

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PERMITTEE: PIKE ROAD SEWER, LLC
5455 TROY HIGHWAY
MONTGOMERY, AL 36116

FACILITY LOCATION: PIKE ROAD CLEAN WATER FACILITY (0.099 MGD)
TROTMAN DRIVE
PIKE ROAD, ALABAMA
MONTGOMERY COUNTY

PERMIT NUMBER: AL0084499

RECEIVING WATERS: CATOMA CREEK

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

ISSUANCE DATE:

EFFECTIVE DATE:

EXPIRATION DATE:

Draft

Alabama Department of Environmental Management
Water Division Chief

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PART I: DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

1. DSN 0011: Treated Domestic Wastewater

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

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq See note (1)	Sample Type	Seasonal See note (2)
Oxygen, Dissolved (DO) (00300) Effluent Gross Value	*****	*****	*****	6.5 Minimum Daily	*****	*****	mg/l	Weekly	Grab	Not Seasonal
pH (00400) Effluent Gross Value	*****	*****	*****	6.0 Minimum Daily	*****	8.5 Maximum Daily	S.U.	Weekly	Grab	Not Seasonal
Solids, Total Suspended (00530) Effluent Gross Value	24.7 Monthly Average	37.1 Weekly Average	lbs/day	*****	30.0 Monthly Average	45.0 Weekly Average	mg/l	Weekly	8-Hr Composite	Not Seasonal
Solids, Total Suspended (00530) Raw Sew/Influent	(Report) Monthly Average	(Report) Weekly Average	lbs/day	*****	(Report) Monthly Average	(Report) Weekly Average	mg/l	Weekly	8-Hr Composite	Not Seasonal
Nitrogen, Ammonia Total (As N) (00610) Effluent Gross Value	0.20 Monthly Average	0.30 Weekly Average	lbs/day	*****	0.25 Monthly Average	0.37 Weekly Average	mg/l	Weekly	8-Hr Composite	S
Nitrogen, Ammonia Total (As N) (00610) Effluent Gross Value	2.06 Monthly Average	3.09 Weekly Average	lbs/day	*****	2.50 Monthly Average	3.75 Weekly Average	mg/l	Weekly	8-Hr Composite	W
Nitrogen, Kjeldahl Total (As N) (00625) See note (5) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	lbs/day	*****	(Report) Monthly Average	(Report) Weekly Average	mg/l	Monthly	8-Hr Composite	S
Nitrite Plus Nitrate Total 1 Det. (As N) (00630) See note (5) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	lbs/day	*****	(Report) Monthly Average	(Report) Weekly Average	mg/l	Monthly	8-Hr Composite	S
Phosphorus, Total (As P) (00665) See note (5) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	lbs/day	*****	(Report) Monthly Average	(Report) Weekly Average	mg/l	Monthly	8-Hr Composite	S
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	(Report) Monthly Average	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Daily	Instantaneous	Not Seasonal

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

- Sample Frequency – See also Part I.B.2
- S = Summer (April – October)
W = Winter (November - March)
ECS = E. coli Summer (May - October)
ECW = E. coli Winter (November - April)
- See Part IV.C. for Total Residual Chlorine (TRC). Monitoring for TRC is applicable if chlorine is utilized for disinfection purposes. If monitoring is not applicable during the monitoring period, enter “*9” on the monthly DMR.
- A measurement of TRC below 0.05 mg/L shall be considered in compliance with the permit limitations above and should be reported as “*B” on the monthly DMR.
- If only one sampling event occurs during a month, the sample result shall be reported on the DMR as both the monthly average, weekly average, and/or daily maximum.

DSN 0011 (Continued): Treated Domestic Wastewater

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

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq See note (1)	Sample Type	Seasonal See note (2)
Chlorine, Total Residual (50060) See notes (3, 4) Effluent Gross Value	*****	*****	*****	*****	0.011 Monthly Average	0.019 Maximum Daily	mg/l	Weekly	Grab	Not Seasonal
E. Coli (51040) Effluent Gross Value	*****	*****	*****	*****	548 Monthly Average	2507 Maximum Daily	col/100mL	Weekly	Grab	ECW
E. Coli (51040) Effluent Gross Value	*****	*****	*****	*****	126 Monthly Average	298 Maximum Daily	col/100mL	Weekly	Grab	ECS
BOD, Carbonaceous 05 Day, 20C (80082) Effluent Gross Value	2.47 Monthly Average	3.71 Weekly Average	lbs/day	*****	3.0 Monthly Average	4.5 Weekly Average	mg/l	Weekly	8-Hr Composite	S
BOD, Carbonaceous 05 Day, 20C (80082) Effluent Gross Value	9.90 Monthly Average	14.8 Weekly Average	lbs/day	*****	12.0 Monthly Average	18.0 Weekly Average	mg/l	Weekly	8-Hr Composite	W
BOD, Carbonaceous 05 Day, 20C (80082) Raw Sew/Influent	(Report) Monthly Average	(Report) Weekly Average	lbs/day	*****	(Report) Monthly Average	(Report) Weekly Average	mg/l	Weekly	8-Hr Composite	Not Seasonal
BOD, Carb-5 Day, 20 Deg C, Percent Remvl (80091) Percent Removal	*****	*****	*****	85.0 Monthly Average Minimum	*****	*****	%	Monthly	Calculated	Not Seasonal
Solids, Suspended Percent Removal (81011) Percent Removal	*****	*****	*****	85.0 Monthly Average Minimum	*****	*****	%	Monthly	Calculated	Not Seasonal

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

- (1) Sample Frequency – See also Part I.B.2
- (2) S = Summer (April – October)
W = Winter (November - March)
ECS = E. coli Summer (May - October)
ECW = E. coli Winter (November - April)
- (3) See Part IV.C. for Total Residual Chlorine (TRC). Monitoring for TRC is applicable if chlorine is utilized for disinfection purposes. If monitoring is not applicable during the monitoring period, enter “*9” on the monthly DMR.
- (4) A measurement of TRC below 0.05 mg/L shall be considered in compliance with the permit limitations above and should be reported as “*B” on the monthly DMR.
- (5) If only one sampling event occurs during a month, the sample result shall be reported on the DMR as both the monthly average, weekly average, and/or daily maximum.

B. DISCHARGE MONITORING AND RECORD KEEPING REQUIREMENTS

1. Representative Sampling

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

2. Measurement Frequency

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

- a. Seven days per week shall mean daily.
- b. Five days per week shall mean any five days of discharge during a calendar weekly period of Sunday through Saturday.
- c. Three days per week shall mean any three days of discharge during a calendar week.
- d. Two days per week shall mean any two days of discharge during a calendar week.
- e. One day per week shall mean any day of discharge during a calendar week.
- f. Two days per month shall mean any two days of discharge during the month that are no less than seven days apart. However, if discharges occur only during one seven-day period in a month, then two days per month shall mean any two days of discharge during that seven day period.
- g. One day per month shall mean any day of discharge during the calendar month.
- h. Quarterly shall mean any day of discharge during each calendar quarter.
- i. The Permittee may increase the frequency of sampling, listed in Provisions I.B.2.a through I.B.2.h; however, all sampling results are to be reported to the Department.

3. Test Procedures

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

- a. For parameters with an EPA established Minimum Level (ML), report the measured value if the analytical result is at or above the ML and report "0" or "*B" for values below the ML. Test procedures for the analysis of pollutants shall conform to 40 CFR Part 136 and guidelines published pursuant to Section 304(h) of the FWPCA, 33 U.S.C. Section 1314(h). If more than one method for analysis of a substance is approved for use, a method having a minimum level lower than the permit limit shall be used. If the minimum level of all methods is higher than the permit limit, the method having the lowest minimum level shall be used and a report of less than the minimum level shall be reported as zero and will constitute compliance, however should EPA approve a method with a lower minimum level during the term of this permit the permittee shall use the newly approved method.
- b. For pollutants parameters without an established ML, an interim ML may be utilized. The interim ML shall be calculated as 3.18 times the Method Detection Level (MDL) calculated pursuant to 40 CFR Part 136, Appendix B.

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

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

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

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

4. Recording of Results

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

- a. The facility name and location, point source number, date, time and exact place of sampling;
- b. The name(s) of person(s) who obtained the samples or measurements;
- c. The dates and times the analyses were performed;
- d. The name(s) of the person(s) who performed the analyses;
- e. The analytical techniques or methods used, including source of method and method number; and
- f. The results of all required analyses.

5. Records Retention and Production

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

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

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

7. Monitoring Equipment and Instrumentation

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

C. DISCHARGE REPORTING REQUIREMENTS

1. Reporting of Monitoring Requirements

- a. The permittee shall conduct the required monitoring in accordance with the following schedule:
 - (1) **MONITORING REQUIRED MORE FREQUENTLY THAN MONTHLY AND MONTHLY** shall be conducted during the first full month following the effective date of coverage under this permit and every month thereafter.
 - (2) **QUARTERLY MONITORING** shall be conducted at least once during each calendar quarter. Calendar quarters are the periods of January through March, April through June, July through September, and October through December. The permittee shall conduct the quarterly monitoring during the first complete calendar quarter following the effective date of this permit and is then required to monitor once during each quarter thereafter. Quarterly monitoring should be reported on the last DMR due for the quarter (i.e., March, June, September and December DMRs).

- (3) **SEMIANNUAL MONITORING** shall be conducted at least once during the period of January through June and at least once during the period of July through December. The permittee shall conduct the semiannual monitoring during the first complete calendar semiannual period following the effective date of this permit and is then required to monitor once during each semiannual period thereafter. Semiannual monitoring may be done anytime during the semiannual period, unless restricted elsewhere in this permit, but it should be reported on the last DMR due for the month of the semiannual period (i.e., June and December DMRs).
 - (4) **ANNUAL MONITORING** shall be conducted at least once during the period of January through December. The permittee shall conduct the annual monitoring during the first complete calendar annual period following the effective date of this permit and is then required to monitor once during each annual period thereafter. Annual monitoring may be done anytime during the year, unless restricted elsewhere in this permit, but it should be reported on the December DMR.
- b. The permittee shall submit discharge monitoring reports (DMRs) in accordance with the following schedule:
- (1) **REPORTS OF MORE FREQUENTLY THAN MONTHLY AND MONTHLY TESTING** shall be submitted on a monthly basis. The first report is due on the 28th day of the month following the month the permit becomes effective. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period, unless otherwise directed by the Department.
 - (2) **REPORTS OF QUARTERLY TESTING** shall be submitted on a quarterly basis. The first report is due on the 28th day of the month following the first complete calendar quarter the permit becomes effective. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period, unless otherwise directed by the Department.
 - (3) **REPORTS OF SEMIANNUAL TESTING** shall be submitted on a semiannual basis. The reports are due on the 28th day of JANUARY and the 28th day of JULY. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period, unless otherwise directed by the Department.
 - (4) **REPORTS OF ANNUAL TESTING** shall be submitted on an annual basis. Unless specified elsewhere in the permit, the first report is due on the 28th day of JANUARY. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period, unless otherwise directed by the Department.
- c. Except as allowed by Provision I.C.1.c.(1) or (2), the permittee shall submit all Discharge Monitoring Reports (DMRs) required by Provision I.C.1.b. electronically.
- (1) If the permittee is unable to complete the electronic submittal of DMR data due to technical problems originating with the Department's electronic system (this could include entry/submittal issues with an entire set of DMRs or individual parameters), the permittee is not relieved of their obligation to submit DMR data to the Department by the date specified in Provision I.C.1.b., unless otherwise directed by the Department.

If the Department's electronic system is down on the 28th day of the month in which the DMR is due or is down for an extended period of time, as determined by the Department, when a DMR is required to be submitted, the permittee may submit the data in an alternate manner and format acceptable to the Department. Preapproved alternate acceptable methods include faxing, e-mailing, mailing, or hand-delivery of data such that they are received by the required reporting date. Within five calendar days of the Department's electronic system resuming operation, the permittee shall enter the data into the Department's electronic system, unless an alternate timeframe is approved by the Department. A comment should be included on the electronic DMR submittal verifying the original submittal date (date of the fax, copy of dated e-mail, or hand-delivery stamped date), if applicable.
 - (2) The permittee may submit a request to the Department for a temporary electronic reporting waiver for DMR submittals. The waiver request should include the permit number; permittee name; facility/site name; facility address; name, address, and contact information for the responsible official or duly authorized representative; a detailed statement regarding the basis for requesting such a waiver; and the duration for which the waiver is requested. Approved electronic reporting waivers are not transferrable.
 - (3) A permittee with an approved electronic reporting waiver for DMRs may submit hard copy DMRs for the period that the approved electronic reporting waiver request is effective. The permittee shall submit the Department-approved DMR forms to the address listed in Provision I.C.1.e.

- (4) If a permittee is allowed to submit a hard copy DMR, the DMR must be legible and bear an original signature. Photo and electronic copies of the signature are not acceptable and shall not satisfy the reporting requirements of this permit.
 - (5) If the permittee, using approved analytical methods as specified in Provision I.B.2, monitors any discharge from a point source for a limited substance identified in Provision I.A. of this permit more frequently than required by this permit, the results of such monitoring shall be included in the calculation and reporting of values on the DMR and the increased frequency shall be indicated on the DMR.
 - (6) In the event no discharge from a point source identified in Provision I.A. of this permit and described more fully in the permittee's application occurs during a monitoring period, the permittee shall report "No Discharge" for such period on the appropriate DMR.
- d. All reports and forms required to be submitted by this permit, the AWPCA and the Department's Rules and Regulations, shall be electronically signed (or, if allowed by the Department, traditionally signed) by a "responsible official" of the permittee as defined in ADEM Administrative Code Rule 335-6-6-.09 or a "duly authorized representative" of such official as defined in ADEM Administrative Code Rule 335-6-6-.09 and shall bear the following certification:
- "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."
- e. Discharge Monitoring Reports required by this permit, the AWPCA, and the Department's Rules that are being submitted in hard copy shall be addressed to:

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

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

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

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

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

Certified and Registered Mail shall be addressed to:

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

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

2. Noncompliance Notifications and Reports

- a. The Permittee shall notify the Department if, for any reason, the Permittee's discharge:
- (1) Does not comply with any daily minimum or maximum discharge limitation for an effluent characteristic specified in Provision I.A. of this permit which is denoted by an "(X)";
 - (2) Potentially threatens human health or welfare;

- (3) Threatens fish or aquatic life;
- (4) Causes an in-stream water quality criterion to be exceeded;
- (5) Does not comply with an applicable toxic pollutant effluent standard or prohibition established under Section 307(a) of the FWPCA, 33 U.S.C. Section 1317(a);
- (6) Contains a quantity of a hazardous substance that may be harmful to public health or welfare under Section 311(b)(4) of the FWPCA, 33 U.S.C. Section 1321(b)(4);
- (7) Exceeds any discharge limitation for an effluent parameter listed in Part I.A. as a result of an unanticipated bypass or upset; or
- (8) Is an unpermitted direct or indirect discharge of a pollutant to a water of the state. (Note that unpermitted discharges properly reported to the Department under any other requirement are not required to be reported under this provision.)

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

- b. If, for any reason, the Permittee's discharge does not comply with any limitation of this permit, then the Permittee shall submit a written report to the Director or Designee, as provided in Provision I.C.2.c below. This report must be submitted with the next Discharge Monitoring Report required to be submitted by Provision I.C.1 of this permit after becoming aware of the occurrence of such noncompliance.
- c. Except for notifications and reports of notifiable SSOs which shall be submitted in accordance with the applicable Provisions of this permit, the Permittee shall submit the reports required under Provisions I.C.2.a. and b. to the Director or Designee on ADEM Form 421, available on the Department's website (<http://www.adem.state.al.us/DeptForms/Form421.pdf>). The completed Form must document the following information:

- (1) A description of the discharge and cause of noncompliance;
- (2) The period of noncompliance, including exact dates, times, and duration of the noncompliance. If the noncompliance is not corrected by the due date of the written report, then the Permittee shall provide an estimated date by which the noncompliance will be corrected; and
- (3) A description of the steps taken by the Permittee and the steps planned to be taken by the Permittee to reduce or eliminate the noncompliant discharge and to prevent its recurrence.

- d. Immediate notification

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

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

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

D. OTHER REPORTING AND NOTIFICATION REQUIREMENTS

1. Anticipated Noncompliance

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

2. Termination of Discharge

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

3. Updating Information

- a. The permittee shall inform the Director of any change in the permittee's mailing address or telephone number or in the permittee's designation of a facility contact or office having the authority and responsibility to prevent and abate violations of the AWPCA, the Department's Rules and the terms and conditions of this permit, in writing, no later than ten (10) days after such change. Upon request of the Director or his designee, the permittee shall furnish the Director with an update of any information provided in the permit application.
- b. If the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information with a written explanation for the mistake and/or omission.

4. Duty to Provide Information

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

E. SCHEDULE OF COMPLIANCE

1. Compliance with discharge limits

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

COMPLIANCE SHALL BE ATTAINED ON THE EFFECTIVE DATE OF THIS PERMIT

2. Schedule

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

PART II: OTHER REQUIREMENTS, RESPONSIBILITIES, AND DUTIES

A. OPERATIONAL AND MANAGEMENT REQUIREMENTS

1. Facilities Operation and Maintenance

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

2. Best Management Practices

- a. Dilution water shall not be added to achieve compliance with discharge limitations except when the Director or his designee has granted prior written authorization for dilution to meet water quality requirements.
- b. The permittee shall prepare, implement, and maintain a Spill Prevention, Control and Countermeasures (SPCC) Plan in accordance with 40 C.F.R. Section 112 if required thereby.
- c. The permittee shall prepare, submit for approval and implement a Best Management Practices (BMP) Plan for containment of any or all process liquids or solids, in a manner such that these materials do not present a significant potential for discharge, if so required by the Director or his designee. When submitted and approved, the BMP Plan shall become a part of this permit and all requirements of the BMP Plan shall become requirements of this permit.

3. Certified Operator

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

B. OTHER RESPONSIBILITIES

1. Duty to Mitigate Adverse Impacts

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

2. Right of Entry and Inspection

- a. The permittee shall allow the Director, or an authorized representative, upon the presentation of proper credentials and other documents as may be required by law to:
 - (1) Enter upon the permittee's premises where a regulated facility or activity or point source is located or conducted, or where records must be kept under the conditions of the permit;
 - (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permits;
 - (3) Inspect any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under the permit; and
 - (4) Sample or monitor, for the purposes of assuring permit compliance or as otherwise authorized by the AWPCA, any substances or parameters at any location.

C. BYPASS AND UPSET

1. Bypass

- a. Any bypass is prohibited except as provided in b. and c. below:
- b. A bypass is not prohibited if:
 - (1) It does not cause any discharge limitation specified in Provision I. A. of this permit to be exceeded;

- (2) It enters the same receiving stream as the permitted outfall; and
 - (3) It is necessary for essential maintenance of a treatment or control facility or system to assure efficient operation of such facility or system.
- c. A bypass is not prohibited and need not meet the discharge limitations specified in Provision I. A. of this permit if:
- (1) It is unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (2) There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime (this condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance); and
 - (3) The permittee submits a written request for authorization to bypass to the Director at least ten (10) days prior to the anticipated bypass (if possible), the permittee is granted such authorization, and the permittee complies with any conditions imposed by the Director to minimize any adverse impact on human health or the environment resulting from the bypass.
- d. The permittee has the burden of establishing that each of the conditions of Provision II. C. 1. b. or c. have been met to qualify for an exception to the general prohibition against bypassing contained in a. and an exemption, where applicable, from the discharge limitations specified in Provision I. A. of this permit.

2. Upset

- a. A discharge which results from an upset need not meet the discharge limitations specified in Provision I. A. of this permit if:
- (1) No later than 24-hours after becoming aware of the occurrence of the upset, the Permittee orally reports the occurrence and circumstances of the upset to the Director or his designee; and
 - (2) No later than five (5) days after becoming aware of the occurrence of the upset, the Permittee furnishes the Director with evidence, including properly signed, contemporaneous operating logs, or other relevant evidence, demonstrating that:
 - (i) An upset occurred;
 - (ii) The Permittee can identify the specific cause(s) of the upset;
 - (iii) The Permittee's facility was being properly operated at the time of the upset; and
 - (iv) The Permittee promptly took all reasonable steps to minimize any adverse impact on human health or the environment resulting from the upset.
- b. The permittee has the burden of establishing that each of the conditions of Provision II. C. 2. a. of this permit have been met to qualify for an exemption from the discharge limitations specified in Provision I. A. of this permit.

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

1. Duty to Comply

- a. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the AWPCA and the FWPCA and is grounds for enforcement action, permit termination, revocation and reissuance, suspension, modification, or denial of a permit renewal application.
- b. The necessity to halt or reduce production or other activities in order to maintain compliance with the conditions of the permit shall not be a defense for a permittee in an enforcement action.
- c. The discharge of a pollutant from a source not specifically identified in the permit application for this permit and not specifically included in the description of an outfall in this permit is not authorized and shall constitute noncompliance with this permit.
- d. The permittee shall take all reasonable steps, including cessation of production or other activities, to minimize or prevent any violation of this permit or to minimize or prevent any adverse impact of any permit violation.

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

2. Removed Substances

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

3. Loss or Failure of Treatment Facilities

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

4. Compliance with Statutes and Rules

- a. This permit has been issued under ADEM Administrative Code, Chapter 335-6-6. All provisions of this chapter, that are applicable to this permit, are hereby made a part of this permit. A copy of this chapter may be obtained for a small charge from the Office of General Counsel, Alabama Department of Environmental Management, 1400 Coliseum Boulevard Montgomery, Alabama 36110-2059.
- b. This permit does not authorize the noncompliance with or violation of any Laws of the State of Alabama or the United States of America or any regulations or rules implementing such laws. FWPCA, 33 U.S.C. Section 1319, and Code of Alabama 1975, Section 22-22-14.

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

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

- a. If the permittee intends to continue to discharge beyond the expiration date of this permit, the permittee shall file a complete permit application for reissuance of this permit at least 180 days prior to its expiration. If the permittee does not intend to continue discharge beyond the expiration of this permit, the permittee shall submit written notification of this intent which shall be signed by an individual meeting the signatory requirements for a permit application as set forth in ADEM Administrative Code Rule 335-6-6-.09.
- b. Failure of the permittee to apply for reissuance at least 180 days prior to permit expiration will void the automatic continuation of the expiring permit provided by ADEM Administrative Code Rule 335-6-6-.06 and should the permit not be reissued for any reason any discharge after expiration of this permit will be an unpermitted discharge.

2. Change in Discharge

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

3. Transfer of Permit

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

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

4. Permit Modification and Revocation

- a. This permit may be modified or revoked and reissued, in whole or in part, during its term for cause, including but not limited to, the following:
 - (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to revoke and reissue this permit instead of terminating the permit;
 - (2) If a request to transfer this permit has been received, the Director may decide to revoke and reissue or to modify the permit; or
 - (3) If modification or revocation and reissuance is requested by the permittee and cause exists, the Director may grant the request.
- b. This permit may be modified during its term for cause, including but not limited to, the following:
 - (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to modify this permit instead of terminating this permit;
 - (2) There are material and substantial alterations or additions to the facility or activity generating wastewater which occurred after permit issuance which justify the application of permit conditions that are different or absent in the existing permit;
 - (3) The Director has received new information that was not available at the time of permit issuance and that would have justified the application of different permit conditions at the time of issuance;
 - (4) A new or revised requirement(s) of any applicable standard or limitation is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA;
 - (5) Errors in calculation of discharge limitations or typographical or clerical errors were made;
 - (6) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, when the standards or regulations on which the permit was based have been changed by promulgation of amended standards or regulations or by judicial decision after the permit was issued;
 - (7) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, permits may be modified to change compliance schedules;
 - (8) To agree with a granted variance under 301(c), 301(g), 301(h), 301(k), or 316(a) of the FWPCA or for fundamentally different factors;
 - (9) To incorporate an applicable 307(a) FWPCA toxic effluent standard or prohibition;
 - (10) When required by the reopener conditions in this permit;
 - (11) When required under 40 CFR 403.8(e) (compliance schedule for development of pretreatment program);
 - (12) Upon failure of the state to notify, as required by Section 402(b)(3) of the FWPCA, another state whose waters may be affected by a discharge permitted by this permit;
 - (13) When required to correct technical mistakes, such as errors in calculation, or mistaken interpretations of law made in determining permit conditions; or
 - (14) When requested by the permittee and the Director determines that the modification has cause and will not result in a violation of federal or state law, regulations or rules; or

5. Termination

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

- a. Violation of any term or condition of this permit;
- b. The permittee's misrepresentation or failure to disclose fully all relevant facts in the permit application or during the permit issuance process or the permittee's misrepresentation of any relevant facts at any time;
- c. Materially false or inaccurate statements or information in the permit application or the permit;

- d. A change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge;
- e. The permittee's discharge threatens human life or welfare or the maintenance of water quality standards;
- f. Permanent closure of the facility generating the wastewater permitted to be discharged by this permit or permanent cessation of wastewater discharge;
- g. New or revised requirements of any applicable standard or limitation that is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA that the Director determines cannot be complied with by the permittee.
- h. Any other cause allowed by the ADEM Administrative Code, Chapter 335-6-6.

6. Suspension

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

7. Stay

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

F. COMPLIANCE WITH TOXIC POLLUTANT STANDARD OR PROHIBITION

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

G. NOTICE TO DIRECTOR OF INDUSTRIAL USERS

1. The permittee shall not allow the introduction of wastewater, other than domestic wastewater, from a new indirect discharger prior to approval and permitting, if applicable, of the discharge by the Department.
2. The permittee shall not allow an existing indirect discharger to increase the quantity or change the character of its wastewater, other than domestic wastewater, prior to approval and permitting, if applicable, of the increased discharge by the Department.
3. The permittee shall report to the Department any adverse impact caused or believed to be caused by an indirect discharger on the treatment process, quality of discharged water or quality of sludge. Such report shall be submitted within seven days of the permittee becoming aware of the adverse impacts.

H. PROHIBITIONS

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

1. Pollutants which may create a fire or explosive hazard, including, but not limited to, waste streams with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40 CFR 261.21;
2. Pollutants which may cause corrosive structural damage to the treatment works, but in no case discharges with a pH lower than 5.0;
3. Solid or viscous pollutants in amounts which may cause obstruction to the flow in sewers, or other interference in the treatment works;
4. Any pollutant, including oxygen demanding pollutants (BOD, etc.) of such volume or strength as to cause interference in the treatment works;

5. Heat in amounts which may inhibit biological activity in the treatment plant resulting in interference but in no case in such quantities that the temperature of the influent, at the treatment plant, exceeds 40 degrees centigrade or 104 degrees Fahrenheit;
6. Pollutants which may result in the presence of toxic gases, vapors, or fumes within the treatment works in a quantity that may cause acute worker health and safety problems;
7. Unless specifically authorized by this permit, any pollutants not generated at the facility for which this permit was issued; or
8. Petroleum oil, biodegradable cutting oil, or products of mineral oil origin in amounts that will cause pass through or interference.

