LANCE R. LEFLEUR
DIRECTOR

KAY IVEY
GOVERNOR

Alabama Department of Environmental Management
adem.alabama.gov

1400 Coliseum Blvd. 36110-2400 ▪ Post Office Box 301463
Montgomery, Alabama 36130-1463
(334) 271-7700 ▪ FAX (334) 271-7950

NOVEMBER 3, 2022

GEORGE JOHNSTON
SPOOLBASE MANAGER
TECHNIP THEODORE SPOOLBASE
7323 DAUPHIN ISLAND PKWY
THEODORE, AL 36582

RE: DRAFT PERMIT
NPDES PERMIT NUMBER AL0075116

Dear Mr. Johnston:

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.

Our records indicate that have utilized the Department's web-based electronic environmental (E2) reporting system for submittal of discharge monitoring reports (DMRs). The Department transitioned from the E2 Reporting System to the Alabama Environmental Permitting and Compliance System (AEPACS) for the submittal of DMRs on November 15, 2021. AEPACS is an electronic system that allows facilities to apply for and maintain permits as well as submit other required applications, registrations, and certifications. In addition, the system allows facilities to submit required compliance reports or other information to the Department. The Department has used the E2 User account information to set up a similar User Profile in AEPACS based on the following criteria:

1. The user has logged in to E2 since October 1, 2019; and
2. The E2 user account is set up using a unique email address.

E2 users that met the above criteria will only need to establish an ADEM Web Portal account (https://prd.adem.alabama.gov/awp) under the same email address as their E2 account to have the same permissions in AEPACS as they did in E2. They will also automatically be linked to the same facilities they were in E2.

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 Scott Jackson by e-mail at **scott.jackson@adem.alabama.gov** or by phone at **(334) 394-4366.**

Sincerely,

Scott Ramsey, Chief
Industrial Section
Industrial/Municipal Branch
Water Division

Enclosure: Draft Permit

pc via website: Montgomery Field Office
EPA Region IV
U.S. Fish & Wildlife Service
AL Historical Commission
Advisory Council on Historic Preservation
Department of Conservation and Natural Resources

Birmingham Branch
110 Vulcan Road
Birmingham, AL 35209-4702
(205) 942-6168
(205) 941-1603 (FAX)

Decatur Branch
2715 Sandlin Road, S.W.
Decatur, AL 35603-1333
(256) 353-1713
(256) 340-9359 (FAX)

Mobile Branch
2204 Perimeter Road
Mobile, AL 36615-1131
(251) 450-3400
(251) 479-2593 (FAX)

Mobile-Coastal
3664 Dauphin Street, Suite B
Mobile, AL 36608
(251) 304-1176
(251) 304-1189 (FAX)

ADEM
Alabama Department of Environmental Management

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PERMITTEE: TECHNIP USA

FACILITY: TECHNIP THEODORE SPOOLBASE
7323 DAUPHIN ISLAND PKWY
THEODORE, ALABAMA 36582

PERMIT NUMBER: AL0075116

RECEIVING WATERS: DSN001-DSN009: MIDDLE FORK DEER RIVER
(THEODORE INDUSTRIAL CANAL)

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

INDUSTRIAL SECTION
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT

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PART I DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

DSN001S-DSN009S: Non-process storm water runoff from pipe coating and welding operations 3/ 4/ 5/

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 DSN001-DSN009, 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 Frequency[2]	Sample Type[1]	Seasonal
BOD, 5-Day (20 Deg. C) (00310) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months
pH (00400) Effluent Gross Value	*****	*****	*****	(Report) Minimum Daily	*****	(Report) Maximum Daily	S.U.	Semi-Annually	Grab	All Months
Solids, Total Suspended (00530) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months
Oil & Grease (00556) Effluent Gross Value	*****	*****	*****	*****	*****	15 Maximum Daily	mg/l	Semi-Annually	Grab	All Months
Iron Total Recoverable (00980) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months
Zinc Total Recoverable (01094) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months
Lead, Total Recoverable (01114) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months
Chromium Total Recoverable (01118) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months

THE DISCHARGE SHALL HAVE NO SHEEN, AND THERE SHALL BE NO DISCHARGE OF VISIBLE OIL, FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.

2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.

3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.

4/ See Part IV.B for Stormwater Measurement and Sampling Requirements.

5/ Outfall DSN004 is deemed representative of Outfall DSN007. Outfall DSN005 is deemed representative of Outfalls DSN002, DSN003, DSN006, and DSN008. Monitoring is only required at Outfalls DSN001, DSN004, DSN005, and DSN009.

DSN001S-DSN009S (Continued): Non-process storm water runoff from pipe coating and welding operations 3/ 4/ 5/

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 DSN001-DSN009, 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 Frequency[2]	Sample Type[1]	Seasonal
Copper Total Recoverable (01119) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months
Manganese, Total Recoverable (11123) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months
Toluene (34010) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months
Benzene (34030) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months
Ethylbenzene (34371) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	*****	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Semi-Annually	Estimate	All Months
Solids, Total Dissolved (70295) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months
Chemical Oxygen Demand (COD) (2) (81017) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months
Xylene (81551) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months

THE DISCHARGE SHALL HAVE NO SHEEN, AND THERE SHALL BE NO DISCHARGE OF VISIBLE OIL, FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.

2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.

3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.

4/ See Part IV.B for Stormwater Measurement and Sampling Requirements.

5/ Outfall DSN004 is deemed representative of Outfall DSN007. Outfall DSN005 is deemed representative of Outfalls DSN002, DSN003, DSN006, and DSN008. Monitoring is only required at Outfalls DSN001, DSN004, DSN005, and DSN009.

B. DISCHARGE MONITORING AND RECORD KEEPING REQUIREMENTS

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge and shall be in accordance with the provisions of this permit.

2. 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" 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" 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 using the most sensitive EPA approved method. 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.

3. 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.

4. Records Retention and Production

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 shall not be submitted unless requested.

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.

5. 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. The permittee shall develop and maintain quality assurance procedures to ensure proper operation and maintenance of all equipment and instrumentation. The quality assurance procedures shall include the proper use, maintenance, and installation, when appropriate, of monitoring equipment at the plant site.

C. DISCHARGE REPORTING REQUIREMENTS

1. Reporting of Monitoring Requirements

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

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.

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 may be done anytime during the quarter, unless restricted elsewhere in this permit, but it should be submitted with the last DMR due for the quarter, i.e., (March, June, September and December DMR's).

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 submitted with the last DMR for the month of the semiannual period, i.e. (June and December DMR's).

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 submitted with the December DMR.

b. The permittee shall submit discharge monitoring reports (DMRs) on the forms provided by the Department and in accordance with the following schedule:

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 (MONTH, YEAR).** 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.

REPORTS OF QUARTERLY TESTING shall be submitted on a **quarterly** basis. The first report is due on the **28th day of [Month, Year].** 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.

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.

REPORTS OF ANNUAL TESTING shall be submitted on an annual basis. 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.

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 5 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 the 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.

Permittees 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.

(3) 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.

(4) 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.

(5) 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, 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
Water Division
Office of Water Services
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
Water Division
Office of Water Services
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
Water Division

Post Office Box 301463
Montgomery, Alabama 36130-1463

Certified and Registered Mail shall be addressed to:

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

g. If this permit is a re-issuance, 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 Notification

a. 24-Hour Noncompliance Reporting

The permittee shall report to the Director, within 24-hours of becoming aware of the noncompliance, any noncompliance which may endanger health or the environment. This shall include but is not limited to the following circumstances:

(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) threatens human health or welfare, fish or aquatic life, or water quality standards;

(3) 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);

(4) contains a quantity of a hazardous substance which has been determined may be harmful to public health or welfare under Section 311(b)(4) of the FWPCA, 33 U.S.C. Section 1321(b)(4);

(5) exceeds any discharge limitation for an effluent characteristic as a result of an unanticipated bypass or upset; and

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

The permittee shall orally report the occurrence and circumstances of such discharge to the Director within 24-hours after the permittee becomes aware of the occurrence of such discharge. In addition to the oral report, the permittee shall submit to the Director or Designee a written report as provided in Part I.C.2.c no later than five (5) days after becoming aware of the occurrence of such discharge.

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

c. Any written report required to be submitted to the Director or Designee by Part I.C.2 a. or b. shall be submitted using a Noncompliance Notification Form (ADEM Form 421) available on the Department's website (http://adem.alabama.gov/DeptForms/Form421.pdf) and include the following information:

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

(2) The period of noncompliance, including exact dates and times or, if not corrected, the anticipated time the noncompliance is expected to continue; and

(3) A description of the steps taken and/or being taken to reduce or eliminate the noncomplying discharge and to prevent its recurrence.

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, 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.

5. Cooling Water and Boiler Water Additives

a. The permittee shall notify the Director in writing not later than thirty (30) days prior to instituting the use of any biocide corrosion inhibitor or chemical additive in a cooling or boiler system, not identified in the application for this permit, from which discharge is allowed by this permit. Notification is not required for additives that do not contain a heavy metal(s) as an active ingredient and that pass through a wastewater treatment system prior to discharge nor is notification required for additives that should not reasonably be expected to cause the cooling water or boiler water to exhibit toxicity as determined by analysis of manufacturer's data or testing by the permittee. Such notification shall include:

(1) name and general composition of biocide or chemical:

(2) 96-hour median tolerance limit data for organisms representative of the biota of the waterway into which the discharge will ultimately reach;

(3) quantities to be used;

(4) frequencies of use;

(5) proposed discharge concentrations; and

(6) EPA registration number, if applicable.

b. The use of a biocide or additive containing tributyl tin, tributyl tin oxide, zinc, chromium or related compounds in cooling or boiler system(s), from which a discharge regulated by this permit occurs, is prohibited except as exempted below. The use of a biocide or additive containing zinc, chromium or related compounds may be used in special circumstances if (1) the permit contains limits for these substances, or (2) the applicant demonstrates during the application process that the use of zinc, chromium or related compounds as a biocide or additive will not pose a reasonable potential to violate the applicable State water quality standards for these substances. The use of any additive, not identified in this permit or in the application for this permit or not exempted from notification under this permit is prohibited, prior to a determination by the Department that permit modification to control discharge of the additive is not required or prior to issuance of a permit modification controlling discharge of the additive.

6. Permit Issued Based On Estimated Characteristics

a. If this permit was issued based on estimates of the characteristics of a process discharge reported on an EPA NPDES Application Form 2D (EPA Form 3510-2D), the permittee shall complete and submit an EPA NPDES Application Form 2C (EPA Form 3510-2C) no later than two years after the date that discharge begins. Sampling required for completion of the Form 2C shall occur when a discharge(s) from the process(s) causing the new or increased discharge is occurring. If this permit was issued based on estimates concerning the composition of a stormwater discharge(s), the permittee shall perform the sampling required by EPA NPDES Application Form 2F (EPA Form 3510-2F) no later than one year after the industrial activity generating the stormwater discharge has been fully initiated.

b. This permit shall be reopened if required to address any new information resulting from the completion and submittal of the Form 2C and or 2F.

E. SCHEDULE OF COMPLIANCE

1. 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. 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. Spill Prevention, Control, and Management

The permittee shall provide spill prevention, control, and/or management sufficient to prevent any spills of pollutants from entering a water of the state or a publicly or privately owned treatment works. Any containment system used to implement this requirement shall be constructed of materials compatible with the substance(s) contained and which shall prevent the contamination of groundwater and such containment system shall be capable of retaining a volume equal to 110 percent of the capacity of the largest tank for which containment is provided.

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

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:

a. 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:

b. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;

c. inspect any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under the permit; and

d. 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, for 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 and negate the permittee's responsibility or liability to apply for, obtain, or comply with other ADEM, Federal, State, or Local Government permits, certifications, licenses, or other approvals.

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 Blvd., Montgomery, AL 36130.

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

a. The permittee shall apply for a permit modification at least 180 days in advance of any facility expansion, production increase, process change, or other action that could result in the discharge of additional pollutants or increase the quantity of a discharged pollutant such that existing permit limitations would be exceeded or that could result in an additional discharge point. This requirement 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.

b. The permittee shall notify the Director as soon as it is known or there is reason to believe:

(1) That any activity has occurred or will occur which would result in the discharge on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:

(a) one hundred micrograms per liter;

(b) two hundred micrograms per liter for acrolein and acrylonitrile; five hundred micrograms per liter for 2,4-dinitrophenol and for 2-methyl-4,6-dini-trophenol: and one milligram per liter for antimony;

(c) five times the maximum concentration value reported for that pollutant in the permit application: or

(2) That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following notification levels:

(a) five hundred micrograms per liter;

(b) one milligram per liter for antimony;

(c) ten times the maximum concentration value reported for that pollutant in the permit application.

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.

5. Permit 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; or

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

6. Permit Suspension

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

7. Request for Permit Action Does Not Stay Any Permit Requirement

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. DISCHARGE OF WASTEWATER GENERATED BY OTHERS

The discharge of wastewater, generated by any process, facility, or by any other means not under the operational control of the permittee or not identified in the application for this permit or not identified specifically in the description of an outfall in this permit is not authorized by this permit.

PART III OTHER PERMIT CONDITIONS

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, trespass, 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 is 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 the paragraph. The entering into a lease with the State of Alabama for exploration and production of hydrocarbons shall also be considered beginning construction.

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 wastes into waters of the state". Code of Alabama 1975, Section 22-22-1(b)(8).

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 5 equal volume samples collected at constant time intervals of not more than 2 hours 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, other than for fecal coliform bacteria, the arithmetic mean of the entire composite or grab samples taken for the daily discharges collected in one month period. The monthly average for fecal coliform bacteria is the geometric mean of daily discharge samples collected in a 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. Permit application - means forms and additional information that is required by ADEM Administrative Code Rule 335-6-6-.08 and applicable permit fees.

31. 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).

32. 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.

33. 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".

34. Publicly Owned Treatment Works – 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.

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

36. 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.

37. 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.

38. Solvent – means any virgin, used or spent organic solvent(s) identified in the F-Listed wastes (F001 through F005) specified in 40 CFR 261.31 that is used for the purpose of solubilizing other materials.

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 12 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; or

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 ADDITIONAL REQUIREMENTS, CONDITIONS, AND LIMITATIONS

A. BEST MANAGEMENT PRACTICES (BMP) PLAN REQUIREMENTS

1. BMP Plan

The permittee shall develop and implement a Best Management Practices (BMP) Plan which prevents, or minimizes the potential for, the release of pollutants from ancillary activities, including material storage areas; plant site runoff; in-plant transfer, process and material handling areas; loading and unloading operations, and sludge and waste disposal areas, to the waters of the State through plant site runoff; spillage or leaks; sludge or waste disposal; or drainage from raw material storage.

2. Plan Content

The permittee shall prepare and implement a best management practices (BMP) plan, which shall:

a. Establish specific objectives for the control of pollutants:

(1) Each facility component or system shall be examined for its potential for causing a release of significant amounts of pollutants to waters of the State due to equipment failure, improper operation, natural phenomena such as rain or snowfall, etc.

(2) Where experience indicates a reasonable potential for equipment failure (e.g., a tank overflow or leakage), natural condition (e.g. precipitation), or circumstances to result in significant amounts of pollutants reaching surface waters, the plan should include a prediction of the direction, rate of flow, and total quantity of pollutants which could be discharged from the facility as a result of each condition or circumstance.

b. Establish specific best management practices to meet the objectives identified under paragraph a. of this section, addressing each component or system capable of causing a release of significant amounts of pollutants to the waters of the State, and identifying specific preventative or remedial measures to be implemented;

c. Establish a program to identify and repair leaking equipment items and damaged containment structures, which may contribute to contaminated stormwater runoff. This program must include regular visual inspections of equipment, containment structures and of the facility in general to ensure that the BMP is continually implemented and effective;

d. Prevent the spillage or loss of fluids, oil, grease, gasoline, etc. from vehicle and equipment maintenance activities and thereby prevent the contamination of stormwater from these substances;

e. Prevent or minimize stormwater contact with material stored on site;

f. Designate by position or name the person or persons responsible for the day to day implementation of the BMP;

g. Provide for routine inspections, on days during which the facility is manned, of any structures that function to prevent stormwater pollution or to remove pollutants from stormwater and of the facility in general to ensure that the BMP is continually implemented and effective;

h. Provide for the use and disposal of any material used to absorb spilled fluids that could contaminate stormwater;

i. Develop a solvent management plan, if solvents are used on site. The solvent management plan shall include as a minimum lists of the solvents on site; the disposal method of solvents used instead of dumping, such as reclamation, contract hauling; and the procedures for assuring that solvents do not routinely spill or leak into the stormwater;

j. Provide for the disposal of all used oils, hydraulic fluids, solvent degreasing material, etc. in accordance with good management practices and any applicable state or federal regulations;

k. Include a diagram of the facility showing the locations where stormwater exits the facility, the locations of any structure or other mechanisms intended to prevent pollution of stormwater or to remove pollutants from stormwater, the locations of any collection and handling systems;

l. Provide control sufficient to prevent or control pollution of stormwater by soil particles to the degree required to maintain compliance with the water quality standard for turbidity applicable to the waterbody(s) receiving discharge(s) under this permit;

m. Provide spill prevention, control, and/or management sufficient to prevent or minimize contaminated stormwater runoff. Any containment system used to implement this requirement shall be constructed of materials compatible with the substance(s) contained and shall prevent the contamination of groundwater. The containment system shall also be capable of retaining a volume equal to 110 percent of the capacity of the largest tank for which containment is provided;

n. Provide and maintain curbing, diking or other means of isolating process areas to the extent necessary to allow segregation and collection for treatment of contaminated stormwater from process areas;

o. Be reviewed by plant engineering staff and the plant manager; and

p. Bear the signature of the plant manager.

3. Compliance Schedule

The permittee shall have reviewed (and revised if necessary) and fully implemented the BMP plan as soon as practicable but no later than six months after the effective date of this permit.

4. Department Review

a. When requested by the Director or his designee, the permittee shall make the BMP available for Department review.

b. The Director or his designee may notify the permittee at any time that the BMP is deficient and require correction of the deficiency.

c. The permittee shall correct any BMP deficiency identified by the Director or his designee within 30 days of receipt of notification and shall certify to the Department that the correction has been made and implemented.

5. Administrative Procedures

a. A copy of the BMP shall be maintained at the facility and shall be available for inspection by representatives of the Department.

b. A log of the routine inspection required above shall be maintained at the facility and shall be available for inspection by representatives of the Department. The log shall contain records of all inspections performed for the last three years and each entry shall be signed by the person performing the inspection.

c. The permittee shall provide training for any personnel required to implement the BMP and shall retain documentation of such training at the facility. This documentation shall be available for inspection by representatives of the Department. Training shall be performed prior to the date that implementation of the BMP is required.

d. BMP Plan Modification. The permittee shall amend the BMP plan whenever there is a change in the facility or change in operation of the facility which materially increases the potential for the ancillary activities to result in a discharge of significant amounts of pollutants.

e. BMP Plan Review. The permittee shall complete a review and evaluation of the BMP plan at least once every three years from the date of preparation of the BMP plan. Documentation of the BMP Plan review and evaluation shall be signed and dated by the Plant Manager.

B. STORMWATER FLOW MEASUREMENT AND SAMPLING REQUIREMENTS

1. Stormwater Flow Measurement

   a. All stormwater samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches.

   b. The total volume of stormwater discharged for the event must be monitored, including the date and duration (in hours) and rainfall (in inches) for storm event(s) sampled. The duration between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event must be a minimum of 72 hours. This information must be recorded as part of the sampling procedure and records retained according to Part I.B. of this permit.

   c. The volume may be measured using flow measuring devices, or estimated based on a modification of the Rational Method using total depth of rainfall, the size of the drainage area serving a stormwater outfall, and an estimate of the runoff coefficient of the drainage area. This information must be recorded as part of the sampling procedure and records retained according to Part I.B. of this permit.

2. Stormwater Sampling

   a. A grab sample, if required by this permit, shall be taken during the first thirty minutes of the discharge (or as soon thereafter as practicable); and a flow-weighted composite sample, if required by this permit, shall be taken for the entire event or for the first three hours of the event.

   b. All test procedures will be in accordance with part I.B. of this permit.

ADEM PERMIT RATIONALE

PREPARED DATE: October 11, 2022
PREPARED BY: Scott Jackson

Permittee Name: Technip USA

Facility Name: Technip Theodore Spoolbase

Permit Number: AL0075116

PERMIT IS REISSUANCE DUE TO EXPIRATION

DISCHARGE SERIAL NUMBERS (DSN) & DESCRIPTIONS:

DSN001-DSN009: Non-process storm water runoff from pipe coating and welding operations.

INDUSTRIAL CATEGORY: NON-CATEGORICAL

MAJOR: **N**

STREAM INFORMATION:

Receiving Stream:	Middle Fork Deer River (Theodore Industrial Canal)
Classification:	Fish & Wildlife
River Basin:	Mobile
7Q10:	*
1Q10:	*
Annual Average Flow:	*
303(d) List:	YES
Impairment:	Organic enrichment (BOD)
TMDL:	NO

* Critical flows are indeterminate in coastal locations since it is below the ten foot contour line and due to tidal effects. Based on BPJ, there is some dilution available because of the large volume of water at the point of discharge.

DISCUSSION:
The facility operates a pipe welding and coating operation. Operations onsite include welding, spooling, pipe coating, and pipe repair. Pipe repair activities include cutting, beveling, and grinding. The facility stores dual line pipe stalk, offshore rigging, and vessel and offshore structures. There is no wastewater generated that is discharged from these operations. This permit is for the discharge of stormwater only.

ADEM Administrative Rule 335-6-10-.12 requires applicants to 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. Therefore, the applicant is not required to demonstrate that the discharge is necessary for economic and social development.

EPA has not promulgated specific guidelines for the discharges covered under the proposed permit. Proposed permit limits are based on Best Professional Judgment. The proposed frequencies are based on a review of site specific conditions and an evaluation of similar facilities.

DSN001S-DSN009S: Non-process storm water runoff from pipe coating and welding operations

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Frequency	Sample Type	Basis
BOD, 5-Day (20 Deg. C) (00310) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	BPJ
pH (00400) Effluent Gross Value	*****	*****	*****	(Report) Minimum Daily	*****	(Report) Maximum Daily	S.U.	Semi-Annually	Grab	BPJ
Solids, Total Suspended (00530) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	BPJ
Oil & Grease (00556) Effluent Gross Value	*****	*****	*****	*****	*****	15 Maximum Daily	mg/l	Semi-Annually	Grab	BPJ
Iron Total Recoverable (00980) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	BPJ
Zinc Total Recoverable (01094) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	BPJ
Lead, Total Recoverable (01114) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	BPJ
Chromium Total Recoverable (01118) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	BPJ
Copper Total Recoverable (01119) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	BPJ
Manganese, Total Recoverable (11123) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	BPJ
Toluene (34010) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	BPJ
Benzene (34030) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	BPJ
Ethylbenzene (34371) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	BPJ
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	*****	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Semi-Annually	Estimate	BPJ
Solids, Total Dissolved (70295) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	BPJ
Chemical Oxygen Demand (COD) (2) (81017) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	BPJ
Xylene (81551) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	BPJ

*Basis for Permit Limitation

- BPJ – Best Professional Judgment
- WQBEL – Water Quality Based Effluent Limits
- EGL – Federal Effluent Guideline Limitations
- 303(d) – 303(d) List of Impaired Waters
- TMDL – Total Maximum Daily Load Requirements

Discussion

Best Professional Judgment (BPJ)
The parameters of concern for this facility are based on the parameters of concern listed in EPA form 2F and from the current permit. These parameters are consistent with similar facilities in the state and have been proven to be reflective of the operations at this facility. The parameters with specific limits are discussed below.

Oil & Grease
The daily maximum limit of 15 mg/l for Oil and Grease should prevent the occurrence of a visible sheen in the stream and has been shown to be achievable through the use of proper BMPs.

Metals (Chromium, Copper, Iron, Lead, Manganese, and Zinc)
These metals are pollutants of concern based on the operations occurring onsite. Reportable quantities for these parameters have been noted in historical DMRs submitted by the facility. Based on this historical data and the information submitted in the reissuance application, monitoring for these metals is proposed to continue in this permit. There have not been any reported adverse impacts to the receiving stream's water quality. The information gathered from the Permittee's monitoring of these pollutants will be useful in evaluating the levels discharged and to determine future permit limitations, if necessary. Monitoring for metals is proposed to continue at a semi-annual frequency.

Biochemical Oxygen Demand (BOD_5) and Chemical Oxygen Demand (COD)
These parameters are proposed to continue to be monitored due to the receiving stream being impaired for organic enrichment. Further discussion on BOD and COD can be found below under the 303(d) List discussion.

Benzene, Ethylbenzene, Toluene, and Xylene (BETX)
Based on the operations occurring onsite, these parameters could be expected to be present in the discharges from the facility. Monitoring for BETX parameters is proposed to continue in this permit issuance without limitations at a semi-annual frequency.

Total Dissolved Solids (TDS) and Total Suspended Solids (TSS)
Monitoring for TDS and TSS will be useful in determining the effectiveness of the facility's BMP's. Monitoring for these parameters is proposed to continue at a semi-annual frequency.

Representative Outfalls
The facility requested Outfall DSN004 be representative of Outfall DSN007 and Outfall DSN005 be representative of Outfalls DSN002, DSN003, DSN006, and DSN008. In the current permit, DSN004 is deemed representative of DSN003 and DSN005.

DSN004 and DSN007 utilize the same drainage ditch and DSN007 is used to relieve some of the flow discharging through DSN004. Based on data found in the application and historical DMRs submitted by the facility, Outfall DSN004 is deemed representative of Outfall DSN007.

DSN005 is the largest of the outfalls located in the center of the site. The sources contributing to DSN002, DSN003, DSN005, DSN006, and DSN008 remain similar including stalk storage after welding with equipment movement for stalk handling. The majority of the stormwater from this area drains through DSN005. Based on data found in the application and historical DMRs submitted by the facility, Outfall DSN005 is deemed representative of Outfalls DSN002, DSN003, DSN006, and DSN008.

Monitoring will only be required at Outfalls DSN001, DSN004, DSN005, and DSN009.

