**Edward F. Poolos**
Director

**Jeffery W. Kitchens**
Deputy 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

SEP 0 4 2025

MR. JAMES FORD
OPERATIONS MANAGER
PRODUCTS (SE) PIPE LINE CORPORATION (PPL)
PO BOX 489
HELENA, AL 35080

**RE: REVISED DRAFT PERMIT**
**NPDES PERMIT NUMBER AL0061603**

Dear Mr. Ford:

Transmitted herein is a Revised Draft of the referenced permit.

We would appreciate your comments on the permit within **15 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 Revised Draft permit, we are also requesting comments within the same time frame from EPA.

Our records indicate that you 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 Wayne Holt by e-mail at **WHolt@adem.alabama.gov** or by phone at **(334) 271-7847.**

Sincerely,

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

Enclosure: Revised 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 Office**
110 Vulcan Road
Birmingham, AL 35209-4702
(205) 942-6168
(205) 941-1603 (FAX)

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

**Coastal Office**
1615 South Broad Street
Mobile, AL 36605
(251) 450-3400
(251) 479-2593 (FAX)

ADEM
Alabama Department of Environmental Management

# NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

**PERMITTEE:** PRODUCTS (SE) PIPE LINE CORPORATION (PPL)

**FACILITY LOCATION:** HELENA PUMP STATION
900 SHELBY COUNTY ROAD 52 EAST
HELENA, ALABAMA 35080
SHELBY COUNTY

**PERMIT NUMBER:** AL0061603

**RECEIVING WATERS:** 001 - BUCK CREEK

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

**ISSUANCE DATE:**

**EFFECTIVE DATE:**

**EXPIRATION DATE:**

REVISED DRAFT

**Alabama Department of Environmental Management**
**Water Division Chief**

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# PART I: DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

## A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

### DSN0011: Treated groundwater from petroleum remediation 3/

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 the outfall(s) listed above and described more fully in the Permittee's application. Such discharges 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| pH (00400) Effluent Gross Value | ***** | ***** | ***** | 6.0 Minimum Daily | ***** | 9.0 Maximum Daily | S.U. | Monthly | Grab | All Months |
| Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value | ***** | (Report) Maximum Daily | MGD | ***** | ***** | ***** | ***** | Monthly | Instantaneous | 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.

**DSN001Q: Treated groundwater from petroleum remediation 3/**

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 the outfall(s) listed above and described more fully in the Permittee's application. Such discharges 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| Oil & Grease (00556) Effluent Gross Value | ***** | ***** | ***** | ***** | 10.0 Monthly Average | 15.0 Maximum Daily | mg/l | Quarterly | Grab | All Months |
| Lead, Total Recoverable (01114) Effluent Gross Value | ***** | ***** | ***** | ***** | 0.19 Monthly Average | 0.38 Maximum Daily | mg/l | Quarterly | Grab | All Months |
| Methyl Tert-Butyl Ether (22417) Effluent Gross Value | ***** | ***** | ***** | ***** | ***** | (Report) Maximum Daily | ug/l | Quarterly | Grab | All Months |
| Benzene, Ethylbenzenetoulene, Xylene Combn (30383) Effluent Gross Value | ***** | ***** | ***** | ***** | ***** | 1.0 Maximum Daily | mg/l | Quarterly | Grab | All Months |
| Naphthalene (34696) Effluent Gross Value | ***** | ***** | ***** | ***** | ***** | (Report) Maximum Daily | ug/l | Quarterly | 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.

## 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:

(i) one hundred micrograms per liter;

(ii) 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;

(iii) 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:

(i) five hundred micrograms per liter;

(ii) one milligram per liter for antimony;

(iii) 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.

# 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. Routine inspections should be done at a frequency to ensure that the BMP is continually implemented and effective and in no case less frequent than once per year;

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, firefighting foams, 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.

**ADEM PERMIT RATIONALE**

**PREPARED DATE:** April 24, 2025
**PREPARED BY:** Wayne Holt
**REVISED DATE:** August 28, 2025
**REVISED BY:** Wayne Holt

Permittee Name: Products (SE) Pipe Line Corporation (PPL)

Facility Name: Helena Pump Station

Permit Number: AL0061603

PERMIT IS REISSUANCE DUE TO EXPIRATION

**DISCHARGE SERIAL NUMBERS (DSN) & DESCRIPTIONS:**

DSN001: Treated groundwater from petroleum remediation

**INDUSTRIAL CATEGORY:** NON-CATEGORICAL

**MAJOR:** **No**

**STREAM INFORMATION:**

| | |
|---|---|
| Receiving Stream: | Buck Creek |
| Classification: | Fish & Wildlife |
| River Basin: | Cahaba River Basin |
| 7Q10: | 5.63 CFS |
| 7Q2: | 11.79 CFS |
| 1Q10: | 4.26 CFS |
| Annual Average Flow: | 119.65 CFS |
| 303(d) List: | NO |
| Impairment: | N/A |
| TMDL: | YES – Pathogens |

**DISCUSSION:**
The facility operates a pump station and breakout tanks for an interstate pipeline used to convey refined petroleum products, such as gasoline and fuel oils. Petroleum products shipped and stored include gasoline, diesel fuels and turbine fuel (Jet A). The site also operates a groundwater collection and treatment system to remediate petroleum-impacted groundwater. This permit is for discharge of waters related to the ground water remediation system only. All stormwater discharges are covered under NPDES Permit No. ALG340370.

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.

## DSN0011: Treated groundwater from petroleum remediation

| Parameter | Quantity or Loading | | Units | Quality or Concentration | | | Units | Sample Freq | Sample Type | Seasonal | Basis |
|---|---|---|---|---|---|---|---|---|---|---|---|
| pH (00400)<br>Effluent Gross Value | ***** | ***** | ***** | 6.0<br>Minimum Daily | ***** | 9.0<br>Maximum Daily | S.U. | Monthly | Grab | All Months | WQBEL/BPJ |
| Flow, In Conduit or Thru Treatment Plant (50050)<br>Effluent Gross Value | ***** | (Report)<br>Maximum Daily | MGD | ***** | ***** | ***** | ***** | Monthly | Instantaneous | All Months | BPJ |

## DSN001Q: Treated groundwater from petroleum remediation

| Parameter | Quantity or Loading | | Units | Quality or Concentration | | | Units | Sample Freq | Sample Type | Seasonal | Basis |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Oil & Grease (00556)<br>Effluent Gross Value | ***** | ***** | ***** | ***** | 10.0<br>Monthly Average | 15.0<br>Maximum Daily | mg/l | Quarterly | Grab | All Months | BPJ |
| Lead, Total Recoverable (01114)<br>Effluent Gross Value | ***** | ***** | ***** | ***** | 0.19<br>Monthly Average | 0.38<br>Maximum Daily | mg/l | Quarterly | Grab | All Months | BPJ |
| Methyl Tert-Butyl Ether (22417)<br>Effluent Gross Value | ***** | ***** | ***** | ***** | ***** | (Report)<br>Maximum Daily | ug/l | Quarterly | Grab | All Months | BPJ |
| Benzene, Ethylbenzenetoulene, Xylene Combn (30383)<br>Effluent Gross Value | ***** | ***** | ***** | ***** | ***** | 1.0<br>Maximum Daily | mg/l | Quarterly | Grab | All Months | BPJ |
| Naphthalene (34696)<br>Effluent Gross Value | ***** | ***** | ***** | ***** | ***** | (Report)<br>Maximum Daily | ug/l | Quarterly | Grab | All Months | 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**

**DSN001 - Treated groundwater from petroleum remediation**

**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 reflective of the operations at this facility. The parameters with specific limits are discussed below:

**Oil & Grease**
The daily maximum limit for Oil and Grease should prevent the occurrence of a visible sheen in the stream and has been shown to be achievable using proper BMPs.

**Methyl Tert-Butyl Ether (MTBE)**
MTBE is an oxygenate that is added to fuel and is found at many petroleum release sites. A review of the historical data indicates that the frequency of detection and concentrations have been reduced over time. Monitoring will be continued in this permit issuance to ensure the groundwater treatment system continues to be effective.

**Water Quality Based Effluent Limits (WQBEL)**

**pH**
ADEM Administrative Code, Division 6 Regulations, specifically 335-6-10-.09(e)2 – Specific Water Quality for Fish & Wildlife classified streams states: "Sewage, industrial waste or other wastes shall not cause the pH to deviate more than one unit from then normal or natural pH, nor be less than 6.0, nor greater than 8.5 standard units." The existing permit requires a range of 6.0 to 8.5. An upper limit of 9.0 is proposed in this permit issuance and should remain protective of water quality in view of the high ratio of stream flow as compared to effluent flow discharged from the groundwater treatment system.

**Numeric Reasonable Potential Analysis (RPA)**
A numeric RPA was performed to determine the potential for pollutants to violate the in-stream water quality standards. The flow used for the facility was 0.033 MGD which is the long term average flow reported on EPA Form 2C. The RPA did not show any potential for the facility's discharge to violate the in-stream water quality standards.

**Total Recoverable Lead**
The reasonable potential analysis did not indicate any potential for the facility to discharge lead in amounts that would cause or contribute a violation of the water quality standard; however, the existing lead limitations have been shown to be achievable and will be continued in this permit issuance.

**Benzene, Toluene, Ethylbenzene, & Xylene (BTEX)**
Based on Best Professional Judgment (BPJ), the facility is currently required to monitor BTEX at Outfall DSN001. Previously, the permit included a daily maximum limitation based on the strictest human health water quality criteria of the include pollutants; however, since none of the individual BTEX components show a reasonable potential to violate in-stream water quality standards, the Department has determined that a daily maximum limitation of 1 mg/l is appropriate for the total sum of each of the individual pollutants. This limit should be adequate to protect the treatment system and determine if there are any leaks or spills. The total BTEX limitation of 1.0 mg/L is more stringent than the combined sum of the individual human health water quality criteria.

**Naphthalene**
The reasonable potential analysis did not indicate any potential for the facility to discharge Naphthalene in amounts that would cause or contribute to a violation of the water quality standard; therefore, report only requirements are proposed.

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

The receiving stream is not listed on the 2024 303(d) List of Impaired Waters. The stream is located in the Cahaba River Basin, which has a TMDL developed for Pathogens.

**Pathogens**

The receiving stream has a developed TMDL for Pathogens; however, the discharge from this facility is not expected to contain pathogens in any significant amount; therefore, this pollutant is not included in this permit issuance.

**Best Management Practices Plan**

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.

## REVISION: August 28, 2025

The Department has updated the BMP language located in Part IV.A.2.g of the Permit. The Permit Condition now states, "Provide for routine inspections, or 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. Routine inspections should be done at a frequency to ensure that the BMP is continually implemented and effective and in no case less frequent than once per year." This clarification was added to be consistent with 40 CFR Part 122.43(c).

Based on facility review and comments on the first draft permit, the following revisions are proposed in the revised draft:

1) pH limits are proposed at 6.0 to 9.0 rather than the previous limits of 6.0 to 8.5.

2) Limitations for parameters that were previously stated to be Water-Quality based have been correctly restated to reflect being limited based on BPJ.

3) The individual BTEX pollutants have been combined into a single combination parameter as is in the current permit and a daily maximum limit of 1 mg/l is proposed.

4) A limit was proposed for Naphthalene in the original draft; however, based on comments from the facility including a summary of naphthalene data collected at the groundwater treatment facility which indicated a maximum detection concentration in the effluent of less than 1% of the EPA recommended quality criterion for aquatic life, the limit in the revised draft is proposed to be "Report-Only".

All above rationale language included in this revision supersedes the original draft permit language. Please refer to the original draft permit rationale for the previous language.

Facility Name: **Products (SE) Pipe Line Corporation (PPL)**

NPDES No.: **AL0061603**

6/13/2017

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

| ID | Pollutant | Carcinogen "yes" | Type | Background from upstream source ($C_{d2}$) Daily Max | Background from upstream source ($C_{d2}$) Monthly Ave | Background Instream ($C_s$) Daily Max | Background Instream ($C_s$) Monthly Ave | **Enter** Max Daily Discharge as reported by Applicant ($C_d$) Max | **Enter** Avg Daily Discharge as reported by Applicant ($C_d$) Ave | Partition Coefficient (Stream / Lake) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | |
| 1 | Antimony | | Metals | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 2 | **Arsenic*,**** | YES | Metals | 0 | 0 | 0 | 0 | 0 | 0 | 0.574 |
| 3 | Beryllium | | Metals | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 4 | Cadmium** | | Metals | 0 | 0 | 0 | 0 | 0 | 0 | 0.236 |
| 5 | Chromium / Chromium III** | | Metals | 0 | 0 | 0 | 0 | 0 | 0 | 0.210 |
| 6 | Chromium / Chromium VI** | | Metals | 0 | 0 | 0 | 0 | 0 | 0 | |
| 7 | Copper** | | Metals | 0 | 0 | 0 | 0 | 0 | 0 | 0.388 |
| 8 | Lead** | | Metals | 0 | 0 | 0 | 0 | 79 | 7 | 0.206 |
| 9 | Mercury** | | Metals | 0 | 0 | 0 | 0 | 0 | 0 | 0.302 |
| 10 | Nickel** | | Metals | 0 | 0 | 0 | 0 | 0 | 0 | 0.505 |
| 11 | Selenium | | Metals | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 12 | Silver | | Metals | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 13 | Thallium | | Metals | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 14 | Zinc** | | Metals | 0 | 0 | 0 | 0 | 0 | 0 | 0.330 |
| 15 | Cyanide | | Metals | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 16 | Total Phenolic Compounds | | Metals | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 17 | Hardness (As CaCO3) | | Metals | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 18 | Acrolein | | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 19 | **Acrylonitrile*** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 20 | **Aldrin** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 21 | **Benzene*** | YES | VOC | 0 | 0 | 0 | 0 | 40.6 | 5.84 | - |
| 22 | **Bromoform*** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 23 | **Carbon Tetrachloride*** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 24 | **Chlordane** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 25 | Clorobenzene | | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 26 | **Chlorodibromo-Methane*** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 27 | Chloroethane | | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 28 | 2-Chloro-Ethylvinyl Ether | | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 29 | **ChloroForm*** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 30 | **4,4'-DDD** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 31 | **4,4'-DDE** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 32 | **4.4'-DDT** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 33 | **Dichlorobromo-Methane*** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 34 | 1, 1-Dichloroethane | | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 35 | **1, 2-Dichloroethane*** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 36 | Trans-1, 2-Dichloro-Ethylene | | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 37 | **1, 1-Dichloroethylene*** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 38 | 1, 2-Dichloropropane | | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 39 | 1, 3-Dichloro-Propylene | | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 40 | **Dieldrin** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 41 | Ethylbenzene | | VOC | 0 | 0 | 0 | 0 | 5 | 2.33 | - |
| 42 | Methyl Bromide | | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 43 | Methyl Chloride | | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 44 | **Methylene Chloride*** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 45 | **1, 1, 2, 2-Tetrachloro-Ethane*** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 46 | **Tetrachloro-Ethylene*** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 47 | Toluene | | VOC | 0 | 0 | 0 | 0 | 5 | 2.17 | - |
| 48 | **Toxaphene** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 49 | **Tributyltine (TBT)** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 50 | 1, 1, 1-Trichloroethane | | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 51 | **1, 1, 2-Trichloroethane*** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 52 | **Trichloroethylene*** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 53 | **Vinyl Chloride*** | YES | VOC | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 54 | P-Chloro-M-Cresol | | Acids | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 55 | 2-Chlorophenol | | Acids | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 56 | 2, 4-Dichlorophenol | | Acids | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 57 | 2, 4-Dimethylphenol | | Acids | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 58 | 4, 6-Dinitro-O-Cresol | | Acids | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 59 | 2, 4-Dinitrophenol | | Acids | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 60 | **4,6-Dintro-2-methylophenol** | YES | Acids | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 61 | **Dioxin (2,3,7,8-TCDD)** | YES | Acids | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 62 | 2-Nitrophenol | | Acids | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 63 | 4-Nitrophenol | | Acids | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 64 | **Pentachlorophenol*** | YES | Acids | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 65 | Phenol | | Acids | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 66 | **2, 4, 6-Trichlorophenol*** | YES | Acids | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 67 | Acenaphthene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 68 | Acenaphthylene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 69 | Anthracene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 70 | Benzidine | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 71 | **Benzo(A)Anthracene*** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 72 | **Benzo(A)Pyrene*** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 73 | 3, 4 Benzo-Fluoranthene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 74 | Benzo(GHI)Perylene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 75 | Benzo(K)Fluoranthene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 76 | Bis (2-Chloroethoxy) Methane | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 77 | **Bis (2-Chloroethyl)-Ether*** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 78 | Bis (2-Chloroiso-Propyl) Ether | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 79 | **Bis (2-Ethylhexyl) Phthalate*** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 80 | 4-Bromophenyl Phenyl Ether | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 81 | Butyl Benzyl Phthalate | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 82 | 2-Chloronaphthalene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 83 | 4-Chlorophenyl Phenyl Ether | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 84 | **Chrysene*** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 85 | Di-N-Butyl Phthalate | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 86 | Di-N-Octyl Phthalate | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 87 | **Dibenzo(A,H)Anthracene*** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 88 | 1, 2-Dichlorobenzene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 89 | 1, 3-Dichlorobenzene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 90 | 1, 4-Dichlorobenzene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 91 | **3, 3-Dichlorobenzidine*** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 92 | Diethyl Phthalate | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 93 | Dimethyl Phthalate | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 94 | **2, 4-Dinitrotoluene*** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 95 | 2, 6-Dinitrotoluene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 96 | 1,2-Diphenylhydrazine | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 97 | **Endosulfan (alpha)** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 98 | **Endosulfan (beta)** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 99 | **Endosulfan sulfate** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 100 | **Endrin** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 101 | **Endrin Aldeyhide** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 102 | Fluoranthene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 103 | Fluorene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 104 | Heptochlor | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 105 | Heptachlor Epoxide | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 106 | **Hexachlorobenzene*** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 107 | **Hexachlorobutadiene*** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 108 | **Hexachlorocyclohexan (alpa)** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 109 | **Hexachlorocyclohexan (beta)** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 110 | **Hexachlorocyclohexan (gamma)** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 111 | HexachlorocycloPentadiene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 112 | Hexachloroethane | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 113 | **Indeno(1, 2, 3-CK)Pyrene*** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 114 | Isophorone | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 115 | Naphthalene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 116 | Nitrobenzene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 117 | **N-Nitrosodi-N-Propylamine*** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 118 | **N-Nitrosodi-N-Methylamine*** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 119 | **N-Nitrosodi-N-Phenylamine*** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 120 | **PCB-1016** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 121 | **PCB-1221** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 122 | **PCB-1232** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 123 | **PCB-1242** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 124 | **PCB-1248** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 125 | **PCB-1254** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 126 | **PCB-1260** | YES | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 127 | Phenanthrene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 128 | Pyrene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |
| 129 | 1, 2, 4-Trichlorobenzene | | Bases | 0 | 0 | 0 | 0 | 0 | 0 | - |

| | |
|---|---|
| 0.033 | **Enter** $Q_d$ = wastewater discharge flow from facility (MGD) |
| 0.05105856 | $Q_d$ = wastewater discharge flow (cfs) (this value is caluclated from the MGD) |
| 0 | **Enter flow from upstream discharge** Qd2 = background stream flow in MGD above point of discharge |
| 0 | Qd2 = background stream flow from upstream source (cfs) |
| 5.63 | **Enter 7Q10**, $Q_s$ = background stream flow in cfs above point of discharge |
| 4.26 | **Enter or estimated, 1Q10**, $Q_s$ = background stream flow in cfs above point of discharge (1Q10 estimated at 75% of 7Q10) |
| 119.65 | **Enter Mean Annual Flow**, $Q_s$ = background stream flow in cfs above point of discharge |
| 11.79 | **Enter 7Q2**, $Q_s$ = background stream flow in cfs above point of discharge (For LWF class streams) |
| **Enter to Left** | **Enter** $C_s$ = background in-stream pollutant concantration in µg/l (assuming this is zero "0" unless there is data) |
| $Q_d + Qd2 + Q_s$ | $Q_r$ = resultant in-stream flow, after discharge |
| Calculated on other | $C_r$ = resultant in-stream pollutant concentration in µg/l in the stream (after complete mixing occurs) |
| 50.00 | **Enter**, Background Hardness above point of discharge (assumed 50 South of Birmingham and 100 North of Birmingham) |
| 7.00 s.u. | **Enter**, Background pH above point of discharge |
| YES | **Enter**, Is discharge to a stream? "YES" Other option would be to a Lake. (This changes the partition coefficients for the metals) |