PART III: ADDITIONAL REQUIREMENTS, CONDITIONS, AND LIMITATIONS

A. CIVIL AND CRIMINAL LIABILITY

1. Tampering

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

2. False Statements

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

3. Permit Enforcement

- a. Any NPDES permit issued or reissued by the Department is a permit for the purpose of the AWPCA and the FWPCA and as such any terms, conditions, or limitations of the permit are enforceable under state and federal law.
- b. Any person required to have a NPDES permit pursuant to ADEM Administrative Code Chapter 335-6-6 and who discharges pollutants without said permit, who violates the conditions of said permit, who discharges pollutants in a manner not authorized by the permit, or who violates applicable orders of the Department or any applicable rule or standard of the Department, is subject to any one or combination of the following enforcement actions under applicable state statutes:
 - (1) An administrative order requiring abatement, compliance, mitigation, cessation, clean-up, and/or penalties;
 - (2) An action for damages;
 - (3) An action for injunctive relief; or
 - (4) An action for penalties.
- c. If the permittee is not in compliance with the conditions of an expiring or expired permit the Director may choose to do any or all of the following provided the permittee has made a timely and complete application for reissuance of the permit:
 - (1) Initiate enforcement action based upon the permit which has been continued;
 - (2) Issue a notice of intent to deny the permit reissuance. If the permit is denied, the owner or operator would then be required to cease the activities authorized by the continued permit or be subject to enforcement action for operating without a permit;
 - (3) Reissue the new permit with appropriate conditions; or
 - (4) Take other actions authorized by these rules and AWPCA.

4. Relief from Liability

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

B. OIL AND HAZARDOUS SUBSTANCE LIABILITY

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

C. PROPERTY AND OTHER RIGHTS

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

D. AVAILABILITY OF REPORTS

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

E. EXPIRATION OF PERMITS FOR NEW OR INCREASED DISCHARGES

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

F. COMPLIANCE WITH WATER QUALITY STANDARDS

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

G. GROUNDWATER

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

H. DEFINITIONS

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

23. **Grab Sample** – means a single influent or effluent portion which is not a composite sample. The sample(s) shall be collected at the period(s) most representative of the discharge.
24. **Indirect Discharger** – means a nondomestic discharger who discharges pollutants to a publicly owned treatment works or a privately owned treatment facility operated by another person.
25. **Industrial User** – means those industries identified in the Standard Industrial Classification manual, Bureau of the Budget 1967, as amended and supplemented, under the category “Division D – Manufacturing” and such other classes of significant waste producers as, by regulation, the Director deems appropriate.
26. **MGD** – means million gallons per day.
27. **Monthly Average** – means the arithmetic mean of all the composite or grab samples taken for the daily discharges collected in one month period. The monthly average for flow is the arithmetic mean of all flow measurements taken in a one month period.
28. **New Discharger** – means a person, owning or operating any building, structure, facility, or installation:
 - a) From which there is or may be a discharge of pollutants;
 - b) That did not commence the discharge of pollutants prior to August 13, 1979, and which is not a new source; and
 - c) Which has never received a final effective NPDES permit for dischargers at that site.
29. **NH3-N** – means the pollutant parameter ammonia, measured as nitrogen.
30. **Notifiable sanitary sewer overflow** - means an overflow, spill, release or diversion of wastewater from a sanitary sewer system that:
 - a) Reaches a surface water of the State; or
 - b) May imminently and substantially endanger human health based on potential for public exposure including but not limited to close proximity to public or private water supply wells or in areas where human contact would be likely to occur.
31. **Permit application** - means forms and additional information that is required by ADEM Administrative Code Rule 335-6-6-.08 and applicable permit fees.
32. **Point source** - means "any discernible, confined and discrete conveyance, including but not limited to any pipe, channel, ditch, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, . . . from which pollutants are or may be discharged." Section 502(14) of the FWPCA, 33 U.S.C. Section 1362(14).
33. **Pollutant** - includes for purposes of this permit, but is not limited to, those pollutants specified in Code of Alabama 1975, Section 22-22-1(b)(3) and those effluent characteristics specified in Provision I. A. of this permit.
34. **Privately Owned Treatment Works** – means any devices or system which is used to treat wastes from any facility whose operator is not the operator of the treatment works, and which is not a “POTW”.
35. **Publicly Owned Treatment Works (POTW)** – means a wastewater collection and treatment facility owned by the State, municipality, regional entity composed of two or more municipalities, or another entity created by the State or local authority for the purpose of collecting and treating municipal wastewater.
36. **Receiving Stream** – means the “waters” receiving a “discharge” from a “point source”.
37. **Severe property damage** - means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
38. **Significant Source** – means a source which discharges 0.025 MGD or more to a POTW or greater than five percent of the treatment work’s capacity, or a source which is a primary industry as defined by the U.S. EPA or which discharges a priority or toxic pollutant.
39. **TKN** – means the pollutant parameter Total Kjeldahl Nitrogen.
40. **TON** – means the pollutant parameter Total Organic Nitrogen.
41. **TRC** – means Total Residual Chlorine.

42. **TSS** – means the pollutant parameter Total Suspended Solids.
43. **24HC** – means 24-hour composite sample, including any of the following:
- a) The mixing of at least 8 equal volume samples collected at constant time intervals of not more than 2 hours over a period of 24 hours;
 - b) A sample collected over a consecutive 24-hour period using an automatic sampler composite to one sample. As a minimum, samples shall be collected hourly and each shall be no more than one twenty-fourth (1/24) of the total sample volume collected;
 - c) A sample collected over a consecutive 24-hour period using an automatic composite sampler composited proportional to flow.
44. **Upset** - means an exceptional incident in which there is an unintentional and temporary noncompliance with technology-based permit discharge limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
45. **Waters** - means "[a]ll waters of any river, stream, watercourse, pond, lake, coastal, ground or surface water, wholly or partially within the state, natural or artificial. This does not include waters which are entirely confined and retained completely upon the property of a single individual, partnership or corporation unless such waters are used in interstate commerce." Code of Alabama 1975, Section 22-22-1(b)(2). Waters "include all navigable waters" as defined in Section 502(7) of the FWPCA, 22 U.S.C. Section 1362(7), which are within the State of Alabama.
46. **Week** - means the period beginning at twelve midnight Saturday and ending at twelve midnight the following Saturday.
47. **Weekly (7-day and calendar week) Average** – is the arithmetic mean of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. The calendar week is defined as beginning on Sunday and ending on Saturday. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for the calendar week shall be included in the data for the month that contains the Saturday.

I. SEVERABILITY

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

PART IV: SPECIFIC REQUIREMENTS, CONDITIONS, AND LIMITATIONS

A. SLUDGE MANAGEMENT PRACTICES

1. Applicability

- a. Provisions of Provision IV.A. apply to a sewage sludge generated or treated in treatment works that is applied to agricultural and non-agricultural land, or that is otherwise distributed, marketed, incinerated, or disposed in landfills or surface disposal sites.
- b. Provisions of Provision IV.A. do not apply to:
 - (1) Sewage sludge generated or treated in a privately owned treatment works operated in conjunction with industrial manufacturing and processing facilities and which receive no domestic wastewater.
 - (2) Sewage sludge that is stored in surface impoundments located at the treatment works prior to ultimate disposal.

2. Submitting Information

- a. If applicable, the Permittee must submit annually with its Municipal Water Pollution Prevention (MWPP) report the following:
 - (1) Type of sludge stabilization/digestion method;
 - (2) Daily or annual sludge production (dry weight basis);
 - (3) Ultimate sludge disposal practice(s).
- b. The Permittee shall provide sludge inventory data to the Director as requested. These data may include, but are not limited to, sludge quantity and quality reported in Provision IV.A.2.a as well as other specific analyses required to comply with State and Federal laws regarding solid and hazardous waste disposal.
- c. The Permittee shall give prior notice to the Director of at least 30 days of any change planned in the Permittee's sludge disposal practices.

3. Reopener or Modification

- a. Upon review of information provided by the Permittee as required by Provision IV.A.2. or, based on the results of an on-site inspection, the permit shall be subject to modification to incorporate appropriate requirements.
- b. If an applicable "acceptable management practice" or if a numerical limitation for a pollutant in sewage sludge promulgated under Section 405 of FWPCA is more stringent than the sludge pollutant limit or acceptable management practice in this permit. This permit shall be modified or revoked or reissued to conform to requirements promulgated under Section 405. The Permittee shall comply with the limitations no later than the compliance deadline specified in applicable regulations as required by Section 405 of FWPCA.

B. EFFLUENT TOXICITY TESTING REOPENER

Upon notification under Part II.G. of any newly introduced toxic industrial wastewaters, the Director may reopen the permit to include effluent toxicity limitations and testing requirements.

C. TOTAL RESIDUAL CHLORINE (TRC) REQUIREMENTS

1. If chlorine is not utilized for disinfection purposes, TRC monitoring under Part I of this Permit is not required. If TRC monitoring is not required (conditional monitoring), "*9" should be reported on the DMR forms.
2. Testing for TRC shall be conducted according to either the amperometric titration method or the DPD colorimetric method as specified in Section 408(C) or (E), Standards Methods for the Examination of Water and Wastewater, 18th edition. If the analytical result is less than the detection level or a value otherwise indicated in this permit, the Permittee shall report on the DMR form "*B" or "0". The Permittee shall then be considered to be in compliance with the daily maximum concentration limit for TRC.
3. This permit contains a maximum allowable TRC level in the effluent. The Permittee is responsible for determining the minimum TRC level needed in the chlorine contact chamber to comply with E.coli limits. The effluent shall be dechlorinated if necessary to meet the maximum allowable effluent TRC level.

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

D. PLANT CLASSIFICATION

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

E. SANITARY SEWER OVERFLOW RESPONSE PLAN

1. SSO Response Plan

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

a. General Information

- (1) Approximate population of City/Town, if applicable
- (2) Approximate number of customers served by the Permittee
- (3) Identification of any subbasins designated by the Permittee, if applicable
- (4) Identification of estimated linear feet of sanitary sewers
- (5) Number of Pump/Lift Stations in the collection system

b. Responsibility Information

- (1) The title(s) and contact information of key position(s) who will coordinate the SSO response, including information for a backup coordinator in the event that the primary SSO coordinator is unavailable. The SSO coordinator is the person responsible for assessing the SSO and initiating a series of response actions based on the type, severity, and destination of the SSO, except for routine SSOs for which the coordinator may pre-approve written procedures. Routine SSOs are those for which the corrective action procedures are generally consistent.
- (2) The title(s), and contact information of key position(s) who will respond to SSOs, including information for backup responder(s) in the event the primary responder(s) are unavailable (i.e., position(s) who provide notification to the Department, the public, the county health department, and other affected entities such as public water systems; position(s) responsible for organizing crews for response; position(s) responsible for addressing public inquiries)

c. Public Reporting of SSOs

- (1) Contact information for the public to report an SSO to the Permittee, during both normal and outside of normal business hours (e.g., telephone number, website, email address, etc.)
- (2) Information requested from the person reporting an SSO to assist the Permittee in identifying the SSO (e.g., date, time, location, contact information)
- (3) Procedures for communication of the SSO report to the appropriate positions for follow-up investigation and response, if necessary

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

e. Public Notification Methods for SSOs

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

- (a) If signage is a feasible method for public notification, procedures for use and removal of signage (e.g., availability and maintenance of signs, appropriate duration of postings)
- (2) Minimum information to be included in public notifications (e.g., identification that an SSO has occurred, date, duration if known, estimated volume if known, location of the SSO by street address or other appropriate method, initial destination of the SSO)
- (3) Procedures developed by the Permittee for determining the appropriate public notification method(s) based upon the potential for public exposure to health risks associated with the SSO
- f. Date of the SSO Response Plan, dates of all modifications and/or reviews, the title and signature of the reviewer(s) for each date and the signature of the responsible official or the appropriate designee.

2. SSO Response Plan Implementation

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

3. Department Review of the SSO Response Plan

- a. When requested by the Director or his designee, the Permittee shall make the SSO Response Plan available for review by the Department.
- b. Upon review, the Director or his designee may notify the Permittee that the SSO Response Plan is deficient and require modification of the Plan.
- c. Within thirty days of receipt of notification, or an alternate timeframe as approved by the Department, the Permittee shall modify any SSO Response Plan deficiency identified by the Director or his designee and shall certify to the Department that the modification has been made.

4. SSO Response Plan Administrative Procedures

- a. The Permittee shall maintain a copy of the SSO Response Plan at the permitted facility or an alternate location approved by the Department in writing and shall make it available for inspection by the Department.
- b. The Permittee shall make a copy of the SSO Response Plan available to the public upon written request within 30 days of such request. The Permittee may redact information which may present security issues, such as location of public water supplies, identification of specific details of vulnerabilities, employee information, etc.
- c. The Permittee shall provide training for any personnel required to implement the SSO Response Plan and shall retain at the facility documentation of such training. This documentation shall be available for inspection by the Department. Training shall be provided for existing personnel prior to the date by which implementation of the SSO Response Plan is required and for new personnel as soon as possible. Should significant revisions be made to the SSO Response Plan, training regarding the revisions shall be conducted as soon as possible.
- d. **The Permittee shall complete a review and evaluation of the SSO Response Plan at least once every three years. Documentation of the SSO Response Plan review and evaluation shall be signed and dated by the responsible official or the appropriate designee as part of the SSO Response Plan.**

NPDES PERMIT RATIONALE

NPDES Permit No: **AL0084499**

Date: January 13, 2025

Revised Date: August 14, 2025

September 25, 2025

Permit Applicant: Pike Road Sewer, LLC
5455 Troy Highway
Montgomery, AL 36116

Location: Pike Road Clean Water Facility
Trotman Drive
Pike Road, AL 36116
Montgomery County

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

Basis for Limitations: Water Quality Model: CBOD₅, NH₃N, and DO
Reissuance with no modification: Not Applicable
Instream calculation at 7Q10: IWC $\approx$ 100%
Toxicity based: TRC
Secondary Treatment Levels: TSS and Percent Removals
Other (described below): E. coli and pH

Design Flow in Million Gallons per Day: 0.099 MGD

Major: No

Description of Discharge:

Feature ID	Description	Receiving Water	Waterbody Use Classification	303(d)	TMDL
001	Treated Domestic Wastewater	Catoma Creek	Fish and Wildlife (F&W)	No	Yes

Discussion: This is an initial issuance of an NPDES permit for a proposed Pike Road Clean Water Facility (CWF) that will discharge treated domestic wastewater to Catoma Creek, in the Alabama River Basin.

This discharge limits for Five Day Carbonaceous Biochemical Oxygen Demand (CBOD₅), Total Ammonia Nitrogen (NH₃N), and Dissolved Oxygen (DO) were developed by the Municipal Section based on a Waste Load Allocation (WLA) model performed Jacobs on July 19, 2024, and reviewed by the Department's Water Quality Branch on November 8, 2024.

The summer (April through October) and winter (November through March) monthly average limits CBOD₅ are 3.0 mg/L and 12.0 mg/L, respectively; while the summer and winter monthly average limits for NH₃N are 0.25 mg/L and 2.5 mg/L, respectively. Dissolved Oxygen has a daily minimum limit of 6.5 mg/L.

The pH limits were developed in accordance with the Water-Use designation of the receiving stream and the Municipal Section's Permit Development Guidance. The daily minimum and maximum pH limits are 6.0 s.u. and 8.5 s.u., respectively.

The monthly average Total Suspended Solids (TSS) limit is established at 30.0 mg/L in accordance with ADEM's Permit Development Rationale and 40 CFR 133.102. Minimum percent removal limits of 85.0 percent are imposed for both CBOD₅ and TSS in accordance with 40 CFR 133.102.

Because this is a minor facility (design capacity less than 1.0 MGD) treating only domestic wastewater with no industrial wastewater contributions, no potential toxicity concerns are anticipated and thus there is no need to impose chronic or acute bioassay testing under this permit.

This segment of the receiving stream is Catoma Creek, and it is a Tier II stream. The stream is not on the current 303(d) list; however, there are August 24, 2005 and September 23, 2009 Total maximum Daily Loads (TMDLs) for Organic Enrichment/Low Dissolved Oxygen (OE/DO) and pathogens (Fecal Coliform). The Pathogens TMDL does not require any FC reductions for this facility (the TMDL requires that in-stream water quality criteria be met, and the permit limits already meet the water quality criteria for pathogens). The Department has received correspondence from the United States Environmental Protection Agency indicating that, for waters with pathogen TMDLs already established, the Department may replace the FC limits with E. coli limits. As for the OE/DO TMDL, there is no load reduction applied to any municipal wastewater treatment facility given that their contribution and impact to the impaired stream segment was not determined significant.

A narrative RPA was conducted regarding the nutrient contributions expected from the treatment facility. At this time, the Municipal Section, in consultation with the Department's Water Quality Branch, has determined that this discharge should not cause or contribute to a nutrient impairment based upon current assessments of the available information. The Permittee is required to monitor and report effluent test results for Total Kjeldahl Nitrogen (TKN), Nitrite plus Nitrate (NO₂+NO₃), and Total Phosphorus (TP) during the summer season (April – October). Monitoring for these nutrient-related parameters is imposed so that sufficient information will be available regarding the nutrient contribution from this point source, should it be necessary at some later time to impose nutrient limits on this discharge.

The imposed E. coli limits were determined based on the water-use classification of the receiving stream. Since Catoma Creek is classified as Fish & Wildlife, the limits for May through October are 126 col/100 mL (monthly average) and 298 col/100 mL (daily maximum), while the limits for November through April are 548 col/100 mL (monthly average) and 2507 col/100 mL (daily maximum).

The monthly average and daily maximum limits of 0.011 mg/L and 0.019 mg/L, respectively, for Total Residual Chlorine (TRC) are being imposed in this permit. The TRC limits were developed based on EPA suggested Water Quality (WQ) criteria which considers the available dilution in the receiving stream. If monitoring is not applicable during the monitoring period, enter *9 on the monthly DMR. In accordance with a letter date August 11, 1998 from EPA Headquarters and a 1991 memorandum from EPA Region 4's Environmental Services Division (ESD), due to testing and method detection limitations, a Total Residual Chlorine measurement below 0.05 mg/L shall be considered below detection for compliance purposes.

The monitoring frequency for most parameters is once per week. The monitoring frequency for nutrient-related parameters is once per month during the summer season (April – October). Flow is to be monitored instantaneously daily. Percent removals for TSS and CBOD₅ are to be calculated monthly.

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 for a new discharge to a Tier II waterbody, so the applicant is required to demonstrate that the discharge is necessary for economic and social development. The applicant did demonstrate that the discharge is necessary for economic and social development (See Anti-deg attachment).

Prepared by: Torbert

Revised August 14, 2025

The Permit was revised to reflect the Permittee's request to add seasonal limits for CBOD₅ and NH₃N. This revision is based on a WLA model reviewed by the Department's Water Branch on July 22, 2025. The revised monthly average limits for CBOD₅ summer (April – October) and winter (November – March) are 3.0 mg/L and 12.0 mg/L, respectively. The monthly average limits for NH₃N for summer (April – October) and winter (November – March) are 0.25 mg/L and 2.5 mg/L, respectively.

Revised September 25, 2025

The Permit was revised to correct the summer and winter limits for CBOD₅ and NH₃N.

Prepared by: Torbert

TOXICITY AND DISINFECTION RATIONALE

Facility Name:	Pike Road CWF	
NPDES Permit Number:	AL0084499	
Receiving Stream:	Catoma Creek	
Facility Design Flow (Qw):	0.099 MGD	
Receiving Stream 7Q10:	0.000 cfs	
Receiving Stream 1Q10:	0.000 cfs	
Winter Headwater Flow (WHF):	0.31 cfs	
Summer Temperature for CCC:	30 deg. Celsius	
Winter Temperature for CCC:	20 deg. Celsius	
Headwater Background NH3-N Level:	0.11 mg/l	
Receiving Stream pH:	7.0 s.u.	
Headwater Background FC Level (summer):	N/A.	(Only applicable for facilities with diffusers.)
(winter):	N/A.	

The Stream Dilution Ration (SDR) is calculated using the 7Q10 for all stream classifications.

$$\text{Stream Dilution Ration (SDR)} = \frac{Q_w}{7Q_{10} + Q_w} = 100.00\%$$

AMMONIA TOXICITY LIMITATIONS

Toxicity-based ammonia limits are calculated in accordance with the Ammonia Toxicity Protocol and the General Guidance for *Writing Water Quality Based Toxicity Permits*.

If the Limiting Dilution is less than 1%, the waterbody is considered stream-dominated and the CMC applies.

If the Limiting Dilution is greater than 1%, the waterbody is considered effluent-dominated and the CCC applies.

$$\begin{aligned} \text{Limiting Dilution} &= \frac{Q_w}{7Q_{10} + Q_w} \\ &= 100.00\% \quad \text{Effluent-Dominated, CCC Applies} \end{aligned}$$

Criterion Maximum Concentration (CMC): $CMC = 0.411 / (1 + 10^{(7.204 - pH)}) + 58.4 / (1 + 10^{(pH - 7.204)})$

Criterion Continuous Concentration (CCC): $CCC = [0.0577 / (1 + 10^{(7.688 - pH)}) + 2.487 / (1 + 10^{(pH - 7.688)})] * \text{Min}[2.85, 1.45 * 10^{(0.028 * (25 - T))}]$

	<u>CMC</u>	<u>CCC</u>
Allowable Summer Instream NH3-N:	36.09 mg/l	2.18 mg/l
Allowable Winter Instream NH3-N:	36.09 mg/l	4.15 mg/l

$$\begin{aligned} \text{Summer NH3-N Toxicity Limit} &= \frac{[(\text{Allowable Instream NH3-N}) * (7Q_{10} + Q_w)] - [(\text{Headwater NH3-N}) * (7Q_{10})]}{Q_w} \\ &= 2.2 \text{ mg/l NH3-N at 7Q10} \end{aligned}$$

$$\begin{aligned} \text{Winter NH3-N Toxicity Limit} &= \frac{[(\text{Allowable Instream NH3-N}) * (WHF + Q_w)] - [(\text{Headwater NH3-N}) * (WHF)]}{Q_w} \\ &= 12.4 \text{ mg/l NH3-N at Winter Flow} \end{aligned}$$

The ammonia limits established in the permit will be the lesser of the DO-based ammonia limit (from the wasteload allocation model) or the toxicity limits calculated above.

	<u>DO-based NH3-N limit</u>	<u>Toxicity-based NH3-N limit</u>
Summer	0.25 mg/l NH3-N	2.20 mg/l NH3-N
Winter	2.50 mg/l NH3-N	12.40 mg/l NH3-N

Summer: The DO based limit of 0.25 mg/l NH3-N applies.

Winter: The DO based limit of 2.50 mg/l NH3-N applies.

TOXICITY TESTING REQUIREMENTS (REFERENCE: MUNICIPAL BRANCH TOXICITY PERMITTING STRATEGY)

The following factors trigger toxicity testing requirements:

1. Facility design flow is equal to or greater than 1.0 MGD (major facility).
2. There are significant industrial contributors (SID permits).

Acute toxicity testing is specified for A&I receiving streams, or for stream dilution ratios of 1% or less.

Chronic toxicity testing is specified for all other situations requiring toxicity testing.

This is a minor facility ($Q_w < 1.0$ MGD) with no SID permits. No toxicity testing is required.

$$\text{Instream Waste Concentration (IWC)} = \frac{Q_w}{7Q_{10} + Q_w} = 100.00\% \quad \text{Note: This number will be rounded up for toxicity testing purposes.}$$

DISINFECTION REQUIREMENTS

Bacteria limits are required, and will be the water quality limit for the receiving stream, except where diffusers are used the limit may be adjusted for the dilution provided by the diffuser.

See the attached Disinfection Guidance for applicable stream standards.

(Non-coastal limits apply)

Applicable Stream Classification: **Fish & Wildlife**

Disinfection Type: **Chlorination**

Limit calculation method: **Limits based on meeting stream standards at the point of discharge.**

	Stream Standard (colonies/100ml)	Effluent Limit (colonies/100ml)
<u>E. Coli (applies to Non-coastal and Shellfish Harvesting Coastal)</u>		
Monthly limit as monthly average (November through April):	548	548
Monthly limit as monthly average (May through October):	126	126
Daily Max (November through April):	2507	2507
Daily Max (May through October):	298	298
<u>Enterococci (applies to Coastal)</u>		
Monthly limit as geometric mean (November through April):	Not applicable	Not applicable
Monthly limit as geometric mean (May through October):	Not applicable	Not applicable
Daily Max (November through April):	Not applicable	Not applicable
Daily Max (May through October):	Not applicable	Not applicable

MAXIMUM ALLOWABLE CHLORINATION LIMITS

Toxicity-based chlorine limits are calculated in accordance with the General Guidance for Writing Water Quality Based Toxicity Permits.

Chlorine has been shown to be acutely toxic at 0.019 mg/l and chronically toxic at 0.011 mg/l.

Maximum allowable TRC in effluent:	0.011 mg/l (chronic)	(0.011)/(SDR)
Maximum allowable TRC in effluent:	0.019 mg/l (acute)	(0.019)/(SDR)

NOTE: A maximum chlorine limit will be imposed such that the instream concentration will not exceed acutely toxic concentrations in A & I streams and chronically toxic concentrations in all other streams, but may not exceed 1.0 mg/l.

Prepared By:

Shanda Torbert

Date:

8/14/2025

Waste Load Allocation Summary

Page 1

REQUEST INFORMATION

Request Number: 4057

From:	Shanda Torbert	In Branch/Section	Municipal
Date Submitted	3/25/2025	Date Required	4/24/2025
FUND Code	605		
Date Permit application received by NPDES program		7/29/2024	
Receiving Waterbody	Catoma Creek		
Previous Stream Name			
Facility Name	Pike Road CWF	(Name of Discharger-WQ will use to file)	
		Previous Discharger Name	
River Basin	Alabama	Outfall Latitude	32.256478 (decimal degrees)
*County	Montgomery	Outfall Longitude	-86.174308 (decimal degrees)
Permit Number	AL0084499	Permit Type	New Discharge and Permit
		Permit Status	Proposed
		Type of Discharger	SEMI-PUBLIC/PRIVATE
Do other discharges exist that may impact the model?		☐ Yes ☒ No	

If yes, impacting dischargers names.

Impacting dischargers permit numbers.