303(d) List of Impaired Waters/Total Maximum Daily Load (TMDL)

The facility's receiving stream, Middle Fork Deer River, is listed on the 303(d) List of Impaired Waters for organic enrichment (BOD). The sources of this impairment are from collection system failures and urban runoff/storm sewers. As of this time, a TMDL has not been developed for this receiving stream. The receiving stream low flow is assumed to be 0.0 cfs; however, water quality limitations are not being imposed due to the facility only discharging during storm events when the stream flow is greater than zero. Monitoring for BOD and COD will continue in this permit issuance to ensure these pollutants are not being discharged in significant levels in the stormwater discharges and contributing to the impairment. The information gathered from the Permittee's monitoring of these pollutants will be useful in evaluating the levels discharged and to determine future permit limitations, if necessary.

Best Management Practices (BMPs) are believed to be the most effective way to control the contamination of stormwater from areas of industrial activities. This facility is required to maintain a BMP plan. The requirements of the BMP plan call for minimization of stormwater contact with waste materials, products and by-products, and for prevention of spills or loss of fluids from equipment maintenance activities. The effectiveness of the BMPs will be measured through the monitoring of the pollutants of concern.

NPDES Individual Permit Mod/Reissue (Form 187) - Supplementary Information for Industrial Facilities

version 2.3

(Submission #: HPM-AS3Z-PTGXH, version 1)

Details

Submission ID HPM-AS3Z-PTGXH

Form Input

General Instructions

This form should be used to submit the following permit requests for permitted Industrial Individual NPDES facilities

-Permit Transfers
-Permittee/Facility Name Changes
-Minor Modifications, for example:
> Frequency of monitoring or reporting modifications
> Changes to interim compliance dates in a schedule of compliance, not including the final compliance date.
> Removal of a point source outfall, provided the discharge is terminated and does not result in discharge of pollutants from other outfalls, except in accordance with permit limits.
-Major Modifications, (Any modifications not covered by minor mod◆s, whether Effluent Limit changes occur or not)
-Reissuances
-Reissuance of a permit due to approaching expiration
-Revocation and Reissuance of permit prior to its scheduled expiration

Applicable Base Fees:
-Permit Transfers and/or Permittee/Facility Name Changes
> $800
-Minor Modifications (see examples above)
> $3,940 (Major Sources)
> $3,120 (Minor Sources)
-Major Modifications
> $17,990 (Major Sources)
> $5,615 (Minor Sources)
-Reissuances
> $17,990 (Major Sources)
> $5,615 (Minor Sources)

For assistance, please click here to determine the permit staff responsible for the site or call (334) 271-7943

Processing Information

Purpose of Application
Reissuance of Permit Due to Approaching Expiration

Please indicate if the Permittee is applying for a permit transfer and/or name change in addition to permit modification or reissuance:
None

Action Type
Reissuance

If applicable, briefly describe any planned changes at the facility that are included in this reissuance application:
Renewal of Permit
Modify representative out falls

General Information

SID Permit Number (if your facility currently holds an SID permit, please provide that number below):
NONE PROVIDED

NPDES or General Permit Numbers (if applicable, please list all permit numbers):
AL0075116

Is this facility/site only applying for permit coverage for discharges from stormwater?
Yes

Permit Information

Permit Number
AL0075116

Current Permittee Name
Technip Theodore Spoolbase

Permittee

Permittee Name
Technip USA

Mailing Address

7323 Dauphin Island Pkwy.

Theodore, AL 36582

Responsible Official

Prefix
Mr.

First Name	Last Name
George	*Johnston*

Title
Spoolbase Manager

Organization Name
Technip Theodore Spoolbase

Phone Type	Number	Extension
Business	2514439881	

Email
George.Johnston@technipFMC.com

Mailing Address

7323 DAUPHIN ISLAND PKWY

THEODORE, AL 36582

Existing Permit Contacts

Affiliation Type	Contact Information	Remove?
Notification Recipient,Responsible Official	George Johnston, Technip Theodore Spoolbase	Keep
Environmental Contact,DMR Contact	Jason Hearon, Technip Theodore Spoolbase	Keep
Permittee	Technip Theodore Spoolbase	Keep

Facility/Site Information

Facility/Site Name
Technip Theodore Spoolbase

Organization/Ownership Type
Corporation

Facility/Site Address or Location Description

7323 Dauphin Island Pkwy
Theodore, AL 36582

Facility/Site County
Mobile

Detailed Directions to the Facility/Site
East side of Dauphin Island Parkway; North of Deer River

Facility Map

Map of Outfalls.pdf - 09/01/2022 05:25 PM
Comment
NONE PROVIDED

Please refer to the link below for Lat/Long map instruction help:
Map Instruction Help

Facility/Site Front Gate Latitude and Longitude
30.53923358088229,-88.10412729626465

SIC Code(s) [Please enter Primary SIC Code first followed by any additional applicable SIC Codes]
3479-Coating Engraving and Allied Services

NAICS Code(s) [Please enter Primary NAICS Code first followed by any additional applicable NAICS Codes]
332812-Metal Coating Engraving (except Jewelry and Silverware) and Allied Services to Manufacturers

Facility/Site Contact

Prefix
Mr.

First Name	Last Name
Jason	*Hearon*

Title
Spoolbase HSE Manager

Organization Name
Technip Theodore Spoolbase

Phone Type	Number	Extension
Mobile	2512349228	

Email
jason.hearon@technipfmc.com

Address

7323 DAUPHIN ISLAND PKWY
THEODORE, AL 36582

DMR Contact(s) (1 of 1)

DMR Contact

Prefix
Mr.

First Name	Last Name
Jason	*Hearon*

Title
Spoolbase HSE Manager

Phone Type	Number	Extension
Mobile	2512349228	

Email
jason.hearon@technipfmc.com

Address
7323 Dauphin Island Parkway
Theodore, AL 36582

Applicant Business Entity Information

Address of Incorporation
TechnipFMC
134600 Lockwood Dr
Houston, Tx 77044

Agent Designated by the Corporation for Purposes of Service

Name	Address
George Johnston	7323 Dauphin Island Parkway Thoedore, al 36582

Please provide all corporate officers

Name	Title	Address
Doug Pferdehirt	Chief Executive Officer	11700 Katy Freeway, suit 150 Houston, Tx 77079

Does the applicant applying for coverage have a Parent Corporation?
No

Does the applicant applying for coverage have Subsidiary Corporations?
No

Enforcement History

Has the applicant been issued any Notices of Violation, Orders (Consent or Administrative/Unilateral), or Judicial Actions (Complaint, Settlement Agreement, Consent Decree, or Court Order) concerning water pollution or other permit violations within the State of Alabama in the past five years?
No

Business Activity

A facility with processes inclusive in the business areas shown below may be covered by Environmental Protection Agency's (EPA) categorical effluent guideline standards. These facilities are termed "categorical users". If unsure, please call the Industrial Section at (334) 271-7943 to discuss or use the link below to contact the Permit Engineer for the county the facility is/will be located in.
Industrial Section Assignment Map

If your facility conducts or will be conducting any of the processes listed below (regardless of whether they generate wastewater, waste sludge, or hazardous wastes), please check the category of business activity:
Metal Products
Plastic & Synthetic Materials

Give a brief description of all operations at this facility including primary products or services:
Welding. Spooling, storage of pipe, coating of pipe. Pipe repair activities including cutting, beveling, and grinding. Dual line pipe stalk storage, vessel and offshore storage.

Water Supply

Water Sources (check all that apply):
Municipal Water Utility

Please specify the City of the Municipal Water Utility:
Mobile

Name of Utility	Million Gallons per Day (MGD)
Mobile area Water and Sewer System	0.1

Cooling Water Intake Structure Information

Does the provider of your source water operate a surface water intake?
No

Is the provider a public water system (defined as a system which provides water to the public for human consumption or which provides only treated water, not raw water)?
Yes

Outfalls (1 of 9)

Outfall Identifier
001

Receiving Water
Middle Fork Deer River

Does the discharge enter the named receiving water via an unnamed tributary?
NONE PROVIDED

Indicate if either of the following characteristics apply to this discharge:
Stormwater only (no comingled process waste water excluding air conditioner condensate and fire testing waters)

Monitoring/Sampling Point Location
30.53975400000000,-88.10399800000000

Outfalls (2 of 9)

Outfall Identifier
002

Receiving Water
Middle Fork Deer River

Does the discharge enter the named receiving water via an unnamed tributary?
NONE PROVIDED

Indicate if either of the following characteristics apply to this discharge:
Stormwater only (no comingled process waste water excluding air conditioner condensate and fire testing waters)

Monitoring/Sampling Point Location
30.53667000000000,-88.10273600000000

Outfalls (3 of 9)

Outfall Identifier
003

Receiving Water
Middle Fork Deer River

Does the discharge enter the named receiving water via an unnamed tributary?
NONE PROVIDED

Indicate if either of the following characteristics apply to this discharge:
Stormwater only (no comingled process waste water excluding air conditioner condensate and fire testing waters)

Monitoring/Sampling Point Location
30.52863600000000,-88.09633600000000

Outfalls (4 of 9)

Outfall Identifier
004

Receiving Water
Middle Fork Deer River

Does the discharge enter the named receiving water via an unnamed tributary?
NONE PROVIDED

Indicate if either of the following characteristics apply to this discharge:
Stormwater only (no comingled process waste water excluding air conditioner condensate and fire testing waters)

Monitoring/Sampling Point Location
30.52492100000000,-88.09892700000000

Outfalls (5 of 9)

Outfall Identifier
005

Receiving Water
Middle Fork Deer River

Does the discharge enter the named receiving water via an unnamed tributary?
NONE PROVIDED

Indicate if either of the following characteristics apply to this discharge:
Stormwater only (no comingled process waste water excluding air conditioner condensate and fire testing waters)

Monitoring/Sampling Point Location
30.53145700000000,-88.098927

Outfalls (6 of 9)

Outfall Identifier
006

Receiving Water
Middle Fork Deer River

Does the discharge enter the named receiving water via an unnamed tributary?
NONE PROVIDED

Indicate if either of the following characteristics apply to this discharge:
Stormwater only (no comingled process waste water excluding air conditioner condensate and fire testing waters)

Monitoring/Sampling Point Location
30.535116,-88.101521

Outfalls (7 of 9)

Outfall Identifier
007

Receiving Water
Middle Fork Deer River

Does the discharge enter the named receiving water via an unnamed tributary?
NONE PROVIDED

Indicate if either of the following characteristics apply to this discharge:
Stormwater only (no comingled process waste water excluding air conditioner condensate and fire testing waters)

Monitoring/Sampling Point Location
30.526111,-88.094668

Outfalls (8 of 9)

Outfall Identifier
008

Receiving Water
Middle Fork Deer River

Does the discharge enter the named receiving water via an unnamed tributary?
NONE PROVIDED

Indicate if either of the following characteristics apply to this discharge:
Stormwater only (no comingled process waste water excluding air conditioner condensate and fire testing waters)

Monitoring/Sampling Point Location
30.530017,-88.097538

Outfalls (9 of 9)

Outfall Identifier
009

Receiving Water
Middle Fork Deer River

Does the discharge enter the named receiving water via an unnamed tributary?
NONE PROVIDED

Indicate if either of the following characteristics apply to this discharge:
Stormwater only (no comingled process waste water excluding air conditioner condensate and fire testing waters)

Monitoring/Sampling Point Location
30.540292,-88.103654

Coastal Zone Information

Is the discharge(s) located within the 10-foot elevation contour and within the limits of Mobile or Baldwin County?
Yes

Does the project require new construction?
No

Will the project be a source of new air emissions?
No

Does the project involve dredging and/or filling of a wetland area or water way?
No

Does the project involve wetlands and/or submersed grassbeds?
No

Are oyster reefs located near the project site?
No

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)?
No

Does the project involve mitigation of shoreline or coastal area erosion?
No

Does the project involve construction on beaches or dune areas?
No

Will the project interfere with public access to coastal waters?
No

Does the project lie within the 100-year floodplain?
Yes

Does the project involve the registration, sale, use, or application of pesticides?
No

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)?
No

Anti-Degradation Evaluation

Is this a new or increased discharge that began after April 3, 1991?
No

Additional Information

Do you share an outfall with another facility?
No

Indicate if automatic sampling equipment or continuous wastewater flow metering equipment is being operated at this facility:

Current	Yes/No
Continuous Wastewater Flow Metering Equipment	No
Automatic Sampling Equipment	No

Indicate if installation automatic sampling equipment or continuous wastewater flow metering equipment planned at

this facility:

Planned	Yes/No
Continuous Wastewater Flow Metering Equipment	No
Automatic Sampling Equipment	No

Please attach the process schematic with sampling equipment locations.

not applicable.docx - 09/01/2022 05:45 PM

Comment

NONE PROVIDED

Are any process changes or expansions planned during the next three years that could alter wastewater volumes or characteristics (Consider production processes as well as air or water pollution treatment processes that may affect the discharge.)?

No

Do you use biocides, corrosion inhibitors, or chemical additives in your cooling or blowdown water?

No

Biocide/Corrosion Inhibitor Summary Sheet

NONE PROVIDED

Comment

NONE PROVIDED

Treatment

Is any form of wastewater treatment (see list below) practiced at this facility?

No

Is any form of wastewater treatment (or changes to an existing wastewater treatment) planned for this facility within the next three years?

No

Facility Operational Characteristics

Indicate whether the facility discharge is:

Continuous through the year

Comments:

NONE PROVIDED

Non-Discharged Wastes

Are any waste liquids or sludges generated and not disposed of in the sanitary sewer system?

No

Does any outside firm remove any of the above checked wastes?

No

EPA Application Forms

All Applicants must submit certain EPA permit application forms. More than one application form may be required.

Form 1 - General Information Form required for all applications

Form 2C - Should be submitted for facilities with existing discharge(s) of process wastewater.

Form 2D - Should be submitted for facilities that have not yet commenced discharge(s) of process wastewater.

Form 2E - Should be submitted for facilities who discharge non-process wastewater, such as non-contact cooling water or boiler blowdown.

Form 2F - Should be submitted for all discharges of storm water associated with an industrial activity.
The EPA application forms are found on the Department's website here.

EPA Form 1

Theodor SB EPR Form 1- signed.pdf - 09/01/2022 05:47 PM
Comment
NONE PROVIDED

Additional EPA Forms (EPA Form 2C, 2D, 2E and/or 2F)

Theodore SB EPA from 2-signed.pdf - 09/01/2022 05:47 PM
Comment
NONE PROVIDED

Other attachments (as needed)

NONE PROVIDED
Comment
NONE PROVIDED

Additional Attachments

Please attach any additional information as needed.

Rep outfall request.pdf - 09/02/2022 08:44 AM
Comment
Request to modify representative outfalls

Application Preparer

Application Preparer

Prefix
Mr.

First Name	Last Name
Jason	*Hearon*

Title
Spoolbase HSE Manager

Organization Name
Technip Theodore Spoolbase

Phone Type	Number	Extension
Mobile	2512349228	

Email
jason.hearon@technipfmc.com

Address
7323 DAUPHIN ISLAND PKWY
THEODORE, AL 36582

Agreements and Signature(s)

SUBMISSION AGREEMENTS

- ☑ I am the owner of the account used to perform the electronic submission and signature.
- ☑ I have the authority to submit the data on behalf of the facility I am representing.
- ☑ I agree that providing the account credentials to sign the submission document constitutes an electronic signature equivalent to my written signature.
- ☑ I have reviewed the electronic form being submitted in its entirety, and agree to the validity and accuracy of the information contained within it to the best of my knowledge.

Responsible Official

I certify under penalty of lawthat 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. I further certify under penalty of lawthat all analyses reported as less than detectable in this application or attachments thereto were performed using the EPA approved test method having the lowest detection limit for the substance tested. NOTE: 335-6-5-.14 SIGNATORIES TO PERMIT APPLICATIONS AND REPORTS. The application for a SID permit shall be signed by a responsible official, a request for variance from categorical pretreatment standards, and a category determination request shall be signed b a responsible official, as indicated below. In the case of a corporation, by a principal executive officer of at least the level of vice president; In the case of a partnership, by a general partner; In the case of a sole proprietorship, by the proprietor; or In the case of a municipal, state, federal, or other public entity, by either a principal executive officer, or ranking elected official

Signed By George Johnston on 09/02/2022 at 9:54 AM

Jason Hearon on 09/02/2022 at 9:57 AM

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
	AL0075116	Technip USA	

Form 1 NPDES

EPA

U.S. Environmental Protection Agency
Application for NPDES Permit to Discharge Wastewater

GENERAL INFORMATION

SECTION 1. ACTIVITIES REQUIRING AN NPDES PERMIT (40 CFR 122.21(f) and (f)(1))

Activities Requiring an NPDES Permit

1.1 Applicants *Not Required* to Submit Form 1

1.1.1	Is the facility a new or existing **publicly owned treatment works?** If yes, STOP. Do NOT complete Form 1. Complete Form 2A. ☑ No	1.1.2	Is the facility a new or existing **treatment works treating domestic sewage?** If yes, STOP. Do NOT complete Form 1. Complete Form 2S. ☑ No

1.2 Applicants *Required* to Submit Form 1

1.2.1	Is the facility a **concentrated animal feeding operation** or a **concentrated aquatic animal production facility?** ☐ Yes → Complete Form 1 *and* Form 2B. ☑ No	1.2.2	Is the facility an **existing** manufacturing, commercial, mining, or silvicultural **facility** that is **currently discharging process wastewater?** ☐ Yes → Complete Form 1 *and* Form 2C. ☑ No
1.2.3	Is the facility a **new** manufacturing, commercial, mining, or silvicultural **facility** that has **not yet commenced to discharge?** ☐ Yes → Complete Form 1 *and* Form 2D. ☑ No	1.2.4	Is the facility a **new or existing** manufacturing, commercial, mining, or silvicultural **facility** that **discharges only nonprocess wastewater?** ☐ Yes → Complete Form 1 *and* Form 2E. ☑ No
1.2.5	Is the facility a **new or existing facility** whose discharge is composed entirely of **stormwater associated with industrial activity** or whose discharge is composed of **both stormwater and non-stormwater?** ☑ Yes → Complete Form 1 *and* Form 2F unless exempted by 40 CFR 122.26(b)(14)(x) or (b)(15). ☐ No		

SECTION 2. NAME, MAILING ADDRESS, AND LOCATION (40 CFR 122.21(f)(2))

Name, Mailing Address, and Location

2.1 Facility Name

Technip USA

2.2 EPA Identification Number

AL0075116

2.3 Facility Contact

Name (first and last)	Title	Phone number
Jason Hearon	Spoolbase HSE LEad	(251) 234-9228

Email address: jason.Hearon@technipfmc.com

2.4 Facility Mailing Address

Street or P.O. box: 7323 Dauphin Island Parkway

City or town	State	ZIP code
Theodore	Al	36582

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
	AL0075116	Technip USA	

Name, Mailing Address, and Location Continued

2.5	Facility Location		
	Street, route number, or other specific identifier 7323 Dauphin Island Parkway		
	County name Mobile	County code (if known) 01-097	
	City or town Theodore	State Al	ZIP code 36582

SECTION 3. SIC AND NAICS CODES (40 CFR 122.21(f)(3))

SIC and NAICS Codes

3.1	SIC Code(s)	Description (optional)
	3479	Coating, Engraving, and Allied Services, Not Elsewhere Classified

3.2	NAICS Code(s)	Description (optional)
	332812	Metal Coating, Engraving (except Jewelry and Silverware), and Allied Services to Manufacturers

SECTION 4. OPERATOR INFORMATION (40 CFR 122.21(f)(4))

Operator Information

4.1	Name of Operator
	Technip USA

4.2	Is the name you listed in Item 4.1 also the owner?
	☑ Yes ☐ No

4.3	Operator Status		
	☐ Public—federal	☐ Public—state	☐ Other public (specify)_____
	☑ Private	☐ Other (specify) _____	

4.4	Phone Number of Operator
	(251) 443-9881

Operator Information Continued

4.5	Operator Address		
	Street or P.O. Box 7323 Dauphin Island Parkway		
	City or town Theodore	State Al	ZIP code 36582
	Email address of operator		

SECTION 5. INDIAN LAND (40 CFR 122.21(f)(5))

Indian Land

5.1	Is the facility located on Indian Land?
	☐ Yes ☑ No

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
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SECTION 6. EXISTING ENVIRONMENTAL PERMITS (40 CFR 122.21(f)(6))

Existing Environmental Permits

6.1 **Existing Environmental Permits** (check all that apply and print or type the corresponding permit number for each)

☑ NPDES (discharges to surface water) AL0075116	☐ RCRA (hazardous wastes)	☐ UIC (underground injection of fluids)
☐ PSD (air emissions)	☐ Nonattainment program (CAA)	☐ NESHAPs (CAA)
☐ Ocean dumping (MPRSA)	☐ Dredge or fill (CWA Section 404)	☐ Other (specify)

SECTION 7. MAP (40 CFR 122.21(f)(7))

Map

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

☑ Yes ☐ No ☐ CAFO—Not Applicable (See requirements in Form 2B.)

SECTION 8. NATURE OF BUSINESS (40 CFR 122.21(f)(8))

Nature of Business

8.1 Describe the nature of your business.

Welding. Spooling, storage of pipe, coating of pipe. Pipe repair activities including cutting, beveling, and grinding. Dual line pipe stalk storage, vessel and offshore storage.

SECTION 9. COOLING WATER INTAKE STRUCTURES (40 CFR 122.21(f)(9))

Cooling Water Intake Structures

9.1 Does your facility use cooling water?

☑ Yes ☐ No → SKIP to Item 10.1.

9.2 Identify the source of cooling water. (Note that facilities that use a cooling water intake structure as described at 40 CFR 125, Subparts I and J may have additional application requirements at 40 CFR 122.21(r). Consult with your NPDES permitting authority to determine what specific information needs to be submitted and when.)

Mobile area water and sewer systems.

SECTION 10. VARIANCE REQUESTS (40 CFR 122.21(f)(10))

Variance Requests

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

☐ Fundamentally different factors (CWA Section 301(n))	☐ Water quality related effluent limitations (CWA Section 302(b)(2))
☐ Non-conventional pollutants (CWA Section 301(c) and (g))	☐ Thermal discharges (CWA Section 316(a))
☑ Not applicable	

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
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SECTION 11. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

Checklist and Certification Statement

11.1 In Column 1 below, mark the sections of Form 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: Activities Requiring an NPDES Permit	☐ w/ attachments
☑ Section 2: Name, Mailing Address, and Location	☐ w/ attachments
☑ Section 3: SIC Codes	☐ w/ attachments
☑ Section 4: Operator Information	☐ w/ attachments
☑ Section 5: Indian Land	☐ w/ attachments
☑ Section 6: Existing Environmental Permits	☐ w/ attachments
☑ Section 7: Map	☑ w/ topographic map ☐ w/ additional attachments
☑ Section 8: Nature of Business	☐ w/ attachments
☑ Section 9: Cooling Water Intake Structures	☐ w/ attachments
☑ Section 10: Variance Requests	☐ w/ attachments
☑ Section 11: Checklist and Certification Statement	☐ w/ attachments

11.2 **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
George Johnston	Spoolbase Manager
Signature	Date signed
	9/1/2022

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map OnDemand Topo

7.5-MINUTE TOPO 1 QUADRANGLE
Custom Extent
7.5-MINUTE TOPO

Outfall#	Lat/Long
DSN-001	30.539754, -88.103998
DSN-002	30.536670, -88.102736
DSN-003	30.528636, -88.096336
DSN-004	30.524921, -88.092856
DSN-005	30.531457, -88.098927
DSN-006	30.535116, -88.101521
DSN-007	30.526111, -88.094668
DSN-008	30.530017, -88.097538
DSN-009	30.540292, -88.103654

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83).
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid:Universal Transverse Mercator, Zone 16R

Data is provided by The National Map (TNM), is the best available at the time of map generation, and includes data content from supporting themes of Elevation, Hydrography, Geographic Names, Boundaries, Transportation, Structures, Land Cover, and Orthoimagery. Refer to associated Federal Geographic Data Committee (FGDC) metadata for additional source data information.

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands. Temporal changes may have occurred since these data were collected and some data may no longer represent actual surface conditions.

Learn About The National Map: https://thenationalmap.gov

SCALE 1:24 000

1 KILOMETER 0.5 0 1 2
1000 500 0 METERS 1000 2000
1 MILE 0.5 0 1
5000 0 5000 10000 15000 20000 25000 FEET

CONTOUR INTERVAL 5 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988
CONTOUR SMOOTHNESS = Low

QUADRANGLE LOCATION

ROAD CLASSIFICATION
Expressway — Local Connector
Secondary Hwy — Local Road
Ramp — 4WD
Interstate Route — US Route — State Route

7.5-MINUTE TOPO 1, AL
2022

Outfall#	Lat/Long
DSN-001	30.539754, -88.103998
DSN-002	30.536670, -88.102736
DSN-003	30.528636, -88.096336
DSN-004	30.524921, -88.092856
DSN-005	30.531457, -88.098927
DSN-006	30.535116, -88.101521
DSN-007	30.526111, -88.094668
DSN-008	30.530017, -88.097538
DSN-009	30.540292, -88.103654

Request for representative outfalls.

The site currently has one representative outfall in use that covers outfalls 3,4,5. It does not offer an accurate measure of the site's stormwater due to the location of the representative outfall to the other outfall locations.

Updating the representative out fall to incorporate outfalls that have similar operations, equipment storage and ground cover would allow for a more accurate measure to the site's stormwater.

Recommendations or request for representative outfalls:

DSN-004 to represent DSN-004 and DNS-007. DSN-007 was a new outfall added in 2017 to cover ground works that were completed on site. Both DSN-007 and DSN -004 utilize the same drainage ditch for the area. DSN-007 was put in place to reduce the flow on/ through DSN-004. DSN-004 has storm run off that comes from the same area as DSN-007.

Red line indicated the drainage ditch that feeds both DSN-007 and DSN-004 outfalls

DSN-005 to represent out falls DSN-002, DSN-003, DSN-005, DSN-006, DSN-008. DSN-005 is the largest outfall and is located in the center of the other outfalls. The area is mainly used for stalk storage after welding with equipment movement for stalk handling. All of the ground conditions are the same and the majority of the stormwater flow is directed toward DSN-005

DSN-005 is located in the center of the other outfalls and has the majority of the storm water directed to the area.

