5/29/24 15:43	ND	3.0	"		ND				45	
Pentachlorophenol	5/29/24 15:43	ND	3.6	"		ND				45	
Phenol	5/29/24 15:43	ND	1.5	"		ND				45	
2,4,6-Trichlorophenol	5/29/24 15:43	ND	2.7	"		ND				45	
Acenaphthene	5/29/24 15:43	ND	1.9	"		ND				45	
Acenaphthylene	5/29/24 15:43	ND	3.5	"		ND				45	
Anthracene	5/29/24 15:43	ND	1.9	"		ND				45	
Benzidine	5/29/24 15:43	ND	15.2	"		ND				45	
Benzo (a) anthracene	5/29/24 15:43	ND	7.9	"		ND				45	
Benzo (a) pyrene	5/29/24 15:43	ND	2.5	"		ND				45	
3,4-Benzo-fluoranthene	5/29/24 15:43	ND	4.8	"		ND				45	
Benzo (g,h,i) perylene	5/29/24 15:43	ND	4.1	"		ND				45	
Benzo (k) fluoranthene	5/29/24 15:43	ND	2.5	"		ND				45	
Bis(2-chloroethoxy)methane	5/29/24 15:43	ND	5.4	"		ND				45	
Bis(2-chloroethyl)ether	5/29/24 15:43	ND	5.8	"		ND				45	
Bis(2-chloroisopropyl)ether	5/29/24 15:43	ND	5.8	"		ND				45	
Bis(2-ethylhexyl)phthalate	5/29/24 15:43	ND	2.5	"		ND				45	
4-Bromophenyl phenyl ether	5/29/24 15:43	ND	1.9	"		ND				45	
Butyl benzyl phthalate	5/29/24 15:43	ND	2.5	"		ND				45	

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Reported:
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Acid and Base/Neutral Extractables by EPA Method 625.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4E28034 - EPA 3510C DCN 4000 Rev 12											
Duplicate (4E28034-DUP1)			**Source: 2405433-01**								
2-Chloronaphthalene	5/29/24 15:43	ND	1.9	ug/L		ND				45	
4-Chlorophenyl phenyl ether	5/29/24 15:43	ND	4.2	"		ND				45	
Chrysene	5/29/24 15:43	ND	2.5	"		ND				45	
Dibenz (a,h) anthracene	5/29/24 15:43	ND	2.5	"		ND				45	
1,2-Dichlorobenzene	5/29/24 15:43	ND	1.9	"		ND				45	
1,3-Dichlorobenzene	5/29/24 15:43	ND	1.9	"		ND				45	
1,4-Dichlorobenzene	5/29/24 15:43	ND	4.4	"		ND				45	
3,3'-Dichlorobenzidine	5/29/24 15:43	ND	5.1	"		ND				45	
Diethyl phthalate	5/29/24 15:43	ND	1.9	"		ND				45	
Dimethyl phthalate	5/29/24 15:43	ND	1.6	"		ND				45	
Di-n-butyl phthalate	5/29/24 15:43	ND	2.5	"		ND				45	
2,4-Dinitrotoluene	5/29/24 15:43	ND	5.8	"		ND				45	
2,6-Dinitrotoluene	5/29/24 15:43	ND	1.9	"		ND				45	
Di-n-octyl phthalate	5/29/24 15:43	ND	2.5	"		ND				45	
1,2-Diphenylhydrazine as Azobenzene	5/29/24 15:43	ND	10.1	"		ND				45	
Fluoranthene	5/29/24 15:43	ND	2.2	"		ND				45	
Fluorene	5/29/24 15:43	ND	1.9	"		ND				45	
Hexachlorobenzene	5/29/24 15:43	ND	1.9	"		ND				45	
Hexachlorobutadiene	5/29/24 15:43	ND	0.9	"		ND				45	
Hexachlorocyclopentadiene	5/29/24 15:43	ND	2.4	"		ND				45	CC-01
Hexachloroethane	5/29/24 15:43	ND	1.4	"		ND				45	
Indeno (1,2,3-cd) pyrene	5/29/24 15:43	ND	3.7	"		ND				45	
Isophorone	5/29/24 15:43	ND	2.2	"		ND				45	
Naphthalene	5/29/24 15:43	ND	1.6	"		ND				45	
Nitrobenzene	5/29/24 15:43	ND	1.9	"		ND				45	
N-Nitrosodimethylamine	5/29/24 15:43	ND	1.5	"		ND				45	
N-Nitrosodi-n-propylamine	5/29/24 15:43	ND	1.9	"		ND				45	
N-Nitrosodiphenylamine	5/29/24 15:43	ND	1.9	"		ND				45	
Phenanthrene	5/29/24 15:43	ND	5.5	"		ND				45	
Pyrene	5/29/24 15:43	ND	1.9	"		ND				45	
1,2,4-Trichlorobenzene	5/29/24 15:43	3.5	1.9	"		2.6			29.2	45	
Surrogate: 2,4,6-Tribromophenol		*8.83*		*"*	*10.1*		*87.4*	*19.6-127*			
Surrogate: 2-Fluorobiphenyl		*2.61*		*"*	*5.05*		*51.6*	*13.3-104*			
Surrogate: 2-Fluorophenol		*2.01*		*"*	*10.1*		*19.9*	*11.4-100*			
Surrogate: Nitrobenzene-d5		*1.98*		*"*	*5.05*		*39.2*	*10-100*			
Surrogate: Phenol-d5		*1.79*		*"*	*10.1*		*17.7*	*10-100*			
Surrogate: Terphenyl-dl4		*2.22*		*"*	*5.05*		*44.0*	*10-116*			

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Project Manager: Brock Jones

Reported:
06/07/2024 14:24

Acid and Base/Neutral Extractables by EPA Method 625.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4E28034 - EPA 3510C DCN 4000 Rev 12											
Duplicate (4E28034-DUP2)			**Source: 2405433-01**								
2-Chlorophenol	5/29/24 15:08	ND	3.4	ug/L		ND				45	
2,4-Dichlorophenol	5/29/24 15:08	ND	2.7	"		ND				45	
2,4-Dimethylphenol	5/29/24 15:08	ND	2.7	"		ND				45	
4,6-Dinitro-o-cresol	5/29/24 15:08	ND	3.3	"		ND				45	
2,4-Dinitrophenol	5/29/24 15:08	ND	5.1	"		ND				45	
2-Nitrophenol	5/29/24 15:08	ND	3.7	"		ND				45	
4-Nitrophenol	5/29/24 15:08	ND	2.4	"		ND				45	
p-Chloro-m-cresol	5/29/24 15:08	ND	3.0	"		ND				45	
Pentachlorophenol	5/29/24 15:08	ND	3.7	"		ND				45	
Phenol	5/29/24 15:08	ND	1.5	"		ND				45	
2,4,6-Trichlorophenol	5/29/24 15:08	ND	2.7	"		ND				45	
Acenaphthene	5/29/24 15:08	ND	1.9	"		ND				45	
Acenaphthylene	5/29/24 15:08	ND	3.6	"		ND				45	
Anthracene	5/29/24 15:08	ND	1.9	"		ND				45	
Benzidine	5/29/24 15:08	ND	15.2	"		ND				45	
Benzo (a) anthracene	5/29/24 15:08	ND	7.9	"		ND				45	
Benzo (a) pyrene	5/29/24 15:08	ND	2.5	"		ND				45	
3,4-Benzo-fluoranthene	5/29/24 15:08	ND	4.9	"		ND				45	
Benzo (g,h,i) perylene	5/29/24 15:08	ND	4.2	"		ND				45	
Benzo (k) fluoranthene	5/29/24 15:08	ND	2.5	"		ND				45	
Bis(2-chloroethoxy)methane	5/29/24 15:08	ND	5.4	"		ND				45	
Bis(2-chloroethyl)ether	5/29/24 15:08	ND	5.8	"		ND				45	
Bis(2-chloroisopropyl)ether	5/29/24 15:08	ND	5.8	"		ND				45	
Bis(2-ethylhexyl)phthalate	5/29/24 15:08	ND	2.5	"		ND				45	
4-Bromophenyl phenyl ether	5/29/24 15:08	ND	1.9	"		ND				45	
Butyl benzyl phthalate	5/29/24 15:08	ND	2.5	"		ND				45	
2-Chloronaphthalene	5/29/24 15:08	ND	1.9	"		ND				45	
4-Chlorophenyl phenyl ether	5/29/24 15:08	ND	4.3	"		ND				45	
Chrysene	5/29/24 15:08	ND	2.5	"		ND				45	
Dibenz (a,h) anthracene	5/29/24 15:08	ND	2.5	"		ND				45	
1,2-Dichlorobenzene	5/29/24 15:08	ND	1.9	"		ND				45	
1,3-Dichlorobenzene	5/29/24 15:08	ND	1.9	"		ND				45	
1,4-Dichlorobenzene	5/29/24 15:08	ND	4.5	"		ND				45	
3,3'-Dichlorobenzidine	5/29/24 15:08	ND	5.1	"		ND				45	
Diethyl phthalate	5/29/24 15:08	ND	1.9	"		ND				45	
Dimethyl phthalate	5/29/24 15:08	ND	1.6	"		ND				45	
Di-n-butyl phthalate	5/29/24 15:08	ND	2.5	"		ND				45	
2,4-Dinitrotoluene	5/29/24 15:08	ND	5.8	"		ND				45	
2,6-Dinitrotoluene	5/29/24 15:08	ND	1.9	"		ND				45	
Di-n-octyl phthalate	5/29/24 15:08	ND	2.5	"		ND				45	
1,2-Diphenylhydrazine as Azobenzene	5/29/24 15:08	ND	10.2	"		ND				45	
Fluoranthene	5/29/24 15:08	ND	2.2	"		ND				45	
Fluorene	5/29/24 15:08	ND	1.9	"		ND				45	
Hexachlorobenzene	5/29/24 15:08	ND	1.9	"		ND				45	
Hexachlorobutadiene	5/29/24 15:08	ND	0.9	"		ND				45	