Existing Discharge Design Flow 0.099 MGD

Proposed Discharge Design Flow 0.099 MGD

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

Comments included

☒ Yes ☐ No

Information Verified By

KDS

Year File Was Created

Response ID Number 2038

Lat/Long Method GPS

12 Digit HUC Code 031502010305

Use Classification F&W

Site Visit Completed? ☒ Yes ☐ No

Date of Site Visit 9/10/2024

Waterbody Impaired? ☐ Yes ☒ No

Date of WLA Response 7/25/2025

Antidegradation ☒ Yes ☐ No

Approved TMDL?

☒ Yes ☐ No

Waterbody Tier Level Tier II

Use Support Category 2B

Approval Date of TMDL 9/23/2009

Waste Load Allocation Information

Modeled Reach Length 17.04

Miles

Date of Allocation 7/22/2025

Name of Model Used SWQM

Allocation Type 2 Seasons

Model Completed by Jacobs

Type of Model Used Desk-top

Allocation Developed by Consultant

Waste Load Allocation Summary

Page 2

Annual Effluent Limits	Conventional Parameters				Other Parameters			
	Qw	0.099	MGD	Qw	0.099	MGD	Qw	MGD
	Season	Summer	Season	Winter	Season		Season	
	From	May	From	Dec	From		From	
	Through	Nov	Through	Apr	Through		Through	
CBOD5								
NH3-N								
TKN								
D.O.								
	CBOD5	3	mg/L	CBOD5	12	mg/L	TP	
	NH3-N	0.25	mg/L	NH3-N	2.5	mg/L	TN	
	TKN			TKN			TSS	
	D.O.	6.5	mg/L	D.O.	6.5	mg/L		

"Monitor Only" Parameters for Effluent:

Parameter	Frequency	Parameter	Frequency
TP	Monthly(Apr-Oct)		
TKN	Monthly(Apr-Oct)		
NO2+NO3-N	Monthly(Apr-Oct)		

Water Quality Characteristics Immediately Upstream of Discharge

Parameter	Summer		Winter	
CBODu	2	mg/l	2	mg/l
NH3-N	0.11	mg/l	0.11	mg/l
Temperature	30	°C	20	°C
pH	7	su	7	su

Hydrology at Discharge Location

Drainage Area Qualifier
Exact

Drainage Area	100.11	sq mi
Stream 7Q10	0	cfs
Stream 1Q10	0	cfs
Stream 7Q2	0.31	cfs
Annual Average	120	cfs

Method Used to Calculate

ADEM Estimate w/USGS Gage Data
ADEM Estimate w/USGS Gage Data
ADEM Estimate w/USGS Gage Data
ADEM Estimate w/USGS Gage Data

Comments and/or Notations An annual model review was completed for this facility in November 2024. The facility subsequently requested a model review for two seasons. The original seasonal model was submitted on March 24, 2025, and revised models were submitted on April 15, 2025, and July 22, 2025. The limits above are based on the July 22, 2025, submittal.

Water Permits Division



Application Form 2A

New and Existing Publicly Owned Treatment Works

NPDES Permitting Program

RECEIVED

JUL 29 2024

MUNICIPAL SECTION

Note: Complete this form if your facility is a new or existing publicly owned treatment works.

EPA Identification Number		NPDES Permit Number		Facility Name Pike Road CWF		OMB No. 2040-0004 Expires 07/31/2026	
Form 2A NPDES		U.S. Environmental Protection Agency Application for NPDES Permit to Discharge Wastewater NEW AND EXISTING PUBLICLY OWNED TREATMENT WORKS					
SECTION 1. BASIC APPLICATION INFORMATION FOR ALL APPLICANTS (40 CFR 122.21(J)(1) AND (9))							
Facility Information	<u>1.1</u>	Facility name Pike Road Clean Water Facility					
		Mailing address (street or P.O. box) 5455 Troy Highway					
		City or town Montgomery			State AL		ZIP code 36116
		Contact name (first and last) Zac Gibbs		Title Manager	Phone number (334) 657-2181		Email address zgibbs@halsteadllc.com
		Location address (street, route number, or other specific identifier) ☐ Same as mailing address Trotman Dr., Pike Road, AL 36064 Coordinates: 32° 15' 12.41" N, 86° 10' 01.98" W					
		City or town Pike Road			State AL		ZIP code 36064
		<u>1.2</u> Is this application for a facility that has yet to commence discharge? ☒ Yes → See instructions on data submission requirements for new dischargers. ☐ No					
Applicant Information	<u>1.3</u>	Is applicant different from entity listed under Item 1.1 above? ☒ Yes ☐ No → SKIP to Item 1.4.					
		Applicant name Pike Road Sewer, LLC					
		Applicant address (street or P.O. box) 5455 Troy Highway					
		City or town Montgomery			State AL		ZIP code 36116
		Contact name (first and last) Zac Gibbs		Title Manager	Phone number (334) 657-2181		Email address zgibbs@halsteadllc.com
	<u>1.4</u> Is the applicant the facility's owner, operator, or both? (Check only one response.) ☒ Owner ☐ Operator ☐ Both						
<u>1.5</u> To which entity should the NPDES permitting authority send correspondence? (Check only one response.) ☐ Facility ☒ Applicant ☐ Facility and applicant (they are one and the same)							
Existing Environmental Permits	<u>1.6</u>	Indicate below any existing environmental permits. (Check all that apply and print or type the corresponding permit number for each.)					
		Existing Environmental Permits					
		☐ NPDES (discharges to surface water)		☐ RCRA (hazardous waste)		☐ UIC (underground injection control)	
		☐ PSD (air emissions)		☐ Nonattainment program (CAA)		☐ NESHAPs (CAA)	
		☐ Ocean dumping (MPRSA)		☐ Dredge or fill (CWA Section 404)		☐ Other (specify)	

DEC 10 2025

**IND/MUN BRANCH
WATER DIVISION**

EPA Identification Number		NPDES Permit Number		Facility Name Pike Road CWF		OMB No. 2040-0004 Expires 07/31/2026	
Collection System and Population Served	<u>1.7</u>	Provide the collection system information requested below for the treatment works.					
		Municipality Served	Population Served	Collection System Type (indicate percentage)		Ownership Status	
		Pike Road	1,200	<u>100</u> % separate sanitary sewer ☐ % combined storm and sanitary sewer ☐ Unknown	☐ Own ☐ Own ☐ Own	☐ Maintain ☐ Maintain ☐ Maintain	
				☐ % separate sanitary sewer ☐ % combined storm and sanitary sewer ☐ Unknown	☐ Own ☐ Own ☐ Own	☐ Maintain ☐ Maintain ☐ Maintain	
				☐ % separate sanitary sewer ☐ % combined storm and sanitary sewer ☐ Unknown	☐ Own ☐ Own ☐ Own	☐ Maintain ☐ Maintain ☐ Maintain	
				☐ % separate sanitary sewer ☐ % combined storm and sanitary sewer ☐ Unknown	☐ Own ☐ Own ☐ Own	☐ Maintain ☐ Maintain ☐ Maintain	
		Total Population Served	1,200				
				Separate Sanitary Sewer System	Combined Storm and Sanitary Sewer		
		Total percentage of each type of sewer line (in miles)		100 %			
	Indian Country	<u>1.8</u>	Is the treatment works located in Indian Country? ☐ Yes ☒ No				
<u>1.9</u>		Does the facility discharge to a receiving water that flows through Indian Country? ☐ Yes ☒ No					
Design and Actual Flow Rates	<u>1.10</u>	Provide design and actual flow rates in the designated spaces.				Design Flow Rate	
						0.099 mgd	
		Annual Average Flow Rates (Actual)					
		Two Years Ago	Last Year		This Year		
		NA mgd	NA mgd		NA mgd		
		Maximum Daily Flow Rates (Actual)					
	Two Years Ago	Last Year		This Year			
	NA mgd	NA mgd		NA mgd			
Discharge Points by Type	<u>1.11</u>	Provide the total number of effluent discharge points to waters of the United States by type.					
		Total Number of Effluent Discharge Points by Type					
		Treated Effluent	Untreated Effluent	Combined Sewer Overflows	Bypasses	Constructed Emergency Overflows	
	1	0	0	0	0		

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Outfalls and Other Discharge or Disposal Methods

Outfalls Other Than to Waters of the United States

1.12 Does the POTW discharge wastewater to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the United States?
☐ Yes ☒ No → SKIP to Item 1.14.

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

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

1.14 Is wastewater applied to land?
☐ Yes ☒ No → SKIP to Item 1.16.

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

Land Application Site and Discharge Data			
Location	Size	Average Daily Volume Applied	Continuous or Intermittent (check one)
	acres	gpd	☐ Continuous ☐ Intermittent
	acres	gpd	☐ Continuous ☐ Intermittent
	acres	gpd	☐ Continuous ☐ Intermittent

1.16 Is effluent transported to another facility for treatment prior to discharge?
☐ Yes ☒ No → SKIP to Item 1.21.

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

1.18 Is the effluent transported by a party other than the applicant?
☐ Yes ☐ No → SKIP to Item 1.20.

1.19 Provide information on the transporter below.

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

EPA Identification Number	NPDES Permit Number	Facility Name Pike Road CWF		OMB No. 2040-0004 Expires 07/31/2026
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Outfalls and Other Discharge or Disposal Methods Continued	<u>1.20</u>	In the table below, indicate the name, address, contact information, NPDES number, and average daily flow rate of the receiving facility.			
	Receiving Facility Data				
	Facility name		Mailing address (street or P.O. box)		
	City or town		State	ZIP code	
	Contact name (first and last)		Title		
	Phone number		Email address		
	NPDES number of receiving facility (if any) ☐ None		Average daily flow rate mgd		
	<u>1.21</u>	Is the wastewater disposed of in a manner other than those already mentioned in Items 1.14 through 1.21 that do not have outlets to waters of the United States (e.g., underground percolation, underground injection)? ☐ Yes ☒ No → SKIP to Item 1.23.			
	<u>1.22</u>	Provide information in the table below on these other disposal methods.			
	Information on Other Disposal Methods				
Disposal Method Description	Location of Disposal Site	Size of Disposal Site	Annual Average Daily Discharge Volume	Continuous or Intermittent (check one)	
		acres	gpd	☐ Continuous ☐ Intermittent	
		acres	gpd	☐ Continuous ☐ Intermittent	
		acres	gpd	☐ Continuous ☐ Intermittent	

Variance Requests	<u>1.23</u>	Do you intend to request or renew one or more of the variances authorized at 40 CFR 122.21(n)? (Check all that apply. Consult with your NPDES permitting authority to determine what information needs to be submitted and when.) ☐ Discharges into marine waters (CWA Section 301(h)) ☐ Water quality related effluent limitation (CWA Section 302(b)(2)) ☒ Not applicable
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Contractor Information	<u>1.24</u>	Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor? ☒ Yes ☐ No → SKIP to Section 2.		
	<u>1.25</u>	Provide location and contact information for each contractor in addition to a description of the contractor's operational and maintenance responsibilities.		
	Contractor Information			
		Contractor 1	Contractor 2	Contractor 3
	Contractor name (company name)	EOS Utility Services, LLC		
	Mailing address (street or P.O. box)	206-A Oak Mountain Circle		
	City, state, and ZIP code	Pelham, AL 35124		
	Contact name (first and last)	Mike Walraven		
	Phone number	(205) 929-7261		
	Email address	mike@eosutilityservices.com		
Operational and maintenance responsibilities of contractor	Contract operations; provide certified operator and emergency response			

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SECTION 2. ADDITIONAL INFORMATION (40 CFR 122.21(J)(1) AND (2))					
Design Flow	Outfalls to Waters of the United States				
	<u>2.1</u>	Does the treatment works have a design flow greater than or equal to 0.1 mgd? ☐ Yes ☒ No → SKIP to Section 3.			
Inflow and Infiltration	<u>2.2</u>	Provide the treatment works' current average daily volume of inflow and infiltration.	Average Daily Volume of Inflow and Infiltration		
	Indicate the steps the facility is taking to minimize inflow and infiltration.		gpd		
Topographic Map	<u>2.3</u>	Have you attached a topographic map to this application that contains all the required information? (See instructions for specific requirements.) ☐ Yes			
Flow Diagram	<u>2.4</u>	Have you attached a process flow diagram or schematic to this application that contains all the required information? (See instructions for specific requirements.) ☐ Yes			
Scheduled Improvements and Schedules of Implementation	<u>2.5</u>	Are improvements to the facility scheduled? ☐ Yes ☐ No → SKIP to Section 3.			
	Briefly list and describe the scheduled improvements.				
	1.				
	2.				
	3.				
	4.				
	<u>2.6</u>	Provide scheduled or actual dates of completion for improvements.			
	Scheduled or Actual Dates of Completion for Improvements				
	Scheduled Improvement (from above)	Affected Outfalls (list outfall number)	Begin Construction (MM/DD/YYYY)	End Construction (MM/DD/YYYY)	
	Begin Discharge (MM/DD/YYYY)	Attainment of Operational Level (MM/DD/YYYY)			
1.					
2.					
3.					
4.					
<u>2.7</u>	Have appropriate permits/clearances concerning other federal/state requirements been obtained? Briefly explain your response. ☐ Yes ☐ No ☐ None required or applicable				
Explanation:					

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SECTION 3. INFORMATION ON EFFLUENT DISCHARGES (40 CFR 122.21(J)(3) TO (5))

Description of Outfalls	3.1	Provide the following information for each outfall. (Attach additional sheets if you have more than three outfalls.)			
		Outfall Number 0011	Outfall Number _____	Outfall Number _____	
	State	Alabama			
	County	Montgomery			
	City or town	Pike Road			
	Distance from shore	ft.	ft.	ft.	
	Depth below surface	ft.	ft.	ft.	
	Average daily flow rate	0.099 mgd	mgd	mgd	
	Latitude	32.256630			
	Longitude	-86.173941			
Seasonal or Periodic Discharge Data	3.2	Do any of the outfalls described under Item 3.1 have seasonal or periodic discharges? ☐ Yes ☒ No → SKIP to Item 3.4.			
	3.3	If so, provide the following information for each applicable outfall.			
		Outfall Number _____	Outfall Number _____	Outfall Number _____	
	Number of times per year discharge occurs				
	Average duration of each discharge (specify units)				
	Average flow of each discharge	mgd	mgd	mgd	
	Months in which discharge occurs				
Diffuser Type	3.4	Are any of the outfalls listed under Item 3.1 equipped with a diffuser? ☐ Yes ☒ No → SKIP to Item 3.6.			
	3.5	Briefly describe the diffuser type at each applicable outfall.			
		Outfall Number _____	Outfall Number _____	Outfall Number _____	
Waters of the U.S.	3.6	Does the treatment works discharge or plan to discharge wastewater to waters of the United States from one or more discharge points? ☒ Yes ☐ No → SKIP to Section 6.			

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Receiving Water Description	3.7	Provide the receiving water and related information (if known) for each outfall.					
			Outfall Number 0011	Outfall Number	Outfall Number	Outfall Number	
	Receiving water name	Catoma Creek					
	Name of watershed, river, or stream system	Alabama River					
	Natural Resources Conservation Service 14-digit watershed code						
	Name of state management/river basin	Alabama River					
	U.S. Geological Survey 8-digit hydrologic cataloging unit code						
	Critical low flow (acute)		cfs		cfs		cfs
	Critical low flow (chronic)		cfs		cfs		cfs
	Total hardness at critical low flow		mg/L of CaCO ₃		mg/L of CaCO ₃		mg/L of CaCO ₃

Treatment Description	3.8	Provide the following information describing the treatment provided for discharges from each outfall.					
			Outfall Number	Outfall Number	Outfall Number	Outfall Number	
	Highest Level of Treatment (check all that apply per outfall)	☐ Primary ☐ Equivalent to secondary ☒ Secondary ☒ Advanced ☐ Other (specify)	☐ Primary ☐ Equivalent to secondary ☐ Secondary ☐ Advanced ☐ Other (specify)	☐ Primary ☐ Equivalent to secondary ☐ Secondary ☐ Advanced ☐ Other (specify)	☐ Primary ☐ Equivalent to secondary ☐ Secondary ☐ Advanced ☐ Other (specify)		
	Design Removal Rates by Outfall						
	BOD ₅ or CBOD ₅	>85 %	%	%	%		
	TSS	>85 %	%	%	%		
	Phosphorus	☐ Not applicable 60 %	☐ Not applicable %	☐ Not applicable %	☐ Not applicable %		
	Nitrogen	☐ Not applicable 40 %	☐ Not applicable %	☐ Not applicable %	☐ Not applicable %		
	Other (specify)	☒ Not applicable %	☐ Not applicable %	☐ Not applicable %	☐ Not applicable %		

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Treatment Description Continued	<u>3.9</u>	Describe the type of disinfection used for the effluent from each outfall in the table below. If disinfection varies by season, describe in the table below.				
		Outfall Number 0011	Outfall Number _____		Outfall Number _____	
	Disinfection type	Chlorine				
	Seasons used	All				
	Dechlorination used?	☐ Not applicable ☒ Yes ☐ No	☐ Not applicable ☐ Yes ☐ No	☐ Not applicable ☐ Yes ☐ No		

Effluent Testing Data	<u>3.10</u>	Have you completed monitoring for all Table A parameters and attached the results to the application package? ☐ Yes					
	<u>3.11</u>	Have you conducted any WET tests during the 4.5 years prior to the date of the application on any of the facility's discharges or on any receiving water near the discharge points? ☐ Yes ☒ No → SKIP to Item 3.13.					
	<u>3.12</u>	Indicate the number of acute and chronic WET tests conducted since the last permit reissuance of the facility's discharges by outfall number or of the receiving water near the discharge points.					
		Outfall Number _____		Outfall Number _____		Outfall Number _____	
		Acute	Chronic	Acute	Chronic	Acute	Chronic
	Number of tests of discharge water						
	Number of tests of receiving water						
	<u>3.13</u>	Does the treatment works have a design flow greater than or equal to 0.1 mgd? ☐ Yes ☒ No → SKIP to Item 3.16.					
	<u>3.14</u>	Does the POTW use chlorine for disinfection, use chlorine elsewhere in the treatment process, or otherwise have reasonable potential to discharge chlorine in its effluent? ☐ Yes → Complete Table B, including chlorine. ☐ No → Complete Table B, omitting chlorine.					
	<u>3.15</u>	Have you completed monitoring for all applicable Table B pollutants and attached the results to this application package? ☐ Yes					
<u>3.16</u>	Does one or more of the following conditions apply? - The facility has a design flow greater than or equal to 1 mgd. - The POTW has an approved pretreatment program or is required to develop such a program. - The NPDES permitting authority has informed the POTW that it must sample for the parameters in Table C, must sample other additional parameters (Table D), or submit the results of WET tests for acute or chronic toxicity for each of its discharge outfalls (Table E). ☐ Yes → Complete Tables C, D, and E as applicable. ☒ No → SKIP to Section 4.						
<u>3.17</u>	Have you completed monitoring for all Table C pollutants and attached the results to this application package? ☐ Yes						
<u>3.18</u>	Have you completed monitoring for all Table D pollutants required by your NPDES permitting authority and attached the results to this application package? ☐ Yes ☐ No additional sampling required by NPDES permitting authority.						

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Effluent Testing Data Continued	3.19	Has the POTW conducted either (1) minimum of four quarterly WET tests for one year preceding this permit application or (2) at least four annual WET tests in the past 4.5 years? ☐ Yes ☐ No → Complete tests and Table E and SKIP to Item 3.26.				
	3.20	Have you previously submitted the results of the above tests to your NPDES permitting authority? ☐ Yes ☐ No → Provide results in Table E and SKIP to Item 3.26.				
	3.21	Indicate the dates the data were submitted to your NPDES permitting authority and provide a summary of the results. <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <th style="width: 40%; text-align: center;">Date(s) Submitted (MM/DD/YYYY)</th> <th style="width: 60%; text-align: center;">Summary of Results</th> </tr> <tr> <td style="height: 80px;"></td> <td></td> </tr> </table>	Date(s) Submitted (MM/DD/YYYY)	Summary of Results		
	Date(s) Submitted (MM/DD/YYYY)	Summary of Results				
	3.22	Regardless of how you provided your WET testing data to the NPDES permitting authority, did any of the tests result in toxicity? ☐ Yes ☐ No → SKIP to Item 3.26.				
	3.23	Describe the cause(s) of the toxicity:				
	3.24	Has the treatment works conducted a toxicity reduction evaluation? ☐ Yes ☐ No → SKIP to Item 3.26.				
3.25	Provide details of any toxicity reduction evaluations conducted.					
3.26	Have you completed Table E for all applicable outfalls and attached the results to the application package? ☐ Yes ☐ Not applicable because previously submitted information to the NPDES permitting authority.					

SECTION 4. INDUSTRIAL DISCHARGES AND HAZARDOUS WASTES (40 CFR 122.21(J)(6) AND (7))	
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Industrial Discharges and Hazardous Wastes	4.1	Does the POTW receive discharges from SIUs or NSCIUs? (See instructions for definitions of SIUs and NSCIUs.) ☐ Yes ☒ No → SKIP to Item 4.7.				
	4.2	Indicate the number of SIUs and NSCIUs that discharge to the POTW. <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <th style="width: 50%; text-align: center;">Number of SIUs</th> <th style="width: 50%; text-align: center;">Number of NSCIUs</th> </tr> <tr> <td style="height: 40px;"></td> <td></td> </tr> </table>	Number of SIUs	Number of NSCIUs		
	Number of SIUs	Number of NSCIUs				
	4.3	Does the POTW have an approved pretreatment program? ☐ Yes ☐ No				
	4.4	Have you submitted either of the following to the NPDES permitting authority that contains information substantially identical to that required in Table F: (1) a pretreatment program annual report submitted within one year of the application or (2) a pretreatment program? ☐ Yes ☐ No → SKIP to Item 4.6.				
4.5	Identify the title and date of the annual report or pretreatment program referenced in Item 4.4. SKIP to Item 4.7.					
4.6	Have you completed and attached Table F to this application package? ☐ Yes					

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Industrial Discharges and Hazardous Wastes Continued	<u>4.7</u>	Does the POTW receive, or has it been notified that it will receive, by truck, rail, or dedicated pipe, any wastes that are regulated as RCRA hazardous wastes pursuant to 40 CFR 261? ☐ Yes ☒ No → SKIP to Item 4.9.			
	<u>4.8</u>	If yes, provide the following information:			
	Hazardous Waste Number	Waste Transport Method (check all that apply)		Annual Amount of Waste Received	Units
		☐ Truck ☐ Dedicated pipe	☐ Rail ☐ Other (specify) _____		
		☐ Truck ☐ Dedicated pipe	☐ Rail ☐ Other (specify) _____		
		☐ Truck ☐ Dedicated pipe	☐ Rail ☐ Other (specify) _____		
	<u>4.9</u>	Does the POTW receive, or has it been notified that it will receive, wastewaters that originate from remedial activities, including those undertaken pursuant to CERCLA and Sections 3004(7) or 3008(h) of RCRA? ☐ Yes ☒ No → SKIP to Section 5.			
	<u>4.10</u>	Does the POTW receive (or expect to receive) less than 15 kilograms per month of non-acute hazardous wastes as specified in 40 CFR 261.30(d) and 261.33(e)? ☐ Yes → SKIP to Section 5. ☒ No			
	<u>4.11</u>	Have you reported the following information in an attachment to this application: identification and description of the site(s) or facility(ies) at which the wastewater originates; the identities of the wastewater's hazardous constituents; and the extent of treatment, if any, the wastewater receives or will receive before entering the POTW? ☐ Yes			

SECTION 5. COMBINED SEWER OVERFLOWS (40 CFR 122.21(J)(8))		
CSO Map and Diagram	<u>5.1</u>	Does the treatment works have a combined sewer system? ☐ Yes ☒ No → SKIP to Section 6.
	<u>5.2</u>	Have you attached a CSO system map to this application? (See instructions for map requirements.) ☐ Yes
	<u>5.3</u>	Have you attached a CSO system diagram to this application? (See instructions for diagram requirements.) ☐ Yes

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CSO Outfall Description	5.4	For each CSO outfall, provide the following information. (Attach additional sheets as necessary.)						
			CSO Outfall Number ____	CSO Outfall Number ____	CSO Outfall Number ____			
		City or town						
		State and ZIP code						
		County						
		Latitude						
		Longitude						
		Distance from shore		ft.		ft.		ft.
		Depth below surface		ft.		ft.		ft.
CSO Monitoring	5.5	Did the POTW monitor any of the following items in the past year for its CSO outfalls?						
			CSO Outfall Number ____	CSO Outfall Number ____	CSO Outfall Number ____			
		Rainfall	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No		
		CSO flow volume	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No		
		CSO pollutant concentrations	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No		
		Receiving water quality	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No		
		CSO frequency	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No		
		Number of storm events	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No		
CSO Events in Past Year	5.6	Provide the following information for each of your CSO outfalls.						
			CSO Outfall Number ____	CSO Outfall Number ____	CSO Outfall Number ____			
		Number of CSO events in the past year		events		events		events
		Average duration per event		hours ☐ Actual or ☐ Estimated		hours ☐ Actual or ☐ Estimated		hours ☐ Actual or ☐ Estimated
		Average volume per event		million gallons ☐ Actual or ☐ Estimated		million gallons ☐ Actual or ☐ Estimated		million gallons ☐ Actual or ☐ Estimated
		Minimum rainfall causing a CSO event in last year		inches of rainfall ☐ Actual or ☐ Estimated		inches of rainfall ☐ Actual or ☐ Estimated		inches of rainfall ☐ Actual or ☐ Estimated

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CSO Receiving Waters	<u>5.7</u>	Provide the information in the table below for each of your CSO outfalls.		
		CSO Outfall Number ____	CSO Outfall Number ____	CSO Outfall Number ____
	Receiving water name			
	Name of watershed/ stream system			
	Natural Resources Conservation Service 14- digit watershed code (if known)	☐ Unknown	☐ Unknown	☐ Unknown
	Name of state management/river basin			
	U.S. Geological Survey 8-Digit Hydrologic Unit Code (if known)	☐ Unknown	☐ Unknown	☐ Unknown
	Description of known water quality impacts on receiving stream by CSO (see instructions for examples)			

SECTION 6. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(A) AND (D))