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Form 2F NPDES

EPA

U.S Environmental Protection Agency
Application for NPDES Permit to Discharge Wastewater

STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY

SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1))

Outfall Location

1.1 Provide information on each of the facility's outfalls in the table below

Outfall Number	Receiving Water Name	Latitude	Longitude
DSN-001	Middle Fork of Deer River	30° 32′ 23.11″ N	-88° 6′ 14.39″ W
DSN-002	Middle Fork of Deer River	30° 32′ 12.01″ N	-88° 6′ 9.84″ W
DSN-003	Middle Fork of Deer River	30° 31′ 43.08″ N	-88° 5′ 46.80″ W
DSN-004	Middle Fork of Deer River	30° 31′ 29.71″ N	-88° 5′ 34.28″ W
DSN-005	Middle Fork of Deer River	30° 31′ 53.24″ N	-88° 5′ 55.13″ W
DSN-006	Middle Fork of Deer River	30° 32′ 6.41″ N	-88° 6′ 5.47″ W

SECTION 2. IMPROVEMENTS (40 CFR 122.21(g)(6))

Improvements

2.1 Are you presently required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application?

☑ Yes ☐ No → SKIP to Section 3.

2.2 Briefly identify each applicable project in the table below.

Brief Identification and Description of Project	Affected Outfalls (list outfall numbers)	Source(s) of Discharge	Final Compliance Dates	
			Required	Projected

2.3 Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? (Optional Item)

☐ Yes ☑ No

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19
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SECTION 3. SITE DRAINAGE MAP (40 CFR 122.26(c)(1)(i)(A))

Site Drainage Map

3.1 Have you attached a site drainage map containing all required information to this application? (See instructions for specific guidance.)

☑ Yes ☐ No

SECTION 4. POLLUTANT SOURCES (40 CFR 122.26(c)(1)(i)(B))

Pollutant Sources

4.1 Provide information on the facility's pollutant sources in the table below.

Outfall Number	Impervious Surface Area (within a mile radius of the facility)		Total Surface Area Drained (within a mile radius of the facility)	
001	0.5	specify units acres	7.3	specify units acres
002	0.05	specify units acres	4.6	specify units acres
003	0.3	specify units acres	13.8	specify units acres
004	0.25	specify units acres	4.4	specify units acres
005	1.4	specify units acres	10.0	specify units acres
006	0.1	specify units acres	6.1	specify units acres

4.2 Provide a narrative description of the facility's significant material in the space below. (See instructions for content requirements.)

DSN-001: diesel fuel, metal, pipe coatingmaterial, oils and lubricants. Also the fuel truck parking areawhich is a container area, scrap metal recycling storage containers and trash storage container. Industrial activites are performed in the fabrication shop protected for precipitation and run off. Equipment fuel is performed. Coating materials are stored in covered containers.

DSN-002, 003, 004, 005, 007 and 008: Drain the stalk rack area- material include , diesel fuel, metals, pipe coating materials, oils and lubricants. Pipe repair activities including cutting, beveling, grinding, welding and pipe coating. Pipe repair activities are performed under covered welding habitat that prevent precipitation contact. Equipment fueling and /or serviceing are performedin these areas. Storage of vessel and offshore structures

DNS-006 Parking area. Pipe truck unloading and storage of metal pipe

4.3 Provide the location and a description of existing structural and non-structural control measures to reduce pollutants in stormwater runoff. (See instructions for specific guidance.)

Stormwater Treatment

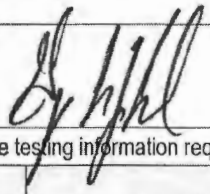
Outfall Number	Control Measures and Treatment	Codes from Exhibit 2F–1 (list)
001,	ponding in the swale leading to DSN-001. Periodic cleaning/removal of accumulated sedime	1-U
002,003,004,0		
007	rock stabilization ot outlet to DSN-007 and DSN-008	
009	Detention pond	1-U
008		

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
	AL0075116	Technip USA	

SECTION 5. NON STORMWATER DISCHARGES (40 CFR 122.26(c)(1)(i)(C))

Non-Stormwater Discharges

5.1 *I certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the presence of non-stormwater discharges. Moreover, I certify that the outfalls identified as having non-stormwater discharges are described in either an accompanying NPDES Form 2C, 2D, or 2E application.*

Name (print or type first and last name)	Official title
George Johnston	Spoolbase Manager
Signature 	Date signed 9-1-2022

5.2 Provide the testing information requested in the table below.

Outfall Number	Description of Testing Method Used	Date(s) of Testing	Onsite Drainage Points Directly Observed During Test

SECTION 6. SIGNIFICANT LEAKS OR SPILLS (40 CFR 122.26(c)(1)(i)(D))

Significant Leaks or Spills

6.1 Describe any significant leaks or spills of toxic or hazardous pollutants in the last three years.

We don not know of any leaks or spills on site that would have been released into the outfall

SECTION 7. DISCHARGE INFORMATION (40 CFR 122.26(c)(1)(i)(E))

Discharge Information

See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table.

7.1 Is this a new source or new discharge?

☐ Yes ➔ See instructions regarding submission of *estimated* data. ☑ No ➔ See instructions regarding submission of *actual* data.

Tables A, B, C, and D

7.2 Have you completed Table A for each outfall?

☑ Yes ☐ No

Discharge Information Continued

7.3	Is the facility subject to an effluent limitation guideline (ELG) or effluent limitations in an NPDES permit for its process wastewater? ☐ Yes ☑ No → SKIP to Item 7.5.
7.4	Have you completed Table B by providing quantitative data for those pollutants that are (1) limited either directly or indirectly in an ELG and/or (2) subject to effluent limitations in an NPDES permit for the facility's process wastewater? ☐ Yes ☐ No
7.5	Do you know or have reason to believe any pollutants in Exhibit 2F–2 are present in the discharge? ☑ Yes ☐ No → SKIP to Item 7.7.
7.6	Have you listed all pollutants in Exhibit 2F–2 that you know or have reason to believe are present in the discharge and provided quantitative data or an explanation for those pollutants in Table C? ☑ Yes ☐ No
7.7	Do you qualify for a small business exemption under the criteria specified in the Instructions? ☐ Yes →SKIP to Item 7.18. ☑ No
7.8	Do you know or have reason to believe any pollutants in Exhibit 2F–3 are present in the discharge? ☑ Yes ☐ No → SKIP to Item 7.10.
7.9	Have you listed all pollutants in Exhibit 2F–3 that you know or have reason to believe are present in the discharge in Table C? ☑ Yes ☐ No
7.10	Do you expect any of the pollutants in Exhibit 2F–3 to be discharged in concentrations of 10 ppb or greater? ☐ Yes ☑ No → SKIP to Item 7.12.
7.11	Have you provided quantitative data in Table C for those pollutants in Exhibit 2F–3 that you expect to be discharged in concentrations of 10 ppb or greater? ☐ Yes ☐ No
7.12	Do you expect acrolein, acrylonitrile, 2,4-dinitrophenol, or 2-methyl-4,6-dinitrophenol to be discharged in concentrations of 100 ppb or greater? ☐ Yes ☑ No → SKIP to Item 7.14.
7.13	Have you provided quantitative data in Table C for the pollutants identified in Item 7.12 that you expect to be discharged in concentrations of 100 ppb or greater? ☐ Yes ☐ No
7.14	Have you provided *quantitative* data or an *explanation in* Table C for pollutants you expect to be present in the discharge at concentrations less than 10 ppb (or less than 100 ppb for the pollutants identified in Item 7.12)? ☑ Yes ☐ No
7.15	Do you know or have reason to believe any pollutants in Exhibit 2F–4 are present in the discharge? ☐ Yes ☑ No → SKIP to Item 7.17.
7.16	Have you listed pollutants in Exhibit 2F–4 that you know or believe to be present in the discharge and provided an explanation in Table C? ☑ Yes ☐ No
7.17	Have you provided information for the storm event(s) sampled in Table D? ☐ Yes ☑ No

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Discharge Information Continued

Used or Manufactured Toxics

7.18 Is any pollutant listed on Exhibits 2F–2 through 2F–4 a substance or a component of a substance used or manufactured as an intermediate or final product or byproduct?

☐ Yes ☑ No → SKIP to Section 8.

7.19 List the pollutants below, including TCDD if applicable.

1.	4.	7.
2.	5.	8.
3.	6.	9.

SECTION 8. BIOLOGICAL TOXICITY TESTING DATA (40 CFR 122.21(g)(11))

Biological Toxicity Testing Data

8.1 Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last three years?

☐ Yes ☑ No → SKIP to Section 9.

8.2 Identify the tests and their purposes below.

Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?	Date Submitted
		☐ Yes ☐ No	
		☐ Yes ☐ No	
		☐ Yes ☐ No	

SECTION 9. CONTRACT ANALYSIS INFORMATION (40 CFR 122.21(g)(12))

Contract Analysis Information

9.1 Were any of the analyses reported in Section 7 (on Tables A through C) performed by a contract laboratory or consulting firm?

☑ Yes ☐ No → SKIP to Section 10.

9.2 Provide information for each contract laboratory or consulting firm below.

	Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
Name of laboratory/firm	Pace Labs	Test America	
Laboratory address	4320 Midmost Drive Mobile ,Al 36609	900 Lakeside Dr Mobile, Al 36693	
Phone number	(251) 243-0857	(251) 666-6633	
Pollutant(s) analyzed	ALL	ALL	

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	ALD075116	Technip USA	

SECTION 10. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

Checklist and Certification Statement

10.1 In Column 1 below, mark the sections of Form 2F 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 complete all sections or provide attachments.

Column 1	Column 2
☑ Section 1	☑ w/ attachments (e.g., responses for additional outfalls)
☑ Section 2	☐ w/ attachments
☑ Section 3	☐ w/ site drainage map
☑ Section 4	☑ w/ attachments
☑ Section 5	☐ w/ attachments
☑ Section 6	☐ w/ attachments
☑ Section 7	☑ Table A ☐ w/ small business exemption request ☐ Table B ☐ w/ analytical results as an attachment ☑ Table C ☐ Table D
☑ Section 8	☐ w/attachments
☑ Section 9	☐ w/attachments (e.g., responses for additional contact laboratories or firms)
☑ Section 10	☐

10.2 **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
George Johnston	Spoolbase Manager
Signature	Date signed
	9-1-2022

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
	AL0075116	Technip USA	DSN-001

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

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	<6.4		<6.4		5	
2.	Biochemical oxygen demand (BOD_5)	<3.0	N/A	<3.0	N/A	3	
3.	Chemical oxygen demand (COD)	23	N/A	21	N/A	3	
4.	Total suspended solids (TSS)	1300	N/A	1341	N/A	5	
5.	Total phosphorus	N/A	N/A	N/A	N/A	N/A	
6.	Total Kjeldahl nitrogen (TKN)	N/A	N/A	N/A	N/A	N/A	
7.	Total nitrogen (as N)	N/A	N/A	N/A	N/A	N/A	
8.	pH (minimum)	8.1		8.0		5	
	pH (maximum)	8.1		8.0		5	

[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).

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
	AL0075116	Technip USA	DSN-002

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

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	<5.0		<5.0		5	
2.	Biochemical oxygen demand (BOD_5)	<3.0	N/A	<3.0	N/A	3	
3.	Chemical oxygen demand (COD)	18	N/A	17.6	N/A	3	
4.	Total suspended solids (TSS)	2400	N/A	1123.4	N/A	5	
5.	Total phosphorus	N/A	N/A	N/A	N/A	N/A	
6.	Total Kjeldahl nitrogen (TKN)	N/A	N/A	N/A	N/A	N/A	
7.	Total nitrogen (as N)	N/A	N/A	N/A	N/A	N/A	
8.	pH (minimum)	8.3		8.2		5	
	pH (maximum)	8.7		8.6		5	

[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).

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
	AL0075116	Technip USA	DSN-004

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

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	<5.0		<5.0		5	
2.	Biochemical oxygen demand (BODs)	<3.0	N/A	<3.0	N/A	3	
3.	Chemical oxygen demand (COD)	14	N/A	15.5	N/A	3	
4.	Total suspended solids (TSS)	1300	N/A	865.5	N/A	5	
5.	Total phosphorus	N/A	N/A	N/A	N/A	N/A	
6.	Total Kjeldahl nitrogen (TKN)	N/A	N/A	N/A	N/A	N/A	
7.	Total nitrogen (as N)	N/A	N/A	N/A	N/A	N/A	
8.	pH (minimum)	8.3		8.2		5	
	pH (maximum)	8.6		8.4		5	

[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).

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
	AL0075116	Technip USA	DSN-006

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

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	<5.0		<5.0		5	
2.	Biochemical oxygen demand (BOD_5)	<3.0	N/A	<3.0	N/A	3	
3.	Chemical oxygen demand (COD)	29	N/A	27.3	N/A	3	
4.	Total suspended solids (TSS)	500	N/A	357	N/A	5	
5.	Total phosphorus	N/A	N/A	N/A	N/A	N/A	
6.	Total Kjeldahl nitrogen (TKN)	N/A	N/A	N/A	N/A	N/A	
7.	Total nitrogen (as N)	N/A	N/A	N/A	N/A	N/A	
8.	pH (minimum)	8.3		8.3		5	
	pH (maximum)	8.3		8.3		5	

[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).

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
	AL0075116	Technip USA	DSN-007

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

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	<5.0		<5.0		5	
2.	Biochemical oxygen demand (BOD_5)	<3.0	N/A	<3.0	N/A	3	
3.	Chemical oxygen demand (COD)	41	N/A	31	N/A	3	
4.	Total suspended solids (TSS)	610	N/A	523	N/A	5	
5.	Total phosphorus	N/A	N/A	N/A	N/A	N/A	
6.	Total Kjeldahl nitrogen (TKN)	N/A	N/A	N/A	N/A	N/A	
7.	Total nitrogen (as N)	N/A	N/A	N/A	N/A	N/A	
8.	pH (minimum)	7.6		7.9		5	
	pH (maximum)	8.2		7.9		5	

[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).

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
	AL0075116	Technip USA	DSN-008

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

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	<5.0		<5.0		5	
2.	Biochemical oxygen demand (BOD_5)	8.6	N/A	5.6	N/A	3	
3.	Chemical oxygen demand (COD)	14	N/A	13	N/A	3	
4.	Total suspended solids (TSS)	390	N/A	312	N/A	5	
5.	Total phosphorus	N/A	N/A	N/A	N/A	N/A	
6.	Total Kjeldahl nitrogen (TKN)	N/A	N/A	N/A	N/A	N/A	
7.	Total nitrogen (as N)	N/A	N/A	N/A	N/A	N/A	
8.	pH (minimum)	8.0		8.0		5	
	pH (maximum)	8.0		8.0		5	

[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).

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
	AL0075116	Technip USA	DSN-009

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

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	<5.0		<5.0		5	
2.	Biochemical oxygen demand (BOD_5)	4.1	N/A	3.0	N/A	3	
3.	Chemical oxygen demand (COD)	<10	N/A	<10	N/A	3	
4.	Total suspended solids (TSS)	220	N/A	79	N/A	5	
5.	Total phosphorus	N/A	N/A	N/A	N/A	N/A	
6.	Total Kjeldahl nitrogen (TKN)	N/A	N/A	N/A	N/A	N/A	
7.	Total nitrogen (as N)	N/A	N/A	N/A	N/A	N/A	
8.	pH (minimum)	7.6		8.1		5	
	pH (maximum)	9.5		8.9		5	

[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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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
	AL0075116	Technip USA	DSN-001

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

TABLE C. TOXIC POLLUTANTS, CERTAIN HAZARDOUS SUBSTANCES, AND ASBESTOS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(B) and (vii))[1]

List each pollutant shown in Exhibits 2F–2, 2F–3, and 2F–4 that you know or have reason to believe is present. Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Chromium	0.034 mg/L	N/A	0.011 mg/L	N/A	3	
Benzene	<1	N/A	<1	N/A	3	
Iron	14 mg/L	N/A	6.60 mg/L	N/A	3	
Manganese	0.30 mg/L	N/A	0.061 mg/L	N/A	3	
Zinc	0.13 mg/L	N/A	0.056 mgL	N/A	3	
Copper	0.034 mg/L	N/A	0.015 mg/L	N/A	3	
Lead	<0.010 mg/L	N/A	<0.010 mg/L	N/A	3	

[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).

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
	AL0075116	Technip USA	DSN-002

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

TABLE C. TOXIC POLLUTANTS, CERTAIN HAZARDOUS SUBSTANCES, AND ASBESTOS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(B) and (vii))[1]

List each pollutant shown in Exhibits 2F–2, 2F–3, and 2F–4 that you know or have reason to believe is present. Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Chromium	0.082 mg/L	N/A	0.0273 mg/L	N/A	3	
Benzene	<1	N/A	<1	N/A	3	
Iron	46 mg/L	N/A	17.27mg/L	N/A	3	
Manganese	0.13 mg/L	N/A	0.058 mg/L	N/A	3	
Zinc	0.19 mg/L	N/A	0.076 mgL	N/A	3	
Copper	0.064 mg/L	N/A	0.025 mg/L	N/A	3	
Lead	<0.010 mg/L	N/A	<0.010 mg/L	N/A	3	

[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).

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
	AL0075116	Technip USA	DSN-004

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

TABLE C. TOXIC POLLUTANTS, CERTAIN HAZARDOUS SUBSTANCES, AND ASBESTOS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(B) and (vii))[1]

List each pollutant shown in Exhibits 2F–2, 2F–3, and 2F–4 that you know or have reason to believe is present. Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Chromium	0.049 mg/L	N/A	0.02 mg/L	N/A	3	
Benzene	<1	N/A	<1	N/A	3	
Iron	28 mg/L	N/A	27.4 mg/L	N/A	3	
Manganese	0.66 mg/L	N/A	0.838 mg/L	N/A	3	
Zinc	0.18 mg/L	N/A	0.105 mgL	N/A	3	
Copper	0.040 mg/L	N/A	0.022 mg/L	N/A	3	
Lead	0.018 mg/L	N/A	0.006 mg/L	N/A	3	

[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).

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
	AL0075116	Technip USA	DSN-006

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

TABLE C. TOXIC POLLUTANTS, CERTAIN HAZARDOUS SUBSTANCES, AND ASBESTOS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(B) and (vii))[1]

List each pollutant shown in Exhibits 2F–2, 2F–3, and 2F–4 that you know or have reason to believe is present. Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Chromium	0.31 mg/L	N/A	0.115 mg/L	N/A	3	
Benzene	<1	N/A	<1	N/A	3	
Iron	20.1 mg/L	N/A	13.7 mg/L	N/A	3	
Manganese	0.21 mg/L	N/A	0.337 mg/L	N/A	3	
Zinc	0.51 mg/L	N/A	0.193 mgL	N/A	3	
Copper	0.077 mg/L	N/A	0.043 mg/L	N/A	3	
Lead	0.029 mg/L	N/A	0.015 mg/L	N/A	3	

[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).

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
	AL0075116	Technip USA	DSN-007

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

TABLE C. TOXIC POLLUTANTS, CERTAIN HAZARDOUS SUBSTANCES, AND ASBESTOS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(B) and (vii))[1]

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Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Chromium	0.037 mg/L	N/A	0.024 mg/L	N/A	3	
Benzene	<1	N/A	<1	N/A	3	
Iron	20.2 mg/L	N/A	13.7 mg/L	N/A	3	
Manganese	0.40 mg/L	N/A	0.268 mg/L	N/A	3	
Zinc	0.71 mg/L	N/A	0.46 mgL	N/A	3	
Copper	0.078 mg/L	N/A	0.046 mg/L	N/A	3	
Lead	0.029 mg/L	N/A	0.016 mg/L	N/A	3	

[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).

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
	AL0075116	Technip USA	DSN-008

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

TABLE C. TOXIC POLLUTANTS, CERTAIN HAZARDOUS SUBSTANCES, AND ASBESTOS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(B) and (vii))[1]

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Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Chromium	0.037 mg/L	N/A	0.024 mg/L	N/A	3	
Benzene	<1	N/A	<1	N/A	3	
Iron	19 mg/L	N/A	7.34 mg/L	N/A	3	
Manganese	0.40 mg/L	N/A	0.256 mg/L	N/A	3	
Zinc	0.68 mg/L	N/A	0.237 mgL	N/A	3	
Copper	0.057 mg/L	N/A	0.019 mg/L	N/A	3	
Lead	0.019 mg/L	N/A	0.006 mg/L	N/A	3	

[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).

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
	AL0075116	Technip USA	DSN-009

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

TABLE C. TOXIC POLLUTANTS, CERTAIN HAZARDOUS SUBSTANCES, AND ASBESTOS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(B) and (vii))[1]

List each pollutant shown in Exhibits 2F–2, 2F–3, and 2F–4 that you know or have reason to believe is present. Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Chromium	0.0 mg/L	N/A	0.0 mg/L	N/A	3	
Benzene	<1	N/A	<1	N/A	3	
Iron	2.1 mg/L	N/A	1.04 mg/L	N/A	3	
Manganese	0.34 mg/L	N/A	0.022 mg/L	N/A	3	
Zinc	0.080 mg/L	N/A	0.041 mgL	N/A	3	
Copper	0.025 mg/L	N/A	0.008 mg/L	N/A	3	
Lead	0.0 mg/L	N/A	0.00 mg/L	N/A	3	

[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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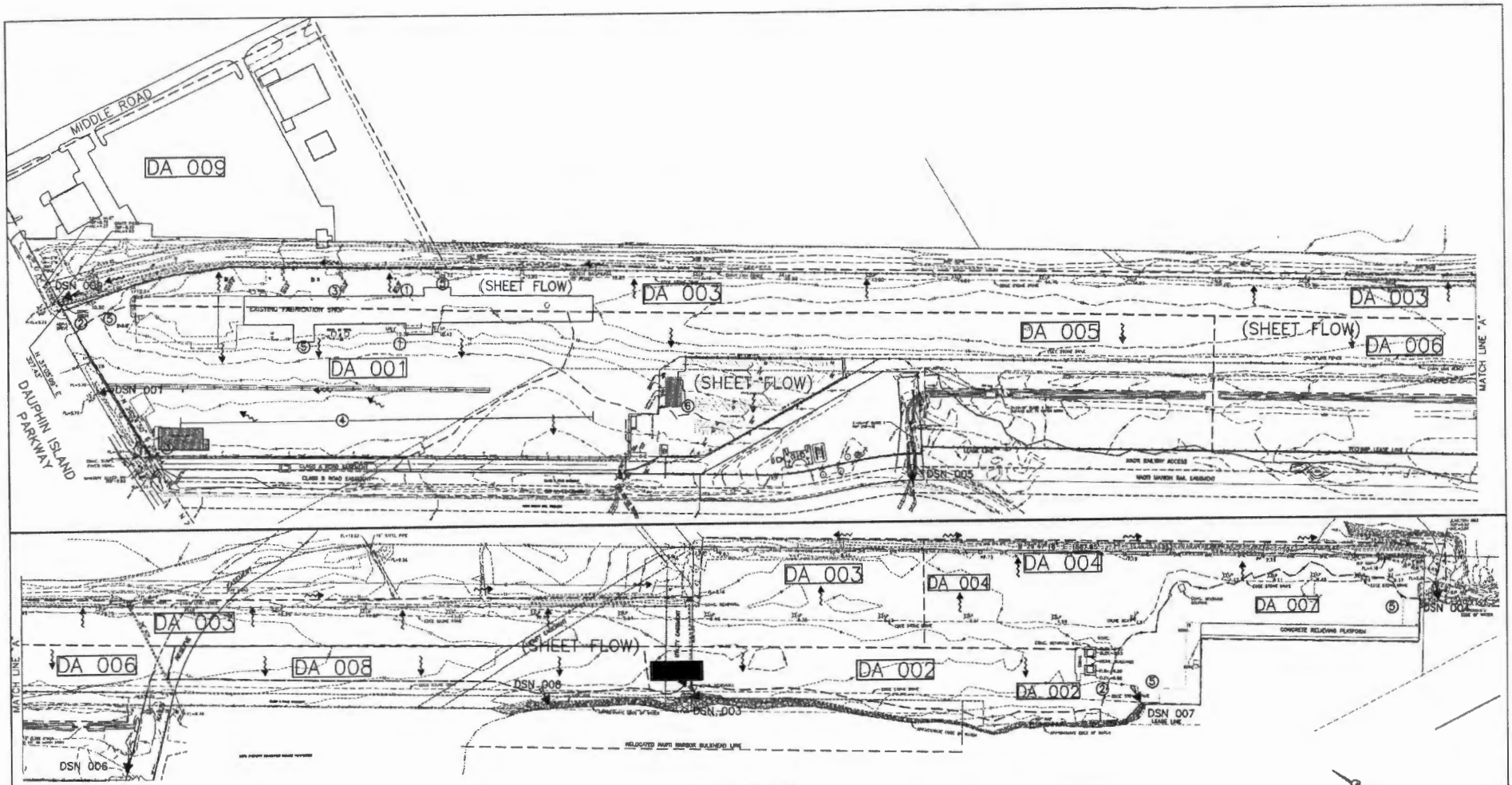
EPA#	NPDES Permit Number	Facility Name
	AL0075116	Technip USA

section 1.1

DSN-007	Middle Fork of Deer River	30.526111, -88.094668
DSN-008	Middle Fork of Deer River	30.530017, -88.097538
DSN-009	Middle Fork of Deer River	30.540292, -88.103654

Section 4.1

Out fall #	Impervious Surface Area	Total surface area
dsn-007	0.05 acres	2.4 acres
dsn-008	0.05acres	2.2 acres
dsn-009	4.2acres	8.5 acres



MATERIALS LOCATIONS

① COATING MATERIAL STORAGE
② RECYCLE METAL STORAGE CONTAINER
③ OIL STORAGE
④ PIPE STORAGE AREA
⑤ TRASH DUMPSTER
⑥ FUELING TRUCK PARKING AREA

LEGEND

DSN 001 DISCHARGE LOCATION
DRAINAGE AREA BOUNDARY
GENERAL FLOW DIRECTION

100 0 100 200 300
GRAPHIC SCALE

TECHNIP USA THEODORE, ALABAMA	NPDES PERMIT AL0075116
thompson engineering	FIGURE 3 DRAINAGE AREA MAP
AS NOTED · 1:1 · WPT · DTB · EXB · JULY 2017 · 17-1101-0113 · 0	

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-181074-1
Client Project/Site: Theodore Spoolbase

For:
TechnipFMC
Mobile Spoolbase
7323 Dauphin Island Parkway
Theodore, Alabama 36582

Attn: Jason Hearon

Authorized for release by:
12/30/2019 3:42:25 PM

Taylor Bruzzio, Project Manager I
(850)471-6226
taylor.bruzzio@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Job ID: 400-181074-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-181074-1

Comments
No additional comments.