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Acid and Base/Neutral Extractables by EPA Method 625.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4E28034 - EPA 3510C DCN 4000 Rev 12											
Duplicate (4E28034-DUP2)			**Source: 2405433-01**								
Hexachlorocyclopentadiene	5/29/24 15:08	ND	2.4	ug/L		ND				45	CC-01
Hexachloroethane	5/29/24 15:08	ND	1.4	"		ND				45	
Indeno (1,2,3-cd) pyrene	5/29/24 15:08	ND	3.8	"		ND				45	
Isophorone	5/29/24 15:08	ND	2.2	"		ND				45	
Naphthalene	5/29/24 15:08	ND	1.6	"		ND				45	
Nitrobenzene	5/29/24 15:08	ND	1.9	"		ND				45	
N-Nitrosodimethylamine	5/29/24 15:08	ND	1.5	"		ND				45	
N-Nitrosodi-n-propylamine	5/29/24 15:08	ND	2.0	"		ND				45	
N-Nitrosodiphenylamine	5/29/24 15:08	ND	1.9	"		ND				45	
Phenanthrene	5/29/24 15:08	ND	5.5	"		ND				45	
Pyrene	5/29/24 15:08	ND	1.9	"		ND				45	
1,2,4-Trichlorobenzene	5/29/24 15:08	3.1	1.9	"		2.6			17.4	45	
Surrogate: 2,4,6-Tribromophenol		*7.52*		"	*10.2*		*74.1*	*19.6-127*			
Surrogate: 2-Fluorobiphenyl		*2.40*		"	*5.08*		*47.2*	*13.3-104*			
Surrogate: 2-Fluorophenol		*2.05*		"	*10.2*		*20.2*	*11.4-100*			
Surrogate: Nitrobenzene-d5		*1.82*		"	*5.08*		*35.8*	*10-100*			
Surrogate: Phenol-d5		*1.60*		"	*10.2*		*15.8*	*10-100*			
Surrogate: Terphenyl-dl4		*1.71*		"	*5.08*		*33.6*	*10-116*			

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Reported:
06/07/2024 14:24

Purgeables by EPA Method 624.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4F04039 - EPA 624.1											
Blank (4F04039-BLK1)											
Acrolein	6/5/24 13:06	ND	10.0	ug/L							
Acrylonitrile	6/3/24 13:16	ND	5.00	"							
Benzene	6/3/24 13:16	ND	3.50	"							
Bromoform	6/3/24 13:16	ND	4.70	"							
Carbon Tetrachloride	6/3/24 13:16	ND	2.80	"							
Chlorobenzene	6/3/24 13:16	ND	3.21	"							
Chlorodibromomethane	6/3/24 13:16	ND	3.10	"							
Chloroethane	6/3/24 13:16	ND	3.88	"							
2-Chloroethylvinyl ether	6/3/24 13:16	ND	10.0	"							
Chloroform	6/3/24 13:16	ND	1.60	"							
Dichlorobromomethane	6/3/24 13:16	ND	2.20	"							
1,1-Dichloroethane	6/3/24 13:16	ND	3.42	"							
1,2-Dichloroethane	6/3/24 13:16	ND	2.80	"							
1,1-Dichloroethylene	6/3/24 13:16	ND	2.80	"							
1,2-Dichloropropane	6/3/24 13:16	ND	2.92	"							
cis-1,3-Dichloropropylene	6/3/24 13:16	ND	3.87	"							
trans-1,3-Dichloropropylene	6/3/24 13:16	ND	2.78	"							
Ethylbenzene	6/3/24 13:16	ND	4.10	"							
Methyl Bromide	6/3/24 13:16	ND	4.35	"							
Methyl Chloride	6/3/24 13:16	ND	4.61	"							
Methylene chloride	6/3/24 13:16	ND	2.77	"							
1,1,2,2-Tetrachloroethane	6/3/24 13:16	ND	4.13	"							
Tetrachloroethylene	6/3/24 13:16	ND	4.10	"							
Toluene	6/3/24 13:16	ND	4.46	"							
trans-1,2-Dichloroethylene	6/3/24 13:16	ND	1.60	"							
1,1,1-Trichloroethane	6/3/24 13:16	ND	2.93	"							
1,1,2-Trichloroethane	6/3/24 13:16	ND	3.66	"							
Trichloroethylene	6/3/24 13:16	ND	1.90	"							
Vinyl chloride	6/3/24 13:16	ND	3.74	"							
Surrogate: Dibromofluoromethane		*52.1*		"	*50.0*		*104*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4		*50.2*		"	*50.0*		*100*	*70-130*			
Surrogate: Toluene-d8		*48.3*		"	*50.0*		*96.6*	*70-130*			
Surrogate: 4-Bromofluorobenzene		*50.7*		"	*50.0*		*101*	*70-130*			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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06/07/2024 14:24

Purgeables by EPA Method 624.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4F04039 - EPA 624.1											
LCS (4F04039-BS1)											
Acrolein	6/5/24 11:12	30.7	10.0	ug/L	25.0		123	60-140			
Acrylonitrile	6/3/24 12:15	26.4	5.00	"	25.0		106	60-140			
Benzene	6/3/24 12:15	25.3	3.50	"	25.0		101	65-135			
Bromoform	6/3/24 12:15	25.3	4.70	"	25.0		101	70-130			
Carbon Tetrachloride	6/3/24 12:15	24.3	2.80	"	25.0		97.2	70-130			
Chlorobenzene	6/3/24 12:15	23.5	3.21	"	25.0		94.0	65-135			
Chlorodibromomethane	6/3/24 12:15	27.9	3.10	"	25.0		112	70-135			
Chloroethane	6/3/24 12:15	20.8	3.88	"	25.0		83.2	40-160			
2-Chloroethylvinyl ether	6/3/24 12:15	35.1	10.0	"	25.0		140	5-225			
Chloroform	6/3/24 12:15	26.0	1.60	"	25.0		104	70-135			
Dichlorobromomethane	6/3/24 12:15	28.3	2.20	"	25.0		113	65-135			
1,1-Dichloroethane	6/3/24 12:15	25.6	3.42	"	25.0		103	70-130			
1,2-Dichloroethane	6/3/24 12:15	27.3	2.80	"	25.0		109	70-130			
1,1-Dichloroethylene	6/3/24 12:15	24.6	2.80	"	25.0		98.5	50-150			
1,2-Dichloropropane	6/3/24 12:15	26.7	2.92	"	25.0		107	35-165			
cis-1,3-Dichloropropylene	6/3/24 12:15	27.4	3.87	"	25.0		110	25-175			
trans-1,3-Dichloropropylene	6/3/24 12:15	27.9	2.78	"	25.0		112	50-150			
Ethylbenzene	6/3/24 12:15	23.8	4.10	"	25.0		95.3	60-140			
Methyl Bromide	6/3/24 12:15	29.4	4.35	"	25.0		118	15-185			
Methyl Chloride	6/3/24 12:15	27.3	4.61	"	25.0		109	5-205			
Methylene chloride	6/3/24 12:15	24.9	2.77	"	25.0		99.6	60-140			
1,1,2,2-Tetrachloroethane	6/3/24 12:15	26.6	4.13	"	25.0		106	60-140			
Tetrachloroethylene	6/3/24 12:15	24.6	4.10	"	25.0		98.4	70-130			
Toluene	6/3/24 12:15	23.5	4.46	"	25.0		94.1	70-130			
trans-1,2-Dichloroethylene	6/3/24 12:15	25.4	1.60	"	25.0		101	70-130			
1,1,1-Trichloroethane	6/3/24 12:15	26.1	2.93	"	25.0		104	70-130			
1,1,2-Trichloroethane	6/3/24 12:15	29.3	3.66	"	25.0		117	70-130			
Trichloroethylene	6/3/24 12:15	25.8	1.90	"	25.0		103	65-135			
Vinyl chloride	6/3/24 12:15	26.7	3.74	"	25.0		107	5-195			
Surrogate: Dibromofluoromethane		*53.0*		"	*50.0*		*106*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4		*52.0*		"	*50.0*		*104*	*70-130*			
Surrogate: Toluene-d8		*47.3*		"	*50.0*		*94.7*	*70-130*			
Surrogate: 4-Bromofluorobenzene		*50.5*		"	*50.0*		*101*	*70-130*			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