Checklist and Certification Statement	<u>6.1</u>	In Column 1 below, mark the sections of Form 2A that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments.	
		Column 1	Column 2
	☒	Section 1: Basic Application Information for All Applicants	☐ w/ variance request(s) ☐ w/ additional attachments
	☒	Section 2: Additional Information	☒ w/ topographic map ☒ w/ process flow diagram ☐ w/ additional attachments
	☒	Section 3: Information on Effluent Discharges	☐ w/ Table A ☐ w/ Table D ☐ w/ Table B ☐ w/ Table E ☐ w/ Table C ☐ w/ additional attachments
	☐	Section 4: Industrial Discharges and Hazardous Wastes	☐ w/ SIU and NSCIU attachments ☐ w/ Table F ☐ w/ additional attachments
	☐	Section 5: Combined Sewer Overflows	☐ w/ CSO map ☐ w/ additional attachments ☐ w/ CSO system diagram
	☒	Section 6: Checklist and Certification Statement	☐ w/ attachments

	<u>6.2</u>	Provide the following certification. (See instructions to determine the appropriate person to sign the application.)	
		Certification Statement	
		<i>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>	
		Name (print or type first and last name) Zac Gibbs	Official title Manager, Pike Road Sewer, LLC
		Signature 	Date signed 7/29/24

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EPA Identification Number	NPDES Permit Number	Facility Name Pike Road CWF	Outfall Number 0011
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OMB No. 2040-0004
Expires 07/31/2026

TABLE A. EFFLUENT PARAMETERS FOR ALL POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method ¹	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Biochemical oxygen demand ☐ BOD ₅ or ☐ CBOD ₅ (report one)							☐ ML ☐ MDL
Fecal coliform							☐ ML ☐ MDL
Design flow rate							
pH (minimum)							
pH (maximum)							
Temperature (winter)							
Temperature (summer)							
Total suspended solids (TSS)							☐ ML ☐ MDL

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

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EPA Identification Number	NPDES Permit Number	Facility Name Pike Road CWF	Outfall Number 0011
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OMB No. 2040-0004
Expires 07/31/2026

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

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method ¹	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Ammonia (as N)							☐ ML ☐ MDL
Chlorine (total residual, TRC) ²							☐ ML ☐ MDL
Dissolved oxygen							☐ ML ☐ MDL
Nitrate/nitrite							☐ ML ☐ MDL
Kjeldahl nitrogen							☐ ML ☐ MDL
Oil and grease							☐ ML ☐ MDL
Phosphorus							☐ ML ☐ MDL
Total dissolved solids							☐ ML ☐ MDL

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

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

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EPA Identification Number	NPDES Permit Number	Facility Name Pike Road CWF	Outfall Number 0011
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OMB No. 2040-0004
Expires 07/31/2026

TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method ¹	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Metals, Cyanide, and Total Phenols							
Hardness (as CaCO ₃)							☐ ML ☐ MDL
Antimony, total recoverable							☐ ML ☐ MDL
Arsenic, total recoverable							☐ ML ☐ MDL
Beryllium, total recoverable							☐ ML ☐ MDL
Cadmium, total recoverable							☐ ML ☐ MDL
Chromium, total recoverable							☐ ML ☐ MDL
Copper, total recoverable							☐ ML ☐ MDL
Lead, total recoverable							☐ ML ☐ MDL
Mercury, total recoverable							☐ ML ☐ MDL
Nickel, total recoverable							☐ ML ☐ MDL
Selenium, total recoverable							☐ ML ☐ MDL
Silver, total recoverable							☐ ML ☐ MDL
Thallium, total recoverable							☐ ML ☐ MDL
Zinc, total recoverable							☐ ML ☐ MDL
Cyanide							☐ ML ☐ MDL
Total phenolic compounds							☐ ML ☐ MDL
Volatile Organic Compounds							
Acrolein							☐ ML ☐ MDL
Acrylonitrile							☐ ML ☐ MDL
Benzene							☐ ML ☐ MDL
Bromoform							☐ ML ☐ MDL

EPA Identification Number	NPDES Permit Number	Facility Name Pike Road CWF	Outfall Number 0011
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OMB No. 2040-0004
Expires 07/31/2026

TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method ¹	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Carbon tetrachloride							☐ ML ☐ MDL
Chlorobenzene							☐ ML ☐ MDL
Chlorodibromomethane							☐ ML ☐ MDL
Chloroethane							☐ ML ☐ MDL
2-chloroethylvinyl ether							☐ ML ☐ MDL
Chloroform							☐ ML ☐ MDL
Dichlorobromomethane							☐ ML ☐ MDL
1,1-dichloroethane							☐ ML ☐ MDL
1,2-dichloroethane							☐ ML ☐ MDL
trans-1,2-dichloroethylene							☐ ML ☐ MDL
1,1-dichloroethylene							☐ ML ☐ MDL
1,2-dichloropropane							☐ ML ☐ MDL
1,3-dichloropropylene							☐ ML ☐ MDL
Ethylbenzene							☐ ML ☐ MDL
Methyl bromide							☐ ML ☐ MDL
Methyl chloride							☐ ML ☐ MDL
Methylene chloride							☐ ML ☐ MDL
1,1,2,2-tetrachloroethane							☐ ML ☐ MDL
Tetrachloroethylene							☐ ML ☐ MDL
Toluene							☐ ML ☐ MDL
1,1,1-trichloroethane							☐ ML ☐ MDL
1,1,2-trichloroethane							☐ ML ☐ MDL

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
		Pike Road CWF	0011

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

TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method ¹	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Trichloroethylene							☐ ML ☐ MDL
Vinyl chloride							☐ ML ☐ MDL
Acid-Extractable Compounds							
p-chloro-m-cresol							☐ ML ☐ MDL
2-chlorophenol							☐ ML ☐ MDL
2,4-dichlorophenol							☐ ML ☐ MDL
2,4-dimethylphenol							☐ ML ☐ MDL
4,6-dinitro-o-cresol							☐ ML ☐ MDL
2,4-dinitrophenol							☐ ML ☐ MDL
2-nitrophenol							☐ ML ☐ MDL
4-nitrophenol							☐ ML ☐ MDL
Pentachlorophenol							☐ ML ☐ MDL
Phenol							☐ ML ☐ MDL
2,4,6-trichlorophenol							☐ ML ☐ MDL
Base-Neutral Compounds							
Acenaphthene							☐ ML ☐ MDL
Acenaphthylene							☐ ML ☐ MDL
Anthracene							☐ ML ☐ MDL
Benzidine							☐ ML ☐ MDL
Benzo(a)anthracene							☐ ML ☐ MDL
Benzo(a)pyrene							☐ ML ☐ MDL
3,4-benzofluoranthene							☐ ML ☐ MDL

EPA Identification Number	NPDES Permit Number	Facility Name Pike Road CWF	Outfall Number 0011
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OMB No. 2040-0004
Expires 07/31/2026

TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method ¹	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
Benzo(ghi)perylene							☐ ML ☐ MDL
Benzo(k)fluoranthene							☐ ML ☐ MDL
Bis (2-chloroethoxy) methane							☐ ML ☐ MDL
Bis (2-chloroethyl) ether							☐ ML ☐ MDL
Bis (2-chloroisopropyl) ether							☐ ML ☐ MDL
Bis (2-ethylhexyl) phthalate							☐ ML ☐ MDL
4-bromophenyl phenyl ether							☐ ML ☐ MDL
Butyl benzyl phthalate							☐ ML ☐ MDL
2-chloronaphthalene							☐ ML ☐ MDL
4-chlorophenyl phenyl ether							☐ ML ☐ MDL
Chrysene							☐ ML ☐ MDL
di-n-butyl phthalate							☐ ML ☐ MDL
di-n-octyl phthalate							☐ ML ☐ MDL
Dibenzo(a,h)anthracene							☐ ML ☐ MDL
1,2-dichlorobenzene							☐ ML ☐ MDL
1,3-dichlorobenzene							☐ ML ☐ MDL
1,4-dichlorobenzene							☐ ML ☐ MDL
3,3-dichlorobenzidine							☐ ML ☐ MDL
Diethyl phthalate							☐ ML ☐ MDL
Dimethyl phthalate							☐ ML ☐ MDL
2,4-dinitrotoluene							☐ ML ☐ MDL
2,6-dinitrotoluene							☐ ML ☐ MDL

EPA Identification Number	NPDES Permit Number	Facility Name Pike Road CWF	Outfall Number 0011
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OMB No. 2040-0004
Expires 07/31/2026

TABLE C. EFFLUENT PARAMETERS FOR SELECTED POTWS

Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical Method ¹	ML or MDL (include units)
	Value	Units	Value	Units	Number of Samples		
1,2-diphenylhydrazine							☐ ML ☐ MDL
Fluoranthene							☐ ML ☐ MDL
Fluorene							☐ ML ☐ MDL
Hexachlorobenzene							☐ ML ☐ MDL
Hexachlorobutadiene							☐ ML ☐ MDL
Hexachlorocyclo-pentadiene							☐ ML ☐ MDL
Hexachloroethane							☐ ML ☐ MDL
Indeno(1,2,3-cd)pyrene							☐ ML ☐ MDL
Isophorone							☐ ML ☐ MDL
Naphthalene							☐ ML ☐ MDL
Nitrobenzene							☐ ML ☐ MDL
N-nitrosodi-n-propylamine							☐ ML ☐ MDL
N-nitrosodimethylamine							☐ ML ☐ MDL
N-nitrosodiphenylamine							☐ ML ☐ MDL
Phenanthrene							☐ ML ☐ MDL
Pyrene							☐ ML ☐ MDL
1,2,4-trichlorobenzene							☐ ML ☐ MDL

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

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EPA Identification Number	NPDES Permit Number	Facility Name Pike Road CWF	Outfall Number 0011
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TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY

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

Test Information

	Test Number _____	Test Number _____	Test Number _____
Test species			
Age at initiation of test			
Outfall number			
Date sample collected			
Date test started			
Duration			

Toxicity Test Methods

Test method number			
Manual title			
Edition number and year of publication			
Page number(s)			

Sample Type

Check one:	☐ Grab ☐ 24-hour composite	☐ Grab ☐ 24-hour composite	☐ Grab ☐ 24-hour composite
------------	---	---	---

Sample Location

Check one:	☐ Before disinfection ☐ After disinfection ☐ After dechlorination	☐ Before disinfection ☐ After disinfection ☐ After dechlorination	☐ Before disinfection ☐ After disinfection ☐ After dechlorination
------------	--	--	--

Point in Treatment Process

Describe the point in the treatment process at which the sample was collected for each test.			
--	--	--	--

Toxicity Type

Indicate for each test whether the test was performed to assess acute or chronic toxicity, or both. (Check one response.)	☐ Acute ☐ Chronic ☐ Both	☐ Acute ☐ Chronic ☐ Both	☐ Acute ☐ Chronic ☐ Both
---	---	---	---

EPA Identification Number	NPDES Permit Number	Facility Name Pike Road CWF	Outfall Number 0011
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TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY

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

	Test Number _____	Test Number _____	Test Number _____
Test Type			
Indicate the type of test performed. (Check one response.)	☐ Static ☐ Static-renewal ☐ Flow-through	☐ Static ☐ Static-renewal ☐ Flow-through	☐ Static ☐ Static-renewal ☐ Flow-through
Source of Dilution Water			
Indicate the source of dilution water. (Check one response.)	☐ Laboratory water ☐ Receiving water	☐ Laboratory water ☐ Receiving water	☐ Laboratory water ☐ Receiving water
If laboratory water, specify type.			
If receiving water, specify source.			
Type of Dilution Water			
Indicate the type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.	☐ Fresh water ☐ Salt water (specify)	☐ Fresh water ☐ Salt water (specify)	☐ Fresh water ☐ Salt water (specify)
Percentage Effluent Used			
Specify the percentage effluent used for all concentrations in the test series.			
Parameters Tested			
Check the parameters tested.	☐ pH ☐ Salinity ☐ Temperature	☐ Ammonia ☐ Dissolved oxygen	☐ pH ☐ Salinity ☐ Temperature
		☐ Ammonia ☐ Dissolved oxygen	☐ pH ☐ Salinity ☐ Temperature
			☐ Ammonia ☐ Dissolved oxygen
Acute Test Results			
Percent survival in 100% effluent	%	%	%
LC ₅₀			
95% confidence interval	%	%	%
Control percent survival	%	%	%

EPA Identification Number	NPDES Permit Number	Facility Name Pike Road CWF	Outfall Number 0011
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OMB No. 2040-0004
Expires 07/31/2026

TABLE E. EFFLUENT MONITORING FOR WHOLE EFFLUENT TOXICITY

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

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

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EPA Identification Number	NPDES Permit Number	Facility Name Pike Road CWF
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TABLE F. INDUSTRIAL DISCHARGE INFORMATION

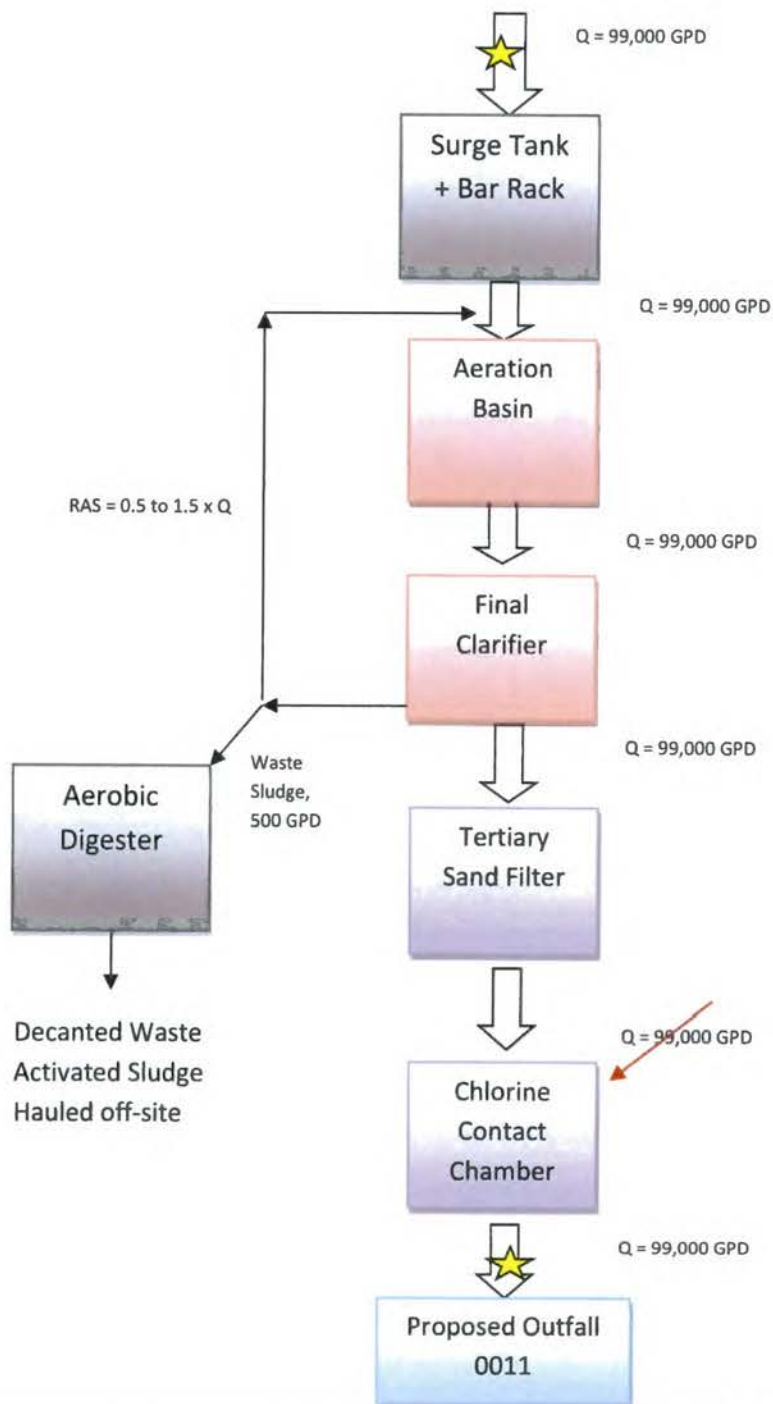
Response space is provided for three SIUs. Copy the table to report information for additional SIUs.

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

EPA Identification Number	NPDES Permit Number	Facility Name Pike Road CWF
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TABLE F. INDUSTRIAL DISCHARGE INFORMATION			
Response space is provided for three SIUs. Copy the table to report information for additional SIUs.			
	SIU ____	SIU ____	SIU ____
Under what categories and subcategories is the SIU subject?			
Has the POTW experienced problems (e.g., upsets, pass-through interferences) in the past 4.5 years that are attributable to the SIU?	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No
If yes, describe.			



PIKE ROAD CWF FLOW SCHEMATIC

PIKE ROAD DEVELOPMENT

PIKE ROAD, MONTGOMERY CO., AL

LEGEND

-  Sample Location
-  Flow Direction
-  Chemical Addition

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IND/MUN BRANCH
WATER DIVISION

PROPOSED OUTFALL
32.258638 N
-86.173941 W

PROPOSED WWTP SITE

PIKE ROAD

Produced by the United States Geological Survey

United States Geological Survey
Topographic Map of the United States
This map is a derivative of the original
topographic map of the United States
produced by the United States Geological Survey
and is not a substitute for the original
topographic map of the United States
produced by the United States Geological Survey



ROAD CLASSIFICATION
Interstate
Federal
State
County
Local

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

SARASOTA, FL
2000

ENLARGED VIEW



ENGINEERS OF THE SOUTH, LLC

Subject:
Pike Road WRF
Partial Barachias Quad Map 2020

FIGURE 1 – USGS Topographic Map
Montgomery County, Alabama
Scale as Noted

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

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

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

PURPOSE OF THIS APPLICATION

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

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

SECTION A – GENERAL INFORMATION

1. Facility Name: Pike Road Clean Water Facility Facility County: Montgomery

a. Operator Name: EOS Utility Services, LLC

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

If No, provide the following information:

Operator Name: EOS Utility Services, LLC

Operator Address (Street or PO Box): 206-A Oak Mountain Circle

City: Pelham

Alabama

Zip: 35124

Phone Number: 205 929-7261

Email Address: mike@eosutilityservices.com

Operator Status:

☐ Public-federal ☐ Public-state ☐ Public-other (please specify):

☒ Private ☐ Other (please specify):

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

Contract operations and permit reporting

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c. Name of Permittee* if different than Operator: Pike Road Sewer, LLC

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

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

3. Facility Location (Front Gate): Latitude: 32 degrees 15' 40.83" Longitude: -86 degrees 09' 49.16"

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

Name and Title: Zac Gibbs, Manager

Address: 5455 Troy Highway

City: Montgomery

State: Alabama

Zip: 36116

Phone Number: 334-657-2181

Email Address: zgibbs@halsteadllc.com

5. Designated Facility/DMR Contact:

Name: Mr. Mike Walraven Title: Manager
 Phone Number: 205 929-7261 Email Address: mike@eosutilityservices.com

6. Designated Emergency Contact:

Name: Mr. Zac Gibbs Title: Manager
 Phone Number: 334 657-2181 Email Address: zgibbs@halsteadllc.com

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

Name: _____ Title: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone Number: _____ Email Address: _____

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

<u>Facility Name</u>	<u>Permit Number</u>	<u>Type of Action</u>	<u>Date of Action</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

SECTION B – WASTEWATER DISCHARGE INFORMATION

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

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

For each shared outfall, provide the following:

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

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

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

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

A continuous flow meter with daily totalizer is proposed for the effluent end of the WWTP. An automatic sampler will be provided at the effluent end of the WWTP.

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

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

SECTION C – WASTE STORAGE AND DISPOSAL INFORMATION

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

Description of Waste	Description of Storage Location
50 lbs/day of waste activated sludge at development completion	Stored in holding tank. Waste sludge will be hauled off-site

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

SECTION D – INDUSTRIAL INDIRECT DISCHARGE CONTRIBUTORS

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

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

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

If yes, please attach a copy of the ordinance.

SECTION E – COASTAL ZONE INFORMATION

Is the discharge(s) located within the 10-foot elevation contour and within the limits of Mobile or Baldwin County? ☐ Yes ☒ No
If yes, complete items E.1 – E.12 below:

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

SECTION F – ANTI-DEGRADATION EVALUATION

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

1. Is this a new or increased discharge that began after April 3, 1991? ☒ Yes ☐ No
If yes, complete F.2 below. If no, go to Section G.
2. Has an Anti-Degradation Analysis been previously conducted and submitted to the Department for the new or increased discharge referenced in F.1? ☐ Yes ☒ No

If yes, do not complete this section.

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

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

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

See attached

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

See attached

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

See attached

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

See attached

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

See attached

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

See attached

SECTION G – EPA Application Forms

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

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

SECTION H– ENGINEERING REPORT/BMP PLAN REQUIREMENTS

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

SECTION I – RECEIVING WATERS

Outfall No.	Receiving Water(s)	303(d) Segment?		Included in TMDL?*	
0011	Catoma Creek	☐ Yes	☒ No	☒ Yes	☐ No
		☐ Yes	☐ No	☐ Yes	☐ No
		☐ Yes	☐ No	☐ Yes	☐ No

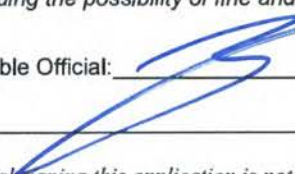
*If a TMDL Compliance Schedule is requested, the following should be attached as supporting documentation:

- (1) Justification for the requested Compliance Schedule (e.g. time for design and installation of control equipment, etc.);
- (2) Monitoring results for the pollutant(s) of concern which have not previously been submitted to the Department (sample collection dates, analytical results (mass and concentration), methods utilized, MDL/ML, etc. should be submitted as available);
- (3) Requested interim limitations, if applicable;
- (4) Date of final compliance with the TMDL limitations; and,
- (5) Any other additional information available to support requested compliance schedule.

SECTION J – APPLICATION CERTIFICATION

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

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

Signature of Responsible Official:  Date Signed: 7/29/24
Name: Mr. Zac Gibbs Title: Manager, Pike Road Sewer, LLC

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

Mailing Address: _____

City: _____ State: _____ Zip: _____

Phone Number: _____ Email Address: _____

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

- (1) The application for an NPDES permit shall be signed by a responsible official, as indicated below:
 - (a) In the case of a corporation, by a principal executive officer of at least the level of vice president, or a manager assigned or delegated in accordance with corporate procedures, with such delegation submitted in writing if required by the Department, who is responsible for manufacturing, production, or operating facilities and is authorized to make management decisions which govern the operation of the regulated facility;
 - (b) In the case of a partnership, by a general partner;
 - (c) In the case of a sole proprietorship, by the proprietor; or
 - (d) In the case of a municipal, state, federal, or other public entity, by either a principal executive officer, or ranking elected official.

PIKE ROAD CLEAN WATER FACILITY

ADEM FORM 188 ANTI-DEGRADATION EVALUATION

AND

ATTACHMENT 3 TO SUPPLEMENTARY FORM

ADEM FORM 313

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JUL 29 2024

MUNICIPAL SECTION

1.0 INTRODUCTION

Pike Road Sewer, LLC is proposing a wastewater treatment facility to serve proposed residential developments and existing businesses in the area experiencing failures with their onsite sewer systems. The facility will provide domestic wastewater treatment for approximately 400 single family homes. Growth in the area has been stymied due to a lack of sanitary sewer service.

The site is southeast of Montgomery along Alabama Highway 231 in the rapidly expanding Pike Road area (Figure 1). There are several properties in the area that are intended to be developed for residential units. Montgomery Water Works and Sanitary Sewer Board ("MWWSSB") provides sewer service nearby but the system is under a moratorium for expansion because of a lack of capacity.

The project location is indicated in Figure 1.



Figure 1: Project Vicinity Map*

*from Google Maps copyright 2024 Google

The Pike Road Sewer, LLC members and design team aware of the environmentally sensitive nature of this watershed and are committed to providing a “state of the art” system capable of meeting the anticipated stringent discharge limits. As part of the preliminary planning process, the designed team assessed other alternatives including a decentralized onsite treatment and disposal system. The findings from our review of the alternatives will be summarized in this report along with the estimated costs for each option.

The proposed wastewater treatment system will provide tertiary treatment prior to discharging to Catoma Creek which discharges into the Alabama River. Based on our proposed outfall location, there appears to be roughly 100 square miles of contributing drainage area. We anticipate that there will be nutrient limits and relatively higher effluent dissolved oxygen as a result of the TMDL on Catoma Creek issued in July 2005.

The proposed system is designed to provide high quality water suitable for reuse. The proposed system will include treatment using a conventional activated sludge process followed by chemical precipitation, filtration and disinfection. This high quality effluent will be available for irrigation of green spaces located within future development, assuming there is a demand.

In accordance with 40 CFR 131.12 and the Alabama Department of Environmental Management Administrative Code, Section 335-6-10-.04 for anti-degradation, the following report for the Woodstock CWF is hereby submitted to ADEM for comment and approval.

2.0 ANTI-DEGRADATION EVALUATION

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

This facility will provide centralized treatment of wastewater for a new residential development in the Pike Road area and eliminate the need for individual septic tanks and disposal fields, which are prone to failure in this area. This system will be engineered to protect the water quality and habitat in Catoma Creek.

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

This facility will need one part time employee as a certified plant operator and two laborers. The facility will also require the services of others for subsequent maintenance and repair work. Construction of the facility will employ the services of various craftsmen from different trades. In addition, it is estimated that 4 to 5 new jobs will be created in the service area. This is based upon the assumption that approximately one percent (1%) of the population served will be working in the service area.

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

Development of this property is contingent on finding a cost-effective sewer service option. The proposed development will be a higher density than allowed for onsite

sewer systems. Homebuilders and associated laborers in the Pike Road area will be relocated to other development opportunities if the development does not move forward.

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

The Permittee will pay Corporate Income Tax to the State. Further, there are local building permit fees for each new home and purchase of local business license. New property owners will pay state and local property taxes.

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

This project will help attract new businesses and improve the quality of life of the local residents. The facility will provide centralized wastewater treatment under highly restrictive discharge requirements.

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

This facility will provide sanitary sewerage service and related benefits to this development and will be sized to accommodate the build-out (approximately 400 homes). This facility would provide the means for additional revenue and taxes for the local economy and greater employment opportunities. More commercial developments will be attracted to the area as the residential community grows.

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3.0 ALTERNATIVES ANALYSIS

Applicant/Project: Pike Road Clean Water Facility

All new or expanded discharges (except discharges eligible for coverage under general permits) covered by the NPDES permitting program are subject to the provisions of the antidegradation policy. Applicants for such discharges to Tier 2 waters are required to demonstrate " . . . that the proposed discharge is necessary for important economic or social development." As a part of this demonstration, the applicant must complete an evaluation of the discharge alternatives listed below, to include calculation of total annualized project costs for each technically feasible alternative (using ADEM Form 312 for public-sector projects and ADEM Form 313 for private-sector projects). Alternatives with total annualized project costs that are less than 110% of the total annualized project costs for the Tier 2 discharge proposal are considered viable alternatives.