** Using Partition Coefficients

June 30, 2025

Facility Name: **Products (SE) Pipe Line Corporation (PPL)**

NPDES No.: **AL0061603**

| Freshwater F&W classification. | | | | | | Freshwater Acute (µg/l) $Q_s$ =1Q10 | | | | | | Freshwater Chronic (µg/l) $Q_s$ = 7Q10 | | | | | Human Health Consumption Fish only (µg/l) Carcinogen $Q_s$ = Annual Average Non-Carcinogen $Q_s$ = 7Q10 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ID | Pollutant | RP? | Carcinogen yes | Background from upstream source (Cd2) Daily Max | Max Daily Discharge as reported by Applicant ($C_{daily}$) | Water Quality Criteria ($C_T$) | Draft Permit Limit ($C_{daily}$) | 20% of Draft Permit Limit | RP? | Background from upstream source (Cd2) Monthly Ave | Avg Daily Discharge as reported by Applicant ($C_{daily}$) | Water Quality Criteria ($C_T$) | Draft Permit Limit ($C_{daily}$) | 20% of Draft Permit Limit | RP? | Water Quality Criteria ($C_T$) | Draft Permit Limit ($C_{daily}$) | 20% of Draft Permit Limit | RP? |
| 1 | Antimony | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 3.73E+02 | 4.15E+04 | 8.31E+03 | No |
| 2 | Arsenic | | YES | 0 | 0 | 592.334 | 50012.943 | 10002.589 | No | 0 | 0 | 261.324 | 29076.364 | 5815.273 | No | 0.3030 | 710.4205 | 142.0841 | No |
| 3 | Beryllium | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 4 | Cadmium | | | 0 | 0 | 4.347 | 367.044 | 73.409 | No | 0 | 0 | 0.844 | 71.612 | 14.322 | No | - | - | - | - |
| 5 | Chromium/ Chromium III | | | 0 | 0 | 1537.913 | 129851.547 | 25970.309 | No | 0 | 0 | 200.051 | 22258.771 | 4451.754 | No | - | - | - | - |
| 6 | Chromium/ Chromium VI | | | 0 | 0 | 16.000 | 1350.938 | 270.188 | No | 0 | 0 | 11.000 | 1223.921 | 244.784 | No | - | - | - | - |
| 7 | Copper | | | 0 | 0 | 18.028 | 1522.032 | 304.406 | No | 0 | 0 | 12.768 | 1420.368 | 284.074 | No | - | - | - | - |
| 8 | Lead | | | 0 | 79 | 146.291 | 12351.865 | 2470.373 | No | 0 | 7 | 5.701 | 634.296 | 126.859 | No | - | - | - | - |
| 9 | Mercury | | | 0 | 0 | 2.400 | 202.641 | 40.528 | No | 0 | 0 | 0.012 | 1.335 | 0.267 | No | 4.24E-02 | 4.72E+00 | 9.44E-01 | No |
| 10 | Nickel | | | 0 | 0 | 515.824 | 43552.915 | 8710.583 | No | 0 | 0 | 57.292 | 6374.644 | 1274.929 | No | 9.93E+02 | 1.10E+05 | 2.21E+04 | No |
| 11 | Selenium | | | 0 | 0 | 20.000 | 1688.672 | 337.734 | No | 0 | 0 | 5.000 | 556.328 | 111.266 | No | 2430.56 | 270437.11 | 54087.42 | No |
| 12 | Silver | | | 0 | 0 | 0.975 | 82.445 | 16.489 | No | 0 | 0 | - | - | - | - | - | - | - | - |
| 13 | Thallium | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 2.74E-01 | 3.04E+01 | 6.09E+00 | No |
| 14 | Zinc | | | 0 | 0 | 197.369 | 16664.562 | 3332.912 | No | 0 | 0 | 198.983 | 22139.984 | 4427.997 | No | 1.49E+04 | 1.66E+06 | 3.31E+05 | No |
| 15 | Cyanide | | | 0 | 0 | 22.000 | 1857.540 | 371.508 | No | 0 | 0 | 5.200 | 578.581 | 115.716 | No | 9.33E+03 | 1.04E+06 | 2.08E+05 | No |
| 16 | Total Phenolic Compounds | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 17 | Hardness (As CaCO3) | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 18 | Acrolein | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 5.43E+00 | 6.04E+02 | 1.21E+02 | No |
| 19 | Acrylonitrile | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.44E-01 | 3.38E+02 | 6.75E+01 | No |
| 20 | Aldrin | | YES | 0 | 0 | 3.000 | 253.301 | 50.660 | No | 0 | 0 | - | - | - | - | 2.94E-05 | 6.89E-02 | 1.38E-02 | No |
| 21 | Benzene | | YES | 0 | 40.6 | - | - | - | - | 0 | 5.84 | - | - | - | - | 1.55E+01 | 3.63E+04 | 7.25E+03 | No |
| 22 | Bromoform | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 7.88E+01 | 1.85E+05 | 3.69E+04 | No |
| 23 | Carbon Tetrachloride | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 9.57E-01 | 2.24E+03 | 4.49E+02 | No |
| 24 | Chlordane | | YES | 0 | 0 | 2.400 | 202.641 | 40.528 | No | 0 | 0 | 0.0043 | 0.478 | 0.096 | No | 4.73E-04 | 1.11E+00 | 2.22E-01 | No |
| 25 | Clorobenzene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 9.00E+02 | 1.01E+05 | 2.02E+04 | No |
| 26 | Chlorodibromo-Methane | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 7.41E+00 | 1.74E+04 | 3.47E+03 | No |
| 27 | Chloroethane | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 28 | 2-Chloro-Ethylvinyl Ether | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 29 | ChloroForm | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.02E+02 | 2.39E+05 | 4.78E+04 | No |
| 30 | 4,4' - DDD | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.81E-04 | 4.25E-01 | 8.50E-02 | No |
| 31 | 4,4' - DDE | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.28E-04 | 3.00E-01 | 6.00E-02 | No |
| 32 | 4,4' - DDT | | YES | 0 | 0 | 1.100 | 92.877 | 18.575 | No | 0 | 0 | 0.001 | 0.111 | 0.022 | No | 1.28E-04 | 3.00E-01 | 6.00E-02 | No |
| 33 | Dichlorobromo-Methane | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.00E+01 | 2.35E+04 | 4.71E+03 | No |
| 34 | 1, 1-Dichloroethane | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 35 | 1, 2-Dichloroethane | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 2.14E+01 | 5.01E+04 | 1.00E+04 | No |
| 36 | Trans-1, 2-Dichloro-Ethylene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 5.91E+03 | 6.57E+05 | 1.31E+05 | No |
| 37 | 1, 1-Dichloroethylene | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 4.17E+03 | 9.77E+06 | 1.95E+06 | No |
| 38 | 1, 2-Dichloropropane | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 8.49E+00 | 9.45E+02 | 1.89E+02 | No |
| 39 | 1, 3-Dichloro-Propylene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.23E+01 | 1.37E+03 | 2.73E+02 | No |
| 40 | Dieldrin | | YES | 0 | 0 | 0.240 | 20.264 | 4.053 | No | 0 | 0 | 0.056 | 6.231 | 1.246 | No | 3.12E-05 | 7.32E-02 | 1.46E-02 | No |
| 41 | Ethylbenzene | | | 0 | 5 | - | - | - | - | 0 | 2.33 | - | - | - | - | 1.24E+03 | 1.38E+05 | 2.77E+04 | No |
| 42 | Methyl Bromide | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 8.71E+02 | 9.69E+04 | 1.94E+04 | No |
| 43 | Methyl Chloride | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 44 | Methylene Chloride | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 3.46E+02 | 8.10E+05 | 1.62E+05 | No |
| 45 | 1, 1, 2, 2-Tetrachloro-Ethane | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 2.33E+00 | 5.47E+03 | 1.09E+03 | No |
| 46 | Tetrachloro-Ethylene | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.92E+00 | 4.49E+03 | 8.99E+02 | No |
| 47 | Toluene | | | 0 | 5 | - | - | - | - | 0 | 2.17 | - | - | - | - | 8.72E+03 | 9.71E+05 | 1.94E+05 | No |
| 48 | Toxaphene | | YES | 0 | 0 | 0.730 | 61.637 | 12.327 | No | 0 | 0 | 0.0002 | 0.022 | 0.004 | No | 1.62E-04 | 3.80E-01 | 7.59E-02 | No |
| 49 | Tributyltin (TBT) | | YES | 0 | 0 | 0.460 | 38.839 | 7.768 | No | 0 | 0 | 0.072 | 8.011 | 1.602 | No | - | - | - | - |
| 50 | 1, 1, 1-Trichloroethane | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 51 | 1, 1, 2-Trichloroethane | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 9.10E+00 | 2.13E+04 | 4.27E+03 | No |
| 52 | Trichlorethylene | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.75E+01 | 4.10E+04 | 8.19E+03 | No |
| 53 | Vinyl Chloride | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.42E+00 | 3.34E+03 | 6.68E+02 | No |
| 54 | P-Chloro-M-Cresol | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 55 | 2-Chlorophenol | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 8.71E+01 | 9.69E+03 | 1.94E+03 | No |
| 56 | 2, 4-Dichlorophenol | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.72E+02 | 1.91E+04 | 3.83E+03 | No |
| 57 | 2, 4-Dimethylphenol | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 4.98E+02 | 5.54E+04 | 1.11E+04 | No |
| 58 | 4, 6-Dinitro-O-Cresol | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 59 | 2, 4-Dinitrophenol | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 3.11E+03 | 3.46E+05 | 6.92E+04 | No |
| 60 | 4,6-Dinitro-2-methylphenol | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.65E+02 | 3.88E+05 | 7.76E+04 | No |
| 61 | Dioxin (2,3,7,8-TCDD) | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 2.67E-08 | 6.25E-05 | 1.25E-05 | No |
| 62 | 2-Nitrophenol | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 63 | 4-Nitrophenol | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 64 | Pentachlorophenol | | YES | 0 | 0 | 8.723 | 736.542 | 147.308 | No | 0 | 0 | 6.993 | 744.654 | 148.931 | No | 1.77E+00 | 4.14E+03 | 8.29E+02 | No |
| 65 | Phenol | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 5.00E+05 | 5.56E+07 | 1.11E+07 | No |
| 66 | 2, 4, 6-Trichlorophenol | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.41E+00 | 3.32E+03 | 6.63E+02 | No |
| 67 | Acenaphthene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 5.79E+02 | 6.44E+04 | 1.29E+04 | No |
| 68 | Acenaphthylene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 69 | Anthracene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 2.33E+04 | 2.60E+06 | 5.19E+05 | No |
| 70 | Benzidine | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.16E-04 | 1.29E-02 | 2.58E-03 | No |
| 71 | Benzo(A)Anthracene | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.07E-02 | 2.50E+01 | 5.00E+00 | No |
| 72 | Benzo(A)Pyrene | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.07E-02 | 2.50E+01 | 5.00E+00 | No |
| 73 | Benzo(b)fluoranthene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.07E-02 | 1.19E+00 | 2.37E-01 | No |
| 74 | Benzo(GHI)Perylene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 75 | Benzo(K)Fluoranthene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.07E-02 | 1.19E+00 | 2.37E-01 | No |
| 76 | Bis (2-Chloroethoxy) Methane | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 77 | Bis (2-Chloroethyl)-Ether | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 3.07E-01 | 7.21E+02 | 1.44E+02 | No |
| 78 | Bis (2-Chloroiso-Propyl) Ether | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 3.76E+04 | 4.20E+06 | 8.41E+05 | No |
| 79 | Bis (2-Ethylhexyl) Phthalate | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.28E+00 | 3.01E+03 | 6.01E+02 | No |
| 80 | 4-Bromophenyl Phenyl Ether | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 81 | Butyl Benzyl Phthalate | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.13E+03 | 1.25E+05 | 2.51E+04 | No |
| 82 | 2-Chloronaphthalene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 9.24E+02 | 1.03E+05 | 2.06E+04 | No |
| 83 | 4-Chlorophenyl Phenyl Ether | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 84 | Chrysene | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.07E-02 | 2.50E+01 | 5.00E+00 | No |
| 85 | Di-N-Butyl Phthalate | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 2.62E+03 | 2.92E+05 | 5.83E+04 | No |
| 86 | Di-N-Octyl Phthalate | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 87 | Dibenzo(A,H)Anthracene | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.07E-02 | 2.50E+01 | 5.00E+00 | No |
| 88 | 1, 2-Dichlorobenzene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 7.55E+02 | 8.40E+04 | 1.68E+04 | No |
| 89 | 1, 3-Dichlorobenzene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 5.62E+02 | 8.26E+04 | 1.25E+04 | No |
| 90 | 1, 4-Dichlorobenzene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.12E+02 | 1.25E+04 | 2.50E+03 | No |
| 91 | 3, 3-Dichlorobenzidine | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.66E-02 | 3.90E+01 | 7.79E+00 | No |
| 92 | Diethyl Phthalate | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 2.56E+04 | 2.85E+06 | 5.69E+05 | No |
| 93 | Dimethyl Phthalate | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 6.46E+05 | 7.21E+07 | 1.44E+07 | No |
| 94 | 2, 4-Dinitrotoluene | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.96E+00 | 4.64E+03 | 9.29E+02 | No |
| 95 | 2, 6-Dinitrotoluene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 96 | 1,2-Diphenylhydrazine | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.17E-01 | 1.30E+01 | 2.61E+00 | No |
| 97 | Endosulfan (alpha) | | YES | 0 | 0 | 0.22 | 18.575 | 3.715 | No | 0 | 0 | 0.056 | 6.231 | 1.246 | No | 5.19E+01 | 1.22E+05 | 2.43E+04 | No |
| 98 | Endosulfan (beta) | | YES | 0 | 0 | 0.22 | 18.575 | 3.715 | No | 0 | 0 | 0.056 | 6.231 | 1.246 | No | 5.19E+01 | 1.22E+05 | 2.43E+04 | No |
| 99 | Endosulfan sulfate | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 5.19E+01 | 1.22E+05 | 2.43E+04 | No |
| 100 | Endrin | | YES | 0 | 0 | 0.086 | 7.261 | 1.452 | No | 0 | 0 | 0.036 | 4.006 | 0.801 | No | 3.53E-02 | 8.27E+01 | 1.65E+01 | No |
| 101 | Endrin Aldeyhde | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.76E-01 | 4.13E+02 | 8.27E+01 | No |
| 102 | Fluoranthene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 8.12E+01 | 9.03E+03 | 1.81E+03 | No |
| 103 | Fluorene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 3.11E+03 | 3.46E+05 | 6.92E+04 | No |
| 104 | Heptochlor | | YES | 0 | 0 | 0.52 | 43.905 | 8.781 | No | 0 | 0 | 0.0036 | 0.423 | 0.085 | No | 4.63E-05 | 1.09E-01 | 2.17E-02 | No |
| 105 | Heptachlor Epoxide | | YES | 0 | 0 | 0.52 | 43.905 | 8.781 | No | 0 | 0 | 0.0038 | 0.423 | 0.085 | No | 2.29E-05 | 5.37E-02 | 1.07E-02 | No |
| 106 | Hexachlorobenzene | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.68E-04 | 3.93E-01 | 7.87E-02 | No |
| 107 | Hexachlorobutadiene | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.06E+01 | 2.52E+04 | 5.05E+03 | No |
| 108 | Hexachlorocyclohexan (alpha) | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 2.95E-03 | 6.68E+00 | 1.34E+00 | No |
| 109 | Hexachlorocyclohexan (beta) | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 9.97E-03 | 2.34E+01 | 4.68E+00 | No |
| 110 | Hexachlorocyclohexan (gamma) | | YES | 0 | 0 | 0.95 | 80.212 | 16.042 | No | 0 | 0 | - | - | - | - | 1.06E+00 | 2.52E+03 | 5.05E+02 | No |
| 111 | HexachlorocycloPentadiene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 6.45E+02 | 7.18E+04 | 1.44E+04 | No |
| 112 | Hexachloroethane | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.92E+00 | 2.13E+02 | 4.27E+01 | No |
| 113 | Indeno(1, 2, 3-CK)Pyrene | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.07E-02 | 2.50E+01 | 5.00E+00 | No |
| 114 | Isophorone | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 5.61E+02 | 6.24E+04 | 1.25E+04 | No |
| 115 | Naphthalene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 116 | Nitrobenzene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 4.04E+02 | 4.49E+04 | 8.98E+03 | No |
| 117 | N-Nitrosodi-N-Propylamine | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 2.95E-01 | 6.92E+02 | 1.38E+02 | No |
| 118 | N-Nitrosodimethylamine | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 1.76E+00 | 4.13E+03 | 8.25E+02 | No |
| 119 | N-Nitrosodiphenylamine | | YES | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 3.50E+00 | 8.21E+03 | 1.64E+03 | No |
| 120 | PCB-1016 | | YES | 0 | 0 | - | - | - | - | 0 | 0 | 0.014 | 1.558 | 0.312 | No | 3.74E-05 | 8.77E-02 | 1.75E-02 | No |
| 121 | PCB-1221 | | YES | 0 | 0 | - | - | - | - | 0 | 0 | 0.014 | 1.558 | 0.312 | No | 3.74E-05 | 8.77E-02 | 1.75E-02 | No |
| 122 | PCB-1232 | | YES | 0 | 0 | - | - | - | - | 0 | 0 | 0.014 | 1.558 | 0.312 | No | 3.74E-05 | 8.77E-02 | 1.75E-02 | No |
| 123 | PCB-1242 | | YES | 0 | 0 | - | - | - | - | 0 | 0 | 0.014 | 1.558 | 0.312 | No | 3.74E-05 | 8.77E-02 | 1.75E-02 | No |
| 124 | PCB-1248 | | YES | 0 | 0 | - | - | - | - | 0 | 0 | 0.014 | 1.558 | 0.312 | No | 3.74E-05 | 8.77E-02 | 1.75E-02 | No |
| 125 | PCB-1254 | | YES | 0 | 0 | - | - | - | - | 0 | 0 | 0.014 | 1.558 | 0.312 | No | 3.74E-05 | 8.77E-02 | 1.75E-02 | No |
| 126 | PCB-1260 | | YES | 0 | 0 | - | - | - | - | 0 | 0 | 0.014 | 1.558 | 0.312 | No | 3.74E-05 | 8.77E-02 | 1.75E-02 | No |
| 127 | Phenanthrene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | - | - | - | - |
| 128 | Pyrene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 2.33E+03 | 2.60E+05 | 5.19E+04 | No |
| 129 | 1, 2, 4-Trichlorobenzene | | | 0 | 0 | - | - | - | - | 0 | 0 | - | - | - | - | 4.09E+01 | 4.55E+03 | 9.11E+02 | No |