City of Chickasaw
224 Grant Street
Mobile AL, 36611

Project: Permit Renewal
Project Number: Permit Renewal
Project Manager: Brock Jones

Reported:
06/07/2024 14:24

Purgeables by EPA Method 624.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4F04039 - EPA 624.1											
Matrix Spike (4F04039-MS1)				Source: 2405453-01							
Acrolein	6/5/24 13:54	25.9	10.0	ug/L	25.0	ND	103	40-160			
Acrylonitrile	6/3/24 15:05	36.9	5.00	"	25.0	ND	147	40-160			
Benzene	6/3/24 15:05	35.2	3.50	"	25.0	ND	141	37-151			
Bromoform	6/3/24 15:05	38.1	4.70	"	25.0	ND	152	45-169			
Carbon Tetrachloride	6/3/24 15:05	33.1	2.80	"	25.0	ND	132	70-140			
Chlorobenzene	6/3/24 15:05	32.7	3.21	"	25.0	ND	131	37-160			
Chlorodibromomethane	6/3/24 15:05	42.1	3.10	"	25.0	ND	168	53-149			M1
Chloroethane	6/3/24 15:05	27.1	3.88	"	25.0	ND	108	14-230			
2-Chloroethylvinyl ether	6/3/24 15:05	31.6	10.0	"	25.0	ND	126	5-305			
Chloroform	6/3/24 15:05	38.7	1.60	"	25.0	2.42	145	51-138			M1
Dichlorobromomethane	6/3/24 15:05	41.8	2.20	"	25.0	ND	167	35-155			M1
1,1-Dichloroethane	6/3/24 15:05	35.5	3.42	"	25.0	ND	142	59-155			
1,2-Dichloroethane	6/3/24 15:05	40.7	2.80	"	25.0	ND	163	49-155			M1
1,1-Dichloroethylene	6/3/24 15:05	33.1	2.80	"	25.0	ND	132	5-234			
1,2-Dichloropropane	6/3/24 15:05	38.4	2.92	"	25.0	ND	153	5-210			
cis-1,3-Dichloropropylene	6/3/24 15:05	40.5	3.87	"	25.0	ND	162	5-227			
trans-1,3-Dichloropropylene	6/3/24 15:05	42.2	2.78	"	25.0	ND	169	17-183			
Ethylbenzene	6/3/24 15:05	32.8	4.10	"	25.0	ND	131	37-162			
Methyl Bromide	6/3/24 15:05	37.1	4.35	"	25.0	ND	149	5-242			
Methyl Chloride	6/3/24 15:05	40.7	4.61	"	25.0	ND	163	5-273			
Methylene chloride	6/3/24 15:05	34.0	2.77	"	25.0	ND	136	5-221			
1,1,2,2-Tetrachloroethane	6/3/24 15:05	40.9	4.13	"	25.0	ND	164	46-157			M1
Tetrachloroethylene	6/3/24 15:05	34.0	4.10	"	25.0	ND	136	64-148			
Toluene	6/3/24 15:05	33.1	4.46	"	25.0	ND	132	47-150			
trans-1,2-Dichloroethylene	6/3/24 15:05	34.8	1.60	"	25.0	ND	139	54-156			
1,1,1-Trichloroethane	6/3/24 15:05	35.5	2.93	"	25.0	ND	142	52-162			
1,1,2-Trichloroethane	6/3/24 15:05	44.3	3.66	"	25.0	ND	177	52-150			M1
Trichloroethylene	6/3/24 15:05	35.5	1.90	"	25.0	ND	142	70-157			
Vinyl chloride	6/3/24 15:05	36.4	3.74	"	25.0	ND	146	5-251			
Surrogate: Dibromofluoromethane		*53.8*		"	*50.0*		*108*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4		*52.7*		"	*50.0*		*105*	*70-130*			
Surrogate: Toluene-d8		*46.6*		"	*50.0*		*93.1*	*70-130*			
Surrogate: 4-Bromofluorobenzene		*52.5*		"	*50.0*		*105*	*70-130*			

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City of Chickasaw
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Project: Permit Renewal
Project Number: Permit Renewal
Project Manager: Brock Jones

Reported:
06/07/2024 14:24

Purgeables by EPA Method 624.1 - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4F04039 - EPA 624.1											
Matrix Spike Dup (4F04039-MSD1)			**Source: 2405453-01**								
Acrolein	6/5/24 14:19	28.7	10.0	ug/L	25.0	ND	115	40-160	10.4	60	
Acrylonitrile	6/3/24 15:33	25.9	5.00	"	25.0	ND	104	40-160	34.9	60	
Benzene	6/3/24 15:33	24.0	3.50	"	25.0	ND	95.9	37-151	38.0	61	
Bromoform	6/3/24 15:33	25.4	4.70	"	25.0	ND	102	45-169	40.0	42	
Carbon Tetrachloride	6/3/24 15:33	23.0	2.80	"	25.0	ND	92.2	70-140	35.9	41	
Chlorobenzene	6/3/24 15:33	22.4	3.21	"	25.0	ND	89.4	37-160	37.5	53	
Chlorodibromomethane	6/3/24 15:33	27.9	3.10	"	25.0	ND	111	53-149	40.6	50	
Chloroethane	6/3/24 15:33	19.5	3.88	"	25.0	ND	77.9	14-230	32.6	78	
2-Chloroethylvinyl ether	6/3/24 15:33	39.7	10.0	"	25.0	ND	159	5-305	22.6	71	
Chloroform	6/3/24 15:33	27.3	1.60	"	25.0	2.42	99.6	51-138	34.4	54	
Dichlorobromomethane	6/3/24 15:33	27.9	2.20	"	25.0	ND	112	35-155	39.9	56	
1,1-Dichloroethane	6/3/24 15:33	24.1	3.42	"	25.0	ND	96.6	59-155	38.1	40	
1,2-Dichloroethane	6/3/24 15:33	27.2	2.80	"	25.0	ND	109	49-155	39.8	49	
1,1-Dichloroethylene	6/3/24 15:33	22.5	2.80	"	25.0	ND	89.9	5-234	38.1	32	M3
1,2-Dichloropropane	6/3/24 15:33	26.3	2.92	"	25.0	ND	105	5-210	37.4	55	
cis-1,3-Dichloropropylene	6/3/24 15:33	27.1	3.87	"	25.0	ND	108	5-227	39.6	58	
trans-1,3-Dichloropropylene	6/3/24 15:33	27.6	2.78	"	25.0	ND	110	17-183	41.8	86	
Ethylbenzene	6/3/24 15:33	22.2	4.10	"	25.0	ND	88.6	37-162	38.7	63	
Methyl Bromide	6/3/24 15:33	26.2	4.35	"	25.0	ND	105	5-242	34.4	61	
Methyl Chloride	6/3/24 15:33	27.2	4.61	"	25.0	ND	109	5-273	39.9	60	
Methylene chloride	6/3/24 15:33	23.9	2.77	"	25.0	ND	95.5	5-221	35.1	28	M3
1,1,2,2-Tetrachloroethane	6/3/24 15:33	27.3	4.13	"	25.0	ND	109	46-157	39.8	61	
Tetrachloroethylene	6/3/24 15:33	22.9	4.10	"	25.0	ND	91.7	64-148	38.9	39	
Toluene	6/3/24 15:33	22.3	4.46	"	25.0	ND	89.4	47-150	38.8	41	
trans-1,2-Dichloroethylene	6/3/24 15:33	23.5	1.60	"	25.0	ND	94.1	54-156	38.5	45	
1,1,1-Trichloroethane	6/3/24 15:33	23.9	2.93	"	25.0	ND	95.5	52-162	39.2	36	M3
1,1,2-Trichloroethane	6/3/24 15:33	29.3	3.66	"	25.0	ND	117	52-150	40.9	45	
Trichloroethylene	6/3/24 15:33	23.9	1.90	"	25.0	ND	95.5	70-157	39.1	48	
Vinyl chloride	6/3/24 15:33	24.7	3.74	"	25.0	ND	98.9	5-251	38.3	66	
Surrogate: Dibromofluoromethane		*54.2*		"	*50.0*		*108*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4		*53.4*		"	*50.0*		*107*	*70-130*			
Surrogate: Toluene-d8		*47.1*		"	*50.0*		*94.2*	*70-130*			
Surrogate: 4-Bromofluorobenzene		*51.5*		"	*50.0*		*103*	*70-130*			