Receipt
The samples were received on 12/11/2019 3:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 7 coolers at receipt time were 0.0° C, 0.0° C, 0.0° C, 0.0° C, 0.0° C, 0.2° C and 0.3° C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method SM 5210B: The sample duplicate precision for the following sample associated with analytical batch 400-469883 was outside control limits: (400-181074-F-1 DU). The associated Laboratory Control Sample (LCS) precision met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Methods 1664A, 1664B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 400-471247.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: TechnipFMC
Project/Site: Theodore Spoolbase

Job ID: 400-181074-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-181074-1	OUTFALL 1	Water	12/11/19 07:50	12/11/19 15:35	
400-181074-2	OUTFALL 2	Water	12/11/19 08:00	12/11/19 15:35	
400-181074-3	OUTFALL 4	Water	12/11/19 08:40	12/11/19 15:35	
400-181074-4	OUTFALL 6	Water	12/11/19 08:10	12/11/19 15:35	
400-181074-5	OUTFALL 7	Water	12/11/19 08:30	12/11/19 15:35	
400-181074-6	OUTFALL 8	Water	12/11/19 08:20	12/11/19 15:35	
400-181074-7	OUTFALL 9	Water	12/11/19 07:40	12/11/19 15:35	

Client: TechnipFMC
Project/Site: Theodore Spoolbase

Job ID: 400-181074-1

Client Sample ID: OUTFALL 1
Date Collected: 12/11/19 07:50
Date Received: 12/11/19 15:35

Lab Sample ID: 400-181074-1
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			12/25/19 15:31	1
Ethylbenzene	<1.0		1.0		ug/L			12/25/19 15:31	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			12/25/19 15:31	1
o-Xylene	<5.0		5.0		ug/L			12/25/19 15:31	1
Toluene	<1.0		1.0		ug/L			12/25/19 15:31	1
Xylenes, Total	<10		10		ug/L			12/25/19 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*12/25/19 15:31*	*1*
Dibromofluoromethane	*90*		*81 - 121*		*12/25/19 15:31*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*12/25/19 15:31*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.010		mg/L		12/22/19 17:41	12/23/19 23:42	1
Copper	<0.020		0.020		mg/L		12/22/19 17:41	12/23/19 23:42	1
Iron	**1.6**		0.20		mg/L		12/22/19 17:41	12/24/19 21:04	1
Manganese	**0.046**		0.010		mg/L		12/22/19 17:41	12/23/19 23:42	1
Lead	<0.010		0.010		mg/L		12/22/19 17:41	12/23/19 23:42	1
Zinc	**0.028**		0.020		mg/L		12/22/19 17:41	12/23/19 23:42	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.1**	**HF**			SU			12/20/19 09:44	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**260**		5.0		mg/L			12/17/19 12:55	1
Total Suspended Solids	**93**		5.0		mg/L			12/17/19 16:36	1
HEM (Oil & Grease)	<4.3		4.3		mg/L		12/21/19 08:00	12/23/19 10:35	1
Biochemical Oxygen Demand	**4.0**		2.0		mg/L			12/12/19 13:50	1
Chemical Oxygen Demand	**21**		10		mg/L			12/19/19 15:28	1

Client Sample ID: OUTFALL 2
Date Collected: 12/11/19 08:00
Date Received: 12/11/19 15:35

Lab Sample ID: 400-181074-2
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			12/25/19 15:53	1
Ethylbenzene	<1.0		1.0		ug/L			12/25/19 15:53	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			12/25/19 15:53	1
o-Xylene	<5.0		5.0		ug/L			12/25/19 15:53	1
Toluene	<1.0		1.0		ug/L			12/25/19 15:53	1
Xylenes, Total	<10		10		ug/L			12/25/19 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*78 - 118*		*12/25/19 15:53*	*1*
Dibromofluoromethane	*91*		*81 - 121*		*12/25/19 15:53*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*12/25/19 15:53*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.010		mg/L		12/22/19 17:41	12/23/19 23:46	1
Copper	<0.020		0.020		mg/L		12/22/19 17:41	12/23/19 23:46	1
Iron	**0.82**		0.20		mg/L		12/22/19 17:41	12/24/19 21:07	1
Manganese	**0.024**		0.010		mg/L		12/22/19 17:41	12/23/19 23:46	1
Lead	<0.010		0.010		mg/L		12/22/19 17:41	12/23/19 23:46	1
Zinc	<0.020		0.020		mg/L		12/22/19 17:41	12/23/19 23:46	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.1**	**HF**			SU			12/20/19 09:44	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**84**		5.0		mg/L			12/17/19 12:55	1
Total Suspended Solids	**11**		5.0		mg/L			12/17/19 14:00	1
HEM (Oil & Grease)	<4.4		4.4		mg/L		12/21/19 08:00	12/23/19 10:35	1
Biochemical Oxygen Demand	**3.8**		2.0		mg/L			12/12/19 13:54	1
Chemical Oxygen Demand	<10		10		mg/L			12/19/19 15:28	1

Client Sample ID: OUTFALL 4
Date Collected: 12/11/19 08:40
Date Received: 12/11/19 15:35

Lab Sample ID: 400-181074-3
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			12/25/19 16:15	1
Ethylbenzene	<1.0		1.0		ug/L			12/25/19 16:15	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			12/25/19 16:15	1
o-Xylene	<5.0		5.0		ug/L			12/25/19 16:15	1
Toluene	<1.0		1.0		ug/L			12/25/19 16:15	1
Xylenes, Total	<10		10		ug/L			12/25/19 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*78 - 118*		*12/25/19 16:15*	*1*
Dibromofluoromethane	*89*		*81 - 121*		*12/25/19 16:15*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*12/25/19 16:15*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.011**		0.010		mg/L		12/22/19 17:41	12/23/19 23:49	1
Copper	**0.026**		0.020		mg/L		12/22/19 17:41	12/23/19 23:49	1
Iron	**5.0**		0.20		mg/L		12/22/19 17:41	12/24/19 21:11	1
Manganese	**0.084**		0.010		mg/L		12/22/19 17:41	12/23/19 23:49	1
Lead	<0.010		0.010		mg/L		12/22/19 17:41	12/23/19 23:49	1
Zinc	**0.18**		0.020		mg/L		12/22/19 17:41	12/23/19 23:49	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.2**	**HF**			SU			12/20/19 09:44	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**150**		5.0		mg/L			12/17/19 12:55	1
Total Suspended Solids	**100**		5.0		mg/L			12/17/19 14:00	1
HEM (Oil & Grease)	<4.4		4.4		mg/L		12/21/19 08:00	12/23/19 10:35	1
Biochemical Oxygen Demand	**5.7**		2.0		mg/L			12/12/19 13:56	1
Chemical Oxygen Demand	<10		10		mg/L			12/19/19 15:28	1

Client: TechnipFMC
Project/Site: Theodore Spoolbase

Job ID: 400-181074-1

Client Sample ID: OUTFALL 6
Date Collected: 12/11/19 08:10
Date Received: 12/11/19 15:35

Lab Sample ID: 400-181074-4
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			12/25/19 16:37	1
Ethylbenzene	<1.0		1.0		ug/L			12/25/19 16:37	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			12/25/19 16:37	1
o-Xylene	<5.0		5.0		ug/L			12/25/19 16:37	1
Toluene	<1.0		1.0		ug/L			12/25/19 16:37	1
Xylenes, Total	<10		10		ug/L			12/25/19 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*78 - 118*		*12/25/19 16:37*	*1*
Dibromofluoromethane	*93*		*81 - 121*		*12/25/19 16:37*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*12/25/19 16:37*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.010		mg/L		12/22/19 17:41	12/23/19 23:53	1
Copper	<0.020		0.020		mg/L		12/22/19 17:41	12/23/19 23:53	1
Iron	**2.1**		0.20		mg/L		12/22/19 17:41	12/24/19 21:15	1
Manganese	**0.051**		0.010		mg/L		12/22/19 17:41	12/23/19 23:53	1
Lead	<0.010		0.010		mg/L		12/22/19 17:41	12/23/19 23:53	1
Zinc	<0.020		0.020		mg/L		12/22/19 17:41	12/23/19 23:53	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.1**	**HF**			SU			12/20/19 09:44	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**150**		5.0		mg/L			12/17/19 12:55	1
Total Suspended Solids	**38**		5.0		mg/L			12/17/19 14:11	1
HEM (Oil & Grease)	<4.3		4.3		mg/L		12/21/19 08:00	12/23/19 10:35	1
Biochemical Oxygen Demand	**3.9**		2.0		mg/L			12/12/19 13:58	1
Chemical Oxygen Demand	<10		10		mg/L			12/19/19 15:28	1

Client: TechnipFMC
Project/Site: Theodore Spoolbase

Job ID: 400-181074-1

Client Sample ID: OUTFALL 7
Date Collected: 12/11/19 08:30
Date Received: 12/11/19 15:35

Lab Sample ID: 400-181074-5
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			12/25/19 16:59	1
Ethylbenzene	<1.0		1.0		ug/L			12/25/19 16:59	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			12/25/19 16:59	1
o-Xylene	<5.0		5.0		ug/L			12/25/19 16:59	1
Toluene	<1.0		1.0		ug/L			12/25/19 16:59	1
Xylenes, Total	<10		10		ug/L			12/25/19 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*78 - 118*		*12/25/19 16:59*	*1*
Dibromofluoromethane	*91*		*81 - 121*		*12/25/19 16:59*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*12/25/19 16:59*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.010		mg/L		12/22/19 17:41	12/23/19 23:56	1
Copper	<0.020		0.020		mg/L		12/22/19 17:41	12/23/19 23:56	1
Iron	**1.5**		0.20		mg/L		12/22/19 17:41	12/24/19 21:18	1
Manganese	**0.12**		0.010		mg/L		12/22/19 17:41	12/23/19 23:56	1
Lead	<0.010		0.010		mg/L		12/22/19 17:41	12/23/19 23:56	1
Zinc	<0.020		0.020		mg/L		12/22/19 17:41	12/23/19 23:56	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.9**	**HF**			SU			12/20/19 09:44	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**410**		5.0		mg/L			12/17/19 12:55	1
Total Suspended Solids	**12**		5.0		mg/L			12/17/19 14:00	1
HEM (Oil & Grease)	<4.4		4.4		mg/L		12/21/19 08:00	12/23/19 10:35	1
Biochemical Oxygen Demand	**5.6**		2.0		mg/L			12/12/19 13:59	1
Chemical Oxygen Demand	**23**		10		mg/L			12/19/19 15:28	1

Client: TechnipFMC
Project/Site: Theodore Spoolbase

Job ID: 400-181074-1

Client Sample ID: OUTFALL 8
Date Collected: 12/11/19 08:20
Date Received: 12/11/19 15:35

Lab Sample ID: 400-181074-6
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			12/25/19 17:21	1
Ethylbenzene	<1.0		1.0		ug/L			12/25/19 17:21	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			12/25/19 17:21	1
o-Xylene	<5.0		5.0		ug/L			12/25/19 17:21	1
Toluene	<1.0		1.0		ug/L			12/25/19 17:21	1
Xylenes, Total	<10		10		ug/L			12/25/19 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*78 - 118*		*12/25/19 17:21*	*1*
Dibromofluoromethane	*88*		*81 - 121*		*12/25/19 17:21*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*12/25/19 17:21*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.010		mg/L		12/22/19 17:41	12/24/19 00:11	1
Copper	<0.020		0.020		mg/L		12/22/19 17:41	12/24/19 00:11	1
Iron	**0.44**		0.20		mg/L		12/22/19 17:41	12/24/19 21:22	1
Manganese	**0.31**		0.010		mg/L		12/22/19 17:41	12/24/19 00:11	1
Lead	<0.010		0.010		mg/L		12/22/19 17:41	12/24/19 00:11	1
Zinc	<0.020		0.020		mg/L		12/22/19 17:41	12/24/19 00:11	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.0**	**HF**			SU			12/20/19 09:44	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**700**		10		mg/L			12/17/19 12:55	1
Total Suspended Solids	<5.0		5.0		mg/L			12/17/19 14:11	1
HEM (Oil & Grease)	<4.3		4.3		mg/L		12/21/19 08:00	12/23/19 10:35	1
Biochemical Oxygen Demand	**5.3**		2.0		mg/L			12/12/19 14:01	1
Chemical Oxygen Demand	**14**		10		mg/L			12/19/19 15:28	1

Client: TechnipFMC
Project/Site: Theodore Spoolbase

Job ID: 400-181074-1

Client Sample ID: OUTFALL 9
Date Collected: 12/11/19 07:40
Date Received: 12/11/19 15:35

Lab Sample ID: 400-181074-7
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			12/25/19 17:44	1
Ethylbenzene	<1.0		1.0		ug/L			12/25/19 17:44	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			12/25/19 17:44	1
o-Xylene	<5.0		5.0		ug/L			12/25/19 17:44	1
Toluene	<1.0		1.0		ug/L			12/25/19 17:44	1
Xylenes, Total	<10		10		ug/L			12/25/19 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*78 - 118*		*12/25/19 17:44*	*1*
Dibromofluoromethane	*88*		*81 - 121*		*12/25/19 17:44*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*12/25/19 17:44*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.010		mg/L		12/22/19 17:41	12/24/19 00:15	1
Copper	<0.020		0.020		mg/L		12/22/19 17:41	12/24/19 00:15	1
Iron	**2.1**		0.20		mg/L		12/22/19 17:41	12/24/19 21:26	1
Manganese	**0.034**		0.010		mg/L		12/22/19 17:41	12/24/19 00:15	1
Lead	<0.010		0.010		mg/L		12/22/19 17:41	12/24/19 00:15	1
Zinc	**0.030**		0.020		mg/L		12/22/19 17:41	12/24/19 00:15	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.1**	**HF**			SU			12/20/19 09:44	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**300**		5.0		mg/L			12/17/19 12:55	1
Total Suspended Solids	**220**		5.0		mg/L			12/17/19 14:00	1
HEM (Oil & Grease)	<4.6		4.6		mg/L		12/21/19 08:00	12/23/19 10:35	1
Biochemical Oxygen Demand	**4.1**		2.0		mg/L			12/12/19 14:02	1
Chemical Oxygen Demand	<10		10		mg/L			12/19/19 15:28	1

Qualifiers

Metals

Qualifier	Qualifier Description
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
F3	Duplicate RPD exceeds the control limit
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-471743/30
Matrix: Water
Analysis Batch: 471743

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			12/25/19 15:09	1
Ethylbenzene	<1.0		1.0		ug/L			12/25/19 15:09	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			12/25/19 15:09	1
o-Xylene	<5.0		5.0		ug/L			12/25/19 15:09	1
Toluene	<1.0		1.0		ug/L			12/25/19 15:09	1
Xylenes, Total	<10		10		ug/L			12/25/19 15:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*78 - 118*		*12/25/19 15:09*	*1*
Dibromofluoromethane	*91*		*81 - 121*		*12/25/19 15:09*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*12/25/19 15:09*	*1*

Lab Sample ID: LCS 400-471743/1002
Matrix: Water
Analysis Batch: 471743

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	21.9		ug/L		110	37 - 151
Ethylbenzene	20.0	22.4		ug/L		112	37 - 162
m-Xylene & p-Xylene	20.0	22.0		ug/L		110	66 - 130
o-Xylene	20.0	22.0		ug/L		110	71 - 125
Toluene	20.0	21.8		ug/L		109	47 - 150
Xylenes, Total	40.0	44.0		ug/L		110	70 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*92*		*78 - 118*
Dibromofluoromethane	*95*		*81 - 121*
Toluene-d8 (Surr)	*93*		*80 - 120*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 400-471372/1-A
Matrix: Water
Analysis Batch: 471593

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 471372

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.010		mg/L		12/22/19 17:41	12/23/19 22:51	1
Copper	<0.020		0.020		mg/L		12/22/19 17:41	12/23/19 22:51	1
Iron	<0.20	^	0.20		mg/L		12/22/19 17:41	12/23/19 22:51	1
Manganese	<0.010		0.010		mg/L		12/22/19 17:41	12/23/19 22:51	1
Lead	<0.010		0.010		mg/L		12/22/19 17:41	12/23/19 22:51	1
Zinc	<0.020		0.020		mg/L		12/22/19 17:41	12/23/19 22:51	1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MB 400-471372/1-A
Matrix: Water
Analysis Batch: 471791

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 471372

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.010		mg/L		12/22/19 17:41	12/24/19 20:32	1
Copper	<0.020		0.020		mg/L		12/22/19 17:41	12/24/19 20:32	1
Iron	<0.20		0.20		mg/L		12/22/19 17:41	12/24/19 20:32	1
Manganese	<0.010		0.010		mg/L		12/22/19 17:41	12/24/19 20:32	1
Lead	<0.010		0.010		mg/L		12/22/19 17:41	12/24/19 20:32	1
Zinc	<0.020		0.020		mg/L		12/22/19 17:41	12/24/19 20:32	1

Lab Sample ID: LCS 400-471372/2-A
Matrix: Water
Analysis Batch: 471593

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 471372

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	1.00	1.04		mg/L		104	85 - 115
Copper	1.00	1.06		mg/L		106	85 - 115
Manganese	1.00	1.06		mg/L		106	85 - 115
Lead	1.00	1.01		mg/L		101	85 - 115
Zinc	1.00	1.01		mg/L		101	85 - 115

Lab Sample ID: LCS 400-471372/2-A
Matrix: Water
Analysis Batch: 471791

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 471372

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	1.00	1.02		mg/L		102	85 - 115
Copper	1.00	0.997		mg/L		100	85 - 115
Iron	10.0	10.2		mg/L		102	85 - 115
Manganese	1.00	1.01		mg/L		101	85 - 115
Lead	1.00	0.999		mg/L		100	85 - 115
Zinc	1.00	1.01		mg/L		101	85 - 115

Method: 160.1 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 400-470501/1
Matrix: Water
Analysis Batch: 470501

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.0		5.0		mg/L			12/17/19 12:55	1

Lab Sample ID: LCS 400-470501/2
Matrix: Water
Analysis Batch: 470501

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	293	348		mg/L		119	78 - 122

Method: 160.1 - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 400-181074-5 DU
Matrix: Water
Analysis Batch: 470501

Client Sample ID: OUTFALL 7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	410		414		mg/L		0.5	5

Method: 160.2 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 400-470514/1
Matrix: Water
Analysis Batch: 470514

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.0		5.0		mg/L			12/17/19 14:00	1

Lab Sample ID: LCS 400-470514/2
Matrix: Water
Analysis Batch: 470514

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	260	253		mg/L		97	82 - 118

Lab Sample ID: MB 400-470524/1
Matrix: Water
Analysis Batch: 470524

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.0		5.0		mg/L			12/17/19 14:11	1

Lab Sample ID: LCS 400-470524/2
Matrix: Water
Analysis Batch: 470524

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	260	246		mg/L		95	82 - 118

Lab Sample ID: MB 400-470563/1
Matrix: Water
Analysis Batch: 470563

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.0		5.0		mg/L			12/17/19 16:36	1

Lab Sample ID: LCS 400-470563/2
Matrix: Water
Analysis Batch: 470563

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	288	272		mg/L		94	82 - 118

Method: 1664A - Oil and Grease

Lab Sample ID: MB 400-471247/1-A
Matrix: Water
Analysis Batch: 471425

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 471247

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	<4.0		4.0		mg/L		12/21/19 08:00	12/23/19 10:35	1

Lab Sample ID: LCS 400-471247/2-A
Matrix: Water
Analysis Batch: 471425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 471247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	40.0	31.10		mg/L		78	78 - 114

Lab Sample ID: LCSD 400-471247/3-A
Matrix: Water
Analysis Batch: 471425

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 471247

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
HEM (Oil & Grease)	40.0	32.10		mg/L		80	78 - 114	3	18

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 400-469883/1
Matrix: Water
Analysis Batch: 469883

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	<2.0		2.0		mg/L			12/12/19 15:36	1

Lab Sample ID: LCS 400-469883/2
Matrix: Water
Analysis Batch: 469883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	173		mg/L		87	85 - 115

Lab Sample ID: 400-181074-1 DU
Matrix: Water
Analysis Batch: 469883

Client Sample ID: OUTFALL 1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Biochemical Oxygen Demand	4.0		9.24	F3	mg/L		80	27

Method: SM 5220D - COD

Lab Sample ID: MB 400-470953/4
Matrix: Water
Analysis Batch: 470953

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	<10		10		mg/L			12/19/19 15:28	1

Method: SM 5220D - COD (Continued)

Lab Sample ID: LCS 400-470953/5
Matrix: Water
Analysis Batch: 470953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	50.0	45.6		mg/L		91	90 - 110

Lab Sample ID: MRL 400-470953/2
Matrix: Water
Analysis Batch: 470953

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	30.1	27.2		mg/L		90	50 - 150

Lab Sample ID: 400-181074-1 MS
Matrix: Water
Analysis Batch: 470953

Client Sample ID: OUTFALL 1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	21		50.2	75.3		mg/L		107	90 - 110

Lab Sample ID: 400-181074-1 MSD
Matrix: Water
Analysis Batch: 470953

Client Sample ID: OUTFALL 1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	21		50.2	73.6		mg/L		104	90 - 110	2	13

Lab Chronicle

Client: TechnipFMC
Project/Site: Theodore Spoolbase

Job ID: 400-181074-1

Client Sample ID: OUTFALL 1

Lab Sample ID: 400-181074-1

Date Collected: 12/11/19 07:50
Matrix: Water
Date Received: 12/11/19 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	471743	12/25/19 15:31	BSW	TAL PEN
Total/NA	Prep	200.7			50 mL	50 mL	471372	12/22/19 17:41	NET	TAL PEN
Total/NA	Analysis	200.7 Rev 4.4		1			471593	12/23/19 23:42	CTH	TAL PEN
Total/NA	Prep	200.7			50 mL	50 mL	471372	12/22/19 17:41	NET	TAL PEN
Total/NA	Analysis	200.7 Rev 4.4		1			471791	12/24/19 21:04	CTH	TAL PEN
Total/NA	Analysis	150.1		1			471082	12/20/19 09:44	NT	TAL PEN
Total/NA	Analysis	160.1		1	50 mL	50 mL	470501	12/17/19 12:55	NT	TAL PEN
Total/NA	Analysis	160.2		1	100 mL	100 mL	470563	12/17/19 16:36	NT	TAL PEN
Total/NA	Prep	1664A			935 mL	1000 mL	471247	12/21/19 08:00	DRL	TAL PEN
Total/NA	Analysis	1664A		1			471425	12/23/19 10:35	DRL	TAL PEN
Total/NA	Analysis	SM 5210B		1	300 mL	300 mL	469883		JP	TAL PEN
							(Start)	12/12/19 13:50		
							(End)	12/17/19 13:20		
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	470953	12/19/19 15:28	RRC	TAL PEN

Client Sample ID: OUTFALL 2

Lab Sample ID: 400-181074-2

Date Collected: 12/11/19 08:00
Matrix: Water
Date Received: 12/11/19 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	471743	12/25/19 15:53	BSW	TAL PEN
Total/NA	Prep	200.7			50 mL	50 mL	471372	12/22/19 17:41	NET	TAL PEN
Total/NA	Analysis	200.7 Rev 4.4		1			471593	12/23/19 23:46	CTH	TAL PEN
Total/NA	Prep	200.7			50 mL	50 mL	471372	12/22/19 17:41	NET	TAL PEN
Total/NA	Analysis	200.7 Rev 4.4		1			471791	12/24/19 21:07	CTH	TAL PEN
Total/NA	Analysis	150.1		1			471082	12/20/19 09:44	NT	TAL PEN
Total/NA	Analysis	160.1		1	50 mL	50 mL	470501	12/17/19 12:55	NT	TAL PEN
Total/NA	Analysis	160.2		1	100 mL	100 mL	470514	12/17/19 14:00	CLB	TAL PEN
Total/NA	Prep	1664A			904 mL	1000 mL	471247	12/21/19 08:00	DRL	TAL PEN
Total/NA	Analysis	1664A		1			471425	12/23/19 10:35	DRL	TAL PEN
Total/NA	Analysis	SM 5210B		1	300 mL	300 mL	469883		JP	TAL PEN
							(Start)	12/12/19 13:54		
							(End)	12/17/19 13:20		
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	470953	12/19/19 15:28	RRC	TAL PEN

Client Sample ID: OUTFALL 4

Lab Sample ID: 400-181074-3

Date Collected: 12/11/19 08:40
Matrix: Water
Date Received: 12/11/19 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	471743	12/25/19 16:15	BSW	TAL PEN
Total/NA	Prep	200.7			50 mL	50 mL	471372	12/22/19 17:41	NET	TAL PEN
Total/NA	Analysis	200.7 Rev 4.4		1			471593	12/23/19 23:49	CTH	TAL PEN

Client Sample ID: OUTFALL 4
Date Collected: 12/11/19 08:40
Date Received: 12/11/19 15:35