November 25, 2024

Mr. Wayne Holt
Alabama Department of Environmental Management
Water Division – Industrial / Municipal Branch
Industrial Section
P.O. Box 301462
Montgomery, AL 36130-1463

Re: NPDES Permit Renewal Application
Permit No. AL0061603
Products (SE) Pipe Line Corporation
Helena Fuel Breakout Facility, Helena, Alabama

Dear Mr. Holt,

Products (SE) Pipe Line Corporation (PPL, formerly Plantation Pipe Line Company) is applying for renewal of its individual permit coverage (AL0061603) under the National Pollutant Discharge Elimination System (NPDES) for the discharge of treated groundwater from its facility at 900 Shelby County Road 52 East, Helena, Shelby County, Alabama. The current NPDES permit for the facility became effective on June 1, 2020, was modified effective July 1, 2021, and will expire on May 31, 2025. The treated groundwater from the facility's treatment system is discharged to Buck Creek.

As part of this permit renewal application, PPL's consultant (Jacobs Engineering Group, Inc.) has reviewed and summarized Discharge Monitoring Report (DMRs) submitted to ADEM during the period extending from January 2019 through August 2024. Performance of the facility's groundwater treatment system during this period suggests that a reduction in effluent monitoring frequency is warranted. Table 1 provides a summary of data reported by PPL for samples collected monthly.

From January 2019 through August 2024 flow through the treatment facility averaged 0.03 million gallons per day (MGD) and pH ranged between 6.23 standard units (s.u.) and 8.5 s.u. In addition, there have been no incidences of noncompliance within the last 10 years and ADEM's facility inspections have noted no deficiencies during the last 5 years.

Based on a review of PPL's reported monitoring data and compliance history, PPL requests that the monitoring frequency for pH, Total Recoverable Lead, Oil and Grease, Methyl Tert-Butyl Ether, BTEX, and Flow be reduced from Monthly to Quarterly.

If you have questions or need additional information regarding the DMR summary or if you should have any questions regarding the renewal application, please feel free to call me at 205-325-3785.

Sincerely,

Frank Porter
Environmental Specialist

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

version 2.10

**(Submission #: HQ8-8X29-N2MV7, version 1)**

## Details

**Submission ID** HQ8-8X29-N2MV7

## 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) 271-7799

### 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:**
Based on a review of PPL's reported monitoring data and compliance history, PPL requests that the monitoring frequency for pH, Total Recoverable Lead, Oil and Grease, Methyl Tert-Butyl Ether, BTEX, and Flow be reduced from Monthly to Quarterly. See attached cover letter.

## 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):**
NPDES - AL0061603, General NPDES - ALG340370

**Is this facility/site only applying for permit coverage for discharges from stormwater?**
No

**Is a new stormwater outfall being added?**
No

## Permit Information

**Permit Number**
AL0061603

**Current Permittee Name**
Products (SE) Pipe Line Corporation (PPL)

**Permittee**

**Permittee Name**
Products (SE) Pipe Line Corporation (PPL)

**Mailing Address**

P O Box 489

Helena, AL 35080

Per ADEM Admin. Code r. 335-6-6-.09 (1), a Responsible Official is defined as CEO, President, any position at a level of Vice President or higher, Owner, Partner, Managing Member (LLC), or ranking elected official. Please provide the contact information for the person meeting this definition.

Do NOT enter information for a person that is/will be a Duly Authorized Representative (DAR) (i.e. a person that has been delegated signatory permissions by a Responsible Official). A person that is a Duly Authorized Representative is NOT considered a RESPONSIBLE OFFICIAL.

**Responsible Official**

**Prefix**
Mr.

**First Name** **Last Name**
James Ford

**Title**
Operations Manager

**Organization Name**
Products (SE) Pipe Line Corporation (PPL)

**Phone Type** **Number** **Extension**
Business 6016983921

**Email**
james_ford@kindermorgan.com

**Mailing Address**

PO Box 489

Helena, AL 35080

**Does the Responsible Official intend to delegate signatory authority for DMRs or other compliance reports to an individual as a duly authorized representative (DAR) for this site?**
No

**Existing Permit Contacts**

| Affiliation Type | Contact Information | Remove? |
|---|---|---|
| Responsible Official,Notification Recipient | Ken Brinegar, Jr., Products (SE) Pipe Line Corporation (PPL) - Helena Pump Station | Remove |
| Permittee | Products (SE) Pipe Line Corporation (PPL) | *NONE PROVIDED* |
| Environmental Contact,DMR Contact | Steve Polk, Products (SE) Pipe Line Corporation (PPL) - Helena Pump Station | Remove |

## Facility/Site Information

**Facility/Site Name**
Helena Pump Station

**Organization/Ownership Type**
Corporation

**Facility/Site Address or Location Description**

900 Shelby County Road 52 East

Helena, AL 35080

**Facility/Site County**
Shelby

**Detailed Directions to the Facility/Site**
From Interstate 65, head west on County Road 52 East. Continue by turning left on Hwy 52 W. Front gate is on the left.

**Facility Map**
01a_187_SectionA_Facility_Location_Map.pdf - 11/19/2024 04:51 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**
33.29052200000000,-86.83372200000001

900 Shelby County Road 52 East, Helena, AL

**SIC Code(s) [Please enter Primary SIC Code first followed by any additional applicable SIC Codes]**
4613-Refined Petroleum Pipelines

**NAICS Code(s) [Please enter Primary NAICS Code first followed by any additional applicable NAICS Codes]**
486910-Pipeline Transportation of Refined Petroleum Products

**Facility/Site Contact**

**Prefix**
Mr.

**First Name** **Last Name**
James Ford

**Title**
Operations Manager

**Organization Name**
Products (SE) Pipe Line Corporation (PPL)

**Phone Type** **Number** **Extension**
Business 6016983921

**Email**
james_ford@kindermorgan.com

**Address**
PO Box 489
Helena, AL 35080

## DMR Contact(s) (1 of 1)

**DMR Contact**

**Prefix**
Mr.

**First Name** **Last Name**
James Ford

**Title**
Operations Manager

**Phone Type** **Number** **Extension**
Business 6016983921

**Email**
james_ford@kindermorgan.com

**Address**
PO Box 489
Helena, AL 35080

## Applicant Business Entity Information

**Address of Incorporation**
1675 South State Street, Suite B, Dover, DE, 19901 & 10 S Jefferson Street, Suite 1400, Roanoke, VA, 24011.

**Agent Designated by the Corporation for Purposes of Service**

| Name | Address |
|---|---|
| N/A | N/A |

**Please provide all corporate officers**

| Name | Title | Address |
|---|---|---|
| Tom Martin | President | 1001 Louisiana Street, Suite 1000, Houston, TX, 77002 |
| James Holland | COO | 1001 Louisiana Street, Suite 1000, Houston, TX, 77002 |

**Does the applicant applying for coverage have a Parent Corporation?**
Yes

**Parent Corporation of Applicant**

| Name | Address |
|---|---|
| Kinder Morgan, Inc. | 1001 Louisiana Street, Suite 1000, Houston, TX, 77002 |

**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:**
Other: Petroleum Pipeline/Storage

**Give a brief description of all operations at this facility including primary products or services:**
The Helena Tank Farm consists of pump station and breakout tanks for an interstate pipeline used to convey refined petroleum products, such as gasoline and fuel oils. Petroleum products shipped and stored include gasoline, diesel fuels and turbine fuel (Jet A). The facility operates a groundwater collection and treatment system for the remediation of petroleum impacted groundwater.

## Water Supply

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

**Please specify the City of the Municipal Water Utility:**
Helena

| Name of Utility | Million Gallons per Day (MGD) |
|---|---|
| City of Helena | 0.0016 |

## 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 1)

**001**

**Please click below if this discharge no longer exists or is no longer required:**
*NONE PROVIDED*

**Outfall Identifier**
001

**Receiving Water**
Buck Creek

**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:**
None apply

**Estimated Average Daily Flow (MGD)**
0.032

**Monitoring/Sampling Point Location**
33.29029200000000, -86.82436100000000

## Process Flow Schematic with Wastewater Treatment(s), If Applicable

For an example of a process flow diagram, please use the link below.
Figure 1: Example of Process Flow Schematic

**Process Flow Schematic**
01b_187 SectionC and 2C Section2_Wastewater_Flow.pdf - 11/19/2024 04:57 PM
**Comment**
*NONE PROVIDED*

## 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 | Yes |
| 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 | N/A |
| Automatic Sampling Equipment | No |

**Please describe the equipment below:**
An instantaneous flow meter with totalizer is located on the effluent from the lift station.

**Please attach the process schematic with sampling equipment locations.**
01b_187 SectionC and 2C Section2_Wastewater_Flow.pdf - 11/19/2024 04:59 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?**
Yes

**The applicant must provide a list of the following information for each biocide or chemical:**

(1) Name and general composition of biocide or chemical (if composition is not provided on MSDS sheet)
(2) 48-hour or 96-hour LC50 data for organisms representative of the biota of the waterway into which the discharge will ultimately reach. For freshwater, the fathead minnow (Pimephales promelas) and cladoceran (Ceriodaphnia dubia) are the test organisms. For salt water, the mysid shrimp and the sheepshead minnow or inland silverside are the test organisms. Other acceptable aquatic organisms may be allowed by the Department if sufficient information is provided. If the MSDS sheet does not provide data for the organisms specified above, the facility must provide the data unless the Department grants approval for an alternate organism.
(3) Quantities to be used
(4) Frequencies of use
(5) Maximum proposed discharge concentrations
(6) EPA registration of number, if applicable and is not provided on the MSDS sheet.

**List of Biocides**

| Please list biocides below: |
|---|
| AN-450FG - Sodium Polycarboxylate |
| Vitec 1600 - Acrylic Terpolymer and proprietary chelate agent |
| AWC A-120 - Acrylic Acid |

**Biocide/Corrosion Inhibitor Summary Sheet**
01c_187_SectionC6_v3.pdf - 11/19/2024 05:02 PM
**Comment**
*NONE PROVIDED*

**Safety Data Sheets (SDS)**
Biocide and Corrosion Inhibitor SDSs.pdf - 11/20/2024 08:32 AM
**Comment**
*NONE PROVIDED*

## Treatment

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

**Treatment devices or processes used or proposed for treating wastewater or sludge (check as many as appropriate).**
Other: Air Stripper

**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?**
Yes

| Waste Generated | Quantity (lbs/day) | Disposal Method | On-Site or Off-Site? | If Off-Site, Identify the Facility: |
|---|---|---|---|---|
| Cleaning Wastes/Scale | 137 | Off-site treatment/Discharge to POTW | Off-Site | Aqua Treat |

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

**Hauler Information**

| Name | Address | City | State | Zip |
|---|---|---|---|---|
| Marion Environmental | 115 Parmenas Lane | Chattanooga | TN | 37405 |

## 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**
Helena Form 1.pdf - 11/22/2024 08:09 AM
**Comment**
*NONE PROVIDED*

**Additional EPA Forms (EPA Form 2C, 2D, 2E and/or 2F)**
Helena Form 2C.pdf - 11/22/2024 08:10 AM
**Comment**
*NONE PROVIDED*

**Other attachments (as needed)**
02a_Form_1_Figure_1_One_Mile_Overview.pdf - 11/22/2024 08:51 AM
**Comment**
*NONE PROVIDED*

## Additional Attachments

**Please attach any additional information as needed.**
01d_187_SectionE_Location_of_Waste_Storage_Area.pdf - 11/22/2024 08:52 AM
Delegation of Authority - Helena NPDES (Ford) 2022.12.06.pdf - 11/22/2024 09:36 AM
Cover Letter - Helena NPDES Renewal Application 2024.11.25.pdf - 11/25/2024 09:39 AM
**Comment**
*NONE PROVIDED*

## Application Preparer

## Application Preparer

**Prefix**
*NONE PROVIDED*

| First Name | Last Name |
|---|---|
| Tyler | Phillips |

**Title**
*NONE PROVIDED*

**Organization Name**
Jacobs

| Phone Type | Number | Extension |
|---|---|---|
| Mobile | 3347145361 | |

**Email**
Tyler.Phillips@jacobs.com

**Address**
*[NO STREET ADDRESS SPECIFIED]*
*[NO CITY SPECIFIED]*, AL *[NO ZIP CODE SPECIFIED]*

# 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.

*"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."*

*"I further certify under penalty of law that 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 shall be signed by a responsible official, a request for variance from categorical pretreatment standards, and a category determination request shall be signed by 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 propnetor; 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** James Ford on 11/25/2024 at 9:45 AM

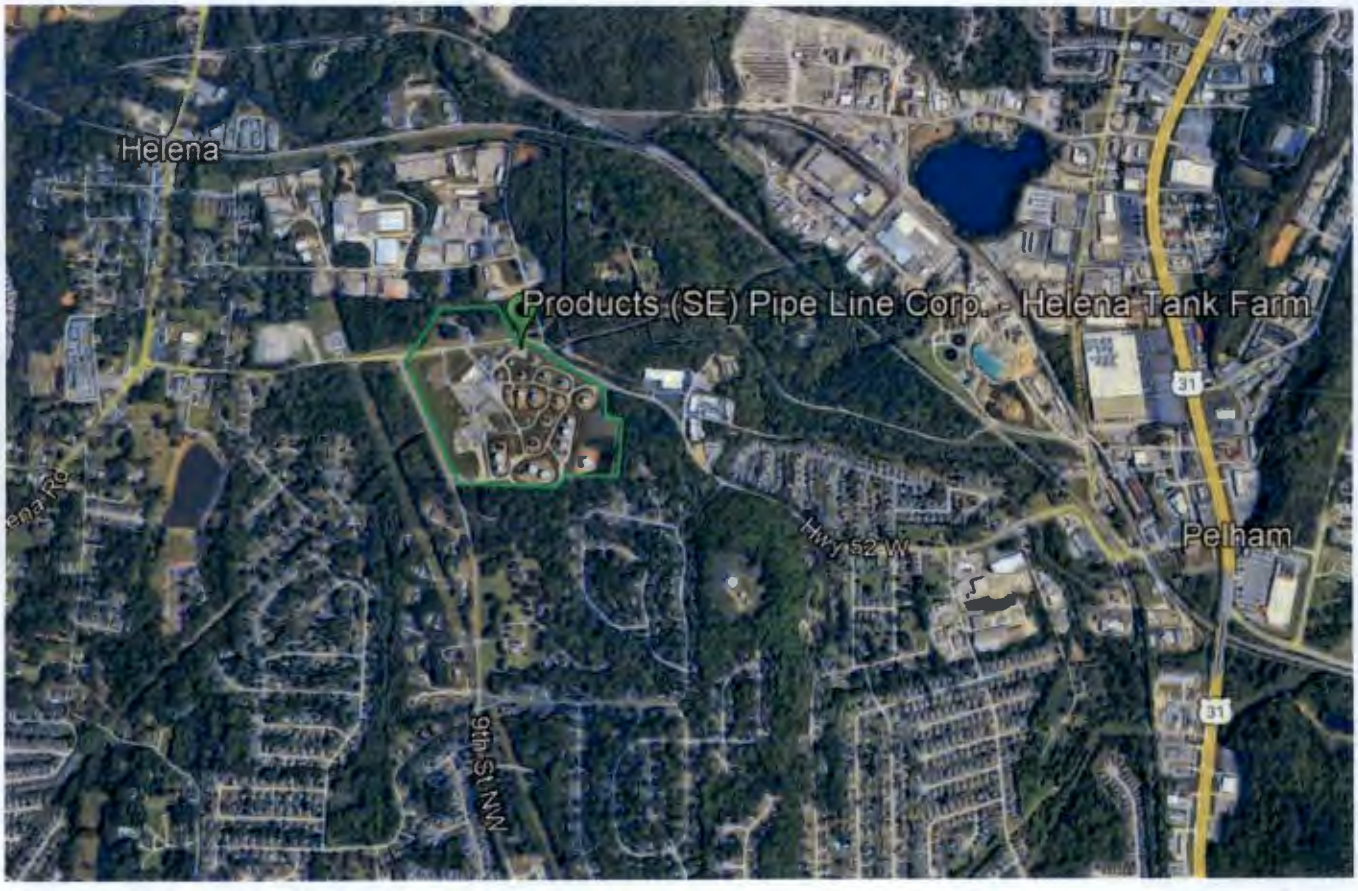
**Products (SE) Pipe Line Company Helena Tank Farm**