Alternative	Viable	Non-Viable	Comment
1 Land Application		X	See 4.01
2 Pretreatment/Discharge to POTW		X	See 4.02
3 Relocation of Discharge		X	See 4.03
4 Reuse/Recycle		X	See 4.04
5 Process/Treatment Alternatives	X		Activated Sludge, Filters and stream discharge, See 4.05
6 On-site/Sub-surface Disposal		X	See 4.06

Pursuant to ADEM Administrative Code Rule 335-6-3-.04, I certify on behalf of the applicant that I have completed an evaluation of the discharge alternatives identified above, and reached the conclusions indicated.

Signature: _____

Date: _____



4.0 ADEM FORM 313

4.01 ALTERNATIVE 1:

EXTENDED AERATION WWTP DISCHARGE TO LAND APPLICATION

Calculation of Total Annualized Project Costs for Private-Sector Projects

Capital Costs to be Financed (Supplied by applicant)	<u>\$ 2,070,000 (1)</u>
Interest rate for Financing (Expressed as a decimal)	<u>0.06 (i)</u>
Time Period of Financing (Assume 10 years*)	<u>10 years (n)</u>
Annualization Factor = $\frac{i}{(1+i)^n - 1} + i$	<u>0.136 (2)</u>
Annualized Capital Cost [Calculate: (1) x (2)]	<u>\$ 281,520 (3)</u>
Annual Cost of Operation and Maintenance (including but not limited to monitoring, inspection, permitting fees, waste disposal charges, repair, administration and replacement)**	<u>\$ 180,000 (4)</u>
Total Annual Cost of Pollution Control Project [(3) + (4)]	\$ 461,520 (5)

* While actual payback schedules may differ across projects and companies, assume equal annual payments over a 10-year period for consistency in comparing projects.

** For recurring costs that occur less frequently than once a year, pro rate the cost over the relevant number of years (e.g., for pumps replaced once every three years, include one-third of the cost in each year).

4.02 ALTERNATIVE 2:

PRETREATMENT/DISCHARGE TO POTW (CONNECT TO MWWSSB SEWER SYSTEM)

Calculation of Total Annualized Project Costs for Private-Sector Projects

Capital Costs to be Financed (Supplied by applicant)	<u>\$ 2,228,000 (1)</u>
Interest rate for Financing (Expressed as a decimal)	<u>0.06 (i)</u>
Time Period of Financing (Assume 10 years*)	<u>10 years (n)</u>
Annualization Factor = $\frac{i}{(1+i)^{10} - 1} + i$	<u>0.136 (2)</u>
Annualized Capital Cost [Calculate: (1) x (2)]	<u>\$ 303,008 (3)</u>
Annual Cost of Operation and Maintenance (including but not limited to monitoring, inspection, permitting fees, waste disposal charges, repair, administration and replacement)**	<u>\$ 96,000 (4)</u>
Total Annual Cost of Pollution Control Project [(3) + (4)]	\$ 399,008 (5)

* While actual payback schedules may differ across projects and companies, assume equal annual payments over a 10-year period for consistency in comparing projects.

** For recurring costs that occur less frequently than once a year, pro rate the cost over the relevant number of years (e.g., for pumps replaced once every three years, include one-third of the cost in each year).

4.03 ALTERNATIVE 3:

RELOCATION OF DISCHARGE

Calculation of Total Annualized Project Costs for Private-Sector Projects

Capital Costs to be Financed (Supplied by applicant)	\$ 2,600,000 (1)
Interest rate for Financing (Expressed as a decimal)	0.06 (i)
Time Period of Financing (Assume 10 years*)	10 years (n)
Annualization Factor = $\frac{i}{(1+i)^{10} - 1} + i$	0.136 (2)
Annualized Capital Cost [Calculate: (1) x (2)]	\$ 353,600 (3)
Annual Cost of Operation and Maintenance (including but not limited to monitoring, inspection, permitting fees, waste disposal charges, repair, administration and replacement)**	\$ 174,000 (4)
Total Annual Cost of Pollution Control Project [(3) + (4)]	\$ 527,600 (5)

* While actual payback schedules may differ across projects and companies, assume equal annual payments over a 10-year period for consistency in comparing projects.

** For recurring costs that occur less frequently than once a year, pro rate the cost over the relevant number of years (e.g., for pumps replaced once every three years, include one-third of the cost in each year).

4.04 ALTERNATIVE 4:

REUSE/RECYCLE (OFF-SITE PUBLIC ACCESS & RESTRICTED ACCESS PROJECT)

Calculation of Total Annualized Project Costs for Private-Sector Projects

Capital Costs to be Financed (Supplied by applicant)	\$ 2,100,000 (1)
Interest rate for Financing (Expressed as a decimal)	0.06 (i)
Time Period of Financing (Assume 10 years*)	10 years (n)
Annualization Factor = $\frac{i}{(1+i)^{10} - 1} + i$	0.136 (2)
Annualized Capital Cost [Calculate: (1) x (2)]	\$ 285,600 (3)
Annual Cost of Operation and Maintenance (including but not limited to monitoring, inspection, permitting fees, waste disposal charges, repair, administration and replacement)**	\$ 221,000 (4)
Total Annual Cost of Pollution Control Project [(3) + (4)]	\$ 506,600 (5)

* While actual payback schedules may differ across projects and companies, assume equal annual payments over a 10-year period for consistency in comparing projects.

** For recurring costs that occur less frequently than once a year, pro rate the cost over the relevant number of years (e.g., for pumps replaced once every three years, include one-third of the cost in each year).

4.05 ALTERNATIVE 5:

PROCESS/TREATMENT ALTERNATIVES (ADVANCED TREATMENT + SURFACE WATER DISCHARGE TO CATOMA CREEK)

Calculation of Total Annualized Project Costs for Private-Sector Projects

Capital Costs to be Financed (Supplied by applicant)	<u>\$ 1,450,000 (1)</u>
Interest rate for Financing (Expressed as a decimal)	<u>0.06 (i)</u>
Time Period of Financing (Assume 10 years*)	<u>10 years (n)</u>
Annualization Factor = $\frac{i}{(1+i)^{10} - 1} + i$	<u>0.136 (2)</u>
Annualized Capital Cost [Calculate: (1) x (2)]	<u>\$ 197,200 (3)</u>
Annual Cost of Operation and Maintenance (including but not limited to monitoring, inspection, permitting fees, waste disposal charges, repair, administration and replacement)**	<u>\$ 164,400 (4)</u>
Total Annual Cost of Pollution Control Project [(3) + (4)]	<u>\$ 361,600 (5)</u>

* While actual payback schedules may differ across projects and companies, assume equal annual payments over a 10-year period for consistency in comparing projects.

** For recurring costs that occur less frequently than once a year, pro rate the cost over the relevant number of years (e.g., for pumps replaced once every three years, include one-third of the cost in each year).

4.06 ALTERNATIVE 6:

ON-SITE/SUB-SURFACE DISPOSAL (AT SAME SITE AS LAND APPLICATION DISPOSAL)

Calculation of Total Annualized Project Costs for Private-Sector Projects

Capital Costs to be Financed (Supplied by applicant)	<u>\$ 1,970,000 (1)</u>
Interest rate for Financing (Expressed as a decimal)	<u>0.06 (i)</u>
Time Period of Financing (Assume 10 years*)	<u>10 years (n)</u>
Annualization Factor = $\frac{i}{(1+i)^{10} - 1} + i$	<u>0.136 (2)</u>
Annualized Capital Cost [Calculate: (1) x (2)]	<u>\$ 267,920 (3)</u>
Annual Cost of Operation and Maintenance (including but not limited to monitoring, inspection, permitting fees, waste disposal charges, repair, administration and replacement)**	<u>\$ 195,000 (4)</u>
Total Annual Cost of Pollution Control Project [(3) + (4)]	<u>\$ 462,920 (5)</u>

* While actual payback schedules may differ across projects and companies, assume equal annual payments over a 10-year period for consistency in comparing projects.

** For recurring costs that occur less frequently than once a year, pro rate the cost over the relevant number of years (e.g., for pumps replaced once every three years, include one-third of the cost in each year).

5.0 SUMMARY

The analysis of alternatives was based on several assumptions. We will discuss the methodology and assumptions which went into the cost analysis for each alternative in this section.

Alternative 4.01 Land Application was considered for this project. The soils in this area were evaluated and primarily consist of the following general classifications (excerpted from the Web Soil Survey of Montgomery County, Alabama by the U.S. Department of Agriculture):



The soil survey indicates that 100% of the area of interest is classified as very limited (red shading) for septic tank absorption fields which would be applicable to a land application system which comprises approximately 150 acres. There is also a history of failing onsite sewer systems in the area due to the poor soils. The following describes the predominant soils series in this area in greater detail:

- **Una Series:** The Una series consists of deep, poorly drained soils on floodplains of streams in areas of the Southern Coastal Plain and Blackland Prairie Major Land Resource Areas. Permeability is very slow. Soils formed in acid clayey alluvium. The seasonal high water table is near the surface during wet periods. Slopes range from 0 to 4 percent.

- **Tuscumbia Series:** The Tuscumbia series consists of deep, poorly drained, very slowly permeable soils on flood plains. These soils formed in clayey alluvium along streams that drain areas of the Blackland Prairie Major Land Resource Area. Slopes range from 0 to 2 percent.
- **Leaf Series:** The Leaf series consists of very deep, poorly drained, very slowly permeable soils on flood plains, low terraces along streams and on broad flats in the Southern Coastal Plain and Atlantic Coast Flatwoods Major Land Resource Areas. They formed in clayey alluvial and fluvial sediments. Near the type location, the mean annual temperature is 68 degrees F., and the mean annual precipitation is 57 inches. Slopes range from 0 to 2 percent.

The review of published soil data indicates the soils are very limited for conventional on-site systems or land application. The Una clay series comprised the majority of soil area in the land around the development site. There are several obstacles to applying treated wastewater to the soils in this area. The area of the development and surrounding property is low lying, has a very shallow depth to groundwater and characterized by high shrink/swell clays that do not allow for water movement. Because of these limitations, the land requirements and related associated costs were based on an application rate of 0.05 gallons per day per square foot of disposal area. The corresponding disposal area required for the design flow (99,000 gallons per day) is approximately 60 acres (excluding the recommended expansion area and setbacks). The restrictive land application rate required for this alternative results in this option being economically non-viable.

The option of discharge to a POTW (**Part 4.02**) was included as part of this analysis. The nearest POTW is owned by MWWSSB. The nearest accessible connection point is in the Rolling Hills development. The Rolling Hills WPCP is a lagoon treatment system that was built over 45 years ago and is permitted to discharge 90,000 gallons per day. The MWWSSB has issued a moratorium on new connections that are outside of the original development plans from 1977 as the remaining capacity is reserved for any existing subdivision lots. Therefore, connection to this service area is not possible.

There is another MWWSSB service area located to the north along Alabama Highway 231. The MWWSSB extended service to the Pike Road trailer park about 10 years ago to take off a lagoon wastewater treatment system that had a history of permit violations. The lift station serving the trailer park would be the nearest connection point with some available capacity. The trailer park is approximately 10,850 feet north of the subject site and would require modification to the existing lift station, and construction of a new lift station and force main extension. Along with the infrastructure costs, sewer capacity fees are included in the total costs for this option.

The option of discharging treated wastewater at another location is included as **Part 4.03**. The outfall proposed for this option would still be located within an area identified in the EPA Section 303(d) list for impairment and would still require a discharge to Catoma Creek, at the intersection of Ramer Creek. The total drainage area would increase to roughly 260 square miles; however, the outfall line would need to cross through designated

wetlands and several private properties to access this point. Because this relocated outfall would still be located within an impaired reach, we have assumed that the effluent quality would need to meet tertiary standards. In addition to the treatment costs, there would be additional costs related to an outfall force main that would be over 3.5 miles long. The cost of this option is significantly higher than the proposed alternative.

The option of reuse/recycle (**Part 4.04**) would require significant storage for both reuse water and “reject” water. The level of treatment required for public access reuse is advanced tertiary and; we assume, would require additional disinfection, an improved metering and control system and substantially more staffing requirements. In addition, an infrastructure for the distribution of the reuse water, a public education campaign, and a means of discharging excess flow during non-growth or wet months are all considerations for this option which have been factored into the anticipated costs.

Alternative 4.05 Process/Treatment Alternatives represents advanced treatment and surface discharge to Catoma Creek. The treatment scheme suggested for this option is a conventional activated sludge plant followed by advanced chemical precipitation, filtration and disinfection. We assume the effluent quality would need to be equivalent to the minor dischargers that are currently discharging within the Catoma Creek watershed.

The treatment system will be a biological waste treatment plant(s) that consists of seven (7) basic parts:

1. Surge Basin/Flow Equalization
2. Aeration Basins configured for Biological Nutrient Removal
3. Final Clarifiers
4. Chemical Feed Facilities
5. Tertiary Filters
6. Disinfection
7. Solids Holding

The purpose of the surge basin is to dampen the diurnal flow variations and limit their impact on the biological process. The incoming flow would come into a section of the plant isolated hydraulically from the aeration basin and flow would be transferred at a controlled pace to the treatment plant.

The wastewater system will be designed for biological nutrient removal in anticipation of total phosphorous limits. The biological process will include both anaerobic and anoxic zones for nutrient removal. Chemical precipitation and filtration will be required to meet the expected stringent treatment limits. Adequate redundancy and emergency stand-by capabilities will be included in the design.

The effluent quality expected at the discharge of the proposed treatment plant will be consistent with other treatment plants that are currently permitted to discharge in the watershed. This would include stringent ammonia-N limits.

Alternative 4.06 On-site/Subsurface disposal would be subjected to the same land requirements and issues described in Alternative 4.01 Land Application. However, there are 2 distinctions between these alternatives; the use of subsurface disposal would not require additional effluent storage capacity, but it would require pressure filters to remove solids that would otherwise clog drip tubing emitters. The most significant difference in the costs between these options is with the operation and maintenance duties. We anticipate that there will be additional time spent cleaning the required in-line filters (due to algae) for the sub-surface system and the overall complexity of having control wiring, automated control and isolation valves and a PLC based control system will drive the ongoing costs higher.

RECOMMENDATION

Alternative 4.05 Process/Treatment Alternatives has been selected as the best option for this system. This system will be similar in design to several successfully operating treatment facilities which have tight permit limits. The proposed system will feature an activated sludge process with biological nutrient removal capabilities. Chemical addition and tertiary filtration will be provided to enhance total phosphorous reduction and provide a physical barrier for solids capture. In addition, process redundancy and emergency stand-by power will be vital components of the new system.

Torbert, Shanda R

From: wynnechols@engineersofthesouth.com
Sent: Monday, January 27, 2025 6:23 PM
To: Torbert, Shanda R
Subject: RE: Pike Road CWF Anti-Deg
Attachments: Force Main Extension to Site.pdf

Shanda,

As discussed in the summary, the closest connection to the MWWSB system is out of capacity and under a moratorium on new connections. Alternative 2 would require an extension to a connection to the Pike Road Village Mobile Home Park lift station. I have attached a Google earth image of the route for this extension. It is approximately 10,850 LF of force main required from the site to the lift station at Pike Road Village MHP. I have also included a breakdown in costs below.

- Force Main Extension from Pike Road CWF site to Pike Road Village MHP: \$1,218,500 (see breakdown below)
 - Approx. 1,100 LF of 8" Diameter pipe to be installed by horizontal directional drilling at 3 bridges along Highway 216 @ \$250/LF = \$275,000
 - Approx. 150 LF of 8" Diameter pipe to be installed by Jack & Bore installation at Highway 216 crossing @ \$850/LF = \$127,500
 - Approx. 9,600 of 8" diameter force main pipe @ \$85/LF = \$816,000
- New Lift Station at Pike Road CWF site to pump to Pike Village MHP: \$260,000
- Upgrades to lift station at Pike Road Village MHP for increased capacity: \$150,000
- Capacity charge paid to MWWSB: \$600,000
 - \$1,500 per EDU x 400 EDU's = \$600,000

The summary above is \$2,228,500. However, we are now aware that the Pike Road MHP lift station is a privately-owned lift with a 6" diameter force main (approximately 5.550 LF) that connects to a gravity manhole owned by MWWSB. This section of force main would also need to be replaced to accommodate the additional flow from the Pike Road CWF system. The additional cost would be:

- Replace approx.. 6,000 LF of the existing 6" diameter force main from the Pike Road Village MHP to gravity sewer connection: 5,500 LF at \$85/LF = \$467,500

We believe the cost will be close to \$2.7m for this option. There may be additional costs associated with negotiations with the owner of the Pike Road MHP for use of the private system components.

Please let me know if you have any further questions.

Thanks,
Wynn

Wynn Echols, Jr.
Engineers of the South
208 Oak Mountain Circle
Pelham, AL 35124

Office: (205) 327-9140
Cell: (205) 516-3307

From: Torbert, Shanda R <STorbert@adem.alabama.gov>
Sent: Monday, January 27, 2025 10:01 AM
To: wynnechols@engineersofthesouth.com
Subject: Pike Road CWF Anti-Deg

Dear Mr. Echols:

The Department reviewed the Anti-degradation for Pike Road CWF; however, alternative 2 is very close to the 110% amount for the chosen project. Can you please more details on your expenses? Thank you.

Sincerely,
Shanda Torbert

Shanda Torbert
Municipal Section
Water Division
Alabama Department of Environmental Management
Post Office Box 301463, Montgomery, AL 36130-1463
Phone - (334) 271-7800
Fax - (334) 271-7800
adem.alabama.gov

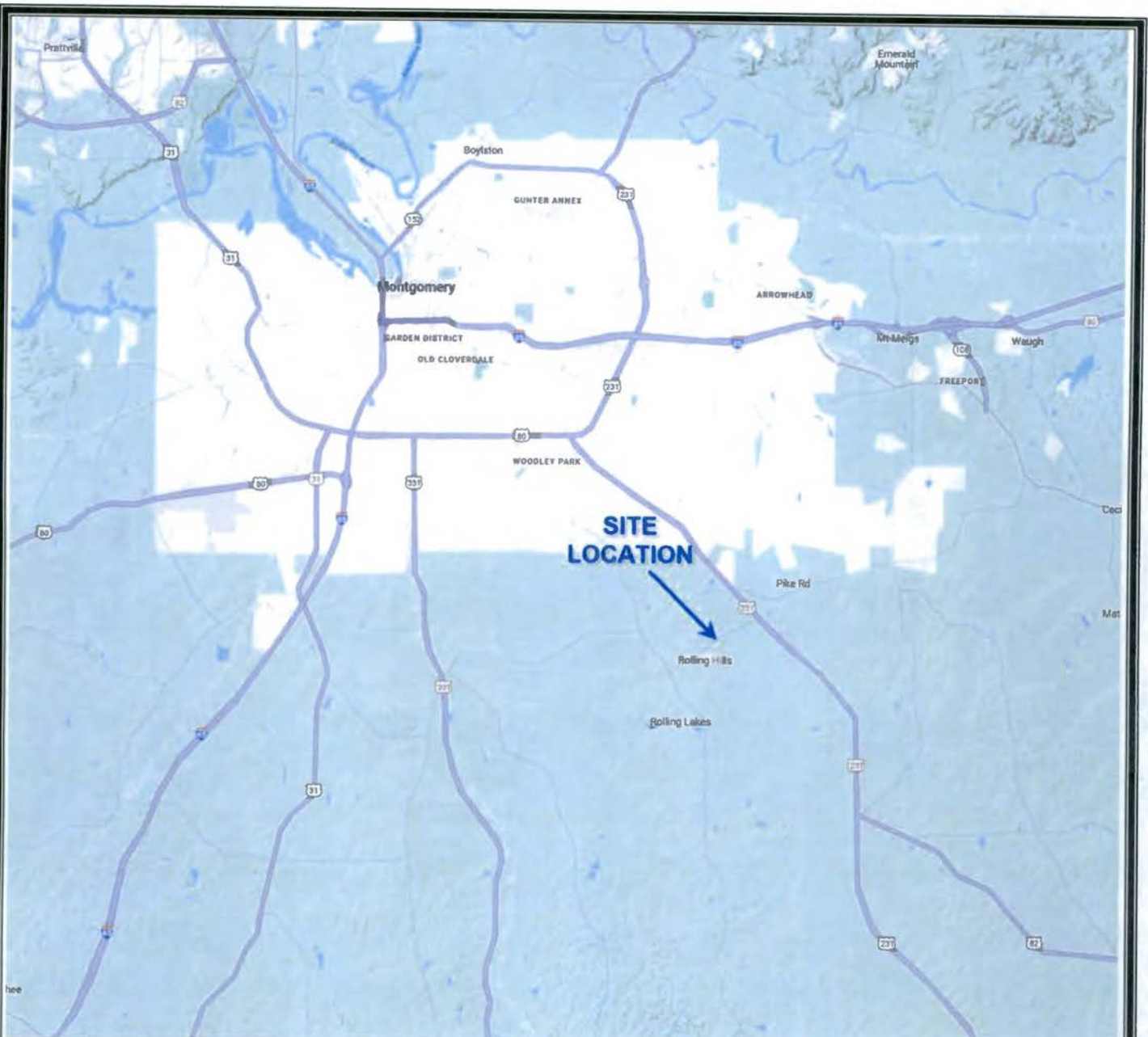


Mission: Assure for all citizens of the state a safe, healthful and productive environment

NEW ADEM ELECTRONIC SYSTEM: Alabama Environmental Permitting and Compliance System (AEPACS)

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. For general information about AEPACS, go to: <http://adem.alabama.gov/egov/AEPACS.cnt>. For NPDES and SID program specific information about AEPACS, go to <http://adem.alabama.gov/egov/AEPACSwater.cnt>.

If you have questions or need assistance with AEPACS, please contact the ADEM Web Portal/AEPACS Help Desk at ademwebportal@adem.alabama.gov. The email box is monitored Monday through Friday, 7:00 am – 5:00 pm.



PROJECT VICINITY MAP



ENGINEERS OF THE SOUTH

Subject:
PIKE ROAD CLEAN WATER FACILITY
Location Maps

FIGURE 2 – CWF Site Location Map
Montgomery County, Alabama
Scale as Noted

Force Main Extension to Site from Pike Road Trailer Park

Write a description for your map.

Legend

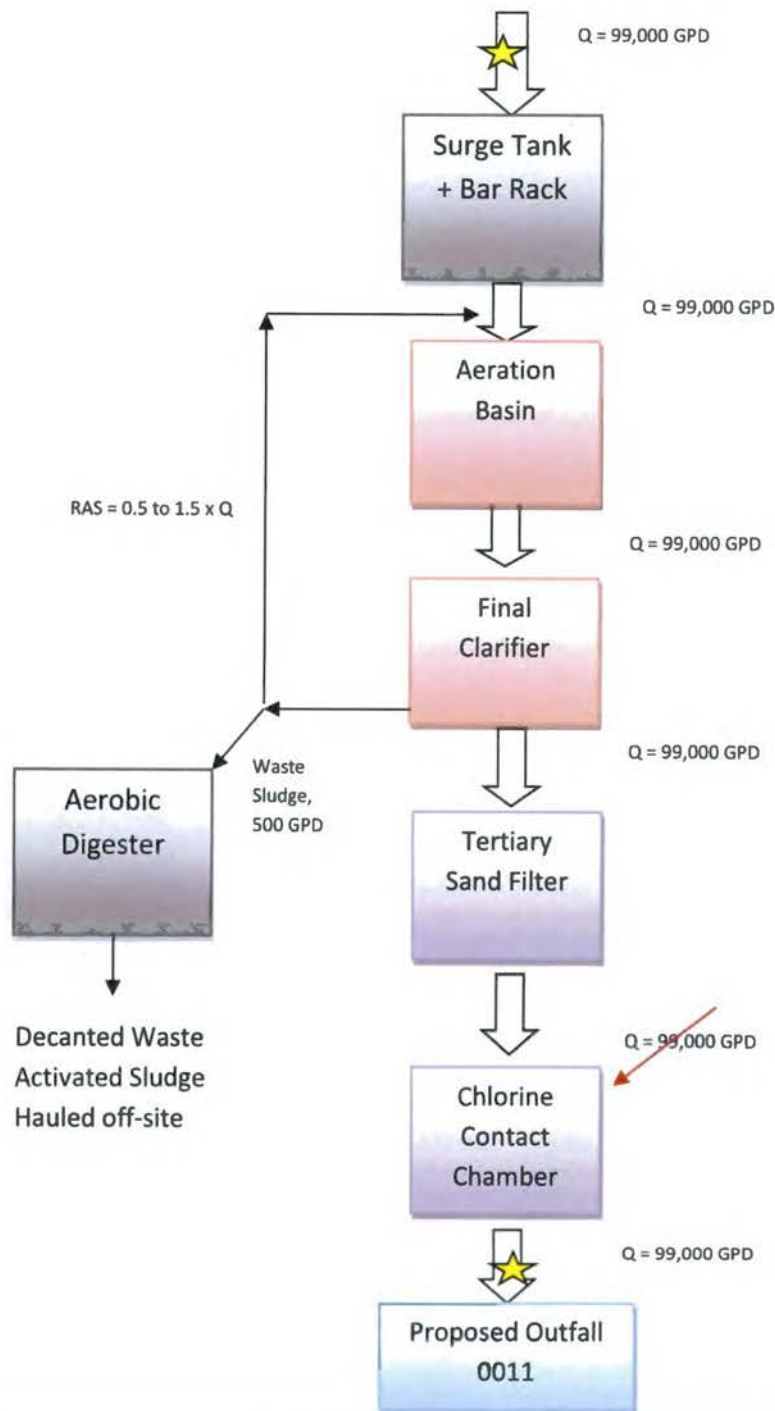
- 0 ft
- Chevron
- Feature 1
- Feature 2
- Feature 3
- Feature 4
- Feature 5
- Path Measure
- Pike Rd
- SweetCreek Farm Market
- Transportation Department

Google Earth

Image © 2025 Airbus

1 mi





PIKE ROAD CWF FLOW SCHEMATIC

PIKE ROAD DEVELOPMENT

PIKE ROAD, MONTGOMERY CO., AL

LEGEND

-  Sample Location
-  Flow Direction
-  Chemical Addition

Water Permits Division



Application Form 2S

New and Existing Treatment Works Treating Domestic Sewage

NPDES Permitting Program

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Note: Complete Form 2S if you are a new or existing treatment works treating domestic sewage.