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MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

City of Chickasaw	Project: Permit Renewal	
224 Grant Street	Project Number: Permit Renewal	**Reported:**
Mobile AL, 36611	Project Manager: Brock Jones	06/07/2024 14:24

Certified Analyses Included in this Report

Analyte	Certification Code
EPA 420.1 1978 in Water	
Phenolics, Total	C01,C02
EPA 1664A in Water	
Oil & Grease (HEM)	C01,C02
EPA 200.8 Rev 5.4 in Water	
Aluminum [He]	C01,C02
Antimony [He]	C01,C02
Antimony [NG]	C01,C02
Arsenic [He]	C01,C02
Arsenic [NG]	C01,C02
Barium [He]	C01,C02
Beryllium [He]	C01,C02
Cadmium [He]	C01,C02
Cadmium [NG]	C01,C02
Chromium [He]	C01,C02
Cobalt [He]	C01,C02
Copper [He]	C01,C02
Copper [NG]	C01,C02
Iron [He]	C01,C02
Lead [He]	C01,C02
Lead [NG]	C01,C02
Manganese [He]	C01,C02
Molybdenum [He]	C01,C02
Nickel [He]	C01,C02
Selenium [He]	C01,C02
Selenium [NG]	C01,C02
Silver [He]	C01,C02
Silver [NG]	C01,C02
Strontium [He]	C01,C02
Thallium [He]	C01,C02
Vanadium [He]	C01,C02
Zinc [He]	C01,C02
SM 2340C-2011 in Water	
Hardness	C01,C02
Hardness (EDTA) as CaCO3	C01,C02
SM 2540 C-2015 in Water	
Total Dissolved Solids	C01,C02
SM 4500-CN E 2016 in Water	
Cyanide (total)	C01,C02

MICRO-METHODS LABORATORY, INC.

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City of Chickasaw 224 Grant Street Mobile AL, 36611	Project: Permit Renewal Project Number: Permit Renewal Project Manager: Brock Jones	**Reported:** 06/07/2024 14:24

****Only compounds included in this list are associated with accredited analyses****

MICRO-METHODS
LABORATORY, INC.

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228-875-6423 Fax

City of Chickasaw
224 Grant Street
Mobile AL, 36611

Project: Permit Renewal
Project Number: Permit Renewal
Project Manager: Brock Jones

Reported:
06/07/2024 14:24

Laboratory Accreditations/Certifications

Code	Description	Number	Expires
C01	LA Environmental Lab Accreditation Program	01960	06/30/2024
C02	The NELAC Institute (NELAP)	TNI01397	06/30/2024
C03	MS Dept of Health (Drinking Water Microbiology)	MS00021	12/31/2024
C04	MS Dept of Health (Drinking Water Chemistry)	MS00021	12/31/2024
C05	MS DEQ Lead Firm Certification	PBF-00000028	03/31/2024
C06	MSDEQ Asbestos Inspector : C.D. Bingham	ABI-00001348	02/09/2024
C07	MSDEQ Air Monitor : C.D. Bingham	AM-011572	02/10/2024
C08	MSDEQ Asbestos Inspector: C. W. Meins	ABI-00001821	09/09/2022
C09	MSDEQ Air Monitor : C.W. Meins	AM-011189	02/10/2024
C10	ADEM (Drinking Water Microbiology)	43500	12/31/2024
C11	ADEM (Drinking Water Chemistry)	43500	12/31/2024
C14	MSDEQ Lead Paint Inspector : C.D. Bingham	PBI-00003690	02/07/2024
C15	MSDEQ Lead Paint Inspector : C.W. Meins	PBI-00001740	02/07/2024

Report Definitions

TNC	Too Numerous To Count
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the minimum reporting limit
NR	Not Reported
RPD	Relative Percent Difference
ICV	Initial Calibration Verfiication
CCV	Continuing Calibration Verification Standard
SSV	Secondary Source Verfication Standard
LCS	Lab Control Spike - Lab matrix prepared with known concentration of analyte/s of interest analyzed by method.
MS	Matrix Spike - Sample prepared with known concentration of analyte/s of interest analyzed by method.
MSD	Matrix Spike Duplicate - Duplicate sample prepared with known concentration of analyte/s of interest analyzed by method.
MRL	Minimum Reporting Limit
%REC	Percentage Recovery of known concentration added to matrix
Batch	Group of samples prepared for analysis not to exceed 20 samples.
Matrix	Material containing analyte/s of interest
Surrogate	Analyte added to sample to determine extraction efficiency of method.

MICRO-METHODS LABORATORY, INC.

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City of Chickasaw	Project: Permit Renewal	
224 Grant Street	Project Number: Permit Renewal	**Reported:**
Mobile AL, 36611	Project Manager: Brock Jones	06/07/2024 14:24

Analyst Initials Key

FullName	Initials
Brett S Fore	BSF
Clifford W. Meins	CWM
Christa R Gray	CRG
Christina L Vorhoff	CRLV
Dortha L. Wells	DLW
Jeremy Broussard	JLB
Robert W McBeth	RWM
Sarah E. Tomek	SET
Samantha C. Hall	SCH
Teresa Meins	TKM
Tina Tomek	TPT

MICRO-METHODS LABORATORY, INC.
PO Box 1410, Ocean Springs, MS 39566-1410
(228) 875-6420 FAX (228) 875-6423
www.micromethodslab.com

Chain of Custody Record

Lab ID# MS00021
LELAP ID # 01960
TNI ID # TNI01397

Print Form

M-M Lab WO # 2405453

Company Name: City of Chickasaw	Project Manager: Chuck Starling
Address: 224 N. Craft Hwy	Purchase Order #:
City: Chickasaw State: AL Zip: 36611	Email Address: chuck.starling@kimley-horn.com
Phone: 251-751-2527	Sampler Name Printed: Clifford MEINS
Fax:	Sampler Name Signed: Clifford Meins

Turn Around Time & Reporting
Our normal turn around time is 10 working days
__Normal __Next Day* __2nd Day* __Other*_____
*All rush order requests must be prior approved.
__Phone __Mail __Fax __Email
QC Level: Level 1 ☐ Level 2 ☐ Level 3 ☐

Project Name: Permit Renewal
Project #:

List Analyses Requested

Sample Identification	Sampling Date/Time	Matrix Code	# of Containers	Grab (G) or Composite (C)	Oil & Grease (1)	625 SVOC's (9)	624 VOC's (9)	Cyanide (3)	Phenol (1)	Total Hardness	TDS	Metals* (6)
Effluent	5/22/24 1000	W	12	G	X	X	X					
Effluent	5/22/24 1010	W	4	C				X	X	X	X	X
Trip Blank TBV# 7406	5/22/24 1000	W	4	G			X					

*Metals: Sb, As, Be, Cd, Cr, Cu, Pb, Ni, Se, Ag, Tl, Zn

Field Testing

ID#	ID#	ID#	ID#
Field Test	Field Test	Field Test	Field Test

Matrix:
W = Water
DW = Drinking Water
S = Solid
SO = Soil
SE = Sediment
L = Liquid
A = Air
O = Oil
SL = Sludge

Preservation:
1= H2SO4
2= H3PO4
3=NaOH
4=ZnC4H10O6
5=ZnC4H10O6 & NaOH
6=HNO3
7=Na2S2O3
8=HCl
9=NaHSO4

Received on Ice? (Y) N Thermometer# 58 Cooler # 529 Receipt Temp Corrected(°C) 5.4°C
Date & Time _____ By: BT Sample X Blank ____ Cooler ____
All Temps are Corrected Values

	Printed Name	Signature	Company	Date	Time
Relinquished by	Clifford MEINS	Clifford Meins	Micro Methods	5/22/24	1550
Received by	Sarah Tomek	Sarah Tomek	MM	5/22/24	1550
Relinquished by					
Received by					
Relinquished by					
Received by					

Notes:

DCN F316 Rev.6
MicroMethods Laboratory
Issued/Revised 6/15/22

MICRO-METHODS LABORATORY, INC.

Mailing Address:
PO Box 1410
Ocean Springs, MS
39566-1410

6500 Sunplex Drive
Ocean Springs, MS 39564
228.875.6420 Phone
228.875.6423 Fax

January 25, 2024

Chuck Starling

Work Order # : 2401310

City of Chickasaw
224 Grant Street
Mobile, AL 36611

Purchase Order #:

RE: Yearly Low Level Mercury

Enclosed are results of analyses performed on samples received 01/18/2024 13:30. If you have any questions concerning this report, please feel free to contact the office.