Lab Sample ID: 400-181074-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			50 mL	50 mL	471372	12/22/19 17:41	NET	TAL PEN
Total/NA	Analysis	200.7 Rev 4.4		1			471791	12/24/19 21:11	CTH	TAL PEN
Total/NA	Analysis	150.1		1			471082	12/20/19 09:44	NT	TAL PEN
Total/NA	Analysis	160.1		1	50 mL	50 mL	470501	12/17/19 12:55	NT	TAL PEN
Total/NA	Analysis	160.2		1	100 mL	100 mL	470514	12/17/19 14:00	CLB	TAL PEN
Total/NA	Prep	1664A			916 mL	1000 mL	471247	12/21/19 08:00	DRL	TAL PEN
Total/NA	Analysis	1664A		1			471425	12/23/19 10:35	DRL	TAL PEN
Total/NA	Analysis	SM 5210B		1	300 mL	300 mL	469883		JP	TAL PEN
							(Start)	12/12/19 13:56		
							(End)	12/17/19 13:20		
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	470953	12/19/19 15:28	RRC	TAL PEN

Client Sample ID: OUTFALL 6
Date Collected: 12/11/19 08:10
Date Received: 12/11/19 15:35

Lab Sample ID: 400-181074-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	471743	12/25/19 16:37	BSW	TAL PEN
Total/NA	Prep	200.7			50 mL	50 mL	471372	12/22/19 17:41	NET	TAL PEN
Total/NA	Analysis	200.7 Rev 4.4		1			471593	12/23/19 23:53	CTH	TAL PEN
Total/NA	Prep	200.7			50 mL	50 mL	471372	12/22/19 17:41	NET	TAL PEN
Total/NA	Analysis	200.7 Rev 4.4		1			471791	12/24/19 21:15	CTH	TAL PEN
Total/NA	Analysis	150.1		1			471082	12/20/19 09:44	NT	TAL PEN
Total/NA	Analysis	160.1		1	50 mL	50 mL	470501	12/17/19 12:55	NT	TAL PEN
Total/NA	Analysis	160.2		1	100 mL	100 mL	470524	12/17/19 14:11	CLB	TAL PEN
Total/NA	Prep	1664A			934 mL	1000 mL	471247	12/21/19 08:00	DRL	TAL PEN
Total/NA	Analysis	1664A		1			471425	12/23/19 10:35	DRL	TAL PEN
Total/NA	Analysis	SM 5210B		1	300 mL	300 mL	469883		JP	TAL PEN
							(Start)	12/12/19 13:58		
							(End)	12/17/19 13:20		
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	470953	12/19/19 15:28	RRC	TAL PEN

Client Sample ID: OUTFALL 7
Date Collected: 12/11/19 08:30
Date Received: 12/11/19 15:35

Lab Sample ID: 400-181074-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	471743	12/25/19 16:59	BSW	TAL PEN
Total/NA	Prep	200.7			50 mL	50 mL	471372	12/22/19 17:41	NET	TAL PEN
Total/NA	Analysis	200.7 Rev 4.4		1			471593	12/23/19 23:56	CTH	TAL PEN
Total/NA	Prep	200.7			50 mL	50 mL	471372	12/22/19 17:41	NET	TAL PEN
Total/NA	Analysis	200.7 Rev 4.4		1			471791	12/24/19 21:18	CTH	TAL PEN
Total/NA	Analysis	150.1		1			471082	12/20/19 09:44	NT	TAL PEN
Total/NA	Analysis	160.1		1	50 mL	50 mL	470501	12/17/19 12:55	NT	TAL PEN

Client Sample ID: OUTFALL 7 — **Lab Sample ID: 400-181074-5**
Date Collected: 12/11/19 08:30 — **Matrix: Water**
Date Received: 12/11/19 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.2		1	100 mL	100 mL	470514	12/17/19 14:00	CLB	TAL PEN
Total/NA	Prep	1664A			906 mL	1000 mL	471247	12/21/19 08:00	DRL	TAL PEN
Total/NA	Analysis	1664A		1			471425	12/23/19 10:35	DRL	TAL PEN
Total/NA	Analysis	SM 5210B		1	300 mL	300 mL	469883		JP	TAL PEN
							(Start)	12/12/19 13:59		
							(End)	12/17/19 13:20		
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	470953	12/19/19 15:28	RRC	TAL PEN

Client Sample ID: OUTFALL 8 — **Lab Sample ID: 400-181074-6**
Date Collected: 12/11/19 08:20 — **Matrix: Water**
Date Received: 12/11/19 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	471743	12/25/19 17:21	BSW	TAL PEN
Total/NA	Prep	200.7			50 mL	50 mL	471372	12/22/19 17:41	NET	TAL PEN
Total/NA	Analysis	200.7 Rev 4.4		1			471593	12/24/19 00:11	CTH	TAL PEN
Total/NA	Prep	200.7			50 mL	50 mL	471372	12/22/19 17:41	NET	TAL PEN
Total/NA	Analysis	200.7 Rev 4.4		1			471791	12/24/19 21:22	CTH	TAL PEN
Total/NA	Analysis	150.1		1			471082	12/20/19 09:44	NT	TAL PEN
Total/NA	Analysis	160.1		1	25 mL	50 mL	470501	12/17/19 12:55	NT	TAL PEN
Total/NA	Analysis	160.2		1	100 mL	100 mL	470524	12/17/19 14:11	CLB	TAL PEN
Total/NA	Prep	1664A			924 mL	1000 mL	471247	12/21/19 08:00	DRL	TAL PEN
Total/NA	Analysis	1664A		1			471425	12/23/19 10:35	DRL	TAL PEN
Total/NA	Analysis	SM 5210B		1	300 mL	300 mL	469883		JP	TAL PEN
							(Start)	12/12/19 14:01		
							(End)	12/17/19 13:20		
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	470953	12/19/19 15:28	RRC	TAL PEN

Client Sample ID: OUTFALL 9 — **Lab Sample ID: 400-181074-7**
Date Collected: 12/11/19 07:40 — **Matrix: Water**
Date Received: 12/11/19 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	471743	12/25/19 17:44	BSW	TAL PEN
Total/NA	Prep	200.7			50 mL	50 mL	471372	12/22/19 17:41	NET	TAL PEN
Total/NA	Analysis	200.7 Rev 4.4		1			471593	12/24/19 00:15	CTH	TAL PEN
Total/NA	Prep	200.7			50 mL	50 mL	471372	12/22/19 17:41	NET	TAL PEN
Total/NA	Analysis	200.7 Rev 4.4		1			471791	12/24/19 21:26	CTH	TAL PEN
Total/NA	Analysis	150.1		1			471082	12/20/19 09:44	NT	TAL PEN
Total/NA	Analysis	160.1		1	50 mL	50 mL	470501	12/17/19 12:55	NT	TAL PEN
Total/NA	Analysis	160.2		1	100 mL	100 mL	470514	12/17/19 14:00	CLB	TAL PEN
Total/NA	Prep	1664A			877 mL	1000 mL	471247	12/21/19 08:00	DRL	TAL PEN
Total/NA	Analysis	1664A		1			471425	12/23/19 10:35	DRL	TAL PEN

Client Sample ID: OUTFALL 9 — **Lab Sample ID: 400-181074-7**
Date Collected: 12/11/19 07:40 — **Matrix: Water**
Date Received: 12/11/19 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5210B		1	300 mL	300 mL	469883		JP	TAL PEN
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	470953	12/19/19 15:28	RRC	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-470501/1**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.1		1	50 mL	50 mL	470501	12/17/19 12:55	NT	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-470514/1**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.2		1	100 mL	100 mL	470514	12/17/19 14:00	CLB	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-470524/1**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.2		1	100 mL	100 mL	470524	12/17/19 14:11	CLB	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-470563/1**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.2		1	100 mL	100 mL	470563	12/17/19 16:36	NT	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-470953/4**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	470953	12/19/19 15:28	RRC	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-471247/1-A**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1664A			1000 mL	1000 mL	471247	12/21/19 08:00	DRL	TAL PEN
Total/NA	Analysis	1664A		1			471425	12/23/19 10:35	DRL	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-471372/1-A**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			50 mL	50 mL	471372	12/22/19 17:41	NET	TAL PEN
Total/NA	Analysis	200.7 Rev 4.4		1			471593	12/23/19 22:51	CTH	TAL PEN
Total/NA	Prep	200.7			50 mL	50 mL	471372	12/22/19 17:41	NET	TAL PEN
Total/NA	Analysis	200.7 Rev 4.4		1			471791	12/24/19 20:32	CTH	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-471743/30**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	471743	12/25/19 15:09	BSW	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: USB 400-469883/1**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5210B		1	300 mL	300 mL	469883		JP	TAL PEN
							(Start)	12/12/19 15:36		
							(End)	12/17/19 13:20		

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-469883/2**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5210B		1	1 mL	1 mL	469883		JP	TAL PEN
							(Start)	12/12/19 15:36		
							(End)	12/17/19 13:20		

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-470501/2**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.1		1	50 mL	50 mL	470501	12/17/19 12:55	NT	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-470514/2**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.2		1	100 mL	100 mL	470514	12/17/19 14:00	CLB	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-470524/2**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.2		1	100 mL	100 mL	470524	12/17/19 14:11	CLB	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-470563/2**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.2		1	100 mL	100 mL	470563	12/17/19 16:36	NT	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-470953/5**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	470953	12/19/19 15:28	RRC	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-471082/4**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	150.1		1			471082	12/20/19 09:44	NT	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-471247/2-A**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1664A			1000 mL	1000 mL	471247	12/21/19 08:00	DRL	TAL PEN
Total/NA	Analysis	1664A		1			471425	12/23/19 10:35	DRL	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-471372/2-A**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			50 mL	50 mL	471372	12/22/19 17:41	NET	TAL PEN
Total/NA	Analysis	200.7 Rev 4.4		1			471593	12/23/19 22:55	CTH	TAL PEN
Total/NA	Prep	200.7			50 mL	50 mL	471372	12/22/19 17:41	NET	TAL PEN
Total/NA	Analysis	200.7 Rev 4.4		1			471791	12/24/19 20:35	CTH	TAL PEN

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCS 400-471743/1002
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	471743	12/25/19 14:09	BSW	TAL PEN

Client Sample ID: Lab Control Sample Dup
Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCSD 400-471247/3-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1664A			1000 mL	1000 mL	471247	12/21/19 08:00	DRL	TAL PEN
Total/NA	Analysis	1664A		1			471425	12/23/19 10:35	DRL	TAL PEN

Client Sample ID: Lab Control Sample
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MRL 400-470953/2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	470953	12/19/19 15:28	RRC	TAL PEN

Client Sample ID: OUTFALL 1
Date Collected: 12/11/19 07:50
Date Received: 12/11/19 15:35

Lab Sample ID: 400-181074-1 MS
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	470953	12/19/19 15:28	RRC	TAL PEN

Client Sample ID: OUTFALL 1
Date Collected: 12/11/19 07:50
Date Received: 12/11/19 15:35

Lab Sample ID: 400-181074-1 MSD
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	470953	12/19/19 15:28	RRC	TAL PEN

Client Sample ID: OUTFALL 1
Date Collected: 12/11/19 07:50
Date Received: 12/11/19 15:35

Lab Sample ID: 400-181074-1 DU
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5210B		1	300 mL	300 mL	469883		JP	TAL PEN
								(Start) 12/12/19 13:50		
								(End) 12/17/19 13:20		

Client Sample ID: OUTFALL 7
Date Collected: 12/11/19 08:30
Date Received: 12/11/19 15:35

Lab Sample ID: 400-181074-5 DU
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.1		1	50 mL	50 mL	470501	12/17/19 12:55	NT	TAL PEN

Lab Chronicle

Client: TechnipFMC
Project/Site: Theodore Spoolbase

Job ID: 400-181074-1

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: J Hearon	Lab PM: Bruzzio, Taylor M	Carrier Tracking No(s):	COC No: 400-88674-30650.1
Client Contact: ~~Amber Hebert~~ Jason Hearon	Phone: 251-298-3381	E-Mail: taylor.bruzzio@testamericainc.com		Page: Page 1 of 1
Company: TechnipFMC				Job #:
Address: Mobile Spoolbase 7323 Dauphin Island Parkway	Due Date Requested:			
City: Theodore	TAT Requested (days):			
State, Zip: AL, 36582				
Phone:	PO #: 7126781			
Email: ~~AHebert@technip.com~~ Jason.Hearon@TechnipFmc.com	WO #:			
Project Name: Stormwater	Project #: 40003790			
Site: Theodore Spoolbase	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

400-181074 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	5220D - Chemical Oxygen Demand	1664A - HEM (Oil & Grease)	200.7 - Cu, Cr, Pb, Zn, Fe, Mn	624_5ml - BTEX	150.1, 160.1, 160.2, 5210B	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	S	D	A	N		
Outfall 1	12-11-19	7:50A	G	Water									PH 9.6
Outfall 2	12-11-19	8:00A.	G										PH 9.4
Outfall 4	12-11-19	8:40A.	G										PH 9.4
Outfall 6	12-11-19	8:10A	G										PH 9.6
Outfall 7	12-11-19	8:30A	G										PH 8.9
outfall 8	12-11-19	8:20A.	G										PH 9.0
outfall 9	12-11-19	7:40A.	G										PH 9.1
TEST AMERICA INC. 700 - MOBILE													

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Chris Clabaugh	12-11-19 9:30A.	Technip	Mi Padgett	12/11/19 12:19	
2	Jenifer Scriver Jenifer Scriver	12-11-19 12:19?	G4S/Technip			
3	Mi Padgett	12/11/19 1535	TA	Kathy R Owen	12-11-19 1535	EA

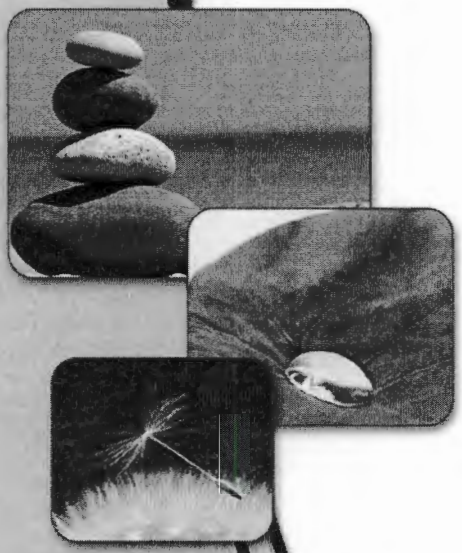
Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.0, 0.0, 0.0, 0.0, 0.2, 0.3, 0.0 IR7

Ver: 01/16/2019

12/30/2019

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

Laboratory Job ID: 400-189823-1
Laboratory Sample Delivery Group: Theodore Spoolbase
Client Project/Site: Stormwater

For:
TechnipFMC
Mobile Spoolbase
7323 Dauphin Island Parkway
Theodore, Alabama 36582

Attn: Jason Hearon

Authorized for release by:
7/8/2020 9:31:58 AM

Taylor Bruzzio, Project Manager I
(850)471-6226
taylor.bruzzio@testamericainc.com

Table of Contents

Case Narrative

Client: TechnipFMC
Project/Site: Stormwater

Job ID: 400-189823-1
SDG: Theodore Spoolbase

Job ID: 400-189823-1

Laboratory: Eurofins TestAmerica, Pensacola

Narrative

Job Narrative
400-189823-1

Comments
No additional comments.

Receipt
The samples were received on 6/22/2020 4:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 7 coolers at receipt time were 0.0° C, 0.0° C, 0.0° C, 0.0° C, 0.0° C, 0.0° C and 0.0° C.

Receipt Exceptions
The Chain-of-Custody (COC) was incomplete as received. No sample date listed on the COC or sample containers. Used the relinquished date listed on the COC as the sample date.

GC/MS VOA
Method 624: The following sample was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: DSN 2 (400-189823-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Methods 410.4, SM 5220D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 400-495172 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: TechnipFMC
Project/Site: Stormwater

Job ID: 400-189823-1
SDG: Theodore Spoolbase

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
400-189823-1	DSN 1	Water	06/22/20 09:37	06/22/20 16:25	
400-189823-2	DSN 2	Water	06/22/20 09:42	06/22/20 16:25	
400-189823-3	DSN 4	Water	06/22/20 09:48	06/22/20 16:25	
400-189823-4	DSN 6	Water	06/22/20 09:59	06/22/20 16:25	
400-189823-5	DSN 7	Water	06/22/20 10:04	06/22/20 16:25	
400-189823-6	DSN 8	Water	06/22/20 10:10	06/22/20 16:25	
400-189823-7	DSN 9	Water	06/22/20 10:20	06/22/20 16:25	

Client: TechnipFMC
Project/Site: Stormwater

Job ID: 400-189823-1
SDG: Theodore Spoolbase

Client Sample ID: DSN 1
Date Collected: 06/22/20 09:37
Date Received: 06/22/20 16:25

Lab Sample ID: 400-189823-1
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			06/28/20 22:31	1
Ethylbenzene	<1.0		1.0		ug/L			06/28/20 22:31	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			06/28/20 22:31	1
o-Xylene	<5.0		5.0		ug/L			06/28/20 22:31	1
Toluene	<1.0		1.0		ug/L			06/28/20 22:31	1
Xylenes, Total	<10		10		ug/L			06/28/20 22:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*78 - 118*		*06/28/20 22:31*	*1*
Dibromofluoromethane	*103*		*81 - 121*		*06/28/20 22:31*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/28/20 22:31*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.034**		0.010		mg/L		06/23/20 11:35	06/24/20 16:46	1
Copper	**0.034**		0.020		mg/L		06/23/20 11:35	06/24/20 16:46	1
Iron	**14**		0.20		mg/L		06/23/20 11:35	06/24/20 16:46	1
Manganese	**0.30**		0.010		mg/L		06/23/20 11:35	06/24/20 16:46	1
Lead	<0.010		0.010		mg/L		06/23/20 11:35	06/24/20 16:46	1
Zinc	**0.13**		0.020		mg/L		06/23/20 11:35	06/24/20 16:46	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.1**	HF			SU			07/07/20 14:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**130**		5.0		mg/L			06/25/20 13:23	1
Total Suspended Solids	**1300**		10		mg/L			06/24/20 11:02	1
HEM (Oil & Grease)	<4.4		4.4		mg/L		07/01/20 09:10	07/01/20 12:10	1
Biochemical Oxygen Demand	<2.0		2.0		mg/L			06/24/20 09:35	1
Chemical Oxygen Demand	**23**		10		mg/L			07/02/20 16:28	1

Client: TechnipFMC
Project/Site: Stormwater

Job ID: 400-189823-1
SDG: Theodore Spoolbase

Client Sample ID: DSN 2
Date Collected: 06/22/20 09:42
Date Received: 06/22/20 16:25

Lab Sample ID: 400-189823-2
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			06/28/20 22:56	1
Ethylbenzene	<1.0		1.0		ug/L			06/28/20 22:56	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			06/28/20 22:56	1
o-Xylene	<5.0		5.0		ug/L			06/28/20 22:56	1
Toluene	<1.0		1.0		ug/L			06/28/20 22:56	1
Xylenes, Total	<10		10		ug/L			06/28/20 22:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*78 - 118*		*06/28/20 22:56*	*1*
Dibromofluoromethane	*101*		*81 - 121*		*06/28/20 22:56*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/28/20 22:56*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.082**		0.010		mg/L		06/23/20 11:35	06/24/20 16:51	1
Copper	**0.064**		0.020		mg/L		06/23/20 11:35	06/24/20 16:51	1
Iron	**46**		0.20		mg/L		06/23/20 11:35	06/24/20 16:51	1
Manganese	**1.1**		0.010		mg/L		06/23/20 11:35	06/24/20 16:51	1
Lead	**0.032**		0.010		mg/L		06/23/20 11:35	06/24/20 16:51	1
Zinc	**0.19**		0.020		mg/L		06/23/20 11:35	06/24/20 16:51	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.7**	**HF**			SU			07/07/20 14:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**80**		5.0		mg/L			06/25/20 13:23	1
Total Suspended Solids	**2400**		13		mg/L			06/24/20 11:02	1
HEM (Oil & Grease)	<4.8		4.8		mg/L		07/01/20 09:10	07/01/20 12:10	1
Biochemical Oxygen Demand	<2.0		2.0		mg/L			06/24/20 09:36	1
Chemical Oxygen Demand	**18**		10		mg/L			07/02/20 16:28	1

Client Sample ID: DSN 4
Date Collected: 06/22/20 09:48
Date Received: 06/22/20 16:25

Lab Sample ID: 400-189823-3
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			06/28/20 23:21	1
Ethylbenzene	<1.0		1.0		ug/L			06/28/20 23:21	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			06/28/20 23:21	1
o-Xylene	<5.0		5.0		ug/L			06/28/20 23:21	1
Toluene	<1.0		1.0		ug/L			06/28/20 23:21	1
Xylenes, Total	<10		10		ug/L			06/28/20 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*78 - 118*		*06/28/20 23:21*	*1*
Dibromofluoromethane	*101*		*81 - 121*		*06/28/20 23:21*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/28/20 23:21*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.049**		0.010		mg/L		06/23/20 11:35	06/24/20 16:56	1
Copper	**0.040**		0.020		mg/L		06/23/20 11:35	06/24/20 16:56	1
Iron	**28**		0.20		mg/L		06/23/20 11:35	06/24/20 16:56	1
Manganese	**0.66**		0.010		mg/L		06/23/20 11:35	06/24/20 16:56	1
Lead	**0.018**		0.010		mg/L		06/23/20 11:35	06/24/20 16:56	1
Zinc	**0.11**		0.020		mg/L		06/23/20 11:35	06/24/20 16:56	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.6**	**HF**			SU			07/07/20 14:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**100**		5.0		mg/L			06/25/20 13:23	1
Total Suspended Solids	**1300**		8.3		mg/L			06/24/20 11:02	1
HEM (Oil & Grease)	<4.1		4.1		mg/L		07/01/20 09:10	07/01/20 12:10	1
Biochemical Oxygen Demand	<2.0		2.0		mg/L			06/24/20 09:37	1
Chemical Oxygen Demand	**14**		10		mg/L			07/02/20 16:28	1

Client: TechnipFMC
Project/Site: Stormwater

Job ID: 400-189823-1
SDG: Theodore Spoolbase

Client Sample ID: DSN 6
Date Collected: 06/22/20 09:59
Date Received: 06/22/20 16:25

Lab Sample ID: 400-189823-4
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			06/28/20 22:06	1
Ethylbenzene	<1.0		1.0		ug/L			06/28/20 22:06	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			06/28/20 22:06	1
o-Xylene	<5.0		5.0		ug/L			06/28/20 22:06	1
Toluene	<1.0		1.0		ug/L			06/28/20 22:06	1
Xylenes, Total	<10		10		ug/L			06/28/20 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*06/28/20 22:06*	*1*
Dibromofluoromethane	*102*		*81 - 121*		*06/28/20 22:06*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/28/20 22:06*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.031**		0.010		mg/L		06/23/20 11:35	06/24/20 17:02	1
Copper	**0.052**		0.020		mg/L		06/23/20 11:35	06/24/20 17:02	1
Iron	**19**		0.20		mg/L		06/23/20 11:35	06/24/20 17:02	1
Manganese	**0.21**		0.010		mg/L		06/23/20 11:35	06/24/20 17:02	1
Lead	**0.018**		0.010		mg/L		06/23/20 11:35	06/24/20 17:02	1
Zinc	**0.51**		0.020		mg/L		06/23/20 11:35	06/24/20 17:02	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.3**	HF			SU			07/07/20 14:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**100**		5.0		mg/L			06/25/20 13:23	1
Total Suspended Solids	**500**		5.0		mg/L			06/24/20 11:02	1
HEM (Oil & Grease)	<5.5		5.5		mg/L		07/01/20 09:10	07/01/20 12:10	1
Biochemical Oxygen Demand	<2.0		2.0		mg/L			06/24/20 09:42	1
Chemical Oxygen Demand	**29**		10		mg/L			07/02/20 16:28	1

Client Sample ID: DSN 7
Date Collected: 06/22/20 10:04
Date Received: 06/22/20 16:25

Lab Sample ID: 400-189823-5
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			06/28/20 23:46	1
Ethylbenzene	<1.0		1.0		ug/L			06/28/20 23:46	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			06/28/20 23:46	1
o-Xylene	<5.0		5.0		ug/L			06/28/20 23:46	1
Toluene	<1.0		1.0		ug/L			06/28/20 23:46	1
Xylenes, Total	<10		10		ug/L			06/28/20 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*78 - 118*		*06/28/20 23:46*	*1*
Dibromofluoromethane	*106*		*81 - 121*		*06/28/20 23:46*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/28/20 23:46*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.037**		0.010		mg/L		06/23/20 11:35	06/24/20 17:07	1
Copper	**0.057**		0.020		mg/L		06/23/20 11:35	06/24/20 17:07	1
Iron	**19**		0.20		mg/L		06/23/20 11:35	06/24/20 17:07	1
Manganese	**0.40**		0.010		mg/L		06/23/20 11:35	06/24/20 17:07	1
Lead	**0.019**		0.010		mg/L		06/23/20 11:35	06/24/20 17:07	1
Zinc	**0.68**		0.020		mg/L		06/23/20 11:35	06/24/20 17:07	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.2**	**HF**			SU			07/07/20 14:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**140**		5.0		mg/L			06/25/20 13:23	1
Total Suspended Solids	**580**		8.3		mg/L			06/29/20 09:31	1
HEM (Oil & Grease)	<4.2		4.2		mg/L		07/01/20 09:10	07/01/20 12:10	1
Biochemical Oxygen Demand	**6.6**		2.0		mg/L			06/24/20 09:43	1
Chemical Oxygen Demand	**41**		10		mg/L			07/02/20 16:28	1

Client: TechnipFMC
Project/Site: Stormwater

Job ID: 400-189823-1
SDG: Theodore Spoolbase

Client Sample ID: DSN 8
Date Collected: 06/22/20 10:10
Date Received: 06/22/20 16:25