*NPDES Permit Renewal AL0061603*

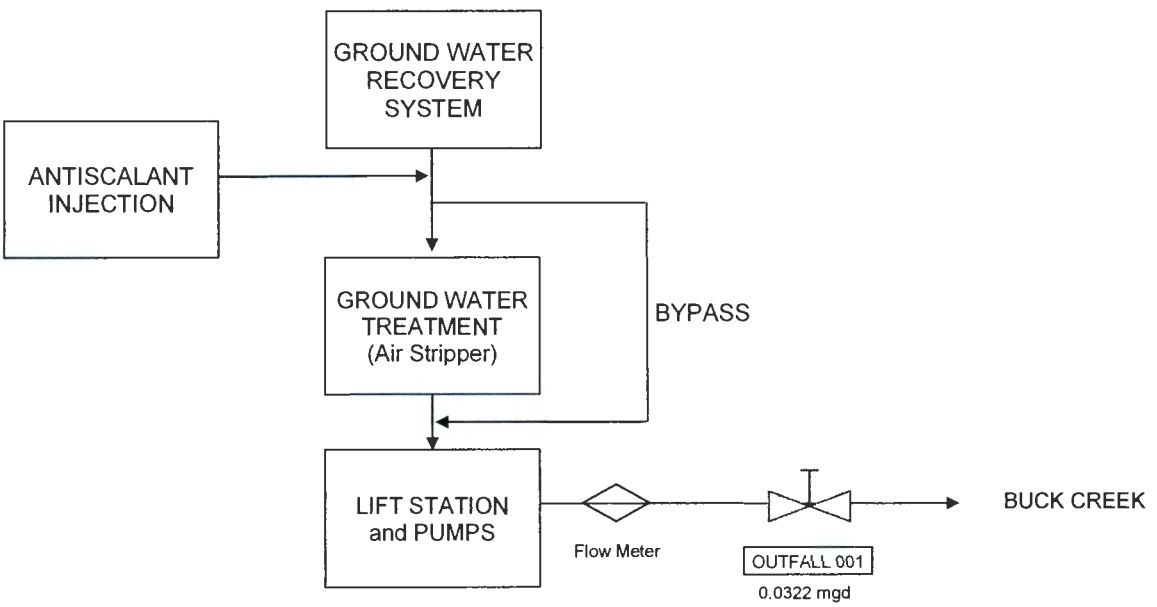
Supplement to Section A, Part 5

ADEM Form 187 Facility Map

**Helena Terminal Location:**
900 Shelby County Road 52E
Helena, AL 35080
Phone: 205.663.8840
Fax: 205.663.8873



**Products (SE) Pipe Line Company Helena Tank Farm**
*NPDES Permit Renewal AL0061603*
Supplement to ADEM Form 187 Section C, Part 2
and
EPA Form 2C Section 2, Line Drawing
Wastewater Flow Schematic




*Flow based on long term average monthly flow, previous 4.5 years.

**Products (SE) Pipe Line Company Helena Tank Farm**
*NPDES Permit Renewal AL0061603*
ADEM Form 187 Section C, Part 4

Biocide and Corrosion Inhibitor Used: AN-450FG - Sodium Polycarboxylate (scale inhibitor/dispersant)

(1) 96- hour median tolerance limit data for organisms representative of biota of the waterway into which the discharge will ultimately reach >1000 mg/L
(2) Quantities to be used up to 2,860 gal/yr
(3) Frequencies of use Continuous
(4) Proposed discharge concentrations up to 319.5 mg/L
(5) EPA registration number NA

Biocide and Corrosion Inhibitor Used: Vitec 1600 – Acrylic Terpolymer and proprietary chelate agent (antiscalant)

(1) 96- hour median tolerance limit data for organisms representative of biota of the waterway into which the discharge will ultimately reach 1535 mg/L
(2) Quantities to be used up to 23 gal/yr
(3) Frequencies of use Continuous
(4) Proposed discharge concentrations up to 2 mg/L
(5) EPA registration number NA

Biocide and Corrosion Inhibitor Used: AWC A-120 – Acrylic Acid (scale inhibitor)

(1) 96- hour median tolerance limit data for organisms representative of biota of the waterway into which the discharge will ultimately reach >1040 mg/L
(2) Quantities to be used up to range of 12 to 568 gal/yr, depending on whether needed to inhibit $CaCO_3$ scale only or $CaCO_3$ and iron scale
(3) Frequencies of use Continuous
(4) Proposed discharge concentrations up to range of 0.2 to 47 mg/L
(5) EPA registration number NA

Note: It is anticipated that only one of the above-listed scale inhibitor/antiscalants would be used at a single time.


1,500
750
0
1,500
Feet
Outfall
DSN001
10' x 20' Drum
Storage Area
N
VICINITY MAP
SHELBY
Alabama
Helena
Terminal
Legend
Helena Terminal Boundary
World Imagery
Low Resolution 15m Imagery
High Resolution 60cm Imagery
High Resolution 30cm Imagery
ADEM Form 187 Section E
Location of Waste Storage Area
2024
Products (SE) Pipe Line Company
Helena Tank Farm
NPDES Permit Renewal AL0061603

| EPA Identification Number | NPDES Permit Number | Facility Name | OMB No. 2040-0004 Expires 07/31/2026 |
|---|---|---|---|
| ALD084367317 | AL061603 | Products (SE) Pipe Line Corp. | |

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** or has your permitting authority directed you to submit Form 2A?<br>If yes, STOP. Do NOT complete Form 1. Complete Form 2A. If the facility is also a **treatment works treating domestic sewage**, you must also complete Form 2S. ☑ No | 1.1.2 | Is the facility a **sludge-only facility** (i.e., a facility that does not discharge wastewater to surface waters)?<br>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**?<br>☐ 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**?<br>☑ 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**?<br>☐ 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**?<br>☐ 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**?<br>☐ Yes → Complete Form 1 ***and*** Form 2F unless exempted by 40 CFR 122.26(b)(14)(x) or (b)(15). ☑ No | 1.2.6 | Is the facility a new or existing **treatment works treating domestic sewage** that discharges wastewater to surface waters?<br>☐ Yes → Complete Form 1, Form 2S, ***and*** any other applicable forms, as directed by your permitting authority. ☑ No |

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

**Name, Mailing Address, and Location**

**2.1 Facility Name**

Products (SE) Pipe Line Corporation (PPL) - Helena Pump Station

**2.2 EPA Identification Number**

ALD084367317

**2.3 Facility Contact**

| Name (first and last) | Title | Phone number |
|---|---|---|
| James M Ford | Operations Manager | (601) 698-3921 |

Email address

james_ford@kindermorgan.com

**Name, Mailing Address, and Location Continued**

**2.4 Facility Mailing Address**

| Street or P.O. box | | |
|---|---|---|
| PO Box 489 | | |
| **City or town** | **State** | **ZIP code** |
| Helena | AL | 35080 |

**2.5 Facility Location**

| Street, route number, or other specific identifier | | |
|---|---|---|
| 900 Shelby County Road 52 East | | |
| **County name** | **County code (if known)** | |
| Shelby | 58 | |
| **City or town** | **State** | **ZIP code** |
| Helena | AL | 35080 |

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

**SIC and NAICS Codes**

**3.1**

| SIC Code(s) | Description (optional) |
|---|---|
| 4613 | Refined Petroleum Pipelines |
| | |
| | |
| | |

**3.2**

| NAICS Code(s) | Description (optional) |
|---|---|
| 486910 | Pipiline Transportation of Refined Petroleum Products |
| | |
| | |
| | |

## SECTION 4. OPERATOR INFORMATION (40 CFR 122.21(F)(4))

**Operator Information**

**4.1 Name of Operator**

Products (SE) Pipe Line Corporation

**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**

(601) 698-3921

**Operator Information Continued**

4.5 **Operator Address**

Street or P.O. Box: 1000 Windward Concourse, Suite 450

| City or town | State | ZIP code |
|---|---|---|
| Alpharetta | GA | 30005 |

Email address of operator: james_ford@kindermorgan.com

## SECTION 5. INDIAN LAND (40 CFR 122.21(F)(5))

**Indian Land**

5.1 Is the facility located on Indian Land?

☐ Yes ☑ No

## 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) AL0061603 | ☑ RCRA (hazardous wastes) ALD084367317 | ☐ UIC (underground injection of fluids) |
| ☑ PSD (air emissions) MSOP 411-0029 | ☐ Nonattainment program (CAA) | ☐ NESHAPs (CAA) |
| ☐ Ocean dumping (MPRSA) | ☐ Dredge or fill (CWA Section 404) | ☑ Other (specify) ALG340370, general NPDES |

## 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 ☐ 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.

The Helena Tank Farm consists of pump station and breakout tanks for an interstate pipeline used to convey refined pertoleum products, such as gasoline and fuel oils. Petroleum products shipped and stored include gasoline, diesel fuels and turbine fuel (Jet A). The facility operates a groundwater collection and treatment system for the remediation of petroleum impacted groundwater.

## 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.)

| EPA Identification Number | NPDES Permit Number | Facility Name | OMB No. 2040-0004 Expires 07/31/2026 |
|---|---|---|---|
| ALD084367317 | AL061603 | Products (SE) Pipe Line Corp. | |

## 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

## SECTION 11. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(A) AND (D))

**Checklist and Certification Statement**

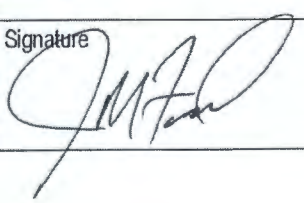
11.1 In Column 1 below, mark the sections of Form 1 that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments.

| 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 Provide the following certification. (See instructions to determine the appropriate person to sign the application.)

**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 |
|---|---|
| James M Ford | Operations Manager |
| Signature  | Date signed 11-21-2024 |

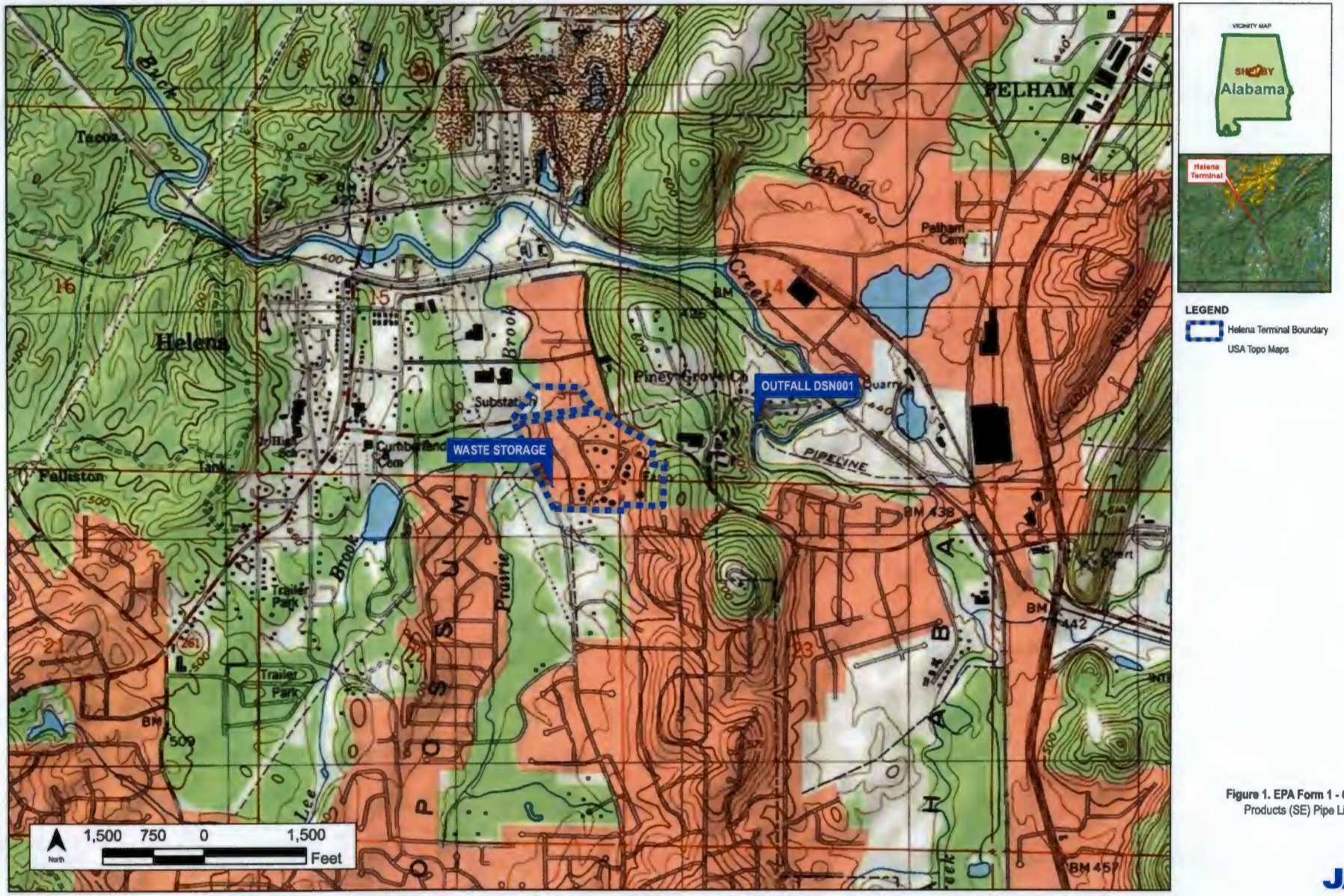



**Figure 1. EPA Form 1 - One Mile Overview 2024**
Products (SE) Pipe Line Co. - Helena Terminal
Helena, Alabama

JACOBS

| EPA Identification Number | NPDES Permit Number | Facility Name | OMB No. 2040-0004 |
|---|---|---|---|
| ALD084367317 | AL0061603 | Products (SE) Pipe Line Corp. | Expires 07/31/2026 |

**Form 2C NPDES** | **EPA**

**U.S. Environmental Protection Agency**
**Application for NPDES Permit to Discharge Wastewater**
**EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURE OPERATIONS**

## 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 |
|---|---|---|---|
| DSN001 | Buck Creek | 33 deg 17 min 25.05 sec | 86 deg 49 min 27.70 sec |
| | | | |
| | | | |

## SECTION 2. LINE DRAWING (40 CFR 122.21(G)(2))

**Line Drawing**

2.1 Have you attached a line drawing to this application that shows the water flow through your facility with a water balance? (See instructions for drawing requirements. See Exhibit 2C–1 at end of instructions for example.)

☑ Yes

## SECTION 3. AVERAGE FLOWS AND TREATMENT (40 CFR 122.21(G)(3))

**Average Flows and Treatment**

3.1 For each outfall identified under Item 1.1, provide average flow and treatment information. Add additional sheets if necessary.

****Outfall Number**** DSN001

**Operations Contributing to Flow**

| Operation | Average Flow |
|---|---|
| Groundwater Remediation System | 0.032 mgd |
| | mgd |
| | mgd |
| | mgd |

**Treatment Units**

| Description (include size, flow rate through each treatment unit, retention time, etc.) | Code from Exhibit 2C–2 | Final Disposal of Solid or Liquid Wastes Other Than by Discharge |
|---|---|---|
| Air Stripper | 1-F | NA |
| | | |
| | | |
| | | |

**Average Flows and Treatment Continued**

3.1 cont.

****Outfall Number**** _____

**Operations Contributing to Flow**

| Operation | Average Flow |
|---|---|
| NA | mgd |
| | mgd |
| | mgd |
| | mgd |

**Treatment Units**

| Description (include size, flow rate through each treatment unit, retention time, etc.) | Code from Exhibit 2C–2 | Final Disposal of Solid or Liquid Wastes Other Than by Discharge |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

****Outfall Number**** _____

**Operations Contributing to Flow**

| Operation | Average Flow |
|---|---|
| NA | mgd |
| | mgd |
| | mgd |
| | mgd |

**Treatment Units**

| Description (include size, flow rate through each treatment unit, retention time, etc.) | Code from Exhibit 2C–2 | Final Disposal of Solid or Liquid Wastes Other Than by Discharge |
|---|---|---|
| | | |
| | | |
| | | |
| | | |

**System Users**

3.2 Are you applying for an NPDES permit to operate a privately owned treatment works?

☐ Yes ☑ No → SKIP to Section 4.

3.3 Have you attached a list that identifies each user of the treatment works?

☐ Yes

## SECTION 4. INTERMITTENT FLOWS (40 CFR 122.21(G)(4))

**Intermittent Flows**

4.1 Except for storm runoff, leaks, or spills, are any discharges described in Sections 1 and 3 intermittent or seasonal?

☐ Yes ☑ No → SKIP to Section 5.