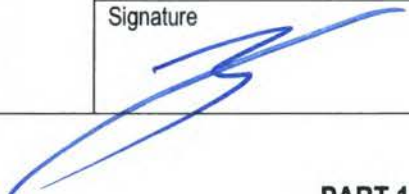
EPA Identification Number		NPDES Permit Number		Facility Name Pike Road CWF		OMB No. 2040-0004 Expires 07/31/2026		
Form 2S NPDES		U.S Environmental Protection Agency Application for NPDES Permit for Sewage Sludge Management NEW AND EXISTING TREATMENT WORKS TREATING DOMESTIC SEWAGE						
PRELIMINARY INFORMATION								
Does your facility currently have an effective NPDES permit or have you been directed by your NPDES permitting authority to submit a full Form 2S permit application?								
☐ Yes → Complete Part 2 of application package (begins p. 7). ☒ No → Complete Part 1 of application package (below).								
Part 1		LIMITED BACKGROUND INFORMATION (40 CFR 122.21(c)(2)(ii))						
Complete this part only if you are a "sludge-only" facility (i.e., a facility that does not currently have, and is not applying for, an NPDES permit for a direct discharge to a surface body of water).								
PART 1, SECTION 1. FACILITY INFORMATION (40 CFR 122.21(C)(2)(II)(A))								
Facility Information	1.1	Facility name Pike Road Clean Water Facility Mailing address (street or P.O. box) 5455 Troy Highway City or town Montgomery State AL ZIP code 36116 Contact name (first and last) Zac Gibbs Title Manager, Pike Road Phone number 3346572181 Email address zgibbs@halsteadllc.com Location address (street, route number, or other specific identifier) Trotman Dr., Pike Road, AL 36064 Coordinates: 32° 15' 12.41" N, 86° 10' 01" ☐ Same as mailing address City or town Pike Road State AL ZIP code 36064						
	1.2	Ownership Status ☐ Public—federal ☐ Public—state ☐ Other public (specify) _____ ☒ Private ☐ Other (specify) _____						
	PART 1, SECTION 2. APPLICANT INFORMATION (40 CFR 122.21(C)(2)(II)(B))							
	Applicant Information	2.1	Is applicant different from entity listed under Item 1.1 above? ☒ Yes ☐ No → SKIP to Item 2.3 (Part 1, Section 2).					
		2.2	Applicant name Pike Road Sewer, LLC Applicant address (street or P.O. box) 5455 Troy Highway City or town Pelham State Alabama ZIP code 35124 Contact name (first and last) Zac Gibbs Title Manager Phone number 3346572181 Email address zgibbs@halsteadllc.com					
		2.3	Is the applicant the facility's owner, operator, or both? (Check only one response.) ☒ Owner ☐ Operator ☐ Both					
		2.4	To which entity should the NPDES permitting authority send correspondence? (Check only one response.) ☐ Facility ☒ Applicant ☐ Facility and applicant (they are one and the same)					
	PART 1, SECTION 3. SEWAGE SLUDGE AMOUNT (40 CFR 122.21(C)(2)(II)(D))							
Sewage Sludge Amount	3.1	Provide the total dry metric tons per the latest 365-day period of sewage sludge generated, treated, used, and disposed of:						
		Practice					Dry Metric Tons per 365-Day Period	
		Amount generated at the facility					NA	
		Amount treated at the facility					NA	
		Amount used (i.e., received from offsite) at the facility					NA	
		Amount disposed of at the facility					NA	

PART 1, SECTION 4. POLLUTANT CONCENTRATIONS (40 CFR 122.21(C)(2)(II)(E))

Pollutant Concentrations	<u>4.1</u>	Using the table below or a separate attachment, provide existing sewage sludge monitoring data for the pollutants for which limits in sewage sludge have been established in 40 CFR 503 for your facility's expected use or disposal practices. If available, base data on three or more samples taken at least one month apart and no more than 4.5 years old. ☐ Check here if you have provided a separate attachment with this information.																																																																																					
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #d3d3d3;"> <th style="width: 30%; padding: 5px;">Pollutant</th> <th style="width: 20%; padding: 5px;">Concentration (mg/kg dry weight)</th> <th style="width: 30%; padding: 5px;">Analytical Method</th> <th style="width: 20%; padding: 5px;">Detection Level for Analysis</th> </tr> </thead> <tbody> <tr><td>Arsenic</td><td style="text-align: center;">NA</td><td></td><td></td></tr> <tr><td>Cadmium</td><td style="text-align: center;">NA</td><td></td><td></td></tr> <tr><td>Chromium</td><td style="text-align: center;">NA</td><td></td><td></td></tr> <tr><td>Copper</td><td style="text-align: center;">NA</td><td></td><td></td></tr> <tr><td>Lead</td><td style="text-align: center;">NA</td><td></td><td></td></tr> <tr><td>Mercury</td><td style="text-align: center;">NA</td><td></td><td></td></tr> <tr><td>Molybdenum</td><td style="text-align: center;">NA</td><td></td><td></td></tr> <tr><td>Nickel</td><td style="text-align: center;">NA</td><td></td><td></td></tr> <tr><td>Selenium</td><td style="text-align: center;">NA</td><td></td><td></td></tr> <tr><td>Zinc</td><td style="text-align: center;">NA</td><td></td><td></td></tr> <tr><td>Other (specify) _____</td><td></td><td></td><td></td></tr> <tr><td>Other (specify) _____</td><td></td><td></td><td></td></tr> <tr><td>Other (specify) _____</td><td></td><td></td><td></td></tr> <tr><td>Other (specify) _____</td><td></td><td></td><td></td></tr> <tr><td>Other (specify) _____</td><td></td><td></td><td></td></tr> <tr><td>Other (specify) _____</td><td></td><td></td><td></td></tr> <tr><td>Other (specify) _____</td><td></td><td></td><td></td></tr> <tr><td>Other (specify) _____</td><td></td><td></td><td></td></tr> <tr><td>Other (specify) _____</td><td></td><td></td><td></td></tr> <tr><td>Other (specify) _____</td><td></td><td></td><td></td></tr> </tbody> </table>			Pollutant	Concentration (mg/kg dry weight)	Analytical Method	Detection Level for Analysis	Arsenic	NA			Cadmium	NA			Chromium	NA			Copper	NA			Lead	NA			Mercury	NA			Molybdenum	NA			Nickel	NA			Selenium	NA			Zinc	NA			Other (specify) _____				Other (specify) _____				Other (specify) _____				Other (specify) _____				Other (specify) _____				Other (specify) _____				Other (specify) _____				Other (specify) _____				Other (specify) _____				Other (specify) _____			
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Page 3

EPA Identification Number	NPDES Permit Number	Facility Name Pike Road CWF		OMB No. 2040-0004 Expires 07/31/2026
PART 1, SECTION 7. USE AND DISPOSAL SITES (40 CFR 122.21(C)(2)(II)(C))				
Use and Disposal Sites	Provide the following information for each site on which sewage sludge from this facility is used or disposed of. ☐ Check here if you have provided separate attachments with this information.			
	<u>7.1</u> Site name or number			
	Mailing address (street or P.O. box)			
	City or town		State	ZIP code
	Contact name (first and last)	Title	Phone number	Email address
	Location address (street, route number, or other specific identifier)			☐ Same as mailing address
	City or town		State	ZIP code
	County		County code	☐ Not available
	<u>7.2</u> Site type (check all that apply)			
	☐ Agricultural ☐ Lawn or home garden ☐ Forest ☐ Surface disposal ☐ Public contact ☐ Incineration ☐ Reclamation ☐ Municipal solid waste landfill ☐ Other (describe)			
PART 1, SECTION 8. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(A) AND (D))				
Checklist and Certification Statement	<u>8.1</u> In Column 1 below, mark the sections of Form 2S, Part 1, that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments.			
	Column 1		Column 2	
	☒ Section 1: Facility Information		☐ w/ attachments	
	☒ Section 2: Applicant Information		☐ w/ attachments	
	☒ Section 3: Sewage Sludge Amount		☐ w/ attachments	
	☐ Section 4: Pollutant Concentrations		☐ w/ attachments	
	☒ Section 5: Treatment Provided at Your Facility		☐ w/ attachments	
	☒ Section 6: Sewage Sludge Sent to Other Facilities		☐ w/ attachments	
	☐ Section 7: Use and Disposal Sites		☐ w/ attachments	
	☒ Section 8: Checklist and Certification Statement			

EPA Identification Number		NPDES Permit Number	Facility Name Pike Road CWF	OMB No. 2040-0004 Expires 07/31/2026
Checklist and Certification Statement Continued	<u>8.2</u>	Provide the following certification. (See instructions to determine the appropriate person to submit the application.)		
	Certification Statement <i>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>			
	Name (print or type first and last name) Zac Gibbs		Official title Manager, Pike Road Sewer, LLC	Phone number (334) 657-2181
Signature 		Date signed 7/29/24		

PART 1 APPLICANTS STOP HERE.

Submit completed application package to your NPDES permitting authority.

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EPA Identification Number	NPDES Permit Number	Facility Name Pike Road CWF	OMB No. 2040-0004 Expires 07/31/2026																
PART 2		PERMIT APPLICATION INFORMATION (40 CFR 122.21(q))																	
Complete this part if you have an effective NPDES permit or have been directed by the NPDES permitting authority to submit a full permit application. In other words, complete this part if your facility has, or is applying for, an NPDES permit. Part 2 is divided into five sections. Section 1 pertains to all applicants. The applicability of Sections 2 to 5 depends on your facility's sewage sludge use or disposal practices. See the instructions to determine which sections you are required to complete.																			
PART 2, SECTION 1. GENERAL INFORMATION (40 CFR 122.21(Q)(1 7) AND (Q)(13))																			
General Information	All Part 2 applicants must complete this section.																		
	Facility Information																		
	1.1 Facility name Pike Road Clean Water Facility Mailing address (street or P.O. box) Trotman Dr., Pike Road, AL 36064 Coordinates: 32° 15' 12.41" N, 86° 10' 01.98" W <table style="width:100%; border: none;"> <tr> <td style="border: none;">City or town Montgomery</td> <td style="border: none;">State AL</td> <td style="border: none;">ZIP code 36116</td> <td style="border: none;">Phone number (334) 657-2181</td> </tr> <tr> <td style="border: none;">Contact name (first and last) Zac Gibbs</td> <td style="border: none;">Title Manager</td> <td colspan="2" style="border: none;">Email address zgibbs@hasteadllc.com</td> </tr> <tr> <td colspan="4" style="border: none;"> Location address (street, route number, or other specific identifier) Trotman Dr., Pike Road, AL 36064 Coordinates: 32° 15' 12.41" N, 86° 10' 01.98" W ☐ Same as mailing address </td> </tr> <tr> <td style="border: none;">City or town Pike Road</td> <td style="border: none;">State AL</td> <td colspan="2" style="border: none;">ZIP code 36064</td> </tr> </table>			City or town Montgomery	State AL	ZIP code 36116	Phone number (334) 657-2181	Contact name (first and last) Zac Gibbs	Title Manager	Email address zgibbs@hasteadllc.com		Location address (street, route number, or other specific identifier) Trotman Dr., Pike Road, AL 36064 Coordinates: 32° 15' 12.41" N, 86° 10' 01.98" W ☐ Same as mailing address				City or town Pike Road	State AL	ZIP code 36064	
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	City or town Pike Road	State AL	ZIP code 36064																
	1.2 Is this facility a Class I sludge management facility? ☐ Yes ☒ No																		
	1.3 Facility Design Flow Rate 0.099 million gallons per day (mgd)																		
	1.4 Total Population Served 1,200																		
	1.5 Ownership Status ☐ Public—federal ☐ Public—state ☐ Other public (specify) _____ ☒ Private ☐ Other (specify) _____																		
	Applicant Information																		
	1.6 Is applicant different from entity listed under Item 1.1 above? ☐ Yes ☒ No → SKIP to Item 1.8 (Part 2, Section 1).																		
	1.7 Applicant name Pike Road Sewer, LLC Applicant mailing address (street or P.O. box) 5455 Troy Highway <table style="width:100%; border: none;"> <tr> <td style="border: none;">City or town Montgomery</td> <td style="border: none;">State AL</td> <td style="border: none;">ZIP code 36116</td> </tr> <tr> <td style="border: none;">Contact name (first and last) Zac Gibbs</td> <td style="border: none;">Title Manager</td> <td style="border: none;"> Phone number (334) 657-2181 Email address zgibbs@halstead.com </td> </tr> </table>			City or town Montgomery	State AL	ZIP code 36116	Contact name (first and last) Zac Gibbs	Title Manager	Phone number (334) 657-2181 Email address zgibbs@halstead.com										
	City or town Montgomery	State AL	ZIP code 36116																
Contact name (first and last) Zac Gibbs	Title Manager	Phone number (334) 657-2181 Email address zgibbs@halstead.com																	
1.8 Is the applicant the facility's owner, operator, or both? (Check only one response.) ☐ Operator ☒ Owner ☐ Both																			
1.9 To which entity should the NPDES permitting authority send correspondence? (Check only one response.) ☐ Facility ☒ Applicant ☐ Facility and applicant (they are one and the same)																			

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IND/MUN BRANCH
WATER DIVISION

EPA Identification Number	NPDES Permit Number	Facility Name Pike Road CWF	OMB No. 2040-0004 Expires 07/31/2026
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General Information Continued

Permit Information			
<u>1.10</u>	Facility's NPDES permit number	NPDES Permit Number	
	☒ Check here if you do not have an NPDES permit but are otherwise required to submit Part 2 of Form 2S.		
<u>1.11</u>	Indicate all other federal, state, and local permits or construction approvals received or applied for that regulate this facility's sewage sludge management practices below. ☐ Check here if you have provided a separate attachment with this information.		
Existing Environment Permits (check all that apply and print or type the corresponding permit number for each)			
	☐ RCRA (hazardous wastes)	☐ Nonattainment program (CAA)	☐ NESHAPs (CAA)
	☐ PSD (air emissions)	☐ Dredge or fill (CWA Section 404)	☐ Other (specify)
	☐ Ocean dumping (MPRSA)	☐ UIC (underground injection of fluids)	
Indian Country			
<u>1.12</u>	Does any generation, treatment, storage, application to land, or disposal of sewage sludge from this facility occur in Indian Country? ☐ Yes ☒ No → SKIP to Item 1.14 (Part 2, Section 1) below.		
<u>1.13</u>	Provide a description of the generation, treatment, storage, land application, or disposal of sewage sludge that occurs.		
Topographic Map			
<u>1.14</u>	Have you attached a topographic map containing all required information to this application? (See instructions for specific requirements.) ☒ Yes		
Line Drawing			
<u>1.15</u>	Have you attached a line drawing and/or a narrative description that identifies all sewage sludge practices that will be employed during the term of the permit containing all the required information to this application? (See instructions for specific requirements.) ☒ Yes		
Contractor Information			
<u>1.16</u>	Do contractors have any operational or maintenance responsibilities related to sewage sludge generation, treatment, use, or disposal at the facility? ☒ Yes ☐ No → SKIP to Item 1.18 (Part 2, Section 1) below.		
<u>1.17</u>	Provide the following information for each contractor. ☐ Check here if you have attached additional sheets to the application package.		
		Contractor 1	Contractor 2
	Contractor company name	EOS Utility Services, LLC	
	Mailing address (street or P.O. box)	206-A Oak Mountain Cir	
	City, state, and ZIP code	Pelham, AL 35124	
	Contact name (first and last)	Mike Walraven	
	Telephone number	(205) 929-7261	
	Email address	mike@eosutilityservices	

EPA Identification Number	NPDES Permit Number	Facility Name Pike Road CWF		OMB No. 2040-0004 Expires 07/31/2026
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General Information Continued

<u>1.17</u>	cont. Responsibilities of contractor	Contractor 1 provide contract operations using certified operators	Contractor 2	Contractor 3
-------------	--------------------------------------	--	---------------------	---------------------

Pollutant Concentrations

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

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

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

Checklist and Certification Statement

1.19

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

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

1.20

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) Zac Gibbs	Official title Manager, Pike Road Sewer, LLC
Signature 	Date signed 7/29/24
Telephone number (334) 657-2181	

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

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EPA Identification Number	NPDES Permit Number	Facility Name Pike Road CWF	OMB No. 2040-0004 Expires 07/31/2026
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PART 2, SECTION 2. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE (40 CFR 122.21(Q)(8) THROUGH (12))

Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge	<u>2.1</u>	Does your facility generate sewage sludge or derive a material from sewage sludge?																
		☒ Yes ☐ No → SKIP to Part 2, Section 3.																
	Amount Generated Onsite																	
	<u>2.2</u>	Total dry metric tons per 365-day period generated at your facility:		23														
	Amount Received from Offsite Facility																	
	<u>2.3</u>	Does your facility receive sewage sludge from another facility for treatment use or disposal?																
		☐ Yes ☒ No → SKIP to Item 2.8 (Part 2, Section 2) below.																
	<u>2.4</u>	Indicate the total number of facilities from which you receive sewage sludge for treatment, use, or disposal:																
	Provide the following information for each of the facilities from which you receive sewage sludge. ☐ Check here if you have attached additional sheets to the application package.																	
	<u>2.5</u>	Name of facility Mailing address (street or P.O. box) <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">City or town</td> <td style="width: 20%; border: none;">State</td> <td style="width: 30%; border: none;">ZIP code</td> </tr> <tr> <td style="border: none;">Contact name (first and last)</td> <td style="border: none;">Title</td> <td style="border: none;">Phone number</td> </tr> <tr> <td colspan="2" style="border: none;">Location address (street, route number, or other specific identifier)</td> <td style="border: none;">☐ Same as mailing address</td> </tr> <tr> <td style="border: none;">City or town</td> <td style="border: none;">State</td> <td style="border: none;">ZIP code</td> </tr> <tr> <td style="border: none;">County</td> <td style="border: none;">County code</td> <td style="border: none;">☐ Not available</td> </tr> </table>			City or town	State	ZIP code	Contact name (first and last)	Title	Phone number	Location address (street, route number, or other specific identifier)		☐ Same as mailing address	City or town	State	ZIP code	County	County code
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Location address (street, route number, or other specific identifier)		☐ Same as mailing address																
City or town	State	ZIP code																
County	County code	☐ Not available																
<u>2.6</u>	Indicate the amount of sewage sludge received, the applicable pathogen class and reduction alternative, and the applicable vector reduction option provided at the offsite facility.																	
	Amount (dry metric tons)	Vector Attraction Reduction Option																
	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; vertical-align: top;"> ☐ Not applicable ☐ Class A, Alternative 1 ☐ Class A, Alternative 2 ☐ Class A, Alternative 3 ☐ Class A, Alternative 4 ☐ Class A, Alternative 5 ☐ Class A, Alternative 6 ☐ Class B, Alternative 1 ☐ Class B, Alternative 2 ☐ Class B, Alternative 3 ☐ Class B, Alternative 4 ☐ Domestic septage, pH adjustment </td> <td style="width: 50%; border: none; vertical-align: top;"> ☐ Not applicable ☐ Option 1 ☐ Option 2 ☐ Option 3 ☐ Option 4 ☐ Option 5 ☐ Option 6 ☐ Option 7 ☐ Option 8 ☐ Option 9 ☐ Option 10 ☐ Option 11 </td> </tr> </table>			☐ Not applicable ☐ Class A, Alternative 1 ☐ Class A, Alternative 2 ☐ Class A, Alternative 3 ☐ Class A, Alternative 4 ☐ Class A, Alternative 5 ☐ Class A, Alternative 6 ☐ Class B, Alternative 1 ☐ Class B, Alternative 2 ☐ Class B, Alternative 3 ☐ Class B, Alternative 4 ☐ Domestic septage, pH adjustment	☐ Not applicable ☐ Option 1 ☐ Option 2 ☐ Option 3 ☐ Option 4 ☐ Option 5 ☐ Option 6 ☐ Option 7 ☐ Option 8 ☐ Option 9 ☐ Option 10 ☐ Option 11													
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<u>2.7</u>	Identify the treatment process(es) that are known to occur at the offsite facility, including blending activities and treatment to reduce pathogens or vector attraction properties. (Check all that apply.)																	
	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; vertical-align: top;"> ☐ Preliminary operations (e.g., sludge grinding and degritting) ☒ Stabilization ☐ Composting ☐ Disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization) ☐ Heat drying ☐ Methane or biogas capture and recovery </td> <td style="width: 50%; border: none; vertical-align: top;"> ☐ Thickening (concentration) ☐ Anaerobic digestion ☐ Conditioning ☐ Dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons) ☐ Thermal reduction ☐ Other (specify) _____ </td> </tr> </table>			☐ Preliminary operations (e.g., sludge grinding and degritting) ☒ Stabilization ☐ Composting ☐ Disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization) ☐ Heat drying ☐ Methane or biogas capture and recovery	☐ Thickening (concentration) ☐ Anaerobic digestion ☐ Conditioning ☐ Dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons) ☐ Thermal reduction ☐ Other (specify) _____													
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Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge Continued

<u>2.8</u>	For each sewage sludge use or disposal practice, indicate the applicable pathogen class and reduction alternative and the applicable vector attraction reduction option provided at your facility. Attach additional pages, as necessary. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Use or Disposal Practice (check one)</th> <th style="width: 30%;">Pathogen Class and Reduction Alternative</th> <th style="width: 30%;">Vector Attraction Reduction Option</th> </tr> </thead> <tbody> <tr> <td>☐ Land application of bulk sewage</td> <td>☐ Not applicable</td> <td>☐ Not applicable</td> </tr> <tr> <td>☐ Land application of biosolids (bulk)</td> <td>☐ Class A, Alternative 1</td> <td>☐ Option 1</td> </tr> <tr> <td>☐ Land application of biosolids (bags)</td> <td>☐ Class A, Alternative 2</td> <td>☐ Option 2</td> </tr> <tr> <td>☐ Disposal in a landfill</td> <td>☐ Class A, Alternative 3</td> <td>☐ Option 3</td> </tr> <tr> <td>☐ Surface disposal</td> <td>☐ Class A, Alternative 4</td> <td>☐ Option 4</td> </tr> <tr> <td>☐ Incineration</td> <td>☐ Class A, Alternative 5</td> <td>☐ Option 5</td> </tr> <tr> <td></td> <td>☐ Class A, Alternative 6</td> <td>☐ Option 6</td> </tr> <tr> <td></td> <td>☐ Class B, Alternative 1</td> <td>☐ Option 7</td> </tr> <tr> <td></td> <td>☐ Class B, Alternative 2</td> <td>☐ Option 8</td> </tr> <tr> <td></td> <td>☐ Class B, Alternative 3</td> <td>☐ Option 9</td> </tr> <tr> <td></td> <td>☐ Class B, Alternative 4</td> <td>☐ Option 10</td> </tr> <tr> <td></td> <td>☐ Domestic septage, pH adjustment</td> <td>☐ Option 11</td> </tr> </tbody> </table>	Use or Disposal Practice (check one)	Pathogen Class and Reduction Alternative	Vector Attraction Reduction Option	☐ Land application of bulk sewage	☐ Not applicable	☐ Not applicable	☐ Land application of biosolids (bulk)	☐ Class A, Alternative 1	☐ Option 1	☐ Land application of biosolids (bags)	☐ Class A, Alternative 2	☐ Option 2	☐ Disposal in a landfill	☐ Class A, Alternative 3	☐ Option 3	☐ Surface disposal	☐ Class A, Alternative 4	☐ Option 4	☐ Incineration	☐ Class A, Alternative 5	☐ Option 5		☐ Class A, Alternative 6	☐ Option 6		☐ Class B, Alternative 1	☐ Option 7		☐ Class B, Alternative 2	☐ Option 8		☐ Class B, Alternative 3	☐ Option 9		☐ Class B, Alternative 4	☐ Option 10		☐ Domestic septage, pH adjustment	☐ Option 11
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<u>2.9</u>	Identify the treatment process(es) used at your facility to reduce pathogens in sewage sludge or reduce the vector attraction properties of sewage sludge? (Check all that apply.) <table style="width: 100%;"> <tr> <td>☐ Preliminary operations (e.g., sludge grinding and degritting)</td> <td>☐ Thickening (concentration)</td> </tr> <tr> <td>☒ Stabilization</td> <td>☐ Anaerobic digestion</td> </tr> <tr> <td>☐ Composting</td> <td>☐ Conditioning</td> </tr> <tr> <td>☐ Disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization)</td> <td>☐ Dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons)</td> </tr> <tr> <td>☐ Heat drying</td> <td>☐ Thermal reduction</td> </tr> <tr> <td>☐ Methane or biogas capture and recovery</td> <td></td> </tr> </table>	☐ Preliminary operations (e.g., sludge grinding and degritting)	☐ Thickening (concentration)	☒ Stabilization	☐ Anaerobic digestion	☐ Composting	☐ Conditioning	☐ Disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization)	☐ Dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons)	☐ Heat drying	☐ Thermal reduction	☐ Methane or biogas capture and recovery																												
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<u>2.10</u>	Describe any other sewage sludge treatment or blending activities not identified in Items 2.8 and 2.9 (Part 2, Section 2) above. ☐ Check here if you have attached the description to the application package.																																							
Preparation of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements, and One of Vector Attraction Reduction Options 1 to 8																																								
<u>2.11</u>	Does the sewage sludge from your facility meet the ceiling concentrations in Table 1 of 40 CFR 503.13, the pollutant concentrations in Table 3 of 40 CFR 503.13, Class A pathogen reduction requirements at 40 CFR 503.32(a), and one of the vector attraction reduction requirements at 40 CFR 503.33(b)(1)–(8) and is it land applied? ☐ Yes ☒ No → SKIP to Item 2.14 (Part 2, Section 2) below.																																							
<u>2.12</u>	Total dry metric tons per 365-day period of sewage sludge subject to this subsection that is applied to the land:																																							
<u>2.13</u>	Is sewage sludge subject to this subsection placed in bags or other containers for sale or give-away for application to the land? ☐ Yes ☐ No																																							
☐ Check here once you have completed Items 2.11 to 2.13, then → SKIP to Item 2.32 (Part 2, Section 2) below.																																								