Lab Sample ID: 400-189823-6
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			06/29/20 00:11	1
Ethylbenzene	<1.0		1.0		ug/L			06/29/20 00:11	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			06/29/20 00:11	1
o-Xylene	<5.0		5.0		ug/L			06/29/20 00:11	1
Toluene	<1.0		1.0		ug/L			06/29/20 00:11	1
Xylenes, Total	<10		10		ug/L			06/29/20 00:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*78 - 118*		*06/29/20 00:11*	*1*
Dibromofluoromethane	*105*		*81 - 121*		*06/29/20 00:11*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/29/20 00:11*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.016**		0.010		mg/L		06/23/20 11:35	06/24/20 17:28	1
Copper	<0.020		0.020		mg/L		06/23/20 11:35	06/24/20 17:28	1
Iron	**10**		0.20		mg/L		06/23/20 11:35	06/24/20 17:28	1
Manganese	**0.34**		0.010		mg/L		06/23/20 11:35	06/24/20 17:28	1
Lead	<0.010		0.010		mg/L		06/23/20 11:35	06/24/20 17:28	1
Zinc	**0.061**		0.020		mg/L		06/23/20 11:35	06/24/20 17:28	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	**8.0**	HF			SU			07/07/20 14:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**280**		5.0		mg/L			06/25/20 13:23	1
Total Suspended Solids	**390**		5.0		mg/L			06/29/20 09:31	1
HEM (Oil & Grease)	<4.9		4.9		mg/L		07/01/20 09:10	07/01/20 12:10	1
Biochemical Oxygen Demand	**8.6**		2.0		mg/L			06/24/20 09:44	1
Chemical Oxygen Demand	**12**		10		mg/L			07/02/20 16:28	1

Client Sample ID: DSN 9
Date Collected: 06/22/20 10:20
Date Received: 06/22/20 16:25

Lab Sample ID: 400-189823-7
Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			06/29/20 00:36	1
Ethylbenzene	<1.0		1.0		ug/L			06/29/20 00:36	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			06/29/20 00:36	1
o-Xylene	<5.0		5.0		ug/L			06/29/20 00:36	1
Toluene	<1.0		1.0		ug/L			06/29/20 00:36	1
Xylenes, Total	<10		10		ug/L			06/29/20 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*78 - 118*		*06/29/20 00:36*	*1*
Dibromofluoromethane	*105*		*81 - 121*		*06/29/20 00:36*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*06/29/20 00:36*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.010		mg/L		06/23/20 11:35	06/24/20 17:33	1
Copper	**0.025**		0.020		mg/L		06/23/20 11:35	06/24/20 17:33	1
Iron	**0.54**		0.20		mg/L		06/23/20 11:35	06/24/20 17:33	1
Manganese	**0.019**		0.010		mg/L		06/23/20 11:35	06/24/20 17:33	1
Lead	<0.010		0.010		mg/L		06/23/20 11:35	06/24/20 17:33	1
Zinc	**0.080**		0.020		mg/L		06/23/20 11:35	06/24/20 17:33	1

General Chemistry

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.5**	HF			SU			07/07/20 14:25	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	**60**		5.0		mg/L			06/25/20 13:23	1
Total Suspended Solids	<5.0		5.0		mg/L			06/29/20 09:31	1
HEM (Oil & Grease)	<4.3		4.3		mg/L		07/01/20 09:10	07/01/20 12:10	1
Biochemical Oxygen Demand	<2.0		2.0		mg/L			06/24/20 09:45	1
Chemical Oxygen Demand	<10	F1	10		mg/L			07/02/20 16:28	1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-494490/50
Matrix: Water
Analysis Batch: 494490

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			06/28/20 21:42	1
Ethylbenzene	<1.0		1.0		ug/L			06/28/20 21:42	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			06/28/20 21:42	1
o-Xylene	<5.0		5.0		ug/L			06/28/20 21:42	1
Toluene	<1.0		1.0		ug/L			06/28/20 21:42	1
Xylenes, Total	<10		10		ug/L			06/28/20 21:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*78 - 118*		*06/28/20 21:42*	*1*
Dibromofluoromethane	*102*		*81 - 121*		*06/28/20 21:42*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/28/20 21:42*	*1*

Lab Sample ID: LCS 400-494490/1002
Matrix: Water
Analysis Batch: 494490

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	20.7		ug/L		104	37 - 151
Ethylbenzene	20.0	22.0		ug/L		110	37 - 162
m-Xylene & p-Xylene	20.0	22.1		ug/L		110	66 - 130
o-Xylene	20.0	21.3		ug/L		107	71 - 125
Toluene	20.0	21.1		ug/L		105	47 - 150
Xylenes, Total	40.0	43.4		ug/L		109	70 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*78 - 118*
Dibromofluoromethane	*99*		*81 - 121*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: 400-189823-4 MS
Matrix: Water
Analysis Batch: 494490

Client Sample ID: DSN 6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<1.0		50.0	44.6		ug/L		89	56 - 142
Ethylbenzene	<1.0		50.0	47.8		ug/L		96	58 - 131
m-Xylene & p-Xylene	<5.0		50.0	49.3		ug/L		99	57 - 130
o-Xylene	<5.0		50.0	48.2		ug/L		96	61 - 130
Toluene	<1.0		50.0	46.1		ug/L		92	65 - 130
Xylenes, Total	<10		100	97.5		ug/L		98	59 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*78 - 118*
Dibromofluoromethane	*102*		*81 - 121*
Toluene-d8 (Surr)	*98*		*80 - 120*

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-189823-4 MSD
Matrix: Water
Analysis Batch: 494490

Client Sample ID: DSN 6
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<1.0		50.0	43.1		ug/L		86	56 - 142	3	30
Ethylbenzene	<1.0		50.0	47.1		ug/L		94	58 - 131	1	30
m-Xylene & p-Xylene	<5.0		50.0	46.8		ug/L		94	57 - 130	5	30
o-Xylene	<5.0		50.0	47.1		ug/L		94	61 - 130	2	30
Toluene	<1.0		50.0	44.7		ug/L		89	65 - 130	3	30
Xylenes, Total	<10		100	93.9		ug/L		94	59 - 130	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*78 - 118*
Dibromofluoromethane	*102*		*81 - 121*
Toluene-d8 (Surr)	*98*		*80 - 120*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 400-493733/1-A
Matrix: Water
Analysis Batch: 494050

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 493733

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.010		0.010		mg/L		06/23/20 11:35	06/24/20 15:37	1
Copper	<0.020		0.020		mg/L		06/23/20 11:35	06/24/20 15:37	1
Iron	<0.20		0.20		mg/L		06/23/20 11:35	06/24/20 15:37	1
Manganese	<0.010		0.010		mg/L		06/23/20 11:35	06/24/20 15:37	1
Lead	<0.010		0.010		mg/L		06/23/20 11:35	06/24/20 15:37	1
Zinc	<0.020		0.020		mg/L		06/23/20 11:35	06/24/20 15:37	1

Lab Sample ID: LCS 400-493733/2-A
Matrix: Water
Analysis Batch: 494050

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 493733

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	1.00	0.954		mg/L		95	85 - 115
Copper	1.00	0.937		mg/L		94	85 - 115
Iron	10.0	9.80		mg/L		98	85 - 115
Manganese	1.00	0.957		mg/L		96	85 - 115
Lead	1.00	0.896		mg/L		90	85 - 115
Zinc	1.00	0.949		mg/L		95	85 - 115

Method: 150.1 - pH (Electrometric)

Lab Sample ID: 400-189823-1 DU
Matrix: Water
Analysis Batch: 495549

Client Sample ID: DSN 1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.1	HF	8.1		SU		0.1	5

Method: 160.1 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 400-494156/1
Matrix: Water
Analysis Batch: 494156

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.0		5.0		mg/L			06/25/20 13:23	1

Lab Sample ID: LCS 400-494156/2
Matrix: Water
Analysis Batch: 494156

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	293	338		mg/L		115	78 - 122

Method: 160.2 - Solids, Total Suspended (TSS)

Lab Sample ID: MB 400-493914/1
Matrix: Water
Analysis Batch: 493914

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<0.50		0.50		mg/L			06/24/20 11:02	1

Lab Sample ID: LCS 400-493914/2
Matrix: Water
Analysis Batch: 493914

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	254	261		mg/L		103	82 - 118

Lab Sample ID: MB 400-494152/1
Matrix: Water
Analysis Batch: 494152

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<0.50		0.50		mg/L			06/29/20 09:31	1

Lab Sample ID: LCS 400-494152/2
Matrix: Water
Analysis Batch: 494152

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	254	283		mg/L		111	82 - 118

Method: 1664A - Oil and Grease

Lab Sample ID: MB 400-494838/1-A
Matrix: Water
Analysis Batch: 494904

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 494838

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	<4.0		4.0		mg/L		07/01/20 09:10	07/01/20 12:10	1

Method: 1664A - Oil and Grease (Continued)

Lab Sample ID: LCS 400-494838/2-A
Matrix: Water
Analysis Batch: 494904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 494838

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	40.1	34.60		mg/L		86	78 - 114

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 400-494168/1
Matrix: Water
Analysis Batch: 494168

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	<2.0		2.0		mg/L			06/25/20 17:24	1

Lab Sample ID: LCS 400-494168/2
Matrix: Water
Analysis Batch: 494168

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand	198	179		mg/L		90	85 - 115

Method: SM 5220D - COD

Lab Sample ID: MB 400-495172/4
Matrix: Water
Analysis Batch: 495172

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	<10		10		mg/L			07/02/20 16:28	1

Lab Sample ID: LCS 400-495172/5
Matrix: Water
Analysis Batch: 495172

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	50.0	46.6		mg/L		93	90 - 110

Lab Sample ID: MRL 400-495172/2
Matrix: Water
Analysis Batch: 495172

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	30.1	34.3		mg/L		114	50 - 150

Lab Sample ID: 400-189823-7 MS
Matrix: Water
Analysis Batch: 495172

Client Sample ID: DSN 9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	<10	F1	50.2	50.8	F1	mg/L		88	90 - 110

Method: SM 5220D - COD (Continued)

Lab Sample ID: 400-189823-7 MSD
Matrix: Water
Analysis Batch: 495172

Client Sample ID: DSN 9
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chemical Oxygen Demand	<10	F1	50.2	50.6	F1	mg/L		87	90 - 110	1	13

Lab Chronicle

Client: TechnipFMC
Project/Site: Stormwater

Job ID: 400-189823-1
SDG: Theodore Spoolbase

Client Sample ID: DSN 1

Date Collected: 06/22/20 09:37
Date Received: 06/22/20 16:25

Lab Sample ID: 400-189823-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	494490	06/28/20 22:31	RS	TAL PEN
Total/NA	Prep	200.7			50 mL	50 mL	493733	06/23/20 11:35	KWN	TAL PEN
Total/NA	Analysis	200.7 Rev 4.4		1			494050	06/24/20 16:46	GESP	TAL PEN
Total/NA	Analysis	150.1		1			495549	07/07/20 14:25	RRC	TAL PEN
Total/NA	Analysis	160.1		1	50 mL	50 mL	494156	06/25/20 13:23	CLB	TAL PEN
Total/NA	Analysis	160.2		1	50 mL	100 mL	493914	06/24/20 11:02	CLB	TAL PEN
Total/NA	Prep	1664A			908 mL	1000 mL	494838	07/01/20 09:10	NT	TAL PEN
Total/NA	Analysis	1664A		1			494904	07/01/20 12:10	NT	TAL PEN
Total/NA	Analysis	SM 5210B		1	300 mL	300 mL	494168		JP	TAL PEN
							(Start)	06/24/20 09:35		
							(End)	06/30/20 15:31		
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	495172	07/02/20 16:28	DN1	TAL PEN

Client Sample ID: DSN 2

Date Collected: 06/22/20 09:42
Date Received: 06/22/20 16:25

Lab Sample ID: 400-189823-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	494490	06/28/20 22:56	RS	TAL PEN
Total/NA	Prep	200.7			50 mL	50 mL	493733	06/23/20 11:35	KWN	TAL PEN
Total/NA	Analysis	200.7 Rev 4.4		1			494050	06/24/20 16:51	GESP	TAL PEN
Total/NA	Analysis	150.1		1			495549	07/07/20 14:25	RRC	TAL PEN
Total/NA	Analysis	160.1		1	50 mL	50 mL	494156	06/25/20 13:23	CLB	TAL PEN
Total/NA	Analysis	160.2		1	40 mL	100 mL	493914	06/24/20 11:02	CLB	TAL PEN
Total/NA	Prep	1664A			837 mL	1000 mL	494838	07/01/20 09:10	NT	TAL PEN
Total/NA	Analysis	1664A		1			494904	07/01/20 12:10	NT	TAL PEN
Total/NA	Analysis	SM 5210B		1	300 mL	300 mL	494168		JP	TAL PEN
							(Start)	06/24/20 09:36		
							(End)	06/30/20 15:31		
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	495172	07/02/20 16:28	DN1	TAL PEN

Client Sample ID: DSN 4

Date Collected: 06/22/20 09:48
Date Received: 06/22/20 16:25

Lab Sample ID: 400-189823-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	494490	06/28/20 23:21	RS	TAL PEN
Total/NA	Prep	200.7			50 mL	50 mL	493733	06/23/20 11:35	KWN	TAL PEN
Total/NA	Analysis	200.7 Rev 4.4		1			494050	06/24/20 16:56	GESP	TAL PEN
Total/NA	Analysis	150.1		1			495549	07/07/20 14:25	RRC	TAL PEN
Total/NA	Analysis	160.1		1	50 mL	50 mL	494156	06/25/20 13:23	CLB	TAL PEN
Total/NA	Analysis	160.2		1	60 mL	100 mL	493914	06/24/20 11:02	CLB	TAL PEN
Total/NA	Prep	1664A			979 mL	1000 mL	494838	07/01/20 09:10	NT	TAL PEN
Total/NA	Analysis	1664A		1			494904	07/01/20 12:10	NT	TAL PEN

Client Sample ID: DSN 4
Date Collected: 06/22/20 09:48
Date Received: 06/22/20 16:25

Lab Sample ID: 400-189823-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5210B		1	300 mL	300 mL	494168		JP	TAL PEN
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	495172	07/02/20 16:28	DN1	TAL PEN

Client Sample ID: DSN 6
Date Collected: 06/22/20 09:59
Date Received: 06/22/20 16:25

Lab Sample ID: 400-189823-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	494490	06/28/20 22:06	RS	TAL PEN
Total/NA	Prep	200.7			50 mL	50 mL	493733	06/23/20 11:35	KWN	TAL PEN
Total/NA	Analysis	200.7 Rev 4.4		1			494050	06/24/20 17:02	GESP	TAL PEN
Total/NA	Analysis	150.1		1			495549	07/07/20 14:25	RRC	TAL PEN
Total/NA	Analysis	160.1		1	50 mL	50 mL	494156	06/25/20 13:23	CLB	TAL PEN
Total/NA	Analysis	160.2		1	100 mL	100 mL	493914	06/24/20 11:02	CLB	TAL PEN
Total/NA	Prep	1664A			730 mL	1000 mL	494838	07/01/20 09:10	NT	TAL PEN
Total/NA	Analysis	1664A		1			494904	07/01/20 12:10	NT	TAL PEN
Total/NA	Analysis	SM 5210B		1	300 mL	300 mL	494168		JP	TAL PEN
							(Start)	06/24/20 09:42		
							(End)	06/30/20 15:31		
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	495172	07/02/20 16:28	DN1	TAL PEN

Client Sample ID: DSN 7
Date Collected: 06/22/20 10:04
Date Received: 06/22/20 16:25

Lab Sample ID: 400-189823-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	494490	06/28/20 23:46	RS	TAL PEN
Total/NA	Prep	200.7			50 mL	50 mL	493733	06/23/20 11:35	KWN	TAL PEN
Total/NA	Analysis	200.7 Rev 4.4		1			494050	06/24/20 17:07	GESP	TAL PEN
Total/NA	Analysis	150.1		1			495549	07/07/20 14:25	RRC	TAL PEN
Total/NA	Analysis	160.1		1	50 mL	50 mL	494156	06/25/20 13:23	CLB	TAL PEN
Total/NA	Analysis	160.2		1	60 mL	100 mL	494152	06/29/20 09:31	CLB	TAL PEN
Total/NA	Prep	1664A			949 mL	1000 mL	494838	07/01/20 09:10	NT	TAL PEN
Total/NA	Analysis	1664A		1			494904	07/01/20 12:10	NT	TAL PEN
Total/NA	Analysis	SM 5210B		1	300 mL	300 mL	494168		JP	TAL PEN
							(Start)	06/24/20 09:43		
							(End)	06/30/20 15:31		
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	495172	07/02/20 16:28	DN1	TAL PEN

Lab Chronicle

Client: TechnipFMC
Project/Site: Stormwater

Job ID: 400-189823-1
SDG: Theodore Spoolbase

Client Sample ID: DSN 8

Date Collected: 06/22/20 10:10
Date Received: 06/22/20 16:25

Lab Sample ID: 400-189823-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	494490	06/29/20 00:11	RS	TAL PEN
Total/NA	Prep	200.7			50 mL	50 mL	493733	06/23/20 11:35	KWN	TAL PEN
Total/NA	Analysis	200.7 Rev 4.4		1			494050	06/24/20 17:28	GESP	TAL PEN
Total/NA	Analysis	150.1		1			495549	07/07/20 14:25	RRC	TAL PEN
Total/NA	Analysis	160.1		1	50 mL	50 mL	494156	06/25/20 13:23	CLB	TAL PEN
Total/NA	Analysis	160.2		1	100 mL	100 mL	494152	06/29/20 09:31	CLB	TAL PEN
Total/NA	Prep	1664A			819 mL	1000 mL	494838	07/01/20 09:10	NT	TAL PEN
Total/NA	Analysis	1664A		1			494904	07/01/20 12:10	NT	TAL PEN
Total/NA	Analysis	SM 5210B		1	300 mL	300 mL	494168		JP	TAL PEN
								(Start) 06/24/20 09:44		
								(End) 06/30/20 15:31		
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	495172	07/02/20 16:28	DN1	TAL PEN

Client Sample ID: DSN 9

Date Collected: 06/22/20 10:20
Date Received: 06/22/20 16:25

Lab Sample ID: 400-189823-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	494490	06/29/20 00:36	RS	TAL PEN
Total/NA	Prep	200.7			50 mL	50 mL	493733	06/23/20 11:35	KWN	TAL PEN
Total/NA	Analysis	200.7 Rev 4.4		1			494050	06/24/20 17:33	GESP	TAL PEN
Total/NA	Analysis	150.1		1			495549	07/07/20 14:25	RRC	TAL PEN
Total/NA	Analysis	160.1		1	50 mL	50 mL	494156	06/25/20 13:23	CLB	TAL PEN
Total/NA	Analysis	160.2		1	100 mL	100 mL	494152	06/29/20 09:31	CLB	TAL PEN
Total/NA	Prep	1664A			927 mL	1000 mL	494838	07/01/20 09:10	NT	TAL PEN
Total/NA	Analysis	1664A		1			494904	07/01/20 12:10	NT	TAL PEN
Total/NA	Analysis	SM 5210B		1	300 mL	300 mL	494168		JP	TAL PEN
								(Start) 06/24/20 09:45		
								(End) 06/30/20 15:31		
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	495172	07/02/20 16:28	DN1	TAL PEN

Client Sample ID: Method Blank

Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-493733/1-A
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			50 mL	50 mL	493733	06/23/20 11:35	KWN	TAL PEN
Total/NA	Analysis	200.7 Rev 4.4		1			494050	06/24/20 15:37	GESP	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-493914/1**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.2		1	1000 mL	100 mL	493914	06/24/20 11:02	CLB	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-494152/1**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.2		1	1000 mL	100 mL	494152	06/29/20 09:31	CLB	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-494156/1**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.1		1	50 mL	50 mL	494156	06/25/20 13:23	CLB	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-494490/50**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	494490	06/28/20 21:42	RS	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-494838/1-A**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1664A			1000 mL	1000 mL	494838	07/01/20 09:10	NT	TAL PEN
Total/NA	Analysis	1664A		1			494904	07/01/20 12:10	NT	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: MB 400-495172/4**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	495172	07/02/20 16:28	DN1	TAL PEN

Client Sample ID: Method Blank — **Lab Sample ID: USB 400-494168/1**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5210B		1	300 mL	300 mL	494168		JP	TAL PEN
								(Start) 06/25/20 17:24		
								(End) 06/30/20 15:31		

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-493733/2-A**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			50 mL	50 mL	493733	06/23/20 11:35	KWN	TAL PEN
Total/NA	Analysis	200.7 Rev 4.4		1			494050	06/24/20 15:43	GESP	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-493914/2**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.2		1	100 mL	100 mL	493914	06/24/20 11:02	CLB	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-494152/2**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.2		1	100 mL	100 mL	494152	06/29/20 09:31	CLB	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-494156/2**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	160.1		1	50 mL	50 mL	494156	06/25/20 13:23	CLB	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-494168/2**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5210B		1	1 mL	1 mL	494168		JP	TAL PEN
							(Start)	06/25/20 17:24		
							(End)	06/30/20 15:31		

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-494490/1002**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	494490	06/28/20 09:39	RS	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-494838/2-A**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1664A			1000 mL	1000 mL	494838	07/01/20 09:10	NT	TAL PEN
Total/NA	Analysis	1664A		1			494904	07/01/20 12:10	NT	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-495172/5**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	495172	07/02/20 16:28	DN1	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: LCS 400-495549/4**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	150.1		1			495549	07/07/20 14:25	RRC	TAL PEN

Client Sample ID: Lab Control Sample — **Lab Sample ID: MRL 400-495172/2**
Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	495172	07/02/20 16:28	DN1	TAL PEN

Client Sample ID: DSN 6 — **Lab Sample ID: 400-189823-4 MS**
Date Collected: 06/22/20 09:59 — **Matrix: Water**
Date Received: 06/22/20 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	494490	06/28/20 20:27	RS	TAL PEN

Client Sample ID: DSN 6 — **Lab Sample ID: 400-189823-4 MSD**
Date Collected: 06/22/20 09:59 — **Matrix: Water**
Date Received: 06/22/20 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	5 mL	5 mL	494490	06/28/20 20:52	RS	TAL PEN

Client Sample ID: DSN 9 — **Lab Sample ID: 400-189823-7 MS**
Date Collected: 06/22/20 10:20 — **Matrix: Water**
Date Received: 06/22/20 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	495172	07/02/20 16:28	DN1	TAL PEN

Lab Chronicle

Client: TechnipFMC
Project/Site: Stormwater

Job ID: 400-189823-1
SDG: Theodore Spoolbase

Client Sample ID: DSN 9
Date Collected: 06/22/20 10:20
Date Received: 06/22/20 16:25

Lab Sample ID: 400-189823-7 MSD
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5220D		1	2 mL	2 mL	495172	07/02/20 16:28	DN1	TAL PEN

Client Sample ID: DSN 1
Date Collected: 06/22/20 09:37
Date Received: 06/22/20 16:25

Lab Sample ID: 400-189823-1 DU
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	150.1		1			495549	07/07/20 14:25	RRC	TAL PEN

Laboratory References:

TAL PEN = Eurofins TestAmerica, Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

Eurofins TestAmerica, Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone: 850-474-1001 Fax: 850-478-2671

Chain of Custody Record

eurofins Environment Testing America

400-189823 COC

Client Information	Sampler: J Hearon	Lab PM: Bruzzio, Taylor M	Carrier Tracking No(s):	COC No: 400-94488-30650.1
Client Contact: ~~Amber Hebert~~ Jason Hearon	Phone: 251-298-3381	E-Mail: taylor.bruzzio@testamericainc.com		Page: Page 1 of 1
Company: TechnipFMC				Job #:

Address: Mobile Spoolbase 7323 Dauphin Island Parkway	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Theodore	TAT Requested (days):		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: AL, 36582			
Phone:	PO #: 7126781		
Email: ~~AHebert@technip.com~~ Jason.Hearon@TechnipFMC.com	WO #:		Other:
Project Name: Stormwater	Project #: 40003790		
Site: Theodore Spoolbase	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	5220D - Chemical Oxygen Demand	1664A - HEM (Oil & Grease)	200.7 - Cu, Cr, Pb, Zn, Fe, Mn	624_5ml - BTEX	150.1, 160.1, 160.2, 5210B	Total Number of containers	Special Instructions/Note:
Preservation Code:					X	X	S	S	D	A	N	X	
DSN 1		9:37	G	Water									PH 10.5
DSN 2		9:42	G	water									PH 10.9
DSN 4		9:48	G	water									PH 10.3
DSN 6		9:59	G	water									PH 10.1
DSN 7		10:04	G	water									PH 10.2
DSN 8		10:10	G	water									PH 9.9
DSN 9		10:20	G	water									PH 10.1
TEST AMERICA INC. 700 - MOBILE													

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Jason Hearon		TFMC	M. Padgett	6/22/2020 12:40	
Relinquished by: KURT GUSTAPSON	Date/Time: 6-22-20 12:40	Company TFMC	Received by: S. August	Date/Time: 6-22-20 1450	Company ETA
Relinquished by: M. Padgett	Date/Time: 6/22/2020 1450	Company ETA	Received by: S. August	Date/Time: 6-22-20 1625	Company ETA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: — TMB 6/22/20 1625

Cooler Temperature(s) °C and Other Remarks: 0.0°C, 0.0°C, 0.0°C, 0.0°C, 0.0°C, 0.0°C, 0.0°C TR9

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

December 15, 2021

Jason Hearon
Technip FMC
7323 Dauphin Island Parkway
Theodore, AL 36582

RE: Project: Spoolbase Semi Annual
Pace Project No.: 20227940

Dear Jason Hearon:

Enclosed are the analytical results for sample(s) received by the laboratory on December 07, 2021. The results relate only to the samples included in this report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:
- Pace Analytical Services - New Orleans

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Savannah Wallace
savannah.wallace@pacelabs.com
251-344-9106
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

CERTIFICATIONS

Project: Spoolbase Semi Annual
Pace Project No.: 20227940

Pace Analytical Services New Orleans

Florida Department of Health (NELAC): E87595
Illinois Environmental Protection Agency: 0025721
Kansas Department of Health and Environment (NELAC): E-10266
Louisiana Dept. of Environmental Quality (NELAC/LELAP): 02006
Texas Commission on Env. Quality (NELAC): T104704405-09-TX
U.S. Dept. of Agriculture Foreign Soil Import: P330-10-00119