4.2 Provide information on intermittent or seasonal flows for each applicable outfall. Attach additional pages, if necessary.

| Outfall Number | Operation (list) | Frequency | | Flow Rate | | Duration |
|---|---|---|---|---|---|---|
| | | Average Days/Week | Average Months/Year | Long-Term Average | Maximum Daily | |
| | | days/week | months/year | mgd | mgd | days |
| | | days/week | months/year | mgd | mgd | days |
| | | days/week | months/year | mgd | mgd | days |
| | | days/week | months/year | mgd | mgd | days |
| | | days/week | months/year | mgd | mgd | days |
| | | days/week | months/year | mgd | mgd | days |
| | | days/week | months/year | mgd | mgd | days |
| | | days/week | months/year | mgd | mgd | days |
| | | days/week | months/year | mgd | mgd | days |

## SECTION 5. PRODUCTION (40 CFR 122.21(G)(5))

**Applicable ELGs**

5.1 Do any effluent limitation guidelines (ELGs) promulgated by EPA under Section 304 of the CWA apply to your facility?

☐ Yes ☑ No → SKIP to Section 6.

5.2 Provide the following information on applicable ELGs.

| ELG Category | ELG Subcategory | Regulatory Citation |
|---|---|---|
| | | |
| | | |
| | | |

**Production-Based Limitations**

5.3 Are any of the applicable ELGs expressed in terms of production (or other measure of operation)?

☐ Yes ☐ No → SKIP to Section 6.

5.4 Provide an actual measure of daily production expressed in terms and units of applicable ELGs.

| Outfall Number | Operation, Product, or Material | Quantity per Day | Unit of Measure |
|---|---|---|---|
| | | | |
| | | | |
| | | | |

5.5 Are you requesting alternative limits based on an anticipated increase in the actual production during the next permit term? (Consult with your NPDES permitting authority to determine what information needs to be submitted and when.)

☐ Yes ☐ No

## SECTION 6. IMPROVEMENTS (40 CFR 122.21(G)(6))

**Upgrades and Improvements**

6.1 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 Item 6.3.

6.2 Briefly identify each applicable project in the table below.

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

6.3 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 ☑ Not applicable

## SECTION 7. EFFLUENT AND INTAKE CHARACTERISTICS (40 CFR 122.21(G)(7))

**Effluent and Intake Characteristics**

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.

**Table A. Conventional and Non-Conventional Pollutants**

7.1 Are you requesting a waiver from your NPDES permitting authority for any Table A pollutants for any of your outfalls?

☐ Yes ☑ No ➔ SKIP to Item 7.3.

7.2 If yes, indicate the applicable outfalls below or check the appropriate box to indicate that you are requesting a waiver for all outfalls. Attach waiver request and other required information to the application.

Outfall number _____ Outfall number _____ Outfall number _____

☐ I am requesting a waiver for some pollutants at all outfalls.

☐ I am requesting a waiver for all pollutants at all outfalls ➔ SKIP to Item 7.4.

7.3 Have you completed monitoring for all Table A pollutants at each of your outfalls for which a waiver has not been requested and attached the results to this application package?

☑ Yes

**Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants**

7.4 Do any of the facility's processes that contribute wastewater fall into one or more of the primary industry categories listed in Exhibit 2C–3? (See end of instructions for exhibit.)

☐ Yes ☑ No ➔ SKIP to Item 7.8.

7.5 Have you checked "Testing Required" for all toxic metals, cyanide, and total phenols in Section 1 of Table B?

☐ Yes

**Effluent and Intake Characteristics Continued**

**7.6** List the applicable primary industry categories and check the boxes indicating the required GC/MS fraction(s) identified in Exhibit 2C–3.

| Primary Industry Category | Required GC/MS Fraction(s) (check applicable boxes) |
|---|---|
| | ☐ Volatile ☐ Acid ☐ Base/neutral ☐ Pesticide |
| | ☐ Volatile ☐ Acid ☐ Base/neutral ☐ Pesticide |
| | ☐ Volatile ☐ Acid ☐ Base/neutral ☐ Pesticide |

**7.7** Have you checked "Testing Required" for all required pollutants in Sections 2 through 5 of Table B for each of the GC/MS fractions checked in Item 7.6?

☐ Yes

**7.8** Have you checked "Believed Present" or "Believed Absent" for all pollutants listed in Sections 1 through 5 of Table B where testing is not required?

☑ Yes

**7.9** Have you provided (1) quantitative data for those Section 1, Table B, pollutants for which you have indicated testing is required or (2) quantitative data or other required information for those Section 1, Table B, pollutants that you have indicated are "Believed Present" in your discharge?

☑ Yes

**7.10** Does the applicant qualify for a small business exemption under the criteria specified in the instructions?

☐ Yes ➔ Note that you qualify at the top of Table B, then SKIP to Item 7.12. ☑ No

**7.11** Have you provided (1) quantitative data for those Sections 2 through 5, Table B, pollutants for which you have determined testing is required or (2) quantitative data or an explanation for those Sections 2 through 5, Table B, pollutants you have indicated are "Believed Present" in your discharge?

☑ Yes

**Table C. Certain Conventional and Non-Conventional Pollutants**

**7.12** Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table C for all outfalls?

☑ Yes

**7.13** Have you completed Table C by providing quantitative data for those pollutants that are limited either directly or indirectly in an ELG? You must provide quantitative data even if the pollutant is "Believed Absent."

☐ Yes ☑ Not applicable

**7.14** Have you completed Table C by providing quantitative data or an explanation for those pollutants for which you have indicated "Believed Present"?

☑ Yes

**Table D. Certain Hazardous Substances and Asbestos**

**7.15** Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table D for all outfalls?

☑ Yes

**7.16** Have you completed Table D by (1) describing the reasons the applicable pollutants are expected to be discharged and (2) providing quantitative data, if available?

☑ Yes ☐ No

**Table E. 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (2,3,7,8-TCDD)**

**7.17** Does the facility use or manufacture one or more of the 2,3,7,8-TCDD congeners listed in the instructions, or do you know or have reason to believe that TCDD is or may be present in the effluent?

☐ Yes ➔ Complete Table E. ☑ No ➔ SKIP to Section 8.

**7.18** Have you completed Table E by reporting *qualitative* data for TCDD?

☑ Yes

## SECTION 8. USED OR MANUFACTURED TOXICS (40 CFR 122.21(G)(9))

**Used or Manufactured Toxics**

8.1 Is any pollutant listed in Table B a substance or a component of a substance used or manufactured at your facility as an intermediate or final product or byproduct?

☑ Yes ☐ No ➔ SKIP to Section 9.

8.2 List the pollutants below. Attach additional sheets, if necessary.

| | | |
|---|---|---|
| 1. Benzene | 4. Naphthalene | 7. |
| 2. Ethylbenzene | 5. | 8. |
| 3. Toluene | 6. | 9. |

## SECTION 9. BIOLOGICAL TOXICITY TESTS (40 CFR 122.21(G)(11))

**Biological Toxicity Tests**

9.1 Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made within the last three years on (1) any of your discharges or (2) a receiving water in relation to your discharge?

☐ Yes ☑ No ➔ SKIP to Section 10.

9.2 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 10. CONTRACT ANALYSES (40 CFR 122.21(G)(12))

**Contract Analyses**

10.1 Were any of the analyses reported in Section 7 performed by a contract laboratory or consulting firm?

☑ Yes ☐ No ➔ SKIP to Section 11.

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

| | Laboratory Number 1 | Laboratory Number 2 | Laboratory Number 3 |
|---|---|---|---|
| Name of laboratory/firm | Eurofins | | |
| Laboratory address | 2417 Bond Street<br>University Park, IL 60484 | | |
| Phone number | (708) 534-5200 | | |
| Pollutant(s) analyzed | All pollutants | | |

## SECTION 11. ADDITIONAL INFORMATION (40 CFR 122.21(G)(13))

**Additional Information**

11.1 Has the NPDES permitting authority requested additional information?

☐ Yes ☑ No ➔ SKIP to Section 12.

11.2 List the information requested and attach it to this application.

| | |
|---|---|
| 1. | 4. |
| 2. | 5. |
| 3. | 6. |

## SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(A) AND (D))

**Checklist and Certification Statement**

12.1 In Column 1 below, mark the sections of Form 2C 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: Outfall Location | ☐ w/ attachments | |
| ☑ Section 2: Line Drawing | ☑ w/ line drawing | ☐ w/ additional attachments |
| ☑ Section 3: Average Flows and Treatment | ☐ w/ attachments | ☐ w/ list of each user of privately owned treatment works |
| ☑ Section 4: Intermittent Flows | ☐ w/ attachments | |
| ☑ Section 5: Production | ☐ w/ attachments | |
| ☑ Section 6: Improvements | ☐ w/ attachments | ☐ w/ optional additional sheets describing any additional pollution control plans |
| ☑ Section 7: Effluent and Intake Characteristics | ☐ w/ request for a waiver and supporting information<br>☐ w/ small business exemption request<br>☑ w/ Table A<br>☑ w/ Table C<br>☑ w/ Table E | ☐ w/ explanation for identical outfalls<br>☐ w/ other attachments<br>☑ w/ Table B<br>☑ w/ Table D<br>☐ w/ analytical results as an attachment |
| ☑ Section 8: Used or Manufactured Toxics | ☐ w/ attachments | |
| ☑ Section 9: Biological Toxicity Tests | ☐ w/ attachments | |
| ☑ Section 10: Contract Analyses | ☐ w/ attachments | |
| ☑ Section 11: Additional Information | ☐ w/ attachments | |
| ☑ Section 12: Checklist and Certification Statement | ☐ w/ attachments | |

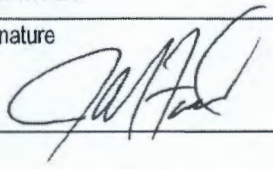
## SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d)) (Continued)

**Checklist and Certification Statement**

12.2 Provide the following certification. (See instructions to determine the appropriate person to sign the application.)

**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 |
|---|---|
| James M Ford | Operations Manager |
| Signature | Date signed |
|  | 11-21-2024 |

| EPA Identification Number | NPDES Permit Number | Facility Name | Outfall Number |
|---|---|---|---|
| ALD084367317 | AL061603 | Products (SE) Pipe Line Corp. | DSN001 |

OMB No. 2040-0004
Expires 07/31/2026

**TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii))[1]**

| | Pollutant | Waiver Requested (if applicable) | Units (specify) | | Effluent | | | | Intake (optional) | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Maximum Daily Discharge (required) | Maximum Monthly Discharge (if available) | Long-Term Average Daily Discharge (if available) | Number of Analyses | Long-Term Average Value | Number of Analyses |
| ☐ | Check here if you have applied to your NPDES permitting authority for a waiver for *all* of the pollutants listed on this table for the noted outfall. | | | | | | | | | |
| 1. | Biochemical oxygen demand ($BOD_5$) | ☐ | Concentration | mg/L | 3.6 | | | 1 | | |
| | | | Mass | lb/d | 0.100 | | | 1 | | |
| 2. | Chemical oxygen demand (COD) | ☐ | Concentration | mg/L | 98 | | | 1 | | |
| | | | Mass | lb/d | 2.715 | | | 1 | | |
| 3. | Total organic carbon (TOC) | ☐ | Concentration | mg/L | 40 | | | 1 | | |
| | | | Mass | lb/d | 1.108 | | | 1 | | |
| 4. | Total suspended solids (TSS) | ☐ | Concentration | mg/L | 13 | | | 1 | | |
| | | | Mass | lb/d | 0.360 | | | 1 | | |
| 5. | Ammonia (as N) | ☐ | Concentration | mg/L | 0.53 | | | 1 | | |
| | | | Mass | lb/d | 0.015 | | | 1 | | |
| 6. | Flow | ☐ | Rate | MGD | 0.107 | 0.071 | 0.033 | 66 | | |
| 7. | Temperature (winter) | ☐ | °C | °C | 23.8 | | | 1 | | |
| | Temperature (summer) | ☐ | °C | °C | 23.8 | | | 1 | | |
| 8. | pH (minimum) | ☐ | Standard units | s.u. | 6.23 | | 7.64 | 66 | | |
| | pH (maximum) | ☐ | Standard units | s.u. | 8.50 | | 7.64 | 66 | | |

[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 |
|---|---|---|---|
| ALD084367317 | AL061603 | Products (SE) Pipe Line Corp. | DSN001 |

OMB No. 2040-0004
Expires 07/31/2026

**TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]**

| | Pollutant/Parameter (and CAS Number, if available) | Testing Required | Presence or Absence (check one) | | Units (specify) | | Effluent | | | | Intake (optional) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Believed Present | Believed Absent | | | Maximum Daily Discharge (required) | Maximum Monthly Discharge (if available) | Long-Term Average Daily Discharge (if available) | Number of Analyses | Long-Term Average Value | Number of Analyses |
| ☐ | Check here if you qualify as a small business per the instructions to Form 2C and, therefore, do not need to submit quantitative data for any of the organic toxic pollutants in Sections 2 through 5 of this table. Note, however, that you must still indicate in the appropriate column of this table if you believe any of the pollutants listed are present in your discharge. | | | | | | | | | | | |
| **Section 1. Toxic Metals, Cyanide, and Total Phenols** | | | | | | | | | | | | |
| 1.1 | Antimony, total (7440-36-0) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 1.2 | Arsenic, total (7440-38-2) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 1.3 | Beryllium, total (7440-41-7) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 1.4 | Cadmium, total (7440-43-9) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 1.5 | Chromium, total (7440-47-3) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 1.6 | Copper, total (7440-50-8) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 1.7 | Lead, total (7439-92-1) | ☑ | ☑ | ☐ | Concentration | mg/L | 0.079 | 0.079 | 0.007 | 66 | | |
| | | | | | Mass | lb/d | 0.027 | 0.027 | 0.003 | 66 | | |
| 1.8 | Mercury, total (7439-97-6) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 1.9 | Nickel, total (7440-02-0) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 1.10 | Selenium, total (7782-49-2) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 1.11 | Silver, total (7440-22-4) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |

| EPA Identification Number | NPDES Permit Number | Facility Name | Outfall Number |
|---|---|---|---|
| ALD084367317 | AL061603 | Products (SE) Pipe Line Corp. | DSN001 |

OMB No. 2040-0004
Expires 07/31/2026

**TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]**

| | Pollutant/Parameter (and CAS Number, if available) | Testing Required | Presence or Absence (check one) | | Units (specify) | | Effluent | | | | Intake (optional) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Believed Present | Believed Absent | | | Maximum Daily Discharge (required) | Maximum Monthly Discharge (if available) | Long-Term Average Daily Discharge (if available) | Number of Analyses | Long-Term Average Value | Number of Analyses |
| 1.12 | Thallium, total (7440-28-0) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 1.13 | Zinc, total (7440-66-6) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 1.14 | Cyanide, total (57-12-5) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 1.15 | Phenols, total | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| **Section 2. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds)** | | | | | | | | | | | | |
| 2.1 | Acrolein (107-02-8) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 2.2 | Acrylonitrile (107-13-1) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 2.3 | Benzene (71-43-2) | ☑ | ☑ | ☐ | Concentration | ug/L | 40.6 | 40.6 | 5.84 | 66 | | |
| | | | | | Mass | lb/d | 0.015 | 0.015 | 0.002 | 66 | | |
| 2.4 | Bromoform (75-25-2) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 2.5 | Carbon tetrachloride (56-23-5) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 2.6 | Chlorobenzene (108-90-7) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 2.7 | Chlorodibromomethane (124-48-1) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 2.8 | Chloroethane (75-00-3) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |

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|---|---|---|---|
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**TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]**

| | Pollutant/Parameter (and CAS Number, if available) | Testing Required | Presence or Absence (check one) | | Units (specify) | | Effluent | | | | Intake (optional) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Believed Present | Believed Absent | | | Maximum Daily Discharge (required) | Maximum Monthly Discharge (if available) | Long-Term Average Daily Discharge (if available) | Number of Analyses | Long-Term Average Value | Number of Analyses |
| 2.9 | 2-chloroethylvinyl ether (110-75-8) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 2.10 | Chloroform (67-66-3) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 2.11 | Dichlorobromomethane (75-27-4) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 2.12 | 1,1-dichloroethane (75-34-3) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 2.13 | 1,2-dichloroethane (107-06-2) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 2.14 | 1,1-dichloroethylene (75-35-4) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 2.15 | 1,2-dichloropropane (78-87-5) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 2.16 | 1,3-dichloropropylene (542-75-6) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 2.17 | Ethylbenzene (100-41-4) | ☑ | ☑ | ☐ | Concentration | ug/L | 5.0 | 5.0 | 2.33 | 66 | | |
| | | | | | Mass | lb/d | 0.003 | 0.003 | 0.001 | 66 | | |
| 2.18 | Methyl bromide (74-83-9) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 2.19 | Methyl chloride (74-87-3) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 2.20 | Methylene chloride (75-09-2) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 2.21 | 1,1,2,2- tetrachloroethane (79-34-5) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |

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**TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]**

| | Pollutant/Parameter (and CAS Number, if available) | Testing Required | Presence or Absence (check one) | | Units (specify) | | Effluent | | | | Intake (optional) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Believed Present | Believed Absent | | | Maximum Daily Discharge (required) | Maximum Monthly Discharge (if available) | Long-Term Average Daily Discharge (if available) | Number of Analyses | Long-Term Average Value | Number of Analyses |
| 2.22 | Tetrachloroethylene (127-18-4) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 2.23 | Toluene (108-88-3) | ☑ | ☑ | ☐ | Concentration | ug/L | 5.0 | 5.0 | 2.17 | 66 | | |
| | | | | | Mass | lb/d | 0.002 | 0.002 | 0.001 | 66 | | |
| 2.24 | 1,2-trans-dichloroethylene (156-60-5) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 2.25 | 1,1,1-trichloroethane (71-55-6) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 2.26 | 1,1,2-trichloroethane (79-00-5) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 2.27 | Trichloroethylene (79-01-6) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 2.28 | Vinyl chloride (75-01-4) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| **Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)** | | | | | | | | | | | | |
| 3.1 | 2-chlorophenol (95-57-8) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 3.2 | 2,4-dichlorophenol (120-83-2) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 3.3 | 2,4-dimethylphenol (105-67-9) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 3.4 | 4,6-dinitro-o-cresol (534-52-1) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 3.5 | 2,4-dinitrophenol (51-28-5) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |

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**TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]**

| | Pollutant/Parameter (and CAS Number, if available) | Testing Required | Presence or Absence (check one) | | Units (specify) | | Effluent | | | | Intake (optional) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Believed Present | Believed Absent | | | Maximum Daily Discharge (required) | Maximum Monthly Discharge (if available) | Long-Term Average Daily Discharge (if available) | Number of Analyses | Long-Term Average Value | Number of Analyses |
| 3.6 | 2-nitrophenol (88-75-5) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 3.7 | 4-nitrophenol (100-02-7) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 3.8 | p-chloro-m-cresol (59-50-7) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 3.9 | Pentachlorophenol (87-86-5) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 3.10 | Phenol (108-95-2) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 3.11 | 2,4,6-trichlorophenol (88-05-2) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| **Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base /Neutral Compounds)** | | | | | | | | | | | | |
| 4.1 | Acenaphthene (83-32-9) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.2 | Acenaphthylene (208-96-8) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.3 | Anthracene (120-12-7) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.4 | Benzidine (92-87-5) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.5 | Benzo (a) anthracene (56-55-3) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.6 | Benzo (a) pyrene (50-32-8) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |

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**TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]**

| | Pollutant/Parameter (and CAS Number, if available) | Testing Required | Presence or Absence (check one) | | Units (specify) | | Effluent | | | | Intake (optional) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Believed Present | Believed Absent | | | Maximum Daily Discharge (required) | Maximum Monthly Discharge (if available) | Long-Term Average Daily Discharge (if available) | Number of Analyses | Long-Term Average Value | Number of Analyses |
| 4.7 | 3,4-benzofluoranthene (205-99-2) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.8 | Benzo (ghi) perylene (191-24-2) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.9 | Benzo (k) fluoranthene (207-08-9) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.10 | Bis (2-chloroethoxy) methane (111-91-1) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.11 | Bis (2-chloroethyl) ether (111-44-4) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.12 | Bis (2-chloroisopropyl) ether (102-80-1) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.13 | Bis (2-ethylhexyl) phthalate (117-81-7) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.14 | 4-bromophenyl phenyl ether (101-55-3) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.15 | Butyl benzyl phthalate (85-68-7) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.16 | 2-chloronaphthalene (91-58-7) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.17 | 4-chlorophenyl phenyl ether (7005-72-3) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.18 | Chrysene (218-01-9) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.19 | Dibenzo (a,h) anthracene (53-70-3) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Believed Present | Believed Absent | | | Maximum Daily Discharge (required) | Maximum Monthly Discharge (if available) | Long-Term Average Daily Discharge (if available) | Number of Analyses | Long-Term Average Value | Number of Analyses |
| 4.20 | 1,2-dichlorobenzene (95-50-1) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.21 | 1,3-dichlorobenzene (541-73-1) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.22 | 1,4-dichlorobenzene (106-46-7) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.23 | 3,3-dichlorobenzidine (91-94-1) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.24 | Diethyl phthalate (84-66-2) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.25 | Dimethyl phthalate (131-11-3) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.26 | Di-n-butyl phthalate (84-74-2) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.27 | 2,4-dinitrotoluene (121-14-2) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.28 | 2,6-dinitrotoluene (606-20-2) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.29 | Di-n-octyl phthalate (117-84-0) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.30 | 1,2-Diphenylhydrazine (as azobenzene) (122-66-7) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.31 | Fluoranthene (206-44-0) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.32 | Fluorene (86-73-7) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |

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| | Pollutant/Parameter (and CAS Number, if available) | Testing Required | Presence or Absence (check one) | | Units (specify) | | Effluent | | | | Intake (optional) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Believed Present | Believed Absent | | | Maximum Daily Discharge (required) | Maximum Monthly Discharge (if available) | Long-Term Average Daily Discharge (if available) | Number of Analyses | Long-Term Average Value | Number of Analyses |
| 4.33 | Hexachlorobenzene (118-74-1) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.34 | Hexachlorobutadiene (87-68-3) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.35 | Hexachlorocyclopentadiene (77-47-4) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.36 | Hexachloroethane (67-72-1) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.37 | Indeno (1,2,3-cd) pyrene (193-39-5) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.38 | Isophorone (78-59-1) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.39 | Naphthalene (91-20-3) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.40 | Nitrobenzene (98-95-3) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.41 | N-nitrosodimethylamine (62-75-9) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.42 | N-nitrosodi-n-propylamine (621-64-7) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.43 | N-nitrosodiphenylamine (86-30-6) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.44 | Phenanthrene (85-01-8) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 4.45 | Pyrene (129-00-0) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |

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|---|---|---|---|
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| | Pollutant/Parameter (and CAS Number, if available) | Testing Required | Presence or Absence (check one) | | Units (specify) | | Effluent | | | | Intake (optional) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Believed Present | Believed Absent | | | Maximum Daily Discharge (required) | Maximum Monthly Discharge (if available) | Long-Term Average Daily Discharge (if available) | Number of Analyses | Long-Term Average Value | Number of Analyses |
| 4.46 | 1,2,4-trichlorobenzene (120-82-1) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| **Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)** | | | | | | | | | | | | |
| 5.1 | Aldrin (309-00-2) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 5.2 | α-BHC (319-84-6) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 5.3 | β-BHC (319-85-7) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 5.4 | γ-BHC (58-89-9) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 5.5 | δ-BHC (319-86-8) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 5.6 | Chlordane (57-74-9) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 5.7 | 4,4'-DDT (50-29-3) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 5.8 | 4,4'-DDE (72-55-9) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 5.9 | 4,4'-DDD (72-54-8) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 5.10 | Dieldrin (60-57-1) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 5.11 | α-endosulfan (115-29-7) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Believed Present | Believed Absent | | | Maximum Daily Discharge (required) | Maximum Monthly Discharge (if available) | Long-Term Average Daily Discharge (if available) | Number of Analyses | Long-Term Average Value | Number of Analyses |
| 5.12 | β-endosulfan (115-29-7) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 5.13 | Endosulfan sulfate (1031-07-8) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 5.14 | Endrin (72-20-8) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 5.15 | Endrin aldehyde (7421-93-4) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 5.16 | Heptachlor (76-44-8) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 5.17 | Heptachlor epoxide (1024-57-3) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 5.18 | PCB-1242 (53469-21-9) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 5.19 | PCB-1254 (11097-69-1) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 5.20 | PCB-1221 (11104-28-2) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 5.21 | PCB-1232 (11141-16-5) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 5.22 | PCB-1248 (12672-29-6) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 5.23 | PCB-1260 (11096-82-5) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |
| 5.24 | PCB-1016 (12674-11-2) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |

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**TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]**

| | Pollutant/Parameter (and CAS Number, if available) | Testing Required | Presence or Absence (check one) | | Units (specify) | | Effluent | | | | Intake (optional) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Believed Present | Believed Absent | | | Maximum Daily Discharge (required) | Maximum Monthly Discharge (if available) | Long-Term Average Daily Discharge (if available) | Number of Analyses | Long-Term Average Value | Number of Analyses |
| 5.25 | Toxaphene (8001-35-2) | ☐ | ☐ | ☑ | Concentration | | | | | | | |
| | | | | | Mass | | | | | | | |

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

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**TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))[1]**

| | Pollutant | Presence or Absence (check one) | | Units (specify) | | Effluent | | | | Intake (optional) | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Believed Present | Believed Absent | | | Maximum Daily Discharge (required) | Maximum Monthly Discharge (if available) | Long-Term Average Daily Discharge (if available) | Number of Analyses | Long-Term Average Value | Number of Analyses |
| ☐ | Check here if you believe all pollutants in Table C to be ***present*** in your discharge from the noted outfall. You need *not* complete the "Presence or Absence" column of Table C for *each* pollutant. | | | | | | | | | | |
| ☐ | Check here if you believe all pollutants in Table C to be ***absent*** in your discharge from the noted outfall. You need *not* complete the "Presence or Absence" column of Table C for *each* pollutant. | | | | | | | | | | |
| 1. | Bromide (24959-67-9) | ☐ | ☑ | Concentration | | | | | | | |
| | | | | Mass | | | | | | | |
| 2. | Chlorine, total residual | ☐ | ☑ | Concentration | | | | | | | |
| | | | | Mass | | | | | | | |
| 3. | Color | ☐ | ☑ | Concentration | | | | | | | |
| | | | | Mass | | | | | | | |
| 4. | Fecal coliform | ☐ | ☑ | Concentration | | | | | | | |
| | | | | Mass | | | | | | | |
| 5. | Fluoride (16984-48-8) | ☐ | ☑ | Concentration | | | | | | | |
| | | | | Mass | | | | | | | |
| 6 | Nitrate-nitrite | ☐ | ☑ | Concentration | | | | | | | |
| | | | | Mass | | | | | | | |
| 7. | Nitrogen, total organic (as N) | ☐ | ☑ | Concentration | | | | | | | |
| | | | | Mass | | | | | | | |
| 8. | Oil and grease | ☑ | ☐ | Concentration | mg/L | 7.6 | 7.6 | 1.4 | 66 | | |
| | | | | Mass | lb/d | 3.24 | 3.24 | 1.01 | 66 | | |
| 9. | Phosphorus (as P), total (7723-14-0) | ☐ | ☑ | Concentration | | | | | | | |
| | | | | Mass | | | | | | | |
| 10. | Sulfate (as $SO_4$) (14808-79-8) | ☐ | ☑ | Concentration | | | | | | | |
| | | | | Mass | | | | | | | |
| 11. | Sulfide (as S) | ☐ | ☑ | Concentration | | | | | | | |
| | | | | Mass | | | | | | | |

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**TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))[1]**

| | Pollutant | Presence or Absence (check one) | | Units (specify) | | Effluent | | | | Intake (optional) | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Believed Present | Believed Absent | | | Maximum Daily Discharge (required) | Maximum Monthly Discharge (if available) | Long-Term Average Daily Discharge (if available) | Number of Analyses | Long-Term Average Value | Number of Analyses |
| 12. | Sulfite (as $SO_3$) (14265-45-3) | ☐ | ☑ | Concentration | | | | | | | |
| | | | | Mass | | | | | | | |
| 13. | Surfactants | ☐ | ☑ | Concentration | | | | | | | |
| | | | | Mass | | | | | | | |
| 14. | Aluminum, total (7429-90-5) | ☐ | ☑ | Concentration | | | | | | | |
| | | | | Mass | | | | | | | |
| 15. | Barium, total (7440-39-3) | ☐ | ☑ | Concentration | | | | | | | |
| | | | | Mass | | | | | | | |
| 16. | Boron, total (7440-42-8) | ☐ | ☑ | Concentration | | | | | | | |
| | | | | Mass | | | | | | | |
| 17. | Cobalt, total (7440-48-4) | ☐ | ☑ | Concentration | | | | | | | |
| | | | | Mass | | | | | | | |
| 18. | Iron, total (7439-89-6) | ☐ | ☑ | Concentration | | | | | | | |
| | | | | Mass | | | | | | | |
| 19. | Magnesium, total (7439-95-4) | ☐ | ☑ | Concentration | | | | | | | |
| | | | | Mass | | | | | | | |
| 20. | Molybdenum, total (7439-98-7) | ☐ | ☑ | Concentration | | | | | | | |
| | | | | Mass | | | | | | | |
| 21. | Manganese, total (7439-96-5) | ☐ | ☑ | Concentration | | | | | | | |
| | | | | Mass | | | | | | | |
| 22. | Tin, total (7440-31-5) | ☐ | ☑ | Concentration | | | | | | | |
| | | | | Mass | | | | | | | |
| 23. | Titanium, total (7440-32-6) | ☐ | ☑ | Concentration | | | | | | | |
| | | | | Mass | | | | | | | |

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**TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))[1]**

| | Pollutant | Presence or Absence (check one) | | Units (specify) | | Effluent | | | | Intake (optional) | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Believed Present | Believed Absent | | | Maximum Daily Discharge (required) | Maximum Monthly Discharge (if available) | Long-Term Average Daily Discharge (if available) | Number of Analyses | Long-Term Average Value | Number of Analyses |
| 24. | **Radioactivity** | | | | | | | | | | |
| | Alpha, total | ☐ | ☑ | Concentration | | | | | | | |
| | | | | Mass | | | | | | | |
| | Beta, total | ☐ | ☑ | Concentration | | | | | | | |
| | | | | Mass | | | | | | | |
| | Radium, total | ☐ | ☑ | Concentration | | | | | | | |
| | | | | Mass | | | | | | | |
| | Radium 226, total | ☐ | ☑ | Concentration | | | | | | | |
| | | | | Mass | | | | | | | |

[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 |
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**TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]**

| | Pollutant | Presence or Absence (check one) | | Reason Pollutant Believed Present in Discharge | Available Quantitative Data (specify units) |
|---|---|---|---|---|---|
| | | Believed Present | Believed Absent | | |
| 1. | Asbestos | ☐ | ☑ | | |
| 2. | Acetaldehyde | ☐ | ☑ | | |
| 3. | Allyl alcohol | ☐ | ☑ | | |
| 4. | Allyl chloride | ☐ | ☑ | | |
| 5. | Amyl acetate | ☐ | ☑ | | |
| 6. | Aniline | ☐ | ☑ | | |
| 7. | Benzonitrile | ☐ | ☑ | | |
| 8. | Benzyl chloride | ☐ | ☑ | | |
| 9. | Butyl acetate | ☐ | ☑ | | |
| 10. | Butylamine | ☐ | ☑ | | |
| 11. | Captan | ☐ | ☑ | | |
| 12. | Carbaryl | ☐ | ☑ | | |
| 13. | Carbofuran | ☐ | ☑ | | |
| 14. | Carbon disulfide | ☐ | ☑ | | |
| 15. | Chlorpyrifos | ☐ | ☑ | | |
| 16. | Coumaphos | ☐ | ☑ | | |
| 17. | Cresol | ☐ | ☑ | | |
| 18. | Crotonaldehyde | ☐ | ☑ | | |
| 19. | Cyclohexane | ☐ | ☑ | | |

| EPA Identification Number | NPDES Permit Number | Facility Name | Outfall Number |
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**TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]**

| | Pollutant | Presence or Absence (check one) | | Reason Pollutant Believed Present in Discharge | Available Quantitative Data (specify units) |
|---|---|---|---|---|---|
| | | Believed Present | Believed Absent | | |
| 20. | 2,4-D (2,4-dichlorophenoxyacetic acid) | ☐ | ☑ | | |
| 21. | Diazinon | ☐ | ☑ | | |
| 22. | Dicamba | ☐ | ☑ | | |
| 23. | Dichlobenil | ☐ | ☑ | | |
| 24. | Dichlone | ☐ | ☑ | | |
| 25. | 2,2-dichloropropionic acid | ☐ | ☑ | | |
| 26. | Dichlorvos | ☐ | ☑ | | |
| 27. | Diethyl amine | ☐ | ☑ | | |
| 28. | Dimethyl amine | ☐ | ☑ | | |
| 29. | Dintrobenzene | ☐ | ☑ | | |
| 30. | Diquat | ☐ | ☑ | | |
| 31. | Disulfoton | ☐ | ☑ | | |
| 32. | Diuron | ☐ | ☑ | | |
| 33. | Epichlorohydrin | ☐ | ☑ | | |
| 34. | Ethion | ☐ | ☑ | | |
| 35. | Ethylene diamine | ☐ | ☑ | | |
| 36. | Ethylene dibromide | ☐ | ☑ | | |
| 37. | Formaldehyde | ☐ | ☑ | | |
| 38. | Furfural | ☐ | ☑ | | |

**TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]**

| | Pollutant | Presence or Absence (check one) | | Reason Pollutant Believed Present in Discharge | Available Quantitative Data (specify units) |
|---|---|---|---|---|---|
| | | Believed Present | Believed Absent | | |
| 39. | Guthion | ☐ | ☑ | | |
| 40. | Isoprene | ☐ | ☑ | | |
| 41. | Isopropanolamine | ☐ | ☑ | | |
| 42. | Kelthane | ☐ | ☑ | | |
| 43. | Kepone | ☐ | ☑ | | |
| 44. | Malathion | ☐ | ☑ | | |
| 45. | Mercaptodimethur | ☐ | ☑ | | |
| 46. | Methoxychlor | ☐ | ☑ | | |
| 47. | Methyl mercaptan | ☐ | ☑ | | |
| 48. | Methyl methacrylate | ☐ | ☑ | | |
| 49. | Methyl parathion | ☐ | ☑ | | |
| 50. | Mevinphos | ☐ | ☑ | | |
| 51. | Mexacarbate | ☐ | ☑ | | |
| 52. | Monoethyl amine | ☐ | ☑ | | |
| 53. | Monomethyl amine | ☐ | ☑ | | |
| 54. | Naled | ☐ | ☑ | | |
| 55. | Naphthenic acid | ☐ | ☑ | | |
| 56. | Nitrotoluene | ☐ | ☑ | | |
| 57. | Parathion | ☐ | ☑ | | |

**TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]**

| | Pollutant | Presence or Absence (check one) | | Reason Pollutant Believed Present in Discharge | Available Quantitative Data (specify units) |
|---|---|---|---|---|---|
| | | Believed Present | Believed Absent | | |
| 58. | Phenolsulfonate | ☐ | ☑ | | |
| 59. | Phosgene | ☐ | ☑ | | |
| 60. | Propargite | ☐ | ☑ | | |
| 61. | Propylene oxide | ☐ | ☑ | | |
| 62. | Pyrethrins | ☐ | ☑ | | |
| 63. | Quinoline | ☐ | ☑ | | |
| 64. | Resorcinol | ☐ | ☑ | | |
| 65. | Strontium | ☐ | ☑ | | |
| 66. | Strychnine | ☐ | ☑ | | |
| 67. | Styrene | ☐ | ☑ | | |
| 68. | 2,4,5-T (2,4,5-trichlorophenoxyacetic acid) | ☐ | ☑ | | |
| 69. | TDE (tetrachlorodiphenyl ethane) | ☐ | ☑ | | |
| 70. | 2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid] | ☐ | ☑ | | |
| 71. | Trichlorofon | ☐ | ☑ | | |
| 72. | Triethanolamine | ☐ | ☑ | | |
| 73. | Triethylamine | ☐ | ☑ | | |
| 74. | Trimethylamine | ☐ | ☑ | | |
| 75. | Uranium | ☐ | ☑ | | |
| 76. | Vanadium | ☐ | ☑ | | |

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**TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]**

| | Pollutant | Presence or Absence (check one) | | Reason Pollutant Believed Present in Discharge | Available Quantitative Data (specify units) |
|---|---|---|---|---|---|
| | | Believed Present | Believed Absent | | |
| 77. | Vinyl acetate | ☐ | ☑ | | |
| 78. | Xylene | ☑ | ☐ | Xylene is a constituent of gasoline which is stored onsite. | 6.0 ug/L |
| 79. | Xylenol | ☐ | ☑ | | |
| 80. | Zirconium | ☐ | ☑ | | |

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

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**TABLE E. 2,3,7,8 TETRACHLORODIBENZO P DIOXIN (2,3,7,8 TCDD) (40 CFR 122.21(g)(7)(viii))**

| Pollutant | TCDD Congeners Used or Manufactured | Presence or Absence (check one) | | Results of Screening Procedure |
|---|---|---|---|---|
| | | Believed Present | Believed Absent | |
| 2,3,7,8-TCDD | ☐ | ☐ | ☑ | |

Click to go back to the beginning of Form

## 1. CHEMICAL IDENTIFICATION

Product Name ..... AN-450FG
Recommended Use ..... Water Treatment Antiscalent, Descaler
Restrictions on Use ..... Not Determined
Emergency Number ..... Infotrac 1-800-535-5053
Customer Service Hotline ..... 281-286-7562 (8 AM to 5 PM CST)

Supplier of SDS:

Analytix Technologies LLC
PO Box 590466
Houston TX 77259-0466
Tel: (281) 286-7562
Web: www.analytixtechnoloics.com
Email: analytix@earthlink.net

## 2. HAZARD IDENTIFICATION

**Hazard classification**

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

**Other hazards:** no data availablc

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixture of water treatment chemicals

| Chemical Name | CAS No. | GHS Classification |
|---|---|---|
| Sodium Polycarboxylate | Not Hazardous | None |
| Water | 7732-18-5 | None |

Specific chemical identity and/or percentages of composition have been withheld as a trade secret

## 4. FIRST AID MEASURES

Eyes ..... Immediately flush with water for at least 15 minutes, lifting the upper and lower ..... eyelids intermittently. See a medical doctor or ophthalmologist immediately.