Sincerely,

Mitch Spicer

Lab Director
Micro-Methods Laboratory, Inc.

NELAP ACCREDITED TNI LABORATORY

RECEIVED
SEP 03 2026
IND/MUN BRANCH
WATER DIVISION

DISCLAIMER

The results only relate to the items or the sample and/or samples received by the laboratory. This report shall not be reproduced except in full, without the approval of the laboratory. All NELAP certified test methods performed meet the requirements of NELAC 2009 Standards. Any variances and/or deviations specific to this analytical report are referenced in the lab report using qualifiers and detailed explanations found in the case narrative.

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Project:
Project Number:
Project Manager:

Reported:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date/Time Sampled	Sampled by	Date/Time Received

Sample Receipt Conditions

Date/Time Received: 1/18/2024 1:30:00PM
Received by: Sarah E. Tomek
Date/Time Logged: 1/18/2024 2:01:00PM
Cooler ID: Waypoint cooler

Shipped by: Lab Pick-up
Submitted by: Malcolm H Burton
Logged by: Sarah E. Tomek
Receipt Temperature: °C

Cooler Custody Seals Present	No	*Received on Ice but Not Frozen*	No
Containers Intact	Yes	*No Ice, Short Trip*	No
COC/Labels Agree	Yes	*Obvious Contamination*	No
Labels Complete	No	*Rush to meet HT*	No
COC Complete	Yes	*Received within HT*	Yes
Volatile Vial Headspace >6mm	No	*Proper Containers for Analysis*	Yes
Field Sheet/Instructions Included	No	*Correct Preservation*	Yes
Samples Rejected/Documented in Log	No	*Adequate Sample for Analysis*	Yes
Temp Taken From Temp Blank	No	*Sample Custody Seals Present*	No
Temp Taken From Sample Container	No	*Samples Missing from COC/Cooler*	No
Temp Taken From Cooler	No		
COC meets acceptance criteria	Yes		

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SEP 03 2026
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WATER DIVISION

MICRO-METHODS
LABORATORY, INC.

6500 Sunplex Drive
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228-875-6420 Phone
228-875-6423 Fax

Project:	
Project Number:	**Reported:**
Project Manager:	

CASE NARRATIVE SUMMARY

All reported results are within Micro-Methods Laboratory, Inc.defined laboratory quality control objectives unless detailed in narrative summary or identified as qualifications. NOTE: All results listed on this report are calculated on a wet weight basis (as received by the laboratory) unless otherwise noted in the analysis qualification sections.

Summary Comments:

See attached results from Sub-Contract Laboratory

Qualifiers: *No Data Qualification*

Analyte & Samples(s) Qualified: *None*

Client Name/Address	Client Project Manager/Contact	Billing Information	For Laboratory Use Only
Micro Methods 6500 Simplex Dr. Ocean Springs, MS 39564	Tina Tomek 228-875-6420	SAME	City of Chickasaw
Project Description	**Project/Site Location (City/State)** City of Chickasaw, AL	☐ RUSH – Additional charges apply ☐ Special Detection Limit(s) Date Results Needed	**Method of Shipment** ☐ Fed Ex ☐ UPS ☐ USPS ☐ Courier ☐ Client Drop Off Other
Project Number 2401310	**Project Manager Phone #**	**Project Manager Email**	**Purchase Order Number**

Matrix Key
WW – Wastewater GW – Groundwater
DW – Drinking Water S – Soil /Solid O – Oil
P - Product M - Misc

Site/Facility ID #

A	Cool < 10C Na2S2O3 (Micro Only)
B	Cool <= 6C
C	H2SO4 pH<2
D	None Required
E	NaOH pH>10
F	HNO3 pH<2
G	HCL pH<2
H	H3PO4 pH<2
I	Cool <= 6C NA2S2O3

Waypoint ANALYTICAL
235 Highpoint Drive
Ridgeland, MS 39157
(601)957-2676

Unless noted, all containers per Table II of 40 CFR Part 136.

Date	Time	Sample Identification	Number of Containers	Matrix (Refer to Key)	(G)rab or (C)omposite	Mercury - 1631E	Required Analysis / Preservative	Comments/Notes
1-18-24	10:22	Blank (*)	2			✓		2-250 mL Glass/None
1-18-24	10:25	Effluent	1			✓		250 mL - Glass/None
								250 mL - Glass/None

COPY

For Laboratory Use Only

Ice Y / N	Custody Seals Y / N	Blank/Cooler Temp

Lab Comments
(*) Enter the location where the blank was prepared. Refer to enclosed instructions for how to prepare the blank.

Sampled by (Name – Print)
Malcolm Burton

Client Remarks/Comments

Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time
Malcolm Burton	1-18-24 13:30	Sarah Tomek	1/18/24 1330
Sarah Tomek	1/18/24 1630	UPS	1/18/24 1630
UPS	Date Time	Received by: (SIGNATURE)	Date Time

Waypoint ANALYTICAL

235 Highpoint Drive, Ridgeland, MS 39157
Main 601-957-2676 ° Fax 601-957-1887
www.waypointanalytical.com

1/25/2024

Micro Methods
Mr. Clyde Woodward
PO Box 1410
Ocean Springs, MS, 39566-1410

Ref: Analytical Testing
Lab Report Number: 24-019-0006
Client Project Description: 2401310
City of Chickasaw, AL

Dear Mr. Clyde Woodward:
Waypoint Analytical Mississippi, Inc. received sample(s) on 1/19/2024 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Brian Herrington
Technical Director

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

235 Highpoint Drive, Ridgeland, MS 39157
Main 601-957-2676 ° Fax 601-957-1887
www.waypointanalytical.com

Certification Summary

Laboratory ID: WP RMS: Waypoint Analytical Mississippi, Inc., Ridgeland, MS

State	Program	Lab ID	Expiration Date
Arkansas	State Program	88-1409	02/01/2024
Kentucky	State Program	KY98013	12/31/2024
Louisiana	State Program - NELAP	04023	06/30/2024

Waypoint ANALYTICAL

235 Highpoint Drive, Ridgeland, MS 39157
Main 601-957-2676 ° Fax 601-957-1887
www.waypointanalytical.com

Sample Summary Table

Report Number: 24-019-0006

Client Project Description: 2401310
City of Chickasaw, AL

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
87426	Blank	Aqueous	01/18/2024 10:22	01/19/2024
87427	Effluent	Aqueous	01/18/2024 10:25	01/19/2024

Waypoint ANALYTICAL

235 Highpoint Drive, Ridgeland, MS 39157
Main 601-957-2676 ° Fax 601-957-1887
www.waypointanalytical.com

00033
Micro Methods
Mr. Clyde Woodward
PO Box 1410
Ocean Springs , MS 39566-1410

Project 2401310

Information : City of Chickasaw, AL

Report Date : 01/25/2024
Received : 01/19/2024

Report Number : **24-019-0006**

REPORT OF ANALYSIS

Brian Herrington
Technical Director

Lab No : **87426**
Sample ID : **Blank**

Matrix: **Aqueous**
Sampled: **1/18/2024 10:22**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Mercury	<0.500	ng/L	0.500	1	01/24/24 16:32	KAE	1631E

Qualifiers/ Definitions DF Dilution Factor MQL Method Quantitation Limit

Waypoint ANALYTICAL

235 Highpoint Drive, Ridgeland, MS 39157
Main 601-957-2676 ° Fax 601-957-1887
www.waypointanalytical.com

00033
Micro Methods
Mr. Clyde Woodward
PO Box 1410
Ocean Springs , MS 39566-1410

Project 2401310

Information : City of Chickasaw, AL

Report Date : 01/25/2024
Received : 01/19/2024

Report Number : **24-019-0006**

REPORT OF ANALYSIS

Brian Herrington
Technical Director

Lab No : **87427**
Sample ID : **Effluent**

Matrix: **Aqueous**
Sampled: **1/18/2024 10:25**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Mercury	**1.24**	ng/L	0.500	1	01/24/24 16:56	KAE	1631E

Qualifiers/ Definitions DF Dilution Factor MQL Method Quantitation Limit

Waypoint ANALYTICAL

235 Highpoint Drive, Ridgeland, MS 39157
Main 601-957-2676 ° Fax 601-957-1887
www.waypointanalytical.com

Shipment Receipt Form

Customer Number: **00033**
Customer Name: **Micro Methods**
Report Number: **24-019-0006**

Shipping Method

○ Fed Ex	○ US Postal	○ Lab	○ Other :	
● UPS	○ Client	○ Courier	Thermometer ID:	