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

SAMPLE SUMMARY

Project: Spoolbase Semi Annual
Pace Project No.: 20227940

Lab ID	Sample ID	Matrix	Date Collected	Date Received
20227940001	DSN001	Water	12/06/21 15:36	12/07/21 10:00
20227940002	DSN002	Water	12/06/21 15:51	12/07/21 10:00
20227940003	DSN004	Water	12/06/21 16:07	12/07/21 10:00
20227940004	DSN006	Water	12/06/21 16:19	12/07/21 10:00
20227940005	DSN007	Water	12/06/21 16:28	12/07/21 10:00
20227940006	DSN008	Water	12/06/21 16:37	12/07/21 10:00
20227940007	DSN009	Water	12/06/21 16:57	12/07/21 10:00

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

SAMPLE ANALYTE COUNT

Project: Spoolbase Semi Annual
Pace Project No.: 20227940

Lab ID	Sample ID	Method	Analysts	Analytes Reported
20227940001	DSN001	EPA 200.7	AJS	22
		EPA 8260	JRP	8
		EPA 1664B, 2010	TMO	1
		SM 2540D 2011	KAC	1
		SM 4500-H+B	JLH	1
		SM 5210B	DWR	1
20227940002	DSN002	EPA 200.7	AJS	22
		EPA 8260	JRP	8
		EPA 1664B, 2010	TMO	1
		SM 2540D 2011	KAC	1
		SM 4500-H+B	JLH	1
		SM 5210B	DWR	1
20227940003	DSN004	EPA 200.7	AJS	22
		EPA 8260	JRP	8
		EPA 1664B, 2010	TMO	1
		SM 2540D 2011	KAC	1
		SM 4500-H+B	JLH	1
		SM 5210B	DWR	1
20227940004	DSN006	EPA 200.7	AJS	22
		EPA 8260	JRP	8
		EPA 1664B, 2010	TMO	1
		SM 2540D 2011	KAC	1
		SM 4500-H+B	JLH	1
		SM 5210B	DWR	1
20227940005	DSN007	EPA 200.7	AJS	22
		EPA 8260	JRP	8
		EPA 1664B, 2010	TMO	1
		SM 2540D 2011	GGG1	1
		SM 4500-H+B	JLH	1
		SM 5210B	DWR	1
20227940006	DSN008	EPA 200.7	AJS	22
		EPA 8260	JRP	8
		EPA 1664B, 2010	TMO	1
		SM 2540D 2011	GGG1	1
		SM 4500-H+B	JLH	1
		SM 5210B	DWR	1
20227940007	DSN009	EPA 200.7	AJS	22

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

SAMPLE ANALYTE COUNT

Project: Spoolbase Semi Annual
Pace Project No.: 20227940

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8260	JRP	8
		EPA 1664B, 2010	TMO	1
		SM 2540D 2011	GGG1	1
		SM 4500-H+B	JLH	1
		SM 5210B	DWR	1

PASI-N = Pace Analytical Services - New Orleans

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Spoolbase Semi Annual
Pace Project No.: 20227940

Sample: DSN001 **Lab ID: 20227940001** Collected: 12/06/21 15:36 Received: 12/07/21 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
	Pace Analytical Services - New Orleans							
Aluminum	**9090**	ug/L	400	2	12/09/21 06:45	12/09/21 18:35	7429-90-5	
Antimony	ND	ug/L	120	2	12/09/21 06:45	12/09/21 18:35	7440-36-0	
Arsenic	ND	ug/L	20.0	2	12/09/21 06:45	12/09/21 18:35	7440-38-2	
Barium	ND	ug/L	400	2	12/09/21 06:45	12/09/21 18:35	7440-39-3	
Beryllium	ND	ug/L	10.0	2	12/09/21 06:45	12/09/21 18:35	7440-41-7	
Cadmium	ND	ug/L	10.0	2	12/09/21 06:45	12/09/21 18:35	7440-43-9	
Calcium	**807000**	ug/L	2000	2	12/09/21 06:45	12/09/21 18:35	7440-70-2	
Chromium	**44.0**	ug/L	20.0	2	12/09/21 06:45	12/09/21 18:35	7440-47-3	
Cobalt	ND	ug/L	20.0	2	12/09/21 06:45	12/09/21 18:35	7440-48-4	
Copper	**34.4**	ug/L	20.0	2	12/09/21 06:45	12/09/21 18:35	7440-50-8	
Iron	**14600**	ug/L	100	2	12/09/21 06:45	12/09/21 18:35	7439-89-6	
Lead	ND	ug/L	10.0	2	12/09/21 06:45	12/09/21 18:35	7439-92-1	
Magnesium	**13300**	ug/L	2000	2	12/09/21 06:45	12/09/21 18:35	7439-95-4	
Manganese	**364**	ug/L	20.0	2	12/09/21 06:45	12/09/21 18:35	7439-96-5	
Nickel	ND	ug/L	80.0	2	12/09/21 06:45	12/09/21 18:35	7440-02-0	
Potassium	**2750**	ug/L	2000	2	12/09/21 06:45	12/09/21 18:35	7440-09-7	
Selenium	ND	ug/L	40.0	2	12/09/21 06:45	12/09/21 18:35	7782-49-2	
Silver	ND	ug/L	20.0	2	12/09/21 06:45	12/09/21 18:35	7440-22-4	
Sodium	**3670**	ug/L	2000	2	12/09/21 06:45	12/09/21 18:35	7440-23-5	
Thallium	ND	ug/L	20.0	2	12/09/21 06:45	12/09/21 18:35	7440-28-0	
Vanadium	ND	ug/L	100	2	12/09/21 06:45	12/09/21 18:35	7440-62-2	
Zinc	**198**	ug/L	40.0	2	12/09/21 06:45	12/09/21 18:35	7440-66-6	
8260 MSV	Analytical Method: EPA 8260							
	Pace Analytical Services - New Orleans							
Benzene	ND	ug/L	5.0	1		12/09/21 18:01	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1		12/09/21 18:01	100-41-4	
Toluene	ND	ug/L	5.0	1		12/09/21 18:01	108-88-3	
m&p-Xylene	ND	ug/L	10.0	1		12/09/21 18:01	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		12/09/21 18:01	95-47-6	
Surrogates								
Toluene-d8 (S)	97	%.	76-124	1		12/09/21 18:01	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	78-121	1		12/09/21 18:01	460-00-4	
Dibromofluoromethane (S)	87	%.	74-128	1		12/09/21 18:01	1868-53-7	
HEM, Oil and Grease	Analytical Method: EPA 1664B, 2010							
	Pace Analytical Services - New Orleans							
Oil and Grease	ND	mg/L	6.2	1		12/12/21 08:54		P1
2540D Total Suspended Solids	Analytical Method: SM 2540D 2011							
	Pace Analytical Services - New Orleans							
Total Suspended Solids	**1410**	mg/L	20.0	1		12/08/21 15:11		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Spoolbase Semi Annual
Pace Project No.: 20227940

Sample: DSN001 **Lab ID: 20227940001** Collected: 12/06/21 15:36 Received: 12/07/21 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - New Orleans							
pH at 25 Degrees C	**8.1**	Std. Units	0.010	1		12/14/21 16:41		H3,H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B Pace Analytical Services - New Orleans							
BOD, 5 day	ND	mg/L	3.0	3	12/08/21 11:32	12/13/21 10:23		

Sample: DSN002 **Lab ID: 20227940002** Collected: 12/06/21 15:51 Received: 12/07/21 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - New Orleans							
Aluminum	**2920**	ug/L	200	1	12/09/21 06:45	12/09/21 12:55	7429-90-5	
Antimony	ND	ug/L	60.0	1	12/09/21 06:45	12/09/21 12:55	7440-36-0	
Arsenic	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 12:55	7440-38-2	
Barium	ND	ug/L	200	1	12/09/21 06:45	12/09/21 12:55	7440-39-3	
Beryllium	ND	ug/L	5.0	1	12/09/21 06:45	12/09/21 12:55	7440-41-7	
Cadmium	ND	ug/L	5.0	1	12/09/21 06:45	12/09/21 12:55	7440-43-9	
Calcium	**67000**	ug/L	1000	1	12/09/21 06:45	12/09/21 12:55	7440-70-2	
Chromium	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 12:55	7440-47-3	
Cobalt	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 12:55	7440-48-4	
Copper	**11.0**	ug/L	10.0	1	12/09/21 06:45	12/09/21 12:55	7440-50-8	
Iron	**4990**	ug/L	50.0	1	12/09/21 06:45	12/09/21 12:55	7439-89-6	
Lead	ND	ug/L	5.0	1	12/09/21 06:45	12/09/21 12:55	7439-92-1	
Magnesium	**4140**	ug/L	1000	1	12/09/21 06:45	12/09/21 12:55	7439-95-4	
Manganese	**130**	ug/L	10.0	1	12/09/21 06:45	12/09/21 12:55	7439-96-5	
Nickel	ND	ug/L	40.0	1	12/09/21 06:45	12/09/21 12:55	7440-02-0	
Potassium	**1340**	ug/L	1000	1	12/09/21 06:45	12/09/21 12:55	7440-09-7	
Selenium	ND	ug/L	20.0	1	12/09/21 06:45	12/09/21 12:55	7782-49-2	
Silver	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 12:55	7440-22-4	
Sodium	**2280**	ug/L	1000	1	12/09/21 06:45	12/09/21 12:55	7440-23-5	
Thallium	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 12:55	7440-28-0	
Vanadium	ND	ug/L	50.0	1	12/09/21 06:45	12/09/21 12:55	7440-62-2	
Zinc	**38.7**	ug/L	20.0	1	12/09/21 06:45	12/09/21 12:55	7440-66-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - New Orleans							
Benzene	ND	ug/L	5.0	1		12/09/21 18:18	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1		12/09/21 18:18	100-41-4	
Toluene	ND	ug/L	5.0	1		12/09/21 18:18	108-88-3	
m&p-Xylene	ND	ug/L	10.0	1		12/09/21 18:18	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		12/09/21 18:18	95-47-6	
Surrogates								
Toluene-d8 (S)	97	%.	76-124	1		12/09/21 18:18	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Spoolbase Semi Annual
Pace Project No.: 20227940

Sample: DSN002 **Lab ID: 20227940002** Collected: 12/06/21 15:51 Received: 12/07/21 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - New Orleans							
Surrogates								
4-Bromofluorobenzene (S)	100	%.	78-121	1		12/09/21 18:18	460-00-4	
Dibromofluoromethane (S)	88	%.	74-128	1		12/09/21 18:18	1868-53-7	
HEM, Oil and Grease	Analytical Method: EPA 1664B, 2010 Pace Analytical Services - New Orleans							
Oil and Grease	ND	mg/L	5.0	1		12/12/21 08:54		
2540D Total Suspended Solids	Analytical Method: SM 2540D 2011 Pace Analytical Services - New Orleans							
Total Suspended Solids	**326**	mg/L	4.4	1		12/08/21 15:11		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - New Orleans							
pH at 25 Degrees C	**8.3**	Std. Units	0.010	1		12/14/21 16:50		H3,H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B Pace Analytical Services - New Orleans							
BOD, 5 day	ND	mg/L	3.0	3	12/08/21 11:26	12/13/21 10:25		

Sample: DSN004 **Lab ID: 20227940003** Collected: 12/06/21 16:07 Received: 12/07/21 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - New Orleans							
Aluminum	**2530**	ug/L	200	1	12/09/21 06:45	12/09/21 12:59	7429-90-5	
Antimony	ND	ug/L	60.0	1	12/09/21 06:45	12/09/21 12:59	7440-36-0	
Arsenic	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 12:59	7440-38-2	
Barium	ND	ug/L	200	1	12/09/21 06:45	12/09/21 12:59	7440-39-3	
Beryllium	ND	ug/L	5.0	1	12/09/21 06:45	12/09/21 12:59	7440-41-7	
Cadmium	ND	ug/L	5.0	1	12/09/21 06:45	12/09/21 12:59	7440-43-9	
Calcium	**51900**	ug/L	1000	1	12/09/21 06:45	12/09/21 12:59	7440-70-2	
Chromium	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 12:59	7440-47-3	
Cobalt	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 12:59	7440-48-4	
Copper	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 12:59	7440-50-8	
Iron	**3840**	ug/L	50.0	1	12/09/21 06:45	12/09/21 12:59	7439-89-6	
Lead	ND	ug/L	5.0	1	12/09/21 06:45	12/09/21 12:59	7439-92-1	
Magnesium	**3240**	ug/L	1000	1	12/09/21 06:45	12/09/21 12:59	7439-95-4	
Manganese	**94.8**	ug/L	10.0	1	12/09/21 06:45	12/09/21 12:59	7439-96-5	
Nickel	ND	ug/L	40.0	1	12/09/21 06:45	12/09/21 12:59	7440-02-0	
Potassium	**1310**	ug/L	1000	1	12/09/21 06:45	12/09/21 12:59	7440-09-7	
Selenium	ND	ug/L	20.0	1	12/09/21 06:45	12/09/21 12:59	7782-49-2	
Silver	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 12:59	7440-22-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Spoolbase Semi Annual
Pace Project No.: 20227940

Sample: DSN004 **Lab ID: 20227940003** Collected: 12/06/21 16:07 Received: 12/07/21 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - New Orleans							
Sodium	**2400**	ug/L	1000	1	12/09/21 06:45	12/09/21 12:59	7440-23-5	
Thallium	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 12:59	7440-28-0	
Vanadium	ND	ug/L	50.0	1	12/09/21 06:45	12/09/21 12:59	7440-62-2	
Zinc	**27.4**	ug/L	20.0	1	12/09/21 06:45	12/09/21 12:59	7440-66-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - New Orleans							
Benzene	ND	ug/L	5.0	1		12/09/21 18:35	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1		12/09/21 18:35	100-41-4	
Toluene	ND	ug/L	5.0	1		12/09/21 18:35	108-88-3	
m&p-Xylene	ND	ug/L	10.0	1		12/09/21 18:35	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		12/09/21 18:35	95-47-6	
Surrogates								
Toluene-d8 (S)	98	%.	76-124	1		12/09/21 18:35	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	78-121	1		12/09/21 18:35	460-00-4	
Dibromofluoromethane (S)	88	%.	74-128	1		12/09/21 18:35	1868-53-7	
HEM, Oil and Grease	Analytical Method: EPA 1664B, 2010 Pace Analytical Services - New Orleans							
Oil and Grease	ND	mg/L	5.0	1		12/12/21 08:54		
2540D Total Suspended Solids	Analytical Method: SM 2540D 2011 Pace Analytical Services - New Orleans							
Total Suspended Solids	**214**	mg/L	4.0	1		12/08/21 15:11		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - New Orleans							
pH at 25 Degrees C	**8.3**	Std. Units	0.010	1		12/14/21 16:56		H3,H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B Pace Analytical Services - New Orleans							
BOD, 5 day	ND	mg/L	3.0	3	12/08/21 11:35	12/13/21 10:28		

Sample: DSN006 **Lab ID: 20227940004** Collected: 12/06/21 16:19 Received: 12/07/21 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - New Orleans							
Aluminum	**15100**	ug/L	200	1	12/09/21 06:45	12/09/21 13:03	7429-90-5	
Antimony	ND	ug/L	60.0	1	12/09/21 06:45	12/09/21 13:03	7440-36-0	
Arsenic	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 13:03	7440-38-2	
Barium	**999**	ug/L	200	1	12/09/21 06:45	12/09/21 13:03	7440-39-3	
Beryllium	ND	ug/L	5.0	1	12/09/21 06:45	12/09/21 13:03	7440-41-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Spoolbase Semi Annual
Pace Project No.: 20227940

Sample: DSN006 **Lab ID: 20227940004** Collected: 12/06/21 16:19 Received: 12/07/21 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
	Pace Analytical Services - New Orleans							
Cadmium	ND	ug/L	5.0	1	12/09/21 06:45	12/09/21 13:03	7440-43-9	
Calcium	**332000**	ug/L	1000	1	12/09/21 06:45	12/09/21 13:03	7440-70-2	
Chromium	**36.4**	ug/L	10.0	1	12/09/21 06:45	12/09/21 13:03	7440-47-3	
Cobalt	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 13:03	7440-48-4	
Copper	**77.0**	ug/L	10.0	1	12/09/21 06:45	12/09/21 13:03	7440-50-8	
Iron	**20100**	ug/L	50.0	1	12/09/21 06:45	12/09/21 13:03	7439-89-6	
Lead	**29.5**	ug/L	5.0	1	12/09/21 06:45	12/09/21 13:03	7439-92-1	
Magnesium	**13700**	ug/L	1000	1	12/09/21 06:45	12/09/21 13:03	7439-95-4	
Manganese	**356**	ug/L	10.0	1	12/09/21 06:45	12/09/21 13:03	7439-96-5	
Nickel	ND	ug/L	40.0	1	12/09/21 06:45	12/09/21 13:03	7440-02-0	
Potassium	**3540**	ug/L	1000	1	12/09/21 06:45	12/09/21 13:03	7440-09-7	
Selenium	ND	ug/L	20.0	1	12/09/21 06:45	12/09/21 13:03	7782-49-2	
Silver	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 13:03	7440-22-4	
Sodium	**16200**	ug/L	1000	1	12/09/21 06:45	12/09/21 13:03	7440-23-5	
Thallium	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 13:03	7440-28-0	
Vanadium	ND	ug/L	50.0	1	12/09/21 06:45	12/09/21 13:03	7440-62-2	
Zinc	**706**	ug/L	20.0	1	12/09/21 06:45	12/09/21 13:03	7440-66-6	
8260 MSV	Analytical Method: EPA 8260							
	Pace Analytical Services - New Orleans							
Benzene	ND	ug/L	5.0	1		12/09/21 18:53	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1		12/09/21 18:53	100-41-4	
Toluene	ND	ug/L	5.0	1		12/09/21 18:53	108-88-3	
m&p-Xylene	ND	ug/L	10.0	1		12/09/21 18:53	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		12/09/21 18:53	95-47-6	
Surrogates								
Toluene-d8 (S)	100	%.	76-124	1		12/09/21 18:53	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	78-121	1		12/09/21 18:53	460-00-4	
Dibromofluoromethane (S)	88	%.	74-128	1		12/09/21 18:53	1868-53-7	
HEM, Oil and Grease	Analytical Method: EPA 1664B, 2010							
	Pace Analytical Services - New Orleans							
Oil and Grease	ND	mg/L	5.0	1		12/12/21 08:54		
2540D Total Suspended Solids	Analytical Method: SM 2540D 2011							
	Pace Analytical Services - New Orleans							
Total Suspended Solids	**848**	mg/L	8.0	1		12/08/21 15:11		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
	Pace Analytical Services - New Orleans							
pH at 25 Degrees C	**8.2**	Std. Units	0.010	1		12/14/21 16:45		H3,H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
	Pace Analytical Services - New Orleans							
BOD, 5 day	**3.2**	mg/L	3.0	3	12/08/21 11:38	12/13/21 10:30		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Spoolbase Semi Annual
Pace Project No.: 20227940

Sample: DSN007 **Lab ID: 20227940005** Collected: 12/06/21 16:28 Received: 12/07/21 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7							
	Pace Analytical Services - New Orleans							
Aluminum	**15000**	ug/L	200	1	12/09/21 06:45	12/09/21 13:07	7429-90-5	
Antimony	ND	ug/L	60.0	1	12/09/21 06:45	12/09/21 13:07	7440-36-0	
Arsenic	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 13:07	7440-38-2	
Barium	**988**	ug/L	200	1	12/09/21 06:45	12/09/21 13:07	7440-39-3	
Beryllium	ND	ug/L	5.0	1	12/09/21 06:45	12/09/21 13:07	7440-41-7	
Cadmium	ND	ug/L	5.0	1	12/09/21 06:45	12/09/21 13:07	7440-43-9	
Calcium	**332000**	ug/L	1000	1	12/09/21 06:45	12/09/21 13:07	7440-70-2	
Chromium	**36.6**	ug/L	10.0	1	12/09/21 06:45	12/09/21 13:07	7440-47-3	
Cobalt	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 13:07	7440-48-4	
Copper	**78.6**	ug/L	10.0	1	12/09/21 06:45	12/09/21 13:07	7440-50-8	
Iron	**20200**	ug/L	50.0	1	12/09/21 06:45	12/09/21 13:07	7439-89-6	
Lead	**29.5**	ug/L	5.0	1	12/09/21 06:45	12/09/21 13:07	7439-92-1	
Magnesium	**13700**	ug/L	1000	1	12/09/21 06:45	12/09/21 13:07	7439-95-4	
Manganese	**355**	ug/L	10.0	1	12/09/21 06:45	12/09/21 13:07	7439-96-5	
Nickel	ND	ug/L	40.0	1	12/09/21 06:45	12/09/21 13:07	7440-02-0	
Potassium	**3530**	ug/L	1000	1	12/09/21 06:45	12/09/21 13:07	7440-09-7	
Selenium	ND	ug/L	20.0	1	12/09/21 06:45	12/09/21 13:07	7782-49-2	
Silver	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 13:07	7440-22-4	
Sodium	**14100**	ug/L	1000	1	12/09/21 06:45	12/09/21 13:07	7440-23-5	
Thallium	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 13:07	7440-28-0	
Vanadium	ND	ug/L	50.0	1	12/09/21 06:45	12/09/21 13:07	7440-62-2	
Zinc	**715**	ug/L	20.0	1	12/09/21 06:45	12/09/21 13:07	7440-66-6	
8260 MSV	Analytical Method: EPA 8260							
	Pace Analytical Services - New Orleans							
Benzene	ND	ug/L	5.0	1		12/09/21 19:10	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1		12/09/21 19:10	100-41-4	
Toluene	ND	ug/L	5.0	1		12/09/21 19:10	108-88-3	
m&p-Xylene	ND	ug/L	10.0	1		12/09/21 19:10	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		12/09/21 19:10	95-47-6	
Surrogates								
Toluene-d8 (S)	99	%.	76-124	1		12/09/21 19:10	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	78-121	1		12/09/21 19:10	460-00-4	
Dibromofluoromethane (S)	88	%.	74-128	1		12/09/21 19:10	1868-53-7	
HEM, Oil and Grease	Analytical Method: EPA 1664B, 2010							
	Pace Analytical Services - New Orleans							
Oil and Grease	ND	mg/L	5.0	1		12/12/21 08:54		
2540D Total Suspended Solids	Analytical Method: SM 2540D 2011							
	Pace Analytical Services - New Orleans							
Total Suspended Solids	**610**	mg/L	20.0	1		12/09/21 06:50		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Spoolbase Semi Annual
Pace Project No.: 20227940

Sample: DSN007 **Lab ID: 20227940005** Collected: 12/06/21 16:28 Received: 12/07/21 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - New Orleans							
pH at 25 Degrees C	**8.1**	Std. Units	0.010	1		12/14/21 16:39		H3,H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B Pace Analytical Services - New Orleans							
BOD, 5 day	ND	mg/L	3.0	3	12/08/21 11:41	12/13/21 10:32		

Sample: DSN008 **Lab ID: 20227940006** Collected: 12/06/21 16:37 Received: 12/07/21 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - New Orleans							
Aluminum	**2420**	ug/L	200	1	12/09/21 06:45	12/09/21 13:11	7429-90-5	
Antimony	ND	ug/L	60.0	1	12/09/21 06:45	12/09/21 13:11	7440-36-0	
Arsenic	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 13:11	7440-38-2	
Barium	ND	ug/L	200	1	12/09/21 06:45	12/09/21 13:11	7440-39-3	
Beryllium	ND	ug/L	5.0	1	12/09/21 06:45	12/09/21 13:11	7440-41-7	
Cadmium	ND	ug/L	5.0	1	12/09/21 06:45	12/09/21 13:11	7440-43-9	
Calcium	**151000**	ug/L	1000	1	12/09/21 06:45	12/09/21 13:11	7440-70-2	
Chromium	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 13:11	7440-47-3	
Cobalt	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 13:11	7440-48-4	
Copper	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 13:11	7440-50-8	
Iron	**2600**	ug/L	50.0	1	12/09/21 06:45	12/09/21 13:11	7439-89-6	
Lead	ND	ug/L	5.0	1	12/09/21 06:45	12/09/21 13:11	7439-92-1	
Magnesium	**4730**	ug/L	1000	1	12/09/21 06:45	12/09/21 13:11	7439-95-4	
Manganese	**62.3**	ug/L	10.0	1	12/09/21 06:45	12/09/21 13:11	7439-96-5	
Nickel	ND	ug/L	40.0	1	12/09/21 06:45	12/09/21 13:11	7440-02-0	
Potassium	**1600**	ug/L	1000	1	12/09/21 06:45	12/09/21 13:11	7440-09-7	
Selenium	ND	ug/L	20.0	1	12/09/21 06:45	12/09/21 13:11	7782-49-2	
Silver	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 13:11	7440-22-4	
Sodium	**3620**	ug/L	1000	1	12/09/21 06:45	12/09/21 13:11	7440-23-5	
Thallium	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 13:11	7440-28-0	
Vanadium	ND	ug/L	50.0	1	12/09/21 06:45	12/09/21 13:11	7440-62-2	
Zinc	**31.2**	ug/L	20.0	1	12/09/21 06:45	12/09/21 13:11	7440-66-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - New Orleans							
Benzene	ND	ug/L	5.0	1		12/09/21 19:27	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1		12/09/21 19:27	100-41-4	
Toluene	ND	ug/L	5.0	1		12/09/21 19:27	108-88-3	
m&p-Xylene	ND	ug/L	10.0	1		12/09/21 19:27	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		12/09/21 19:27	95-47-6	
Surrogates								
Toluene-d8 (S)	98	%.	76-124	1		12/09/21 19:27	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Spoolbase Semi Annual
Pace Project No.: 20227940

Sample: DSN008 **Lab ID: 20227940006** Collected: 12/06/21 16:37 Received: 12/07/21 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - New Orleans							
Surrogates								
4-Bromofluorobenzene (S)	100	%.	78-121	1		12/09/21 19:27	460-00-4	
Dibromofluoromethane (S)	89	%.	74-128	1		12/09/21 19:27	1868-53-7	
HEM, Oil and Grease	Analytical Method: EPA 1664B, 2010 Pace Analytical Services - New Orleans							
Oil and Grease	ND	mg/L	5.0	1		12/12/21 08:54		
2540D Total Suspended Solids	Analytical Method: SM 2540D 2011 Pace Analytical Services - New Orleans							
Total Suspended Solids	**135**	mg/L	4.0	1		12/09/21 06:50		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - New Orleans							
pH at 25 Degrees C	**8.3**	Std. Units	0.010	1		12/14/21 16:40		H3,H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B Pace Analytical Services - New Orleans							
BOD, 5 day	ND	mg/L	3.0	3	12/08/21 11:43	12/13/21 10:33		