Skin ..... Immediate first aid is not likely to be required. Wash with plenty of soap and water. ..... Get medical attention if irritation occurs and persists.

Ingestion ..... Immediate first aid is not likely to be required. Rinse mouth with water. Dilute by ..... giving 2 glasses of water. Do not induce vomiting. Never give anything by ..... mouth to an unconscious person. A physician can be contacted for advice.

Inhalation ..... Immediate first aid is not likely to be required. Remove to fresh air. If breathing ..... difficulty or discomfort occurs and persists, contact a medical doctor.

NOTES TO MEDICAL DOCTOR: Treatment is controlled removal of exposure with symptomatic and supportive care.

## 5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: alcohol resistant foam, CO2, powder, water spray

UNSUITABLE EXTINGUISHING MEDIA: Water jet

SPECIAL FIRE FIGHTING PROCEDURES Wear self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode when fighting fires.

HAZARDOUS DECOMPOSITION: CO, CO2

## 6. ACCIDENTAL RELEASE MEASURES

PROTECTIVE PRECAUTIONS AND EMERGENCY PROCEDURES Keep unnecessary personnel away.
Wear appropriate protective equipment and clothing during clean-up. Do not breather mist or vapors. Ensure adequate ventilation

CONTAINMENT PROCEDURE Prevent further leakage or spillage if safe to do so. Contain spills to prevent migration and entry into waterway.

CLEANUP PROCEDURE Contain large spills with dikes and transfer material to appropriate containers for reclamation or disposal. Absorb remaining material or small spills with inert material and then place in a chemical waste container.

## 7. HANDLING AND STORAGE

Handling – Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist and use approved splash goggles and vapor respirator fitted with approved organic cartridge if vaporization or misting occurs. Use with adequate ventilation.

Storage: Store at > 32 °F. Stir well before use. Keep containers tightly closed when not in use and when in transit.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION EQUIPMENT

**Control Parameters:**

| Active Ingredients | CAS # | Source | | |
|---|---|---|---|---|
| | | OSHA | ACGIH | NIOSH |
| Sodium Polycarboxylate | Non-Hazardous | NE | NE | NE |

NE: No Limit Established

**Exposure Controls:**

**Eye Protection:** Wear Face Shield or chemical splash goggles meeting ANSI Z87.1 or approved equivalent.
**Hand & Body Protection:** Minimize skin contact by wearing protective PVC or Neoprene gloves, overalls or apron is also recommended.
**Respiratory Protection**: None required under normal handling and transfer conditions. An approved respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements or equivalent must be followed whenever workplace conditions warrant use of a respirator. Where vapors or mist may occur, wear a properly fitted NIOSH-approved or equivalent half-mask, air-purifying respirator fitted with NIOSH-approved organic vapor cartridges.

**Engineering Controls:** Facilities storing or utilizing this material should be equipped adequate ventilation, eyewash and shower facility.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| Appearance: ..... | Clear Colorless, Light Straw Liquid |
| Upper/Lower Flammability Or Explosive Limits: | Not Determined |
| Odor: ..... | Mild |
| Vapor Pressure: ..... | 17.5 Mm Hg @ $20^0$c |
| Odor Threshold: ..... | Not Determined |
| Vapor Density: ..... | Not Determined |
| pH (1% solution): ..... | 4.0 – 5.0 |
| Specific Gravity: ..... | 1.10 +/- .05 |
| Melting Point/Freezing Point: | $< 0^0$ C |
| Solubility(in water): ..... | Completely Soluble |
| Initial Boiling Point And Boiling Range: | $101^0$C To $103^0$C |
| Flash Point: ..... | Not Determined |
| Evaporation Rate: ..... | Not Determined |
| Flammability (Solid, Gas): | Not Determined |
| Partition Coefficient: N-Octanol/Water: | Not Determined |
| Auto-Ignition Temperature: | Not Determined |
| Decomposition Temperature: | Not Determined |
| Viscosity: ..... | 150 – 350 cps |

Note: The above physical data are typical values. They should not be construed as specification for the product.

## 10. STABILITY AND REACTIVITY

REACTIVITY : No Data Available
STABILITY: Stable under normal conditions
CONDITIONS TO AVOID: No Data Available
INCOMPATIBILITY: There are no known materials which are incompatible with this product
HAZARDOUS DECOMPOSITION: CO, CO2
HAZARDOUS POLYMERIZATION: Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity:**
Dermal $LD_{50}$.....> 5000 mg/kg (rabbit)
Oral $LD_{50}$ .....> 5000 mg/kg (rat)
Inhalation.....data not available

Skin corrosion/irritation : No skin irritation
Serious eye damage/eye irritation: slight irritation
Sensitization: Product test data not available.
Specific Target Organ Systemic Toxicity (Single Exposure): Product test data not available.
Specific Target Organ Systemic Toxicity (Repeated Exposure): Product test data not available.
Carcinogenicity: Product test data not available.
Teratogenicity: Product test data not available.
Reproductive toxicity: Product test data not available.
Mutagenicity: Product test data not available.
Aspiration Hazard: Product test data not available.

## 12. ECOLOGICAL INFORMATION

Toxicity data for a compositionally similar material are as follows:

| | | |
|---|---|---|
| Rainbow trout (Salmo gairdneri) 96 Hour LC50:..... | > | 1,000 mg/L |
| 96 hr NOEC: ..... | = | 1,000 mg/L |
| Bluegill sunfish 96 hr LC50 :..... | > | 1,000 mg/L |
| 96 hr NOEC: ..... | = | 1,000 mg/L |
| Daphnia magna 48 hr EC50 :..... | > | 1,000 mg/L |
| 48 hr NOEC:..... | = | 1,000 mg/L |
| Zebra fish, 96 Hour LC50:..... | > | 1,000 mg/L |
| Brown shrimp, 96 Hour LC50:..... | > | 9,800 mg/L |

* LC50: Lethal Concentration to 50 % of the test organism. ** NOEC: No Observed Effect Concentration
* EC50: Effective Concentration with some effect in 50% of the test organism,

## 13. DISPOSAL CONSIDERATION

**Disposal Method:** For small quantities neutralize with lime or soda ash and flush away with plenty of water. For large spillage absorb spillage onto sand or other absorbent material and dispose of as solid waste as per local regulations (e.g. incineration). Surplus product can be incinerated.

If the product was supplied in a single use container, care should be taken to dispose of the container in a responsible manner and in accordance with applicable regulations. Label precautions should be followed for any residual material in the container. Whenever possible, our company encourages recycling of containers.

## 14. TRANSPORT INFORMATION

U.S. DOT (Department of Transportation): Nonregulated

Other Shipping Information – DOT Marking – Not applicable
Hazardous Substance/RQ – Not applicable
49 STCC Number – Not applicable

Keep container tightly closed. Protect against physical damage.

## 15. REGULATORY INFORMATION

Following information pertains to each active component in the product, when applicable.
UNITED STATES
SARA TITLE 3 (Superfund Amendments and Reauthorization Act) – Not listed
Section 302 Extremely Hazardous Substances (40 CFR 355) – Not listed
Section 311 Hazard Category (40 CFR 370) – Not Hazardous
Section 312 Threshold Planning Quantity (40 CFR 370) – None
Section 313 Reportable Ingredients (40 CFR 372) – Not listed

CERCLA (Comprehensive Environmental Response Compensation and Liability Act) (40 CFR 302.4)-Not listed.

TSCA (Toxic Substance Control Act) (40 CFR 710) – Listed

## 16. OTHER INFORMATION

| | | | | |
|---|---|---|---|---|
| Suggested HMIS Ratings - | Health - 1 | Flammability - 0 | Reactivity - 0 | Protection - B |
| NFPA Rating | Health - 1 | Flammability - 0 | Reactivity - 0 | Special - None |

HMIS Rating notes - Protection B = Splash Proof Goggles, Gloves

Date Prepared: 5-20-2015

# Safety Data Sheet

## Vitec™ 1600

Date of compilation: 2023-10-30

## SECTION 1: Identification

### 1.1 Product identifier

| | |
|---|---|
| **Trade name** | **Vitec™ 1600** |
| **CAS number** | none |
| | AvistaVitec™ 1600 |

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

| | |
|---|---|
| **Relevant identified uses** | Water treatment chemical<br>RO Reverse Osmosis<br>Antiscalant |

### 1.3 Details of the supplier of the safety data sheet

Avista Technologies, Inc.
140 Bosstick Blvd.
92069 San Marcos
United States

Telephone: +1 (760) 744 0536
e-mail: regulatory@avistatech.com
Website: AvistaMembraneSolutions.com

| | | |
|---|---|---|
| 1.4 | **Emergency telephone number** | Emergency Number (USA, Canada): 1 (800) 424-9300 (ChemTrec)<br>Emergency Number (International): 1 (703) 527-3887 (International Collect) |

### 1.5 Registration

CERTIFIED BY NSF INTERNATIONAL TO NSF/ANSI 60 AS A STANDARD DRINKING WATER TREATMENT CHEMICAL FOR USE IN REVERSE OSMOSIS SYSTEMS AT A MAXIMUM LEVEL OF 20 mg/L

## SECTION 2: Hazard(s) identification

### 2.1 Classification of the substance or mixture

**Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)**

| *Hazard class* | *Category* | *Hazard statement* |
|---|---|---|
| skin corrosion/irritation | 1B | H314 |
| serious eye damage/eye irritation | 1 | H318 |
| substance or mixture corrosive to metals | 1 | H290 |

For full text of abbreviations: see SECTION 16.

## 2.2 Label elements

**Signal word** danger

**Pictograms**

GHS05

**Hazard statements**

| | |
|---|---|
| H290 | May be corrosive to metals. |
| H314 | Causes severe skin burns and eye damage. |

**Precautionary statements**

| | |
|---|---|
| P234 | Keep only in original container. |
| P260 | Do not breathe dusts or mists. |
| P280 | Wear eye protection/face protection. |
| P301+P330+P331 | If swallowed: Rinse mouth. Do NOT induce vomiting. |
| P303+P361+P353 | If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. |
| P304+P340 | If inhaled: Remove person to fresh air and keep comfortable for breathing. |
| P305+P351+P338 | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310 | Immediately call a poison center/doctor. |
| P363 | Wash contaminated clothing before reuse. |
| P390 | Absorb spillage to prevent material damage. |
| P405 | Store locked up. |
| P406 | Store in corrosive resistant container with a resistant inner liner. |
| P501 | Dispose of contents/container to industrial combustion plant. |

## 2.3 Other hazards

**Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

# SECTION 3: Composition/information on ingredients

## 3.1 Mixtures

**Hazardous ingredients**

| *Name of substance* | *Identifier* | *Wt%* | *Classification acc. to GHS* |
|---|---|---|---|
| Acrylic terpolymer | CAS No<br>Proprietary | 1 – < 5 | |
| Water | 7732-18-5 | 80 – < 90 | Not established |
| Chelate Agent E | Proprietary | 5 – < 10 | Skin Corr. 1 / H314<br>Eye Dam. 1 / H318<br>Met. Corr. 1 / H290 |

For full text of abbreviations: see SECTION 16.
Specific chemical identity and concentration of some ingredients are protected as Trade Secret information.

## SECTION 4: First-aid measures

### 4.1 Description of first-aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

In case of respiratory tract irritation, consult a physician.

#### Following skin contact

Rinse skin with water/shower. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Immediately call a doctor. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following eye contact

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Immediately call a doctor.

### 4.2 Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage. Splashes cause strong tearing, pain, may cause permanent visual impairment. Prolonged contact may cause dryness, redness, burns, blistering and ulceration. Can be partially absorbed by the skin. Ingestion causes pain, burns, abdominal pain, possible general impact (shock).

### 4.3 Indication of any immediate medical attention and special treatment needed

No specific antidote is known. Treatment of the symptoms.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Non-combustible. Coordinate firefighting measures to the fire surroundings. Water spray, Alcohol resistant foam, Fire extinguishing powder, Carbon dioxide ($CO_2$)

#### Unsuitable extinguishing media

None

### 5.2 Special hazards arising from the substance or mixture

Substance or mixture corrosive to metals.

#### Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide ($CO_2$)

### 5.3 Advice for firefighters

Keep containers cool with water spray. In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

#### Special protective equipment for firefighters

Chemical protection suit, Use suitable breathing apparatus

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Aqueous solutions or powders that become wet produce extremely slippery conditions.

#### For non-emergency personnel

Follow emergency procedures such as the need to evacuate the danger area or to consult an expert. Remove persons to safety. Prevent skin contact. Avoid inhaling sprayed product. Aqueous solutions or powders that become wet produce extremely slippery conditions.

#### For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases. Wear personal protective equipment/face protection. Aqueous solutions or powders that become wet produce extremely slippery conditions. Special danger of slipping by leaking/spilling product.

Suitable fabric for personal protective clothing

PE: polyethylene, NR: natural rubber, latex, CR: chloroprene (chlorobutadiene) rubber

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority. Disposal considerations: see section 13. Chemicals generally shouldn't reach surface water.

### 6.3 Methods and material for containment and cleaning up

#### Advice on how to contain a spill

Covering of drains

#### Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.), Material for neutralising like diluted soda or diluted caustic soda.

#### Appropriate containment techniques

Neutralization techniques. Decontamination techniques. Use of adsorbent materials. Vacuuming techniques.

Equipment required for containment/clean-up

Approved industrial vacuum cleaner, Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.), Sweeping compounds (oil absorbing), Shovel, Drain seal, Collecting container, Protective gloves, Eye protection (e.g. protective goggles), Personal protective equipment: see section 8

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Section 7: Handling and storage. See also to sections 8 and 13 of the safety data sheet.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Recommendations

#### Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation.

#### Handling of incompatible substances or mixtures

Do not mix with other chemicals.

### Keep away from

Bases, Caustic solutions, Alkalis, Strong oxidizers, Other chemicals

### Measures to protect the environment

Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point.

### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

## 7.2 Conditions for safe storage, including any incompatibilities

### Managing of associated risks

### Corrosive conditions

Store in corrosive resistant container with a resistant inner liner.

### Consideration of other advice

Store between 5°C and 40°C. Avoid freezing.

### Specific designs for storage rooms or vessels

No special measures are necessary. Keep container tightly closed.

### Packaging compatibilities

Keep only in original container.

## 7.3 Specific end use(s)

Water treatment chemical. RO Reverse Osmosis. Antiscalant.

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

### National limit values

### Occupational Exposure Limits: PELs, TLVs, etc

These information are not available.

## 8.2 Exposure controls

### Appropriate engineering controls

General ventilation.

### Individual protection measures (personal protective equipment)

Guarantee that the eye flushing systems and safety showers are closely located to the working place.

### Eye/face protection

Wear eye/face protection.

### Skin protection

Chemical resistant protective clothing.

### Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. In case of spray contact at least protection index 2 recommended, according to more than 30 min. penetration time (EN 374).
Layer thickness of gloves at least: 0.4 mm
In case of prolonged and intensive contact protection index 6 recommended, according to more than 480 min. penetration time (EN 374).
Layer thickness of gloves at least: 0.7 mm.

### Type of material

PVC: polyvinyl chloride, PE: polyethylene, CR: chloroprene (chlorobutadiene) rubber, NBR: acrylonitrile-butadiene rubber, IIR: isobutene-isoprene (butyl) rubber, FKM: fluoro-elastomer

### Breakthrough times of the glove material

Breakthrough times and swelling properties of the material must be taken into consideration

### Other protection measures

Wash hands thoroughly after handling.

### Respiratory protection

Not necessary under normal conditions and provided good general ventilation. In case of inadequate ventilation wear respiratory protection. Type : E (against acidic gases like sulfur dioxide or hydrogen chloride, color code: Yellow).