Shipping container/cooler uncompromised?	● Yes	○ No	
Number of coolers/boxes received	1		
Custody seals intact on shipping container/cooler?	○ Yes	○ No	● Not Present
Custody seals intact on sample bottles?	○ Yes	○ No	● Not Present
Chain of Custody (COC) present?	● Yes	○ No	
COC agrees with sample label(s)?	● Yes	○ No	
COC properly completed	● Yes	○ No	
Samples in proper containers?	● Yes	○ No	
Sample containers intact?	● Yes	○ No	
Sufficient sample volume for indicated test(s)?	● Yes	○ No	
All samples received within holding time?	● Yes	○ No	
Cooler temperature in compliance?	● Yes	○ No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	● Yes	○ No	
Water - Sample containers properly preserved	● Yes	○ No	○ N/A
Water - VOA vials free of headspace	○ Yes	○ No	● N/A
Trip Blanks received with VOAs	○ Yes	○ No	● N/A
Soil VOA method 5035 – compliance criteria met	○ Yes	○ No	● N/A

☐ High concentration container (48 hr)	☐ Low concentration EnCore samplers (48 hr)
☐ High concentration pre-weighed (methanol -14 d)	☐ Low conc pre-weighed vials (Sod Bis -14 d)

Special precautions or instructions included?	○ Yes	● No

Comments: UPS: 1Z3530630368199686

Signature: Krysti Townsend Date & Time: 01/19/2024 11:01:30

Client Name/Address	Client Project Manager/Contact	Billing Information	
Micro Methods 6500 Simplex Dr. Ocean Springs, MS 39564	Tina Tomek 228-875-6420	SAME	24-019-0006 00033 01-19-2024 11:01:14 Micro Methods 2401310
Project Description	**Project/Site Location (City/State)**	☐ RUSH – Additional charges apply ☐ Special Detection Limit(s) Date Results Needed	Method of : ☐ Fed Ex ☐ Courier Other P - Product M - Misc
Project Number 2401310	**Project Manager Phone #**	**Project Manager Email**	**Purchase Order Number** / **Site/Facility ID #**

Waypoint ANALYTICAL
235 Highpoint Drive
Ridgeland, MS 39157
(601)957-2676

Unless noted, all containers per Table II of 40 CFR Part 136.

A	Cool < 10C Na2S2O3 (Micro Only)
B	Cool <= 6C
C	H2SO4 pH<2
D	None Required
E	NaOH pH>10
F	HNO3 pH<2
G	HCL pH<2
H	H3PO4 pH<2
I	Cool <= 6C NA2S2O3

Date	Time	Sample Identification	Number of Containers	Matrix (Refer to Key)	(G)rab or (C)omposite	Required Analysis / Preservative: Mercury - 1631E	Comments/Notes
1-18-24	10:22	Blank (*)	2			✓	2-250 mL Glass/None
1-18-24	10:25	Effluent	1			✓	250 mL - Glass/None
							250 mL - Glass/None

For Laboratory Use Only

Ice	Custody Seals	Lab Comments	Blank/Cooler Temp
Y / N	Y / N	(*) Enter the location where the blank was prepared. Refer to enclosed instructions for how to prepare the blank.	—

Sampled by (Name – Print): Malcolm Burton

Client Remarks/Comments:

Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time
Malcolm Burton	1-18-24 13:30	Smah Jomeh	1/18/24 1330
Smah Jomeh	1/18/24 1630	UPS	1/18/24 1630
UPS	1/19/24 1040	K. Townsend	1/19/24 1040

UPS: 1Z353O630368199686

MICRO-METHODS LABORATORY, INC.

Mailing Address:
PO Box 1410
Ocean Springs, MS
39566-1410

6500 Sunplex Drive
Ocean Springs, MS 39564
228.875.6420 Phone
228.875.6423 Fax

January 23, 2025

Chuck Starling

Work Order # : 2501289

Purchase Order #:

City of Chickasaw
224 Grant Street
Mobile, AL 36611

RE: Yearly Low Level Mercury

Enclosed are results of analyses performed on samples received 01/16/2025 11:43. If you have any questions concerning this report, please feel free to contact the office.

Sincerely,

Mitch Spicer

Lab Director
Micro-Methods Laboratory, Inc.

NELAP ACCREDITED TNI LABORATORY

DISCLAIMER

The results only relate to the items or the sample and/or samples received by the laboratory. This report shall not be reproduced except in full, without the approval of the laboratory. All NELAP certified test methods performed meet the requirements of NELAC 2009 Standards. Any variances and/or deviations specific to this analytical report are referenced in the lab report using qualifiers and detailed explanations found in the case narrative.

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Project:
Project Number:
Project Manager:

Reported:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date/Time Sampled	Sampled by	Date/Time Received

Sample Receipt Conditions

Date/Time Received: 1/16/2025 11:43:00AM
Received by: Sarah E. Tomek
Date/Time Logged: 1/16/2025 12:07:00PM
Cooler ID: Waypoint cooler

Shipped by: Lab Pick-up
Submitted by: John H Wilkens
Logged by: Sarah E. Tomek
Receipt Temperature: °C

Cooler Custody Seals Present	No	*Received on Ice but Not Frozen*	No
Containers Intact	Yes	*No Ice, Short Trip*	No
COC/Labels Agree	Yes	*Obvious Contamination*	No
Labels Complete	No	*Rush to meet HT*	No
COC Complete	Yes	*Received within HT*	Yes
Volatile Vial Headspace >6mm	No	*Proper Containers for Analysis*	Yes
Field Sheet/Instructions Included	No	*Correct Preservation*	Yes
Samples Rejected/Documented in Log	No	*Adequate Sample for Analysis*	Yes
Temp Taken From Temp Blank	No	*Sample Custody Seals Present*	No
Temp Taken From Sample Container	No	*Samples Missing from COC/Cooler*	No
Temp Taken From Cooler	No		
COC meets acceptance criteria	Yes		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

MICRO-METHODS
LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Project:
Project Number:
Project Manager:

Reported:

CASE NARRATIVE SUMMARY

All reported results are within Micro-Methods Laboratory, Inc.defined laboratory quality control objectives unless detailed in narrative summary or identified as qualifications. NOTE: All results listed on this report are calculated on a wet weight basis (as received by the laboratory) unless otherwise noted in the analysis qualification sections.

Summary Comments:

See attached results from Sub-Contract Laboratory

Qualifiers: *No Data Qualification*

Analyte & Samples(s) Qualified: *None*

Client Name/Address	Client Project Manager/Contact	Billing Information	For Laboratory Use Only
Micro Methods 6500 Simpkins Dr. Ocean Springs, MS 39564	Tina Tomek 228-875-6420	SAME	City of Chickasaw

Project Description	Project/Site Location (City/State)		Method of Shipment	Matrix Key
Chickasaw Yearly		☐ RUSH – Additional charges apply ☐ Special Detection Limit(s) Date Results Needed	☐ Fed Ex ☐ UPS ☐ USPS ☐ Courier ☐ Client Drop Off Other	WW – Wastewater GW – Groundwater DW – Drinking Water S – Soil /Solid O – Oil P - Product M - Misc

Project Number	Project Manager Phone #	Project Manager Email	Purchase Order Number	Site/Facility ID #
2501289				

Waypoint ANALYTICAL
235 Highpoint Drive
Ridgeland, MS 39157
(601)957-2676

Unless noted, all containers per Table II of 40 CFR Part 136.

A	Cool < 10C Na2S2O3 (Micro Only)
B	Cool <= 6C
C	H2SO4 pH<2
D	None Required
E	NaOH pH>10
F	HNO3 pH<2
G	HCL pH<2
H	H3PO4 pH<2
I	Cool <= 6C NA2S2O3

Date	Time	Sample Identification	Number of Containers	Matrix (Refer to Key)	(G)rab or (C)omposite	Required Analysis / Preservative: Mercury - 1631E	Comments/Notes
1025	1-16-25	Blank (*)	2			✓	2-250 mL Glass/None
1/16/25	1027	Effluent	1			✓	250 mL - Glass/None
							250 mL - Glass/None

For Laboratory Use Only			Sampled by (Name – Print)	Client Remarks/Comments
Ice Y / N	Custody Seals Y / N	Lab Comments	John Vercher	
Blank/Cooler Temp		(*) Enter the location where the blank was prepared. Refer to enclosed instructions for how to prepare the blank.		

Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time
	1-16-25 1042	Sarah Tomek	1/16/25 1143
Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time
Sarah Tomek	1/16/25 1630	UPS	1/16/25 1630
Relinquished by: (SIGNATURE) UPS	Date Time	Received by: (SIGNATURE)	Date Time

Waypoint ANALYTICAL

235 Highpoint Drive, Ridgeland, MS 39157
Main 601-957-2676 ° Fax 601-957-1887
www.waypointanalytical.com

1/22/2025

Micro Methods
Mr. Clyde Woodward
PO Box 1410
Ocean Springs, MS, 39566-1410

Ref: Analytical Testing
Lab Report Number: 25-017-0011
Client Project Description: 2501289

Dear Mr. Clyde Woodward:
Waypoint Analytical Mississippi, Inc. received sample(s) on 1/17/2025 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) and NELAC unless otherwise indicated. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Brian Herrington
Technical Director

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Waypoint ANALYTICAL

235 Highpoint Drive, Ridgeland, MS 39157
Main 601-957-2676 ° Fax 601-957-1887
www.waypointanalytical.com

Certification Summary

Laboratory ID: WP RMS: Waypoint Analytical Mississippi, Inc., Ridgeland, MS

State	Program	Lab ID	Expiration Date
Arkansas	State Program	88-1409	02/01/2025
Kentucky	State Program	KY98013	12/31/2025
Louisiana	State Program - NELAP	04023	06/30/2025

Waypoint ANALYTICAL

235 Highpoint Drive, Ridgeland, MS 39157
Main 601-957-2676 ° Fax 601-957-1887
www.waypointanalytical.com

Sample Summary Table

Report Number: **25-017-0011**

Client Project Description: **2501289**

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
72402	Blank (*)	Aqueous	01/10/2025 10:25	01/17/2025
72403	Effluent	Aqueous	01/16/2025 10:27	01/17/2025

Waypoint ANALYTICAL

235 Highpoint Drive, Ridgeland, MS 39157
Main 601-957-2676 ° Fax 601-957-1887
www.waypointanalytical.com

00033
Micro Methods
Mr. Clyde Woodward
PO Box 1410
Ocean Springs , MS 39566-1410

Project 2501289

Information :

Report Date : 01/22/2025
Received : 01/17/2025

Report Number : **25-017-0011**

REPORT OF ANALYSIS

Brian Herrington
Technical Director

Lab No : **72402**
Sample ID : **Blank (*)**

Matrix: **Aqueous**
Sampled: **1/10/2025 10:25**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Mercury	<0.500	ng/L	0.500	1	01/21/25 14:48	KAE	1631E

Qualifiers/ Definitions DF Dilution Factor MQL Method Quantitation Limit

Waypoint ANALYTICAL

235 Highpoint Drive, Ridgeland, MS 39157
Main 601-957-2676 ° Fax 601-957-1887
www.waypointanalytical.com

00033
Micro Methods
Mr. Clyde Woodward
PO Box 1410
Ocean Springs , MS 39566-1410

Project 2501289

Information :

Report Date : 01/22/2025
Received : 01/17/2025

Report Number : **25-017-0011**

REPORT OF ANALYSIS

Brian Herrington
Technical Director

Lab No : **72403**
Sample ID : **Effluent**

Matrix: **Aqueous**
Sampled: **1/16/2025 10:27**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Mercury	**1.14**	ng/L	0.500	1	01/21/25 15:53	KAE	1631E

Qualifiers/ Definitions DF Dilution Factor MQL Method Quantitation Limit

Waypoint ANALYTICAL

235 Highpoint Drive, Ridgeland, MS 39157
Main 601-957-2676 ° Fax 601-957-1887
www.waypointanalytical.com

Shipment Receipt Form

Customer Number: **00033**
Customer Name: **Micro Methods**
Report Number: **25-017-0011**

Shipping Method

Fed Ex	US Postal	Lab	Other :	
● UPS	Client	Courier	Thermometer ID:	N/A

Shipping container/cooler uncompromised?	● Yes	No	
Number of coolers/boxes received	1		
Custody seals intact on shipping container/cooler?	Yes	No	● Not Present
Custody seals intact on sample bottles?	Yes	No	● Not Present
Chain of Custody (COC) present?	● Yes	No	
COC agrees with sample label(s)?	● Yes	No	
COC properly completed	● Yes	No	
Samples in proper containers?	● Yes	No	
Sample containers intact?	● Yes	No	
Sufficient sample volume for indicated test(s)?	● Yes	No	
All samples received within holding time?	● Yes	No	
Cooler temperature in compliance?	● Yes	No	Not Present
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	● Yes	No	
Water - Sample containers properly preserved	● Yes	No	N/A
Water - VOA vials free of headspace	Yes	No	● N/A
Trip Blanks received with VOAs	Yes	No	● N/A
Soil VOA method 5035 – compliance criteria met	Yes	No	● N/A

High concentration container (48 hr)	Low concentration EnCore samplers (48 hr)
High concentration pre-weighed (methanol -14 d)	Low conc pre-weighed vials (Sod Bis -14 d)

Special precautions or instructions included? Yes ● No

Comments: 1Z3530630370651039

Signature: Makayla Weaver Date & Time: 01/17/2025 10:41:22

Client Name/Address	Client Project Manager/Contact	Billing Information	
Micro Methods 6500 Simplex Dr. Ocean Springs, MS 39564	Tina Tomek 228-875-6420	SAME	

25-01"-0011
00033
01-17-2025
10:41:11
Micro Methods
2501289

Project Description	Project/Site Location (City/State)		Method of Shipr	
Chickasaw Yeary		☐ RUSH – Additional charges apply ☐ Special Detection Limit(s) Date Results Needed	☐ Fed Ex ☐ UPS ☐ USPS ☐ Courier ☐ Client Drop Off Other	WW – Wastewater GW – Groundwater DW – Drinking Water S – Soil /Solid O – Oil P - Product M Misc

Project Number	Project Manager Phone #	Project Manager Email	Purchase Order Number	Site/Facility ID #
2501289				

Waypoint ANALYTICAL
235 Highpoint Drive
Ridgeland, MS 39157
(601)957-2676

Unless noted, all containers per Table II of 40 CFR Part 136.

A	Cool < 10C Na2S2O3 (Micro Only)
B	Cool <= 6C
C	H2SO4 pH<2
D	None Required
E	NaOH pH>10
F	HNO3 pH<2
G	HCL pH<2
H	H3PO4 pH<2
I	Cool <= 6C NA2S2O3

Date	Time	Sample Identification	Number of Containers	Matrix (Refer to Key)	(G)rab or (C)omposite	Required Analysis / Preservative: Mercury - 1631E	Comments/Notes
1025	1-16-25	Blank (*)	2			✓	2-250 mL Glass/None
1/16/25	1027	Effluent	1			✓	250 mL - Glass/None
							250 mL - Glass/None

For Laboratory Use Only			Sampled by (Name – Print)	Client Remarks/Comments
Ice Y (N)	Custody Seals Y (N)	Lab Comments: (*) Enter the location where the blank was prepared. Refer to enclosed instructions for how to prepare the blank.	John Vercher	1235306303706510 39
Blank/Cooler Temp: N/A			Relinquished by: (SIGNATURE)	Date Time: 1-16-25 1142
			Relinquished by: (SIGNATURE)	Date Time: 1/16/25 1630
			Relinquished by: (SIGNATURE) UPS	Date Time: 1/17/25 1021

Received by: (SIGNATURE)	Date Time
Sarah Tomek	1/16/25 1143
UPS	1/16/25 1630
	1/17/25 1021

F021 LLHg COC R14 102716

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228.875.6420 Phone
228.875.6423 Fax

February 17, 2026

Chuck Starling

Work Order # : 2602220

Purchase Order #:

City of Chickasaw
224 Grant Street
Mobile, AL 36611

RE: Yearly Low Level Mercury

Enclosed are results of analyses performed on samples received 02/10/2026 13:07. If you have any questions concerning this report, please feel free to contact the office.

Sincerely,

Mitch Spicer

Lab Director
Micro-Methods Laboratory, Inc.

NELAP ACCREDITED TNI LABORATORY

RECEIVED
SEP 03 2026
IND/MUN BRANCH
WATER DIVISION

DISCLAIMER

The results only relate to the items or the sample and/or samples received by the laboratory. This report shall not be reproduced except in full, without the approval of the laboratory. All NELAP certified test methods performed meet the requirements of NELAC 2009 Standards. Any variances and/or deviations specific to this analytical report are referenced in the lab report using qualifiers and detailed explanations found in the case narrative.