Sample: DSN009 **Lab ID: 20227940007** Collected: 12/06/21 16:57 Received: 12/07/21 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - New Orleans							
Aluminum	**299**	ug/L	200	1	12/09/21 06:45	12/09/21 13:15	7429-90-5	
Antimony	ND	ug/L	60.0	1	12/09/21 06:45	12/09/21 13:15	7440-36-0	
Arsenic	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 13:15	7440-38-2	
Barium	ND	ug/L	200	1	12/09/21 06:45	12/09/21 13:15	7440-39-3	
Beryllium	ND	ug/L	5.0	1	12/09/21 06:45	12/09/21 13:15	7440-41-7	
Cadmium	ND	ug/L	5.0	1	12/09/21 06:45	12/09/21 13:15	7440-43-9	
Calcium	**10400**	ug/L	1000	1	12/09/21 06:45	12/09/21 13:15	7440-70-2	
Chromium	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 13:15	7440-47-3	
Cobalt	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 13:15	7440-48-4	
Copper	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 13:15	7440-50-8	
Iron	**502**	ug/L	50.0	1	12/09/21 06:45	12/09/21 13:15	7439-89-6	
Lead	ND	ug/L	5.0	1	12/09/21 06:45	12/09/21 13:15	7439-92-1	
Magnesium	ND	ug/L	1000	1	12/09/21 06:45	12/09/21 13:15	7439-95-4	
Manganese	**14.8**	ug/L	10.0	1	12/09/21 06:45	12/09/21 13:15	7439-96-5	
Nickel	ND	ug/L	40.0	1	12/09/21 06:45	12/09/21 13:15	7440-02-0	
Potassium	ND	ug/L	1000	1	12/09/21 06:45	12/09/21 13:15	7440-09-7	
Selenium	ND	ug/L	20.0	1	12/09/21 06:45	12/09/21 13:15	7782-49-2	
Silver	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 13:15	7440-22-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

ANALYTICAL RESULTS

Project: Spoolbase Semi Annual
Pace Project No.: 20227940

Sample: DSN009 **Lab ID: 20227940007** Collected: 12/06/21 16:57 Received: 12/07/21 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total	Analytical Method: EPA 200.7 Preparation Method: EPA 200.7 Pace Analytical Services - New Orleans							
Sodium	**1340**	ug/L	1000	1	12/09/21 06:45	12/09/21 13:15	7440-23-5	
Thallium	ND	ug/L	10.0	1	12/09/21 06:45	12/09/21 13:15	7440-28-0	
Vanadium	ND	ug/L	50.0	1	12/09/21 06:45	12/09/21 13:15	7440-62-2	
Zinc	**150**	ug/L	20.0	1	12/09/21 06:45	12/09/21 13:15	7440-66-6	
8260 MSV	Analytical Method: EPA 8260 Pace Analytical Services - New Orleans							
Benzene	ND	ug/L	5.0	1		12/09/21 19:45	71-43-2	
Ethylbenzene	ND	ug/L	5.0	1		12/09/21 19:45	100-41-4	
Toluene	ND	ug/L	5.0	1		12/09/21 19:45	108-88-3	
m&p-Xylene	ND	ug/L	10.0	1		12/09/21 19:45	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		12/09/21 19:45	95-47-6	
Surrogates								
Toluene-d8 (S)	97	%.	76-124	1		12/09/21 19:45	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	78-121	1		12/09/21 19:45	460-00-4	
Dibromofluoromethane (S)	88	%.	74-128	1		12/09/21 19:45	1868-53-7	
HEM, Oil and Grease	Analytical Method: EPA 1664B, 2010 Pace Analytical Services - New Orleans							
Oil and Grease	ND	mg/L	5.0	1		12/12/21 08:54		
2540D Total Suspended Solids	Analytical Method: SM 2540D 2011 Pace Analytical Services - New Orleans							
Total Suspended Solids	**11.0**	mg/L	4.0	1		12/09/21 06:50		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - New Orleans							
pH at 25 Degrees C	**7.7**	Std. Units	0.010	1		12/14/21 16:54		H3,H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B Pace Analytical Services - New Orleans							
BOD, 5 day	ND	mg/L	3.0	3	12/08/21 11:46	12/13/21 10:35		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
4320 Midmost Dr
Mobile, AL 36609
251-344-9106

QUALITY CONTROL DATA

Project: Spoolbase Semi Annual
Pace Project No.: 20227940

QC Batch: 242022
QC Batch Method: EPA 200.7
Analysis Method: EPA 200.7
Analysis Description: 200.7 Metals, Total
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20227940001, 20227940002, 20227940003, 20227940004, 20227940005, 20227940006, 20227940007

METHOD BLANK: 1147126 Matrix: Water
Associated Lab Samples: 20227940001, 20227940002, 20227940003, 20227940004, 20227940005, 20227940006, 20227940007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	200	12/09/21 11:36	
Antimony	ug/L	ND	60.0	12/09/21 11:36	
Arsenic	ug/L	ND	10.0	12/09/21 11:36	
Barium	ug/L	ND	200	12/09/21 11:36	
Beryllium	ug/L	ND	5.0	12/09/21 11:36	
Cadmium	ug/L	ND	5.0	12/09/21 11:36	
Calcium	ug/L	ND	1000	12/09/21 11:36	
Chromium	ug/L	ND	10.0	12/09/21 11:36	
Cobalt	ug/L	ND	10.0	12/09/21 11:36	
Copper	ug/L	ND	10.0	12/09/21 11:36	
Iron	ug/L	ND	50.0	12/09/21 11:36	
Lead	ug/L	ND	5.0	12/09/21 11:36	
Magnesium	ug/L	ND	1000	12/09/21 11:36	
Manganese	ug/L	ND	10.0	12/09/21 11:36	
Nickel	ug/L	ND	40.0	12/09/21 11:36	
Potassium	ug/L	ND	1000	12/09/21 11:36	
Selenium	ug/L	ND	20.0	12/09/21 11:36	
Silver	ug/L	ND	10.0	12/09/21 11:36	
Sodium	ug/L	ND	1000	12/09/21 11:36	
Thallium	ug/L	ND	10.0	12/09/21 11:36	
Vanadium	ug/L	ND	50.0	12/09/21 11:36	
Zinc	ug/L	ND	20.0	12/09/21 11:36	

LABORATORY CONTROL SAMPLE: 1147127

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10600	106	85-115	
Antimony	ug/L	1000	1060	106	85-115	
Arsenic	ug/L	1000	1050	105	85-115	
Barium	ug/L	1000	1080	108	85-115	
Beryllium	ug/L	1000	1100	110	85-115	
Cadmium	ug/L	1000	1070	107	85-115	
Calcium	ug/L	10000	10800	108	85-115	
Chromium	ug/L	1000	1070	107	85-115	
Cobalt	ug/L	1000	1100	110	85-115	
Copper	ug/L	1000	1080	108	85-115	
Iron	ug/L	5000	5290	106	85-115	
Lead	ug/L	1000	1060	106	85-115	
Magnesium	ug/L	10000	10700	107	85-115	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Spoolbase Semi Annual
Pace Project No.: 20227940

LABORATORY CONTROL SAMPLE: 1147127

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Manganese	ug/L	1000	1100	110	85-115	
Nickel	ug/L	1000	1060	106	85-115	
Potassium	ug/L	10000	10300	103	85-115	
Selenium	ug/L	1000	1030	103	85-115	
Silver	ug/L	500	542	108	85-115	
Sodium	ug/L	10000	10400	104	85-115	
Thallium	ug/L	500	555	111	85-115	
Vanadium	ug/L	1000	1070	107	85-115	
Zinc	ug/L	1000	1080	108	85-115	

MATRIX SPIKE SAMPLE: 1147129

Parameter	Units	20227923001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	1460	10000	12000	105	70-130	
Antimony	ug/L	60.0 U	1000	966	96	70-130	
Arsenic	ug/L	10.0 U	1000	949	95	70-130	
Barium	ug/L	200 U	1000	1040	97	70-130	
Beryllium	ug/L	5.0 U	1000	990	99	70-130	
Cadmium	ug/L	5.0 U	1000	949	95	70-130	
Calcium	ug/L	23200	10000	32200	90	70-130	
Chromium	ug/L	10.0 U	1000	967	96	70-130	
Cobalt	ug/L	10.0 U	1000	981	98	70-130	
Copper	ug/L	10.5	1000	992	98	70-130	
Iron	ug/L	4750	5000	9570	96	70-130	
Lead	ug/L	8.5	1000	960	95	70-130	
Magnesium	ug/L	1560	10000	11100	96	70-130	
Manganese	ug/L	496	1000	1460	97	70-130	
Nickel	ug/L	40.0 U	1000	949	95	70-130	
Potassium	ug/L	1150	10000	10600	94	70-130	
Selenium	ug/L	20.0 U	1000	937	94	70-130	
Silver	ug/L	10.0 U	500	491	98	70-130	
Sodium	ug/L	2570	10000	11900	94	70-130	
Thallium	ug/L	10.0 U	500	494	98	70-130	
Vanadium	ug/L	50.0 U	1000	971	97	70-130	
Zinc	ug/L	55.2	1000	1010	96	70-130	

MATRIX SPIKE SAMPLE: 1147130

Parameter	Units	20227923002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	1000 U	10000	10200	96	70-130	
Antimony	ug/L	300 U	1000	882	88	70-130	
Arsenic	ug/L	50.0 U	1000	896	89	70-130	
Barium	ug/L	1000 U	1000	966	92	70-130	
Beryllium	ug/L	25.0 U	1000	927	93	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Spoolbase Semi Annual
Pace Project No.: 20227940

MATRIX SPIKE SAMPLE: 1147130

Parameter	Units	20227923002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	25.0 U	1000	798	80	70-130	
Calcium	ug/L	99000	10000	103000	38	70-130	M1
Chromium	ug/L	50.0 U	1000	867	87	70-130	
Cobalt	ug/L	50.0 U	1000	827	83	70-130	
Copper	ug/L	50.0 U	1000	949	95	70-130	
Iron	ug/L	750	5000	5170	88	70-130	
Lead	ug/L	25.0 U	1000	788	78	70-130	
Magnesium	ug/L	266000	10000	270000	36	70-130	M1
Manganese	ug/L	88.4	1000	968	88	70-130	
Nickel	ug/L	200 U	1000	791	79	70-130	
Potassium	ug/L	81400	10000	90400	90	70-130	
Selenium	ug/L	100 U	1000	857	86	70-130	
Silver	ug/L	50.0 U	500	481	96	70-130	
Sodium	ug/L	2110000	10000	1880000	-2300	70-130	
Thallium	ug/L	50.0 U	500	378	75	70-130	
Vanadium	ug/L	250 U	1000	900	89	70-130	
Zinc	ug/L	100 U	1000	828	81	70-130	

SAMPLE DUPLICATE: 1147128

Parameter	Units	20227923001 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum	ug/L	1460	1500	3	20	
Antimony	ug/L	60.0 U	ND		20	
Arsenic	ug/L	10.0 U	ND		20	
Barium	ug/L	200 U	74.8J		20	
Beryllium	ug/L	5.0 U	ND		20	
Cadmium	ug/L	5.0 U	.66J		20	
Calcium	ug/L	23200	24100	4	20	
Chromium	ug/L	10.0 U	3.8J		20	
Cobalt	ug/L	10.0 U	2J		20	
Copper	ug/L	10.5	10.6	1	20	
Iron	ug/L	4750	4930	4	20	
Lead	ug/L	8.5	9.4	10	20	
Magnesium	ug/L	1560	1630	4	20	
Manganese	ug/L	496	512	3	20	
Nickel	ug/L	40.0 U	ND		20	
Potassium	ug/L	1150	1180	3	20	
Selenium	ug/L	20.0 U	ND		20	
Silver	ug/L	10.0 U	ND		20	
Sodium	ug/L	2570	2650	3	20	
Thallium	ug/L	10.0 U	ND		20	
Vanadium	ug/L	50.0 U	ND		20	
Zinc	ug/L	55.2	56.5	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Spoolbase Semi Annual
Pace Project No.: 20227940

QC Batch: 242134
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20227940001, 20227940002, 20227940003, 20227940004, 20227940005, 20227940006, 20227940007

METHOD BLANK: 1147625 Matrix: Water
Associated Lab Samples: 20227940001, 20227940002, 20227940003, 20227940004, 20227940005, 20227940006, 20227940007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	5.0	12/09/21 14:15	
Ethylbenzene	ug/L	ND	5.0	12/09/21 14:15	
m&p-Xylene	ug/L	ND	10.0	12/09/21 14:15	
o-Xylene	ug/L	ND	5.0	12/09/21 14:15	
Toluene	ug/L	ND	5.0	12/09/21 14:15	
4-Bromofluorobenzene (S)	%.	98	78-121	12/09/21 14:15	
Dibromofluoromethane (S)	%.	93	74-128	12/09/21 14:15	
Toluene-d8 (S)	%.	99	76-124	12/09/21 14:15	

METHOD BLANK: 1148789 Matrix: Water
Associated Lab Samples: 20227940001, 20227940002, 20227940003, 20227940004, 20227940005, 20227940006, 20227940007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	5.0	12/10/21 12:21	
Ethylbenzene	ug/L	ND	5.0	12/10/21 12:21	
m&p-Xylene	ug/L	ND	10.0	12/10/21 12:21	
o-Xylene	ug/L	ND	5.0	12/10/21 12:21	
Toluene	ug/L	ND	5.0	12/10/21 12:21	
4-Bromofluorobenzene (S)	%.	100	78-121	12/10/21 12:21	
Dibromofluoromethane (S)	%.	91	74-128	12/10/21 12:21	
Toluene-d8 (S)	%.	99	76-124	12/10/21 12:21	

LABORATORY CONTROL SAMPLE: 1147626

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	50.7	101	74-132	
Ethylbenzene	ug/L	50	53.2	106	79-116	
m&p-Xylene	ug/L	100	105	105	78-119	
o-Xylene	ug/L	50	51.3	103	77-121	
Toluene	ug/L	50	54.5	109	79-120	
4-Bromofluorobenzene (S)	%.			94	78-121	
Dibromofluoromethane (S)	%.			92	74-128	
Toluene-d8 (S)	%.			100	76-124	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Spoolbase Semi Annual
Pace Project No.: 20227940

LABORATORY CONTROL SAMPLE: 1148790

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	51.4	103	74-132	
Ethylbenzene	ug/L	50	56.1	112	79-116	
m&p-Xylene	ug/L	100	113	113	78-119	
o-Xylene	ug/L	50	53.9	108	77-121	
Toluene	ug/L	50	56.3	113	79-120	
4-Bromofluorobenzene (S)	%.			96	78-121	
Dibromofluoromethane (S)	%.			89	74-128	
Toluene-d8 (S)	%.			98	76-124	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1148091 1148092

Parameter	Units	20227940007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	ND	50	50	48.2	49.8	96	100	29-186	3	20	
Ethylbenzene	ug/L	ND	50	50	52.1	54.4	104	109	51-153	4	20	
m&p-Xylene	ug/L	ND	100	100	104	109	104	109	30-173	4	20	
o-Xylene	ug/L	ND	50	50	51.1	53.0	102	106	10-197	4	20	
Toluene	ug/L	ND	50	50	52.3	54.0	104	107	33-175	3	20	
4-Bromofluorobenzene (S)	%.						97	98	78-121			
Dibromofluoromethane (S)	%.						88	88	74-128			
Toluene-d8 (S)	%.						98	97	76-124			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Spoolbase Semi Annual
Pace Project No.: 20227940

QC Batch: 242294
QC Batch Method: EPA 1664B, 2010
Analysis Method: EPA 1664B, 2010
Analysis Description: 1664 HEM, Oil and Grease
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20227940001, 20227940002, 20227940003, 20227940004, 20227940005, 20227940006, 20227940007

METHOD BLANK: 1148716 Matrix: Water
Associated Lab Samples: 20227940001, 20227940002, 20227940003, 20227940004, 20227940005, 20227940006, 20227940007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	12/12/21 08:54	

LABORATORY CONTROL SAMPLE: 1148717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	33.2	83	78-114	

MATRIX SPIKE SAMPLE: 1148718

Parameter	Units	20227736002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40	34.5	84	78-114	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Spoolbase Semi Annual
Pace Project No.: 20227940

QC Batch: 242014
QC Batch Method: SM 2540D 2011
Analysis Method: SM 2540D 2011
Analysis Description: 2540D Total Suspended Solids
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20227940001, 20227940002, 20227940003, 20227940004

METHOD BLANK: 1147042 Matrix: Water
Associated Lab Samples: 20227940001, 20227940002, 20227940003, 20227940004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	4.0	12/08/21 15:09	

LABORATORY CONTROL SAMPLE: 1147043

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	96.0	96	80-120	

SAMPLE DUPLICATE: 1147044

Parameter	Units	20226002002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	246	242	2	20	H1

SAMPLE DUPLICATE: 1147045

Parameter	Units	20227905001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	25.0	26.0	4	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Spoolbase Semi Annual
Pace Project No.: 20227940

QC Batch: 242041
QC Batch Method: SM 2540D 2011
Analysis Method: SM 2540D 2011
Analysis Description: 2540D Total Suspended Solids
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20227940005, 20227940006, 20227940007

METHOD BLANK: 1147274 Matrix: Water
Associated Lab Samples: 20227940005, 20227940006, 20227940007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	4.0	12/09/21 06:49	

LABORATORY CONTROL SAMPLE: 1147275

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	97.0	97	80-120	

SAMPLE DUPLICATE: 1147276

Parameter	Units	20228021001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	86.0	94.0	9	20	

SAMPLE DUPLICATE: 1147277

Parameter	Units	20227977001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	*205*	185	10	20	

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QUALITY CONTROL DATA

Project: Spoolbase Semi Annual
Pace Project No.: 20227940

QC Batch: 242374
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20227940001, 20227940002, 20227940003, 20227940004, 20227940005, 20227940006, 20227940007

LABORATORY CONTROL SAMPLE: 1148956

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
pH at 25 Degrees C	Std. Units	6	6.0	100	97-103	H6

SAMPLE DUPLICATE: 1148957

Parameter	Units	20226960001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.5	6.4	1	20	H3,H6

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QUALITY CONTROL DATA

Project: Spoolbase Semi Annual
Pace Project No.: 20227940

QC Batch: 241930 | Analysis Method: SM 5210B
QC Batch Method: SM 5210B | Analysis Description: 5210B BOD, 5 day
Laboratory: Pace Analytical Services - New Orleans
Associated Lab Samples: 20227940001, 20227940002, 20227940003, 20227940004, 20227940005, 20227940006, 20227940007

METHOD BLANK: 1146606 Matrix: Water
Associated Lab Samples: 20227940001, 20227940002, 20227940003, 20227940004, 20227940005, 20227940006, 20227940007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	0.20	12/13/21 10:07	

LABORATORY CONTROL SAMPLE: 1146608

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	188	95	85-115	

SAMPLE DUPLICATE: 1146609

Parameter	Units	20227921001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	6.7	7.0	5	20	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Spoolbase Semi Annual
Pace Project No.: 20227940

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

ANALYTE QUALIFIERS

H1	Analysis conducted outside the EPA method holding time.
H3	Sample was received or analysis requested beyond the recognized method holding time.
H6	Analysis initiated outside of the 15 minute EPA required holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P1	Routine initial sample volume or weight was not used for extraction, resulting in elevated reporting limits.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Spoolbase Semi Annual
Pace Project No.: 20227940

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
20227940001	DSN001	EPA 200.7	242022	EPA 200.7	242072
20227940002	DSN002	EPA 200.7	242022	EPA 200.7	242072
20227940003	DSN004	EPA 200.7	242022	EPA 200.7	242072
20227940004	DSN006	EPA 200.7	242022	EPA 200.7	242072
20227940005	DSN007	EPA 200.7	242022	EPA 200.7	242072
20227940006	DSN008	EPA 200.7	242022	EPA 200.7	242072
20227940007	DSN009	EPA 200.7	242022	EPA 200.7	242072
20227940001	DSN001	EPA 8260	242134		
20227940002	DSN002	EPA 8260	242134		
20227940003	DSN004	EPA 8260	242134		
20227940004	DSN006	EPA 8260	242134		
20227940005	DSN007	EPA 8260	242134		
20227940006	DSN008	EPA 8260	242134		
20227940007	DSN009	EPA 8260	242134		
20227940001	DSN001	EPA 1664B, 2010	242294		
20227940002	DSN002	EPA 1664B, 2010	242294		
20227940003	DSN004	EPA 1664B, 2010	242294		
20227940004	DSN006	EPA 1664B, 2010	242294		
20227940005	DSN007	EPA 1664B, 2010	242294		
20227940006	DSN008	EPA 1664B, 2010	242294		
20227940007	DSN009	EPA 1664B, 2010	242294		
20227940001	DSN001	SM 2540D 2011	242014		
20227940002	DSN002	SM 2540D 2011	242014		
20227940003	DSN004	SM 2540D 2011	242014		
20227940004	DSN006	SM 2540D 2011	242014		
20227940005	DSN007	SM 2540D 2011	242041		
20227940006	DSN008	SM 2540D 2011	242041		
20227940007	DSN009	SM 2540D 2011	242041		
20227940001	DSN001	SM 4500-H+B	242374		
20227940002	DSN002	SM 4500-H+B	242374		
20227940003	DSN004	SM 4500-H+B	242374		
20227940004	DSN006	SM 4500-H+B	242374		
20227940005	DSN007	SM 4500-H+B	242374		
20227940006	DSN008	SM 4500-H+B	242374		
20227940007	DSN009	SM 4500-H+B	242374		
20227940001	DSN001	SM 5210B	241930	SM 5210B	242375
20227940002	DSN002	SM 5210B	241930	SM 5210B	242375
20227940003	DSN004	SM 5210B	241930	SM 5210B	242375
20227940004	DSN006	SM 5210B	241930	SM 5210B	242375
20227940005	DSN007	SM 5210B	241930	SM 5210B	242375
20227940006	DSN008	SM 5210B	241930	SM 5210B	242375
20227940007	DSN009	SM 5210B	241930	SM 5210B	242375

WO# : 20227940

20227940

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Requ

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant f

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https:/

Section A	Section B	Section C
Required Client Information:	**Required Project Information:**	**Invoice Information:**
Company: TechnipFMC	Report To: Jason Hearon	Attention:
Address: 7323 Dauphin Island Parkway	Copy To:	Company Name:
Theodore, AL 36582		Address:
Email: jason.hearon@technipfmc.com	Purchase Order #:	Pace Quote:
Phone: (251)234-9228 Fax:	Project Name: Spoolbase Semi Annual	Pace Project Manager: savannah.wallace@pacelabs.com
Requested Due Date:	Project #:	Pace Profile #: 16407

Regulatory Agency

State / Location
AL

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Analyses Test: BOD 5-day	TSS + pH	Oil and Grease by 1664	Total Metals by 200.7	BTEX by 8260											Residual Chlorine (Y/N)	
1	DSN001	WT		12/6	1534														x	x	x	x	x									
2	DSN002	WT		12/6	1551														x	x	x	x	x									
3	DSN004	WT		12/6	1607														x	x	x	x	x									
4	DSN006	WT		12/6	1619														x	x	x	x	x									
5	DSN007	WT		12/6	1624														x	x	x	x	x									
6	DSN008	WT		12/6	1637														x	x	x	x	x									
7	DSN009	WT		12/6	1651														x	x	x	x	x									
8																																
9																																
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		12-7-21	947		12-7-21	947				
		12-7	1217		12/12	1217	5.7	Y	N	Y

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Jason Hearon					
SIGNATURE of SAMPLER:		Date Signed: 12-6-21				

Face Analytical

4320 Midmost Dr Mobile AL 36609

Sample Condition Upon Receipt

WO#: 20227940

PM: SLW Due Date: 12/16/21

CLIENT: MO-Technip

Project #: _____

Courier: ☑ Pace ☐ Client ☐ FedEx ☐ UPS ☐ Other Tracking # _____

Custody Seal on Cooler/Box Present: [see COC] Custody Seals intact: ☐Yes ☐No

Thermometer Used: ☑ Therm Fisher IR 001 ☐ Other:

Type of Ice: (Wet) Blue None

Samples on ice: [see COC]

Cooler Temperature: [see COC]

Date and Initials of person examining contents: MAS 12/7/21

Temp must be measured from temperature blank when present

			Comments:
Temperature Blank Present:	☐Yes	☑No ☐N/A	1
Chain of Custody Present:	☑Yes	☐No ☐N/A	2
Chain of Custody Complete:	☑Yes	☐No ☐N/A	3
Chain of Custody Relinquished:	☑Yes	☐No ☐N/A	4
Sampler Name on COC:	☑Yes	☐No ☐N/A	5
Short Hold Time Analyses (<72 hr):	☑Yes	☐No ☐N/A	6
Rush Turn Around Requested:	☐Yes	☑No ☐N/A	7
Samples Arrived within Hold Time:	☑Yes	☐No ☐N/A	8
Sufficient Volume:	☑Yes	☐No ☐N/A	9
Correct Containers Used:	☑Yes	☐No ☐N/A	10
Filtered vol. Rec. for Diss. tests	☐Yes	☐No ☑N/A	11
Sample Labels match COC:	☑Yes	☐No ☐N/A	12
All containers received within manufacturer's precautionary and/or expiration dates:	☑Yes	☐No ☐N/A	13
All containers needing chemical preservation have been checked (except VOA, micro, & O&G):	☑Yes	☐No ☐N/A	14 001
All containers preservation checked found to be in compliance with EPA recommendation:	☐Yes	☑No ☐N/A	15 If No, was preserative added? ☑Yes ☐No If added record lot no.: HNO3 160212 H2SO4 _____
Headspace in VOA Vials (>6mm):	☐Yes	☑No ☐N/A	16
Trip Blank Present:	☐Yes	☑No	17

Client Notification/Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____