### Environmental exposure controls

Disposal considerations: see section 13.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance**

| | |
|---|---|
| Physical state | liquid |
| Color | clear , amber liquid |
| Odor | odorless - mild sweet |
| Odor threshold | not applicable |

**Other safety parameters**

| | |
|---|---|
| pH (value) | ca. <2 (25 °C) (acid) |
| Melting point/freezing point | ca. <0 °C at 1 atm |
| Initial boiling point and boiling range | ca. >100 °C at 1 atm |
| Flash point | not applicable |
| Evaporation rate | not determined |
| Flammability (solid, gas) | not applicable |

| | |
|---|---|
| Upper/lower flammability or explosive limits | not determined |
| Vapor pressure | ca. 18 – 20 mmHg at 20 °C |
| Vapor density | this information is not available |
| Density | not determined |
| Relative density | 1 – 1.1 at 25 °C (water = 1) |

Solubility(ies)

| | |
|---|---|
| **Water solubility** | miscible in any proportion |

Partition coefficient

| | |
|---|---|
| -n-Octanol/water (log KOW) | this information is not available |

| | |
|---|---|
| Auto-ignition temperature | not determined not applicable |
| Decomposition temperature | not determined |
| Viscosity | not determined |
| Explosive properties | none |
| Oxidizing properties | none |

### 9.2 Other information

There is no additional information.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Substance or mixture corrosive to metals.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

Bases.

### 10.4 Conditions to avoid

Incompatible materials.

### 10.5 Incompatible materials

Bases, Oxidizers

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

#### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity of components of the mixture

| *Name of substance* | *Exposure route* | *Endpoint* | *Value* | *Species* |
|---|---|---|---|---|
| Chelate Agent E | oral | LD50 | 2,910 $^{mg}/_{kg}$ | rat |
| Chelate Agent E | dermal | LD50 | >6,310 $^{mg}/_{kg}$ | rabbit |

#### Skin corrosion/irritation

Causes severe skin burns and eye damage.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

#### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

#### Carcinogenicity

Shall not be classified as carcinogenic.

#### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## SECTION 12: Ecological information

### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

| Aquatic toxicity (acute) | | | |
|---|---|---|---|
| *Endpoint* | *Value* | *Species* | *Exposure time* |
| LC50 | 1,535 $^{mg}/_{l}$ | fathead minnow (Pimephales promelas) | 96 h |
| LC50 | 1,768 $^{mg}/_{l}$ | Ceriodaphnia dubia (water flea) | 48 h |

| Aquatic toxicity (acute) of components of the mixture | | | | | |
|---|---|---|---|---|---|
| *Name of substance* | *Endpoint* | *Exposure time* | *Value* | *Species* | *Source* |
| Chelate Agent E | LC50 | 96 h | 500 $^{mg}/_{l}$ | fish | European Chemicals Agency, http://echa.europa.eu/ |
| Chelate Agent E | EC50 | 48 h | 297 $^{mg}/_{l}$ | aquatic invertebrates | European Chemicals Agency, http://echa.europa.eu/ |

### 12.2 Persistence and degradability

Data are not available.

### 12.3 Bioaccumulative potential

Data are not available.

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

Not applicable.

### 12.6 Other adverse effects

Data are not available.

#### Remarks

Do not empty into drains or surface water.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point. Dispose of waste according to applicable legislation.

#### Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Avoid release to the environment.

## SECTION 14: Transport information

| | |
|---|---|
| **14.1 UN number** | 3265 |
| **14.2 UN proper shipping name** | Corrosive liquid, acidic, organic, n.o.s. |
| **Technical name** (hazardous ingredients) | contains: ({[bis(phosphonomethyl)amino]methyl}phosphonic acid) |
| **14.3 Transport hazard class(es)** | |
| **Class** | 8 |
| **14.4 Packing group** | II |
| **14.5 Environmental hazards** | non-environmentally hazardous acc. to the dangerous goods regulations |

**14.6 Special precautions for user**

There is no additional information.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**

The cargo is not intended to be carried in bulk.

**Information for each of the UN Model Regulations**

**Transport of dangerous goods by road or rail (49 CFR US DOT)**

| | |
|---|---|
| Index number | 3265 |
| Proper shipping name | Corrosive liquid, acidic, organic, n.o.s. |
| **Particulars in the shipper's declaration** | UN3265, Corrosive liquid, acidic, organic, n.o.s., ({[bis(phosphonomethyl)amino]methyl}phosphonic acid), 8, II |
| Class | 8 |
| Packing group | II |
| Danger label(s) | 8 |

| | |
|---|---|
| Special provisions (SP) | 148, B2, IB2, T11, TP2, TP27 |
| ERG No | 153 |

**International Maritime Dangerous Goods Code (IMDG)**

| | |
|---|---|
| UN number | 3265 |
| Proper shipping name | CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. |
| **Particulars in the shipper's declaration** | UN3265, CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S., ({[bis(phosphonomethyl)amino]methyl}phosphonic acid), 8, II |
| Class | 8 |
| Marine pollutant | - |

| | |
|---|---|
| Packing group | II |
| Danger label(s) | 8 |

| | |
|---|---|
| EmS | F-A, S-B |
| Segregation group | 1 - Acids |
| Segregation codes | SG36, SG49 |

**International Civil Aviation Organization (ICAO-IATA/DGR)**

| | |
|---|---|
| UN number | 3265 |
| Proper shipping name | Corrosive liquid, acidic, organic, n.o.s. |
| **Particulars in the shipper's declaration** | UN3265, Corrosive liquid, acidic, organic, n.o.s., ({[bis(phosphonomethyl)amino]methyl}phosphonic acid), 8, II |
| Class | 8 |
| Environmental hazards | no |
| Packing group | II |
| Danger label(s) | 8 |

## SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations specific for the product in question**

**National regulations (United States)**

**Toxic Substance Control Act (TSCA)** all ingredients are listed or exempt from listing

**Superfund Amendment and Reauthorization Act (SARA TITLE III )**

**The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)**

none of the ingredients are listed

**Specific Toxic Chemical Listings (EPCRA Section 313)**

none of the ingredients are listed

**Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)**

**List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)**

none of the ingredients are listed

Clean Air Act

none of the ingredients are listed

New Jersey Worker and Community Right to Know Act

none of the ingredients are listed

**California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987**

none of the ingredients are listed

### Industry or sector specific available guidance(s)

#### NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.


A "*" on the health line indicates a chronic health hazard is present.

#### NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).


### Additional information

Substance is listed in the following national inventories:
The contained substances are listed in the following national inventories:
AICS (Australia)
ASIA-PAC (Asia-Pacific Region)
DSL (Canada)
NDSL (Canada)
DSL/NDSL (Canada)
IECSC (China)
EINECS/ELINCS/NLP (Europe)
EINECS (European Union)
REACH (Europe)
ENCS, class 1 and 2 (MITI-inventory, Japan)
CSCL-ENCS (Japan)
ISHA-ENCS (Japan)
KECL (Republic of Korea)
INSQ (Mexico)
NZIoC (New Zealand)
PICCS (Philippines)
CICR (Turkey)
TCSI (Taiwan)
TSCA (United States)

## 15.2 Chemical Safety Assessment

Chemical Safety Assessment: No.

## SECTION 16: Other information, including date of preparation or last revision

### Abbreviations and acronyms

| *Abbr.* | *Descriptions of used abbreviations* |
|---|---|
| 49 CFR US DOT | 49 CFR U.S. Department of Transportation |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DOT | Department of Transportation (USA) |
| EC50 | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval |
| EC No | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| EmS | Emergency Schedule |
| ERG No | Emergency Response Guidebook - Number |
| Eye Dam. | Seriously damaging to the eye |
| Eye Irrit. | Irritant to the eye |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods Code |
| LC50 | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval |
| LD50 | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval |
| MARPOL | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") |
| Met. Corr. | Substance or mixture corrosive to metals |
| NLP | No-Longer Polymer |
| NPCA-HMIS® III | National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition |
| OSHA | Occupational Safety and Health Administration (United States) |
| PBT | Persistent, Bioaccumulative and Toxic |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| Skin Corr. | Corrosive to skin |
| Skin Irrit. | Irritant to skin |
| vPvB | Very Persistent and very Bioaccumulative |

### Key literature references and sources for data

ECHA: European Chemicals Agency, http://echa.europa.eu/.

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.
Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in section 2 and 3)

| *Code* | *Text* |
|---|---|
| H290 | May be corrosive to metals. |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

AMERICAN WATER CHEMICALS®
1802 CORPORATE CENTER LANE
PLANT CITY, FL 33563

IDENTITY
# AWC A-120

## Section I Company and Product Identification

| | |
|---|---|
| AMERICAN WATER CHEMICALS®<br>1802 CORPORATE CENTER LANE<br>PLANT CITY, FL 33563<br><br>Telephone Number: (813)-246-5448 | ChemTel phone Number: In the U.S.: 1-800-255-3924<br>International: 1-813-248-0585<br>Australia: 1-300-954-583<br>Brazil: 0-800-591-6042<br>China: 400-120-0751<br>India: 000-800-100-4086<br>Mexico: 800-099-0731 |
| Date Prepared: 01/11/2016 | Date Revised: October 2020 |

| | |
|---|---|
| Trade Name | AWC A-120 |
| Product Family | Scale Inhibitor |

## Section II – Hazards Identification

| | |
|---|---|
| **Signal Word : WARNING**<br>**Acute Toxicity: Oral, Category 5 May be harmful if swallowed.**<br>**Skin Corrosion/Irritation, Category 5 May be harmful in contact with skin**<br>**Inhalation: None** | |
| **GHS Hazard Phrases** | H303 + H313:May be harmful if swallowed or in contact with skin |
| **GHS Precaution Phrases** | P103: Read label before use |
| **GHS Response Phrases** | P311: Call a poison center/doctor/...if you feel unwell |
| **GHS Storage and Disposal Phrases** | Please refer to section 7 for storage and section 13 for Disposal information |

| **Route(s) of Entry:** | **Inhalation? N** | **Skin? Y** | **Ingestion? Y** |
|---|---|---|---|
| **Health Hazards (Effects of Acute and Chronic Overexposure)** | | | |
| **Inhalation:** None Known | | | |
| **Eye Contact:** May cause eye irritation. | | | |
| **Skin Contact:** May be slightly irritating to skin | | | |
| **Ingestion (Swallowing):** May be harmful if swallowed | | | |

## Section III - Hazard Ingredients/Composition Information

| Hazardous Components (Chemical Name) | CAS # | % | EC # | Risk Phrases |
|---|---|---|---|---|
| N/A | N/A | N/A | N/A | |

AMERICAN WATER CHEMICALS®
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PLANT CITY, FL 33563

| | | | | |
|---|---|---|---|---|
| | | | | |

**Section IV – First Aid Procedures**

| |
|---|
| **Inhalation**: Move victim to fresh air |
| **Eye Contact:** Rinse with plenty of water. If eye irritation persists, consult a specialist. |
| **Skin Contact:** Immediately flush skin with plenty of water while removing contaminated clothing and shoes. Thoroughly wash before reuse or discard. Wash skin with soap and water until clean. Get medical help if irritation occurs. |
| **Ingestion (Swallowing)**: If conscious, immediately give several glasses of water. Do not induce vomiting. (Do not give food to an unconscious person). |

| MOST IMPORTANT SYMPTOMS | |
|---|---|
| **Symptoms/Injuries** | May be slightly irritating to skin. |
| **Symptoms/Injuries after eye contact** | May be irritating to eyes. |
| **Symptoms/Injuries after ingestion** | Significant adverse health effects are not expected to develop if only small amounts (less than a mouthful) are swallowed. |

**Section V - Fire Fighting Measures**

| | |
|---|---|
| **Flash Point**: Noncombustible | **Flammable Limits**: NE |
| **Extinguishing Media**: Product is a non- flammable aqueous solution. Use any media suitable for the surrounding fire. | |
| **Auto ignition temp**: Noncombustible. | |
| **Special Fire Fighting Procedures and Protective Equipment**: Do not enter fire area without proper protective equipment, including respiratory protection. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. | |
| **Unusual Fire and Explosion Hazard:** None Known | |
| **Hazardous Decomposition or Combustion Byproducts**: Thermal decomposition may yield acrylic monomers.. | |

**Section VI – Accidental Release Measures**

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|---|
| **Steps to Be Taken in Case Material is Released or Spilled:**<br>Steps to Be Taken in Case Material is Released or Spilled: Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.<br>**Additional Information:** Planning ahead is essential for handling spills. Proper equipment and trained employees should be readily available to correct a spill situation. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers and public waters. Avoid release to the environment. |

**Section VII - Handling and Storage**

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|---|---|
| **Precautions to Be taken in Handling (General):** | Use appropriate protective wear. Observe all recommended safety precautions until container is cleaned, reconditioned or destroyed. The |

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|---|---|
| | reuse of this material's container for non-industrial purposes is prohibited and any reuse must be in consideration of the data provided in this material safety data sheet. |
| **Precautions for safe storage and any incompatibilities** | Keep container closed when not in use. Protect from freezing. Keep away from direct sunlight. |

**Section VIII – Exposure Controls and Personal Protection**

| Components (Specific Chemical Identity; Common Name(s)) | OSHA PEL | TWA8 ACGIH | STEL ACGIH | Other Limits Recommended |
|---|---|---|---|---|
| Acrylic Acid | 10 ppm | 2 ppm | N/A | NA |
| | | | | |

| | |
|---|---|
| **Primary Route of Exposure:** Body contact. | |
| **Target Organs:** None Known | |
| **Respiratory Protection**: Not normally required | |
| **Skin Protection:** Rubber or plastic-impervious and/or waterproof. | |
| **Protective Gloves:** Rubber, nitrile, neoprene, PVL. | **Eye Protection**: Splash proof safety goggles. |
| **Other Protective Clothing or Equipment:** Eye wash facility and safety shower in immediate area. Rubber boots. Rubbers over leather shoes are not recommended. | |

**Section IX - Physical/Chemical Characteristics**

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|---|---|
| **Boiling Point**: 212°F | **Percent Volatile**: >50% |
| **Viscosity :** (Brookfield) NE | **Specific Gravity** (H2O = 1): 1.15 ± 0.1 |
| **Solubility in Water**: Complete | **pH**: 2 - 4 |
| **Appearance and Odor:** Clear colorless to pale yellow liquid with mild odor. | |

NR: NOT REQUIRED, NE: NOT ESTABLISHED, NA: NOT APPLICABLE

**Section X – Stability & Reactivity Data**

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|---|
| **Stability:** Stable under normal conditions. |
| **Conditions to avoid:** None Known |
| **Incompatibility (Materials to Avoid):** Metals, concentrated alkalis or oxidizing agents. |
| **Hazardous Decomposition Products:** None known |
| **Hazardous Polymerization:** Does not occur |
| **Condition to avoid:** None known |
| |
| **Additional Information:** None |

**Section XI– Toxicological Information**

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|---|
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|---|
| NO TLV'S ESTABLISHED FOR FINISHED PRODUCT.<br>ORAL LD50 (RAT) : >5.0 g/kg.<br>DERMAL (acute) LD50 (RABBIT) : >2.0 g/kg.<br>DERMAL IRRITATION (RABBIT): No skin irritation.<br>EYE IRRITATION (RABBIT): No eye irritation |
| **Mutagenic:** Not listed. |
| **Teratogenic:** Not listed. |
| **Reproductive Toxicity:** Not listed. |
| **Primary Route of Exposure:** Body contact. |
| **Target Organs:** Not Listed |

**Section XII – Ecological Information**

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|---|
| RAINBOW TROUT: LC50>1,100 mg/L 96 h;<br>DAPHNIA MAGNA: EC50> 1,040 mg/L 48 h. |

**Section XIII - Disposal Consideration**

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| **Waste Disposal Method:**<br>Waste Disposal Method: Water contaminated with this product may be sent to a sanitary sewer treatment facility, in accordance with any local agreement, a permitted waste treatment facility or discharge under a permit. Product as is- Incinerate or land dispose in an approved land fill.<br>If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is not applicable.<br>The state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material. |

**Section XIV - Transport information**

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|---|---|
| D.O.T. Proper Shipping Name: N/A | D.O.T. Hazard Class: N/A<br>D.O.T. LABEL: N/A |
| ID No: N/A | Packing Group: N/A |

**Section XV - Regulatory information**

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|---|
| THIS PRODUCT DOES NOT CONTAIN HAZARDOUS SUBSTANCES AT LEVELS WHICH REQUIRE REPORTING. OBEY ALL FEDERAL, STATE OR LOCAL REGULATIONS. |

**Section XVI - Other information**

**NFPA RATINGS:**

| Health | Flammability | Reactivity |
|---|---|---|
| 1 | 0 | 0 |

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The data contained in this material safety data sheet has been prepared based upon an evaluation of the ingredients contained in the product, their concentrations in the product and potential interactions. The information is offered in good faith and is believed to be accurate. It is furnished to the customer who is urged to study it carefully to become aware of hazards, if any, in the storage, handling, use and disposal of the product; and to insure his employees are properly informed and advised of all safety precautions required.

December 6, 2022

Alabama Department of Environmental Management (ADEM)
P.O. Box 301463
Montgomery, AL 36110-2400

Re: Delegation of Authority
Products SE Pipe Line Corporation
Submittals to Alabama Department of Environmental Management

I, John Pannell, am Vice President of Operations of Products (SE) Pipe Line Corporation, a Joint Venture of Kinder Morgan, Inc. Products (SE) Pipe Line Corporation is refined petroleum products system serving the southeastern United States with petroleum product terminals in Alabama and as part of operation related activities, Alabama regulations require Products SE Pipe Line Corporation to submit certain reports and certifications to the Alabama Department of Environmental Management (ADEM).

Pursuant to Alabama regulations, Products (SE) Pipeline Corporation is required to have certain reports and certifications signed by a responsible official, in the case of a corporation, by a principle executive officer of at least the level of vice president. The responsible official can designate a duly authorized representative in writing of which this correspondence satisfies these requirements.

The Products SE Pipe Line Corporation Operations Manager for the Helena, Alabama, Mike Ford, is responsible for the NPDES related activities at the location.

I am hereby authorizing Mr. Ford to be duly authorized representatives to sign and execute any applications, reports, or certifications required for the Helena, Alabama sites. If you have any questions, please contact Mr. Ford at 601-698-3921.

Sincerely,

**Products SE Pipe Line Corporation**

By: John Pannell

John Pannell
Title: Vice President of Operations