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Project:
Project Number:
Project Manager:

Reported:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date/Time Sampled	Sampled by	Date/Time Received

Sample Receipt Conditions

Date/Time Received: 2/10/2026 1:07:00PM
Received by: Sarah E. Tomek
Date/Time Logged: 2/11/2026 8:12:00AM
Cooler ID: Waypoint cooler

Shipped by: Lab Pick-up
Submitted by: Riley A Borries
Logged by: Sarah E. Tomek
Receipt Temperature: °C

Cooler Custody Seals Present	No	*Received on Ice but Not Frozen*	No
Containers Intact	Yes	*No Ice, Short Trip*	No
COC/Labels Agree	Yes	*Obvious Contamination*	No
Labels Complete	No	*Rush to meet HT*	No
COC Complete	Yes	*Received within HT*	Yes
Volatile Vial Headspace >6mm	No	*Proper Containers for Analysis*	Yes
Field Sheet/Instructions Included	No	*Correct Preservation*	Yes
Samples Rejected/Documented in Log	No	*Adequate Sample for Analysis*	Yes
Temp Taken From Temp Blank	No	*Sample Custody Seals Present*	No
Temp Taken From Sample Container	No	*Samples Missing from COC/Cooler*	No
Temp Taken From Cooler	No		
COC meets acceptance criteria	Yes		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

MICRO-METHODS
LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Project:
Project Number:
Project Manager:

Reported:

CASE NARRATIVE SUMMARY

All reported results are within Micro-Methods Laboratory, Inc.defined laboratory quality control objectives unless detailed in narrative summary or identified as qualifications. NOTE: All results listed on this report are calculated on a wet weight basis (as received by the laboratory) unless otherwise noted in the analysis qualification sections.

Summary Comments:

See attached report from Sub-Contract Laboratory

Qualifiers: *No Data Qualification*

Analyte & Samples(s) Qualified: *None*

City of Chickasaw

Waypoint ANALYTICAL

235 Highpoint Drive, Ridgeland, MS 39157
Main 601-957-2676 ° Fax 601-957-1887
www.waypointanalytical.com

Kit ID:	**222261**
Initiated By:	**Fallon Lockley**
Initiated Date:	**10/23/2023**
Project Comment	

CHAIN-OF-CUSTODY

Company Name	Company Number	Client Project Manager/Contact	Purchase Order Number
Micro Methods	00033	Tina Tomek	
Site Name: Yearly Low Level Mercury	**Project Number**	☐ RUSH – Additional charges apply ☐ Special Detection Limits(s) Date Results Needed	**Method of Shipment** ☐ Fed Ex ☐ UPS ☐ USPS ☐ Courier ☐ Client Drop Off Other
LIMS Project ID: 2602220	**Project Manager Phone #**: 228-875-6420	**Project Manager Email**: Homek@micromethods lab.com	**Site/Facility ID #**

Date	Time	Sample ID	Matrix	Grab/ Comp	# of Cont	Container Type	Preservation	Analyses
2-10-26	1042	Blank	AQU	G	2	Glass Amber - 250ml	NONE	LL Hg
2-10-26	1044	Effluent	AQU	G	1	Glass Amber - 250ml	NONE	LL Hg

COPY

For Laboratory Use Only			Sampled by (Name - Print)	Client Remarks/Comments			
Ice Y/N	Custody Seals Y/N	Lab Comments	Riley Borries				
			Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time	
			Riley Borries	2-10-26 1307	Sarah Tomek	2/10/26 1307	
Blank/Sample Temp in °C			Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time	
			Sarah Tomek	2/11/26 1630	UPS	2/11/26 1630	
			Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time	
			UPS				

Waypoint ANALYTICAL

235 Highpoint Drive, Ridgeland, MS 39157
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www.waypointanalytical.com

2/16/2026

Micro Methods
Ms. Tina Tomek
6500 Sunplex Drive
Ocean Springs, MS, 39564

Ref: Analytical Testing
Lab Report Number: 26-043-0007
Client Project Description: 2602220

Dear Ms. Tina Tomek:
Waypoint Analytical Mississippi, Inc. received sample(s) on 2/12/2026 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method. Where the laboratory was not responsible for the sampling stage (refer to the chain of custody) results apply to the sample as received.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) and NELAC. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Brian Herrington
Technical Director

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Waypoint ANALYTICAL

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Certification Summary

Laboratory ID: WP RMS: Waypoint Analytical Mississippi, Inc., Ridgeland, MS

State	Program	Lab ID	Expiration Date
Arkansas	State Program	88-1409	01/31/2027
Kentucky	State Program	KY98013	12/31/2026
Louisiana	State Program - NELAP	04023	06/30/2026

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Sample Summary Table

Report Number: **26-043-0007**

Client Project Description: **2602220**

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
71516	Blank	Aqueous	02/10/2026 10:42	02/12/2026
71517	Effluent	Aqueous	02/10/2026 10:44	02/12/2026

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00033
Micro Methods
Ms. Tina Tomek
6500 Sunplex Drive
Ocean Springs , MS 39564

Project 2602220

Information :

Report Date : 02/16/2026
Received : 02/12/2026

Report Number : **26-043-0007**

REPORT OF ANALYSIS

Brian Herrington
Technical Director

Lab No : **71516**
Sample ID : **Blank**

Matrix: **Aqueous**
Sampled: **2/10/2026 10:42**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Mercury	<0.500	ng/L	0.500	1	02/16/26 12:46	KAE	1631E

Qualifiers/ Definitions DF Dilution Factor MQL Method Quantitation Limit

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00033
Micro Methods
Ms. Tina Tomek
6500 Sunplex Drive
Ocean Springs , MS 39564

Project 2602220

Information :

Report Date : 02/16/2026
Received : 02/12/2026

Report Number : **26-043-0007**

REPORT OF ANALYSIS

Brian Herrington
Technical Director

Lab No : **71517**
Sample ID : **Effluent**

Matrix: **Aqueous**
Sampled: **2/10/2026 10:44**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Mercury	<0.500	ng/L	0.500	1	02/16/26 15:06	KAE	1631E

Qualifiers/ Definitions DF Dilution Factor MQL Method Quantitation Limit

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Shipment Receipt Form

Customer Number: **00033**
Customer Name: **Micro Methods**
Report Number: **26-043-0007**

Shipping Method

○ Fed Ex	○ US Postal	○ Lab	Other :	
● UPS	○ Client	○ Courier	Thermometer ID:	N/A

Shipping container/cooler uncompromised?	● Yes	○ No	
Number of coolers/boxes received	1		
Custody seals intact on shipping container/cooler?	○ Yes	○ No	● Not Present
Custody seals intact on sample bottles?	○ Yes	○ No	● Not Present
Chain of Custody (COC) present?	● Yes	○ No	
COC agrees with sample label(s)?	● Yes	○ No	
COC properly completed	● Yes	○ No	
Samples in proper containers?	● Yes	○ No	
Sample containers intact?	● Yes	○ No	
Sufficient sample volume for indicated test(s)?	● Yes	○ No	
All samples received within holding time?	● Yes	○ No	
Cooler temperature in compliance?	● Yes	○ No	○ Not Present
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	○ Yes	● No	
Water - Sample containers properly preserved	● Yes	○ No	○ N/A
Water - Sulfuric containers verified pH <2	○ Yes	○ No	● N/A
Water - VOA vials free of headspace	○ Yes	○ No	● N/A
Trip Blanks received with VOAs	○ Yes	○ No	● N/A
Soil VOA method 5035 – compliance criteria met	○ Yes	○ No	● N/A
○ High concentration container (48 hr)		○ Low concentration EnCore samplers (48 hr)	
○ High concentration pre-weighed (methanol -14 d)		○ Low conc pre-weighed vials (Sod Bis -14 d)	
Special precautions or instructions included?	○ Yes	● No	

Comments: 1Z3530630370387398

Signature: Makayla Atkison Date & Time: 02/12/2026 10:56:31

Waypoint ANALYTICAL

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Kit ID:	222261
Initiated By:	Fallon Lockley
Initiated Date:	10/23/2023
Project Comment	

CHAIN-OF-CUSTODY

26-043-0007
00033
02-12-2026
10:45:20
Micro Methods
2602220

Company Name	Company Number	Client Project Manager/Contact	Purchase Order Number
Micro Methods	00033	Tina Tomek	
Site Name	**Project Number**	☐ RUSH – Additional charges apply ☐ Special Detection Limits(s) Date Results Needed	**Method of Shipment** ☐ Fed Ex ☐ UPS ☐ USPS ☐ Courier ☐ Client Drop Off Other
Yearly Low Level Mercury			
LIMS Project ID	**Project Manager Phone #**	**Project Manager Email**	**Site/Facility ID #**
2602220	228-875-6420	Homek@micromethodslab.com	

Date	Time	Sample ID	Matrix	Grab/ Comp	# of Cont	Container Type	Preservation	Analyses
2-10-26	1042	Blank	AQU	G	2	Glass Amber - 250ml	NONE	LL Hg
2-10-26	1044	Effluent	AQU	G	1	Glass Amber - 250ml	NONE	LL Hg

1235306303703873985

For Laboratory Use Only			Sampled by (Name - Print)	Client Remarks/Comments			
Ice	Custody Seals	Lab Comments	Riley Borries				
Y/N	Y/N		Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time	
			Riley Borries	2-10-26 1307	Sarah Jomek	2/10/26 1307	
Blank/Sample Temp in °C			Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time	
N/A			Sarah Jomek	2/11/26 1630	UPS	2/11/26 1630	
			Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time	
			UPS	2/12/26 1019		2/12/26 1019	

1/1