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

Sale or Give-Away in a Bag or Other Container for Application to the Land			
2.14	Do you place sewage sludge in a bag or other container for sale or give-away for land application?		
	☐ Yes		☒ No → SKIP to Item 2.17 (Part 2, Section 2) below.
2.15	Total dry metric tons per 365-day period of sewage sludge placed in a bag or other container at your facility for sale or give-away for application to the land:		
2.16	Attach a copy of all labels or notices that accompany the sewage sludge being sold or given away in a bag or other container for application to the land.		
	☐ Check here to indicate that you have attached all labels or notices to this application package.		
☐ Check here once you have completed Items 2.14 to 2.16, then → SKIP to Part 2, Section 2, Item 2.32.			
Shipment Offsite for Treatment or Blending			
2.17	Does another facility provide treatment or blending of your facility's sewage sludge? (This question does not pertain to dewatered sludge sent directly to a land application or surface disposal site.)		
	☒ Yes		☐ No → SKIP to Item 2.27 (Part 2, Section 2) below.
2.18	Indicate the total number of facilities that provide treatment or blending of your facility's sewage sludge. Provide the information in Items 2.19 to 2.26 (Part 2, Section 2) below for each facility.		1
	☐ Check here if you have attached additional sheets to the application package.		
2.19	Name of receiving facility Eclectic WWTP		
	Mailing address (street or P.O. box) 507 Main Street		
	City or town Eclectic	State AL	ZIP code 36024
	Contact name (first and last) Steve McDonald	Title Operator	Phone number (334) 812-0425
	Email address mcdonaldwastewaterservices@		
	Location address (street, route number, or other specific identifier) 700 North College Ave.		☐ Same as mailing address
	City or town Eclectic	State AL	ZIP code 36024
2.20	Total dry metric tons per 365-day period of sewage sludge provided to receiving facility:		23
2.21	Does the receiving facility provide additional treatment to reduce pathogens in sewage sludge from your facility or reduce the vector attraction properties of sewage sludge from your facility?		
	☒ Yes		☐ No → SKIP to Item 2.24 (Part 2, Section 2) below.
2.22	Indicate the pathogen class and reduction alternative and the vector attraction reduction option met for the sewage sludge at the receiving facility.		
	Pathogen Class and Reduction Alternative		Vector Attraction Reduction Option
	☒ Not applicable ☐ Class A, Alternative 1 ☐ Class A, Alternative 2 ☐ Class A, Alternative 3 ☐ Class A, Alternative 4 ☐ Class A, Alternative 5 ☐ Class A, Alternative 6 ☐ Class B, Alternative 1 ☐ Class B, Alternative 2 ☐ Class B, Alternative 3 ☐ Class B, Alternative 4 ☐ Domestic septage, pH adjustment		☒ Not applicable ☐ Option 1 ☐ Option 2 ☐ Option 3 ☐ Option 4 ☐ Option 5 ☐ Option 6 ☐ Option 7 ☐ Option 8 ☐ Option 9 ☐ Option 10 ☐ Option 11

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		Pike Road CWF													
Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge Continued	2.23	Which treatment process(es) are used at the receiving facility to reduce pathogens in sewage sludge or reduce the vector attraction properties of sewage sludge from your facility? (Check all that apply.) <table border="0"> <tr> <td>☐ Preliminary operations (e.g., sludge grinding and degritting)</td> <td>☒ Thickening (concentration)</td> </tr> <tr> <td>☒ Stabilization</td> <td>☐ Anaerobic digestion</td> </tr> <tr> <td>☐ Composting</td> <td>☐ Conditioning</td> </tr> <tr> <td>☐ Disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization)</td> <td>☐ Dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons)</td> </tr> <tr> <td>☐ Heat drying</td> <td>☐ Thermal reduction</td> </tr> <tr> <td>☐ Methane or biogas capture and recovery</td> <td>☐ Other (specify) _____</td> </tr> </table>		☐ Preliminary operations (e.g., sludge grinding and degritting)	☒ Thickening (concentration)	☒ Stabilization	☐ Anaerobic digestion	☐ Composting	☐ Conditioning	☐ Disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization)	☐ Dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons)	☐ Heat drying	☐ Thermal reduction	☐ Methane or biogas capture and recovery	☐ Other (specify) _____
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	☐ Heat drying	☐ Thermal reduction													
	☐ Methane or biogas capture and recovery	☐ Other (specify) _____													
	2.24	Attach a copy of any information you provide the receiving facility to comply with the "notice and necessary information" requirement of 40 CFR 503.12(g). ☐ Check here to indicate that you have attached material.													
	2.25	Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or give-away for application to the land? ☐ Yes ☒ No → SKIP to Item 2.32 (Part 2, Section 2) below.													
	2.26	Attach a copy of all labels or notices that accompany the product being sold or given away. ☐ Check here to indicate that you have attached material.													
	☐ Check here once you have completed Items 2.17 to 2.26 (Part 2, Section 2), then → SKIP to Item 2.32 (Part 2, Section 2) below.														
	Land Application of Bulk Sewage Sludge														
	2.27	Is sewage sludge from your facility applied to the land? ☐ Yes ☒ No → SKIP to Item 2.32 (Part 2, Section 2) below.													
	2.28	Total dry metric tons per 365-day period of sewage sludge applied to all land application sites:													
2.29	Did you identify all land application sites in Part 2, Section 3 of this application? ☐ Yes ☐ No → Submit a copy of the land application plan with your application.														
2.30	Are any land application sites located in states other than the state where you generate sewage sludge or derive a material from sewage sludge? ☐ Yes ☐ No → SKIP to Item 2.32 (Part 2, Section 2) below.														
2.31	Describe how you notify the NPDES permitting authority for the states where the land application sites are located. Attach a copy of the notification. ☐ Check here if you have attached the explanation to the application package. ☐ Check here if you have attached the notification to the application package.														
Surface Disposal															
2.32	Is sewage sludge from your facility placed on a surface disposal site? ☐ Yes ☒ No → SKIP to Item 2.39 (Part 2, Section 2) below.														
2.33	Total dry metric tons of sewage sludge from your facility placed on all surface disposal sites per 365-day period:														
2.34	Do you own or operate all surface disposal sites to which you send sewage sludge for disposal? ☐ Yes → SKIP to Item 2.39 (Part 2, Section 2) below. ☐ No														
2.35	Indicate the total number of surface disposal sites to which you send your sewage sludge. (Provide the information in Items 2.36 to 2.38 of Part 2, Section 2, for each facility.) ☐ Check here if you have attached additional sheets to the application package.														

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Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge Continued	2.36	Site name or number of surface disposal site you do not own or operate		
		Mailing address (street or P.O. box)		
		City or town	State	ZIP code
		Contact name (first and last)	Title	Phone number Email address
	2.37	Site contact (check all that apply) ☐ Owner ☐ Operator		
	2.38	Total dry metric tons of sewage sludge from your facility placed on this surface disposal site per 365-day period:		
	Incineration			
	2.39	Is sewage sludge from your facility fired in a sewage sludge incinerator? ☐ Yes ☒ No → SKIP to Item 2.46 (Part 2, Section 2) below.		
	2.40	Total dry metric tons of sewage sludge from your facility fired in all sewage sludge incinerators per 365-day period:		
	2.41	Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired? ☐ Yes → SKIP to Item 2.46 (Part 2, Section 2) below. ☐ No		
	2.42	Indicate the total number of sewage sludge incinerators that you use but do not own or operate. (Provide the information in Items 2.43 to 2.45 directly below for each facility.) ☐ Check here if you have attached additional sheets to the application package.		
	2.43	Incinerator name or number		
		Mailing address (street or P.O. box)		
		City or town	State	ZIP code
		Contact name (first and last)	Title	Phone number Email address
	Location address (street, route number, or other specific identifier)		☐ Same as mailing address	
	City or town	State	ZIP code	
2.44	Contact (check all that apply) ☐ Incinerator owner ☐ Incinerator operator			
2.45	Total dry metric tons of sewage sludge from your facility fired in this sewage sludge incinerator per 365-day period:			
Disposal in a Municipal Solid Waste Landfill				
2.46	Is sewage sludge from your facility placed on a municipal solid waste landfill? ☐ Yes ☒ No → SKIP to Part 2, Section 3.			
2.47	Indicate the total number of municipal solid waste landfills used. (Provide the information in Items 2.48 to 2.52 directly below for each facility.) ☐ Check here if you have attached additional sheets to the application package.			
Generation of Sewage Sludge or Preparation of a Material Derived	2.48	Name of landfill		
		Mailing address (street or P.O. box)		
		City or town	State	ZIP code
		Contact name (first and last)	Title	Phone number Email address

EPA Identification Number		NPDES Permit Number		Facility Name Pike Road CWF		OMB No. 2040-0004 Expires 07/31/2026									
	Location address (street, route number, or other specific identifier)					☐ Same as mailing address									
	County			County code			☐ Not available								
	City or town			State		ZIP code									
	<u>2.49</u>		Total dry metric tons of sewage sludge from your facility placed in this municipal solid waste landfill per 365-day period:												
	<u>2.50</u>		List the numbers of all other federal, state, and local permits that regulate the operation of this municipal solid waste landfill.												
			<table border="1"> <thead> <tr> <th>Permit Number</th> <th>Type of Permit</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>					Permit Number	Type of Permit						
	Permit Number	Type of Permit													
<u>2.51</u>		Attach information to determine whether the sewage sludge meets applicable requirements for disposal of sewage sludge in a municipal solid waste landfill (e.g., results of paint filter liquids test and TCLP test). ☐ Check here to indicate you have attached the requested information.													
<u>2.52</u>		Does the municipal solid waste landfill comply with applicable criteria set forth in 40 CFR 258? ☐ Yes ☐ No													

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PART 2, SECTION 3 LAND APPLICATION OF BULK SEWAGE SLUDGE (40 CFR 122.21(Q)(9))

Land Application of Bulk Sewage Sludge	<u>3.1</u>	Does your facility apply sewage sludge to land? ☐ Yes ☒ No → SKIP to Part 2, Section 4.						
	<u>3.2</u>	Do any of the following conditions apply? - The sewage sludge meets the ceiling concentrations in Table 1 of 40 CFR 503.12, the pollutant concentrations in Table 3 of 40 CFR 503.13, Class A pathogen reduction requirements at 40 CFR 503.32(a), and one of the vector attraction reduction requirements at 40 CFR 503.33(b)(1)–(8); - The sewage sludge is sold or given away in a bag or other container for application to the land; or - You provide the sewage sludge to another facility for treatment or blending. ☐ Yes → SKIP to Part 2, Section 4. ☐ No						
	<u>3.3</u>	Complete Section 3 for every site on which the sewage sludge is applied. ☐ Check here if you have attached sheets to the application package for one or more land application sites.						
	Identification of Land Application Site							
	<u>3.4</u>	Site name or number Location address (street, route number, or other specific identifier) ☐ Same as mailing address <table style="width: 100%;"> <tr> <td style="width: 50%;">County</td> <td style="width: 50%;">County code ☐ Not available</td> </tr> <tr> <td>City or town</td> <td>State ZIP code</td> </tr> </table>	County	County code ☐ Not available	City or town	State ZIP code		
	County	County code ☐ Not available						
	City or town	State ZIP code						
	Latitude/Longitude of Land Application Site (see instructions)							
	Latitude Longitude							
	Method of Determination							
	☐ USGS map ☐ Field survey ☐ Other (specify) _____							
	<u>3.5</u>	Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location. ☐ Check here to indicate you have attached a topographic map for this site.						
	Owner Information							
	<u>3.6</u>	Are you the owner of this land application site? ☐ Yes → SKIP to Item 3.8 (Part 2, Section 3) below. ☐ No						
	<u>3.7</u>	Owner name Mailing address (street or P.O. box) <table style="width: 100%;"> <tr> <td style="width: 50%;">City or town</td> <td style="width: 20%;">State</td> <td style="width: 30%;">ZIP code</td> </tr> <tr> <td>Contact name (first and last)</td> <td>Title</td> <td>Phone number Email address</td> </tr> </table>	City or town	State	ZIP code	Contact name (first and last)	Title	Phone number Email address
	City or town	State	ZIP code					
	Contact name (first and last)	Title	Phone number Email address					
Applier Information								
<u>3.8</u>	Are you the person who applies, or who is responsible for application of, sewage sludge to this land application site? ☐ Yes → SKIP to Item 3.10 (Part 2, Section 3) below. ☐ No							
<u>3.9</u>	Applier's name Mailing address (street or P.O. box) <table style="width: 100%;"> <tr> <td style="width: 50%;">City or town</td> <td style="width: 20%;">State</td> <td style="width: 30%;">ZIP code</td> </tr> <tr> <td>Contact name (first and last)</td> <td>Title</td> <td>Phone number Email address</td> </tr> </table>	City or town	State	ZIP code	Contact name (first and last)	Title	Phone number Email address	
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Land Application of Bulk Sewage Sludge Continued

Site Type			
3.10	Type of land application:	☐ Agricultural land ☐ Forest ☐ Reclamation site ☐ Public contact site ☐ Other (describe)	
Crop or Other Vegetation Grown Onsite			
3.11	What type of crop or other vegetation is grown on this site?		
3.12	What is the nitrogen requirement for this crop or vegetation?		
Vector Attraction Reduction			
3.13	Are the vector attraction reduction requirements at 40 CFR 503.33(b)(9) and (b)(10) met when sewage sludge is applied to the land application site?	☐ Yes ☐ No → SKIP to Item 3.16 (Part 2, Section 3) below.	
3.14	Indicate which vector attraction reduction option is met. (Check only one response.)	☐ Option 9 (injection below land surface) ☐ Option 10 (incorporation into soil within 6 hours)	
3.15	Describe any treatment processes used at the land application site to reduce vector attraction properties of sewage sludge.	☐ Check here if you have attached your description to the application package.	
Cumulative Loadings and Remaining Allotments			
3.16	Is the sewage sludge applied to this site since July 20, 1993, subject to the cumulative pollutant loading rates (CPLRs) in 40 CFR 503.13(b)(2)?	☐ Yes ☐ No → SKIP to Part 2, Section 4.	
3.17	Have you contacted the NPDES permitting authority in the state where the bulk sewage sludge subject to CPLRs will be applied to ascertain whether bulk sewage sludge subject to CPLRs has been applied to this site on or since July 20, 1993?	☐ Yes ☐ No → Sewage sludge subject to CPLRs may not be applied to this site. SKIP to Part 2, Section 4.	
3.18	Provide the following information about your NPDES permitting authority:		
	NPDES permitting authority name		
	Contact person		
	Telephone number		
	Email address		
3.19	Based on your inquiry, has bulk sewage sludge subject to CPLRs been applied to this site since July 20, 1993?	☐ Yes ☐ No → SKIP to Part 2, Section 4.	
3.20	Provide the following information for every facility other than yours that is sending, or has sent, bulk sewage sludge subject to CPLRs to this site since July 20, 1993. If more than one such facility sends sewage sludge to this site, attach additional pages as necessary.		
	☐ Check here to indicate that additional pages are attached.		
	Facility name		
	Mailing address (street or P.O. box)		
	City or town	State	ZIP code
	Contact name (first and last)	Title	Phone number
			Email address

EPA Identification Number	NPDES Permit Number	Facility Name Pike Road CWF		OMB No. 2040-0004 Expires 07/31/2026
PART 2, SECTION 4 SURFACE DISPOSAL (40 CFR 122.21(Q)(10))				
Surface Disposal	4.1 Do you own or operate a surface disposal site? ☐ Yes ☐ No → SKIP to Part 2, Section 5.			
	4.2 Complete all items in Section 4 for each active sewage sludge unit that you own or operate. ☐ Check here to indicate that you have attached material to the application package for one or more active sewage sludge units.			
	Information on Active Sewage Sludge Units			
	4.3 Unit name or number			
	Mailing address (street or P.O. box)			
	City or town		State	ZIP code
	Contact name (first and last)	Title	Phone number	Email address
	Location address (street, route number, or other specific identifier)			☐ Same as mailing address
	County		County code	☐ Not available
	City or town		State	ZIP code
	Latitude/Longitude of Active Sewage Sludge Unit (see instructions)			
	Latitude		Longitude	
	Method of Determination			
	☐ USGS map ☐ Field survey ☐ Other (specify) _____			
4.4 Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the site location. ☐ Check here to indicate that you have completed and attached a topographic map.				
4.5 Total dry metric tons of sewage sludge placed on the active sewage sludge unit per 365-day period:				
4.6 Total dry metric tons of sewage sludge placed on the active sewage sludge unit over the life of the unit:				
4.7 Does the active sewage sludge unit have a liner with a maximum permeability of 1×10^{-7} centimeters per second (cm/sec)? ☐ Yes ☐ No → SKIP to Item 4.9 (Part 2, Section 4) below.				
4.8 Describe the liner. ☐ Check here to indicate that you have attached a description to the application package.				
4.9 Does the active sewage sludge unit have a leachate collection system? ☐ Yes ☐ No → SKIP to Item 4.11 (Part 2, Section 4) below.				
4.10 Describe the leachate collection system and the method used for leachate disposal and provide the numbers of any federal, state, or local permit(s) for leachate disposal. ☐ Check here to indicate that you have attached the description to the application package.				

EPA Identification Number	NPDES Permit Number	Facility Name Pike Road CWF		OMB No. 2040-0004 Expires 07/31/2026
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Surface Disposal Continued

<u>4.11</u>	Is the boundary of the active sewage sludge unit less than 150 meters from the property line of the surface disposal site?	☐ Yes ☐ No → SKIP to Item 4.13 (Part 2, Section 4) below.
<u>4.12</u>	Provide the actual distance in meters:	_____ meters
<u>4.13</u>	Remaining capacity of active sewage sludge unit in dry metric tons:	_____ dry metric tons
<u>4.14</u>	Anticipated closure date for active sewage sludge unit, if known (MM/DD/YYYY):	_____
<u>4.15</u>	Attach a copy of any closure plan that has been developed for this active sewage sludge unit. ☐ Check here to indicate that you have attached a copy of the closure plan to the application package.	
Sewage Sludge from Other Facilities		
<u>4.16</u>	Is sewage sludge sent to this active sewage sludge unit from any facilities other than your facility?	☐ Yes ☐ No → SKIP to Item 4.21 (Part 2, Section 4) below.
<u>4.17</u>	Indicate the total number of facilities (other than your facility) that send sewage sludge to this active sewage sludge unit. (Complete Items 4.18 to 4.20 directly below for each such facility.) ☐ Check here to indicate that you have attached responses for each facility to the application package.	
<u>4.18</u>	Facility name _____ Mailing address (street or P.O. box) _____ City or town _____ State _____ ZIP code _____ Contact name (first and last) _____ Title _____ Phone number _____ Email address _____	
<u>4.19</u>	Indicate the pathogen class and reduction alternative and the vector attraction reduction option met for the sewage sludge before it leaves the other facility.	
	Pathogen Class and Reduction Alternative	Vector Attraction Reduction Option
	☐ Not applicable ☐ Class A, Alternative 1 ☐ Class A, Alternative 2 ☐ Class A, Alternative 3 ☐ Class A, Alternative 4 ☐ Class A, Alternative 5 ☐ Class A, Alternative 6 ☐ Class B, Alternative 1 ☐ Class B, Alternative 2 ☐ Class B, Alternative 3 ☐ Class B, Alternative 4 ☐ Domestic septage, pH adjustment	☐ Not applicable ☐ Option 1 ☐ Option 2 ☐ Option 3 ☐ Option 4 ☐ Option 5 ☐ Option 6 ☐ Option 7 ☐ Option 8 ☐ Option 9 ☐ Option 10 ☐ Option 11
<u>4.20</u>	Which treatment process(es) are used at the other facility to reduce pathogens in sewage sludge or reduce the vector attraction properties of sewage sludge before it leaves that facility? (Check all that apply.)	
	☐ Preliminary operations (e.g., sludge grinding and dewatering) ☐ Stabilization ☐ Composting ☐ Disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization) ☐ Heat drying ☐ Methane or biogas capture and recovery	☐ Thickening (concentration) ☐ Anaerobic digestion ☐ Conditioning ☐ Dewatering (e.g., centrifugation, sludge drying beds, sludge lagoons) ☐ Thermal reduction ☐ Other (specify) _____

EPA Identification Number		NPDES Permit Number	Facility Name Pike Road CWF	OMB No. 2040-0004 Expires 07/31/2026
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Surface Disposal Continued	Vector Attraction Reduction			
	<u>4.21</u>	Which vector attraction reduction option, if any, is met when sewage sludge is placed on this active sewage sludge unit?		
	☐	Option 9 (injection below and surface)	☐	Option 11 (covering active sewage sludge unit daily)
	☐	Option 10 (incorporation into soil within 6 hours)	☐	None
	<u>4.22</u>	Describe any treatment processes used at the active sewage sludge unit to reduce vector attraction properties of sewage sludge.		
	☐	Check here if you have attached your description to the application package.		
	Groundwater Monitoring			
	<u>4.23</u>	Is groundwater monitoring currently conducted at this active sewage sludge unit, or are groundwater monitoring data otherwise available for this active sewage sludge unit?		
	☐	Yes	☐	No → SKIP to Item 4.26 (Part 2, Section 4) below.
	<u>4.24</u>	Provide a copy of available groundwater monitoring data.		
	☐	Check here to indicate you have attached the monitoring data.		
	<u>4.25</u>	Describe the well locations, the approximate depth to groundwater, and the groundwater monitoring procedures used to obtain these data.		
☐	Check here if you have attached your description to the application package.			
<u>4.26</u>	Has a groundwater monitoring program been prepared for this active sewage sludge unit?			
☐	Yes	☐	No → SKIP to Item 4.28 (Part 2, Section 4) below.	
<u>4.27</u>	Submit a copy of the groundwater monitoring program with this permit application.			
☐	Check here to indicate you have attached the monitoring program.			
<u>4.28</u>	Have you obtained a certification from a qualified groundwater scientist that the aquifer below the active sewage sludge unit has not been contaminated?			
☐	Yes	☐	No → SKIP to Item 4.30 (Part 2, Section 4) below.	
<u>4.29</u>	Submit a copy of the certification with this permit application.			
☐	Check here to indicate you have attached the certification to the application package.			
Site-Specific Limits				
<u>4.30</u>	Are you seeking site-specific pollutant limits for the sewage sludge placed on the active sewage sludge unit?			
☐	Yes	☐	No → SKIP to Part 2, Section 5.	
<u>4.31</u>	Submit information to support the request for site-specific pollutant limits with this application.			
☐	Check here to indicate you have attached the requested information.			

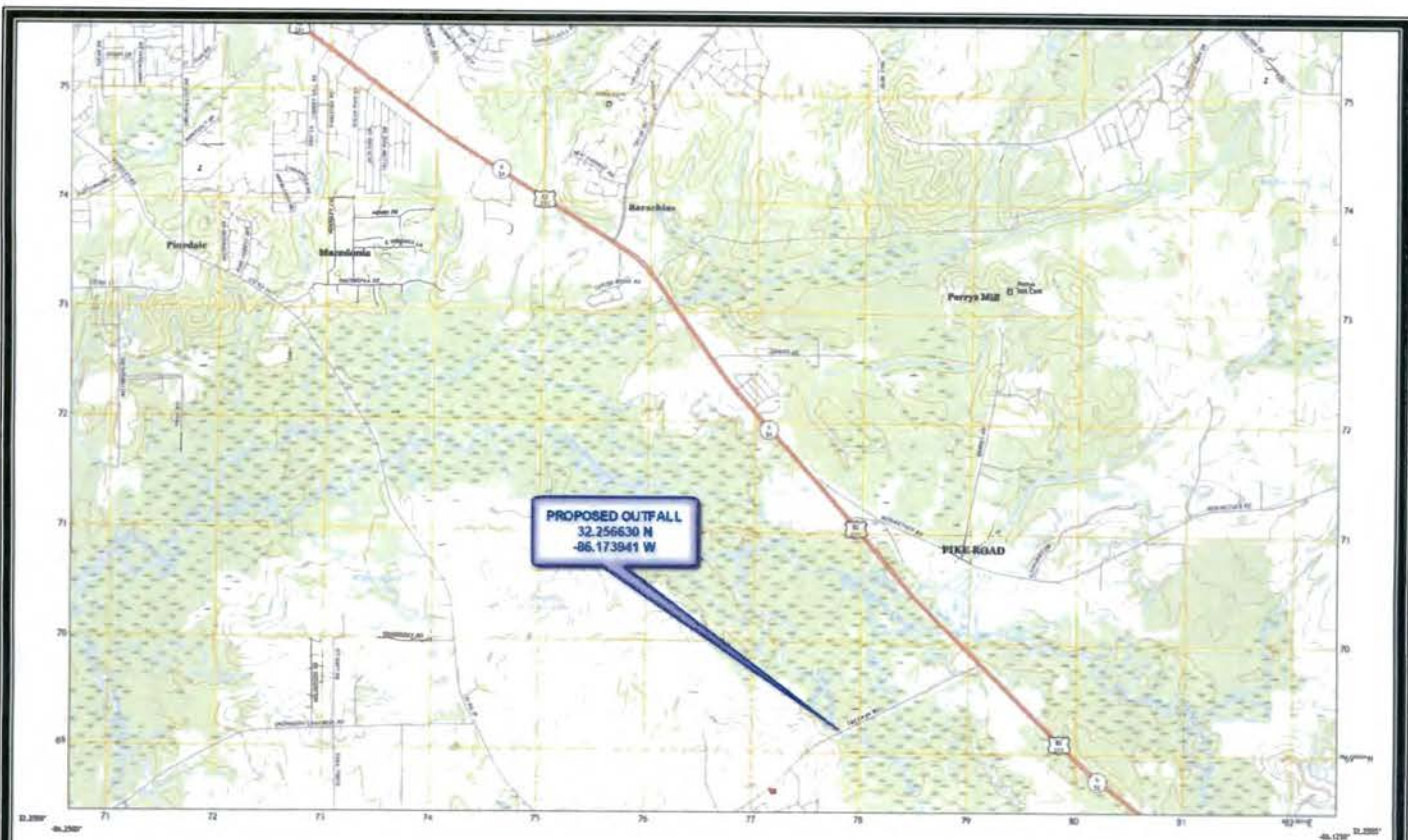
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EPA Identification Number	NPDES Permit Number	Facility Name Pike Road CWF	OMB No. 2040-0004 Expires 07/31/2026
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Incineration Continued	Performance Test Operating Parameters		
	<u>5.29</u>	Maximum performance test combustion temperature:	
	<u>5.30</u>	Performance test sewage sludge feed rate, in dry metric tons/day	
	<u>5.31</u>	Indicate whether value submitted in Item 5.30 is (check only one response):	
		☐ Average use ☐ Maximum design	
	<u>5.32</u>	Attach supporting documents describing how the feed rate was calculated.	
		☐ Check here to indicate that you have attached this information.	
	<u>5.33</u>	Submit information documenting the performance test operating parameters for the air pollution control device(s) used for this sewage sludge incinerator.	
		☐ Check here to indicate that you have attached this information.	
	Monitoring Equipment		
<u>5.34</u>	List the equipment in place to monitor the listed parameters.		
	Parameter	Equipment in Place for Monitoring	
	Total hydrocarbons or carbon monoxide		
	Percent oxygen		
	Percent moisture		
	Combustion temperature		
	Other (describe)		
Air Pollution Control Equipment			
<u>5.35</u>	List all air pollution control equipment used with this sewage sludge incinerator.		
	☐ Check here if you have attached the list to the application package for the noted incinerator.		

END of PART 2

Submit completed application package to your NPDES permitting authority.



Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)

Horizontal datum: North American Datum of 1983 (NAD83)

Vertical datum: North American Vertical Datum of 1988 (NAVD88)

This map is a digital elevation model (DEM) derived from the

Shuttle Radar Topography Mission (SRTM) data. It is not a

photograph or aerial photograph. It is a computer-generated

map. It is not a substitute for a field survey. It is a

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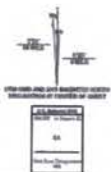
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4	5	6
7	8	9

ROAD CLASSIFICATION	
Interstate	State Route
County Road	Local Road
Trail	Other

BARACHIAS, AL
2020

ENLARGED VIEW



ENGINEERS OF THE SOUTH, LLC

Subject:
Pike Road WRF
Partial Barachias Quad Map 2020

FIGURE 1 – USGS Topographic Map
Montgomery County, Alabama
Scale as Noted

Ward Creek Waste Load Allocation

Date: July 19, 2024

Project name: Proposed Pike Road Clean Water Facility (CWF)

Company: Engineers of the South

Prepared by: Lynn Sisk

Jacobs

4121 Carmichael Road
Suite 400

Montgomery, AL 36106

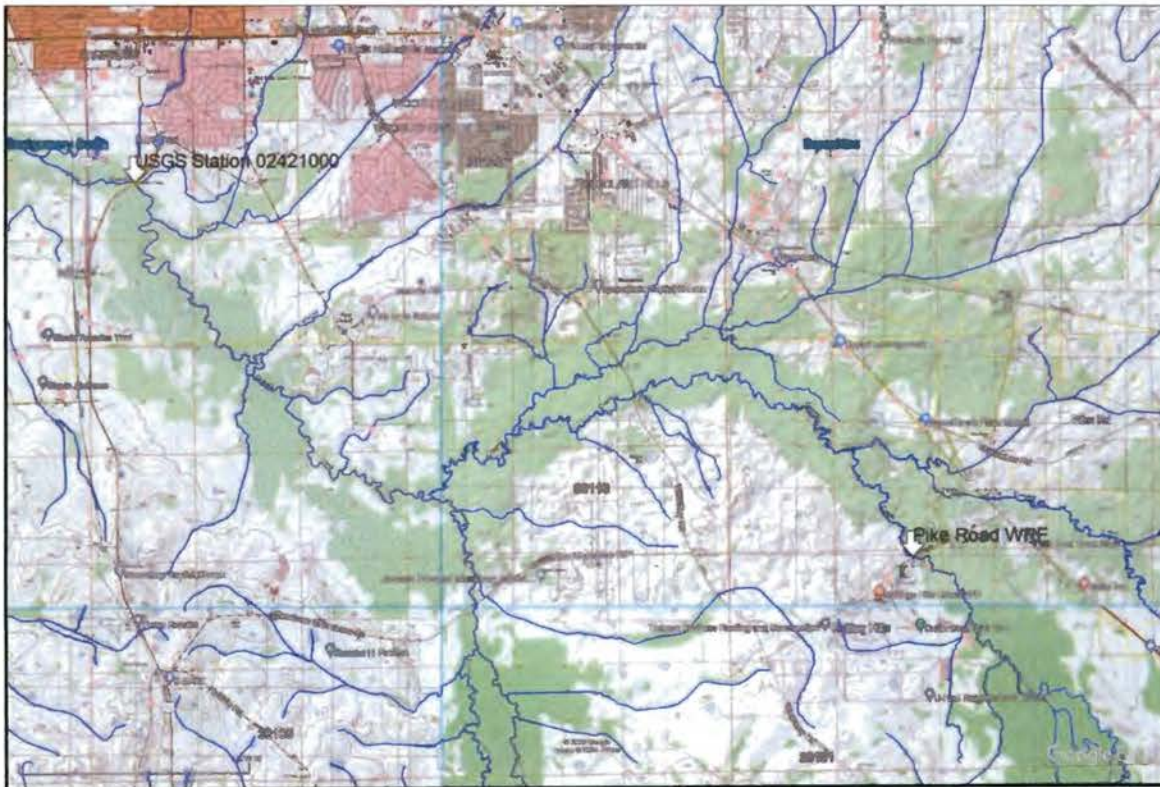
T +334-467-6284

www.Jacobs.com

Introduction

A waste load allocation (WLA) was completed for a proposed discharge of 0.099 million gallons per day (MGD) from a proposed wastewater reclamation facility (WRF) to Catoma Creek in Montgomery County, Alabama. The $7Q_{10}$ stream flow of Catoma Creek is estimated to be 0.0 cubic feet per second (cfs) based on stream flow measured by the USGS at Station 02421000 on Catoma Creek near Montgomery, AL. The Water Resources Database (WRDB v6.1) was used to calculate the Pearson Type III regression using annual minimum 7-day average stream flows for the period from July 1954 through April 2024. The estimated $7Q_{10}$ stream flow at the USGS stream gage located at Norman Bridge Road was 0.02 cfs. Catoma Creek at the stream gage has a drainage area of 290 square miles.

Figure 1. Proposed WRF Discharge Location on Catoma Creek Southeast of Montgomery, Alabama

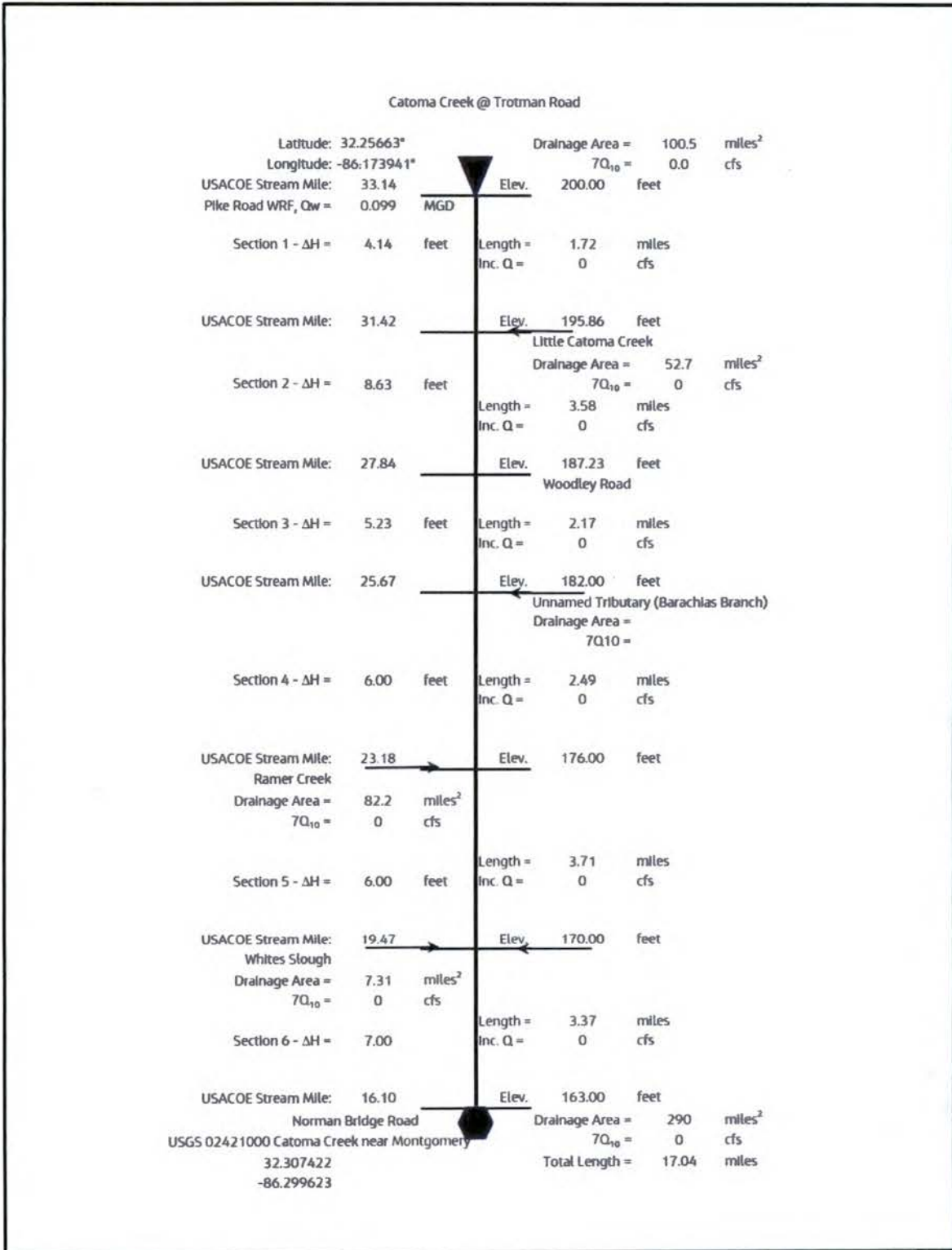


Model Development

The ADEM Spreadsheet Water Quality Model (SWQM) was used to model dissolved oxygen concentrations in Catoma Creek and downstream waters resulting from the proposed WRF discharge located at latitude 32.256630, longitude -86.173941. The modeled stream reach extends from the proposed discharge location where Trotman Road crosses Catoma Creek to the USGS stream gage at Norman Bridge Road for a total distance of approximately 17.04 miles. A schematic of the modeled stream reach is shown in Figure 2 and includes drainage areas, $7Q_{10}$ flows, and segment lengths. All tributary and incremental flows are based on the $7Q_{10}$ flow for Catoma Creek and are, therefore, set at 0.0 cfs. Carbonaceous biochemical oxygen demand (CBOD) decay rates, nitrification rates, organic nitrogen hydrolysis rates, and reaeration rates were determined using ADEM's standard operating procedures.

The modeled reach of Catoma Creek from stream mile 33.14 to stream mile 16.1 is classified as Fish and Wildlife (F&W) (ADEM Admin. Code r. 335-6-11-.02(4)). A total maximum daily load (TMDL) to address low dissolved oxygen concentrations in the segment of Catoma Creek between the Alabama River and Ramer Creek was finalized by ADEM in July 2005 ([FINAL TMDL for Catoma Creek OE/DO](#)).

Figure 2. Modeled Stream Reach Schematic



Model Results

Modeled effluent limits for the proposed discharge from the Pike Road Clean Water Facility at a design flow of 0.099 MGD are shown in the table below. The SWQM inputs and output are included as an attachment to this memorandum. The waste load allocation model predicts that the effluent limits shown in Table 1 will result in the dissolved oxygen concentrations in Catoma Creek remain greater than 5.0 mg/L during 7Q₁₀ stream flow conditions. The monthly average limitation for ammonia nitrogen is less than the chronic aquatic life criterion, but is necessary for the modeled dissolved oxygen concentration in Catoma Creek to remain above 5.0 mg/L.

Table 1. Predicted Effluent Limits for the Proposed Pike Road Clean Water Facility

Parameter	Monthly Average Limitation
CBOD ₅ , mg/L	3.0
Ammonia Nitrogen, mg/L	0.25
Dissolved Oxygen (daily minimum), mg/L	6.5

The predicted effluent limits shown in Table 1 are close to background CBOD₅ and ammonia concentrations due to Catoma Creek's 0.0 cfs 7Q₁₀ flow (i.e., no dilution) and the relatively flat slope within the modeled stream reach (i.e., low stream velocity and low reaeration rate). Based on the model results, the discharge from the proposed Pike Road Clean Water Facility will not impact dissolved oxygen concentrations within the downstream TMDL segment.

Attachment
SWQM Inputs and Output

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JUL 29 2024
MUNICIPAL SECTION

Spreadsheet Water Quality Model

Stream Name :	Catoma Creek				
River Basin :	Alabama				
County :	Montgomery				
Modeled Reach :	Upstream Longitude	Upstream Latitude	Section	Township	Range
	-86.173941	32.25663			
	Downstream Longitude	Downstream Latitude	Section	Township	Range
	Total Stream Length, miles	17.04			
Analysis Date :	June 13, 2024				
Number of Sections :	6				
Applicable Season:	Annual	Summer	Winter		
	X				
Analysis Performed By :					
LS					
Point Sources Included in the Model :					
Pike Road WRF					

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JUL 29 2024

MUNICIPAL SECTION

Model Input :

Headwater Conditions :

CBODu, mg/l	NH3-N, mg/l	TON, mg/l	D.O., mg/l	Flow, cfs	Temp., °C
0.0000	0.0000	0.0000	6.4	0	30

Tributary Conditions :

Section #	CBODu, mg/l	NH3-N, mg/l	TON, mg/l	D.O., mg/l	Flow, cfs	Temp., °C	Name
1	0.0000	0.0000	0.0000				
2	0.0000	0.0000	0.0000				
3	0.0000	0.0000	0.0000				
4	0.0000	0.0000	0.0000				
5	0.0000	0.0000	0.0000				
6	0.0000	0.0000	0.0000				
7	0.0000	0.0000	0.0000				
8	0.0000	0.0000	0.0000				
9	0.0000	0.0000	0.0000				
10	0.0000	0.0000	0.0000				
11	0.0000	0.0000	0.0000				
12	0.0000	0.0000	0.0000				
13	0.0000	0.0000	0.0000				
14	0.0000	0.0000	0.0000				
15	0.0000	0.0000	0.0000				
16	0.0000	0.0000	0.0000				
17	0.0000	0.0000	0.0000				
18	0.0000	0.0000	0.0000				
19	0.0000	0.0000	0.0000				
20	0.0000	0.0000	0.0000				
21	0.0000	0.0000	0.0000				
22	0.0000	0.0000	0.0000				
23	0.0000	0.0000	0.0000				
24	0.0000	0.0000	0.0000				

Model Input : Continued

<i>Incremental Inflow Conditions :</i>						
Section #	CBODu, mg/l	NH3-N, mg/l	TON, mg/l	D.O., mg/l	Flow, cfs	Temp., °C
1	0.0000	0.0000	0.0000			
2	0.0000	0.0000	0.0000			
3	0.0000	0.0000	0.0000			
4	0.0000	0.0000	0.0000			
5	0.0000	0.0000	0.0000			
6	0.0000	0.0000	0.0000			
7	0.0000	0.0000	0.0000			
8	0.0000	0.0000	0.0000			
9	0.0000	0.0000	0.0000			
10	0.0000	0.0000	0.0000			
11	0.0000	0.0000	0.0000			
12	0.0000	0.0000	0.0000			
13	0.0000	0.0000	0.0000			
14	0.0000	0.0000	0.0000			
15	0.0000	0.0000	0.0000			
16	0.0000	0.0000	0.0000			
17	0.0000	0.0000	0.0000			
18	0.0000	0.0000	0.0000			
19	0.0000	0.0000	0.0000			
20	0.0000	0.0000	0.0000			
21	0.0000	0.0000	0.0000			
22	0.0000	0.0000	0.0000			
23	0.0000	0.0000	0.0000			
24	0.0000	0.0000	0.0000			

Model Input : Continued

Effluent Conditions :

Section #	Discharger	Flow, MGD	Flow, cfs	CBOD ₅ , mg/l	CBOD _u /CBOD ₅	CBOD _u , mg/l	NH ₃ -N, mg/l	TON, mg/l	D.O., mg/l	Temp., °C
1	Pike Road	0.099	0.153	3	1.5	4.500	0.25	0.4	6.5	30.0
2			0.000			0.000				
3			0.000			0.000				
4			0.000			0.000				
5			0.000			0.000				
6			0.000			0.000				
7			0.000			0.000				
8			0.000			0.000				
9			0.000			0.000				
10			0.000			0.000				
11			0.000			0.000				
12			0.000			0.000				
13			0.000			0.000				
14			0.000			0.000				
15			0.000			0.000				
16			0.000			0.000				
17			0.000			0.000				
18			0.000			0.000				
19			0.000			0.000				
20			0.000			0.000				
21			0.000			0.000				
22			0.000			0.000				
23			0.000			0.000				
24			0.000			0.000				

Model Input : Continued

Section Characteristics :								Dam Characteristics :		
Section #	Length, miles	Upstream Elevation, feet	Downstream Elevation, feet	Average Elev., feet	Slope, ft/mile	Calculated Velocity or User Input Velocity?	User Input Velocity, feet/sec	Dam Height, feet	Water Quality Factor	Weir Coefficient
1	1.72	200	195.86	197.93	2.4070	Calculated				
2	3.58	195.86	187.23	191.545	2.4106	Calculated				
3	2.17	187.23	182	184.615	2.4101	Calculated				
4	2.49	182	176	179	2.4096	Calculated				
5	3.71	176	170	173	1.6173	Calculated				
6	3.37	170	163	166.5	2.0772	Calculated				
7										
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24										

Model Input : Continued

Reaction Rates :

Section #	Reaction Rates at 20° C					Reaction Rates at Ambient Temperature				
	Kd, 1/day	K _{NH3} , 1/day	K _{TON} , 1/day	Computed Ka, 1/day	User Input Ka, 1/day	Ka, 1/day	Kd, 1/day	K _{NH3} , 1/day	K _{TON} , 1/day	Average Temp., °C
1	0.3	0.3	0.05	0.4333		0.5492	0.4749	0.6268	0.0791	30.0000
2	0.3	0.3	0.05	0.4339		0.5500	0.4749	0.5978	0.0791	30.0000
3	0.3	0.3	0.05	0.4338		0.5499	0.4749	0.6065	0.0791	30.0000
4	0.3	0.3	0.05	0.4337		0.5498	0.4749	0.6186	0.0791	30.0000
5	0.3	0.3	0.05	0.2911		0.3690	0.4749	0.6283	0.0791	30.0000
6	0.3	0.3	0.05	0.3739		0.4740	0.4749	0.6331	0.0791	30.0000
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Model Input : Continued

<i>Reaction Rates : Continued (OPTIONAL)</i>							
		Reaction Rates at 20° C			Reaction Rates at Ambient Temperature		
Section #	Stream Depth, feet	SOD, gm- O₂/ft²/day	CBOD_{settling}¹ 1/day	TON_{settling}¹ 1/day	SOD, gm- O₂/ft²/day	CBOD_{settling}¹ 1/day	TON_{settling}¹ 1/day
1							
2							
3							
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Model Output:

Minimum Dissolved Oxygen: 5.0838 mg/l

The Minimum DO occurs at: 2.6150 miles

Section Number	Increment Number	Distance, miles	Flow, cfs	Velocity, feet/sec	Total Travel Time, days	CBODu, mg/l	NH ₃ -N, mg/l	TON, mg/l	D.O., mg/l	Temp., °C
1	1	0.0000	0.1532	0.1000	0.0000	4.5000	0.2500	0.4000	6.5000	30.0000
1	2	0.0860	0.1532	0.1000	0.0526	4.3891	0.2436	0.3983	6.3826	30.0000
1	3	0.1720	0.1532	0.1000	0.1051	4.2809	0.2373	0.3967	6.2723	30.0000
1	4	0.2580	0.1532	0.1000	0.1577	4.1754	0.2314	0.3950	6.1688	30.0000
1	5	0.3440	0.1532	0.1000	0.2102	4.0725	0.2256	0.3934	6.0718	30.0000
1	6	0.4300	0.1532	0.1000	0.2628	3.9721	0.2200	0.3918	5.9810	30.0000
1	7	0.5160	0.1532	0.1000	0.3153	3.8742	0.2146	0.3901	5.8961	30.0000
1	8	0.6020	0.1532	0.1000	0.3679	3.7787	0.2094	0.3885	5.8169	30.0000
1	9	0.6880	0.1532	0.1000	0.4204	3.6855	0.2044	0.3869	5.7431	30.0000
1	10	0.7740	0.1532	0.1000	0.4730	3.5947	0.1995	0.3853	5.6744	30.0000
1	11	0.8600	0.1532	0.1000	0.5256	3.5061	0.1948	0.3837	5.6107	30.0000
1	12	0.9460	0.1532	0.1000	0.5781	3.4197	0.1903	0.3821	5.5517	30.0000
1	13	1.0320	0.1532	0.1000	0.6307	3.3354	0.1859	0.3805	5.4971	30.0000
1	14	1.1180	0.1532	0.1000	0.6832	3.2532	0.1817	0.3789	5.4469	30.0000
1	15	1.2040	0.1532	0.1000	0.7358	3.1730	0.1776	0.3774	5.4007	30.0000
1	16	1.2900	0.1532	0.1000	0.7883	3.0948	0.1736	0.3758	5.3584	30.0000
1	17	1.3760	0.1532	0.1000	0.8409	3.0185	0.1697	0.3742	5.3198	30.0000
1	18	1.4620	0.1532	0.1000	0.8934	2.9441	0.1660	0.3727	5.2847	30.0000
1	19	1.5480	0.1532	0.1000	0.9460	2.8715	0.1624	0.3711	5.2530	30.0000
1	20	1.6340	0.1532	0.1000	0.9986	2.8007	0.1589	0.3696	5.2245	30.0000
1	21	1.7200	0.1532	0.1000	1.0511	2.7317	0.1555	0.3681	5.1990	30.0000
2	1	1.7200	0.1532	0.1000	1.0511	2.7317	0.1555	0.3681	5.1990	30.0000
2	2	1.8990	0.1532	0.1000	1.1605	2.5934	0.1489	0.3649	5.1556	30.0000
2	3	2.0780	0.1532	0.1000	1.2699	2.4621	0.1426	0.3618	5.1235	30.0000
2	4	2.2570	0.1532	0.1000	1.3793	2.3375	0.1367	0.3586	5.1015	30.0000
2	5	2.4360	0.1532	0.1000	1.4887	2.2192	0.1312	0.3555	5.0886	30.0000
2	6	2.6150	0.1532	0.1000	1.5981	2.1068	0.1260	0.3525	5.0838	30.0000
2	7	2.7940	0.1532	0.1000	1.7074	2.0002	0.1211	0.3494	5.0864	30.0000
2	8	2.9730	0.1532	0.1000	1.8168	1.8989	0.1165	0.3464	5.0953	30.0000
2	9	3.1520	0.1532	0.1000	1.9262	1.8028	0.1121	0.3434	5.1100	30.0000
2	10	3.3310	0.1532	0.1000	2.0356	1.7115	0.1080	0.3405	5.1298	30.0000
2	11	3.5100	0.1532	0.1000	2.1450	1.6249	0.1041	0.3375	5.1540	30.0000
2	12	3.6890	0.1532	0.1000	2.2544	1.5427	0.1005	0.3346	5.1821	30.0000
2	13	3.8680	0.1532	0.1000	2.3638	1.4646	0.0970	0.3317	5.2137	30.0000
2	14	4.0470	0.1532	0.1000	2.4732	1.3904	0.0937	0.3289	5.2481	30.0000
2	15	4.2260	0.1532	0.1000	2.5826	1.3200	0.0906	0.3261	5.2851	30.0000
2	16	4.4050	0.1532	0.1000	2.6919	1.2532	0.0877	0.3232	5.3242	30.0000

Model Output:

Minimum Dissolved Oxygen:	5.0838 mg/l
The Minimum DO occurs at:	2.6150 miles

Section Number	Increment Number	Distance, miles	Flow, cfs	Velocity, feet/sec	Total Travel Time, days	CBODu, mg/l	NH ₃ -N, mg/l	TON, mg/l	D.O., mg/l	Temp., °C
2	17	4.5840	0.1532	0.1000	2.8013	1.1898	0.0849	0.3205	5.3652	30.0000
2	18	4.7630	0.1532	0.1000	2.9107	1.1296	0.0822	0.3177	5.4076	30.0000
2	19	4.9420	0.1532	0.1000	3.0201	1.0724	0.0797	0.3150	5.4512	30.0000
2	20	5.1210	0.1532	0.1000	3.1295	1.0181	0.0773	0.3122	5.4957	30.0000
2	21	5.3000	0.1532	0.1000	3.2389	0.9666	0.0751	0.3095	5.5409	30.0000
3	1	5.3000	0.1532	0.1000	3.2389	0.9666	0.0751	0.3095	5.5409	30.0000
3	2	5.4085	0.1532	0.1000	3.3052	0.9366	0.0737	0.3079	5.5685	30.0000
3	3	5.5170	0.1532	0.1000	3.3715	0.9076	0.0724	0.3063	5.5962	30.0000
3	4	5.6255	0.1532	0.1000	3.4378	0.8794	0.0712	0.3047	5.6241	30.0000
3	5	5.7340	0.1532	0.1000	3.5041	0.8522	0.0699	0.3031	5.6520	30.0000
3	6	5.8425	0.1532	0.1000	3.5704	0.8258	0.0688	0.3015	5.6799	30.0000
3	7	5.9510	0.1532	0.1000	3.6367	0.8002	0.0676	0.3000	5.7078	30.0000
3	8	6.0595	0.1532	0.1000	3.7030	0.7754	0.0665	0.2984	5.7358	30.0000
3	9	6.1680	0.1532	0.1000	3.7693	0.7513	0.0654	0.2968	5.7636	30.0000
3	10	6.2765	0.1532	0.1000	3.8356	0.7280	0.0644	0.2953	5.7914	30.0000
3	11	6.3850	0.1532	0.1000	3.9019	0.7055	0.0634	0.2937	5.8191	30.0000
3	12	6.4935	0.1532	0.1000	3.9683	0.6836	0.0624	0.2922	5.8466	30.0000
3	13	6.6020	0.1532	0.1000	4.0346	0.6624	0.0614	0.2907	5.8740	30.0000
3	14	6.7105	0.1532	0.1000	4.1009	0.6419	0.0605	0.2891	5.9012	30.0000
3	15	6.8190	0.1532	0.1000	4.1672	0.6220	0.0596	0.2876	5.9282	30.0000
3	16	6.9275	0.1532	0.1000	4.2335	0.6027	0.0587	0.2861	5.9550	30.0000
3	17	7.0360	0.1532	0.1000	4.2998	0.5840	0.0579	0.2846	5.9816	30.0000
3	18	7.1445	0.1532	0.1000	4.3661	0.5659	0.0570	0.2831	6.0080	30.0000
3	19	7.2530	0.1532	0.1000	4.4324	0.5484	0.0562	0.2816	6.0341	30.0000
3	20	7.3615	0.1532	0.1000	4.4987	0.5314	0.0554	0.2802	6.0599	30.0000
3	21	7.4700	0.1532	0.1000	4.5650	0.5149	0.0547	0.2787	6.0855	30.0000
4	1	7.4700	0.1532	0.1000	4.5650	0.5149	0.0547	0.2787	6.0855	30.0000
4	2	7.5945	0.1532	0.1000	4.6411	0.4966	0.0538	0.2770	6.1145	30.0000
4	3	7.7190	0.1532	0.1000	4.7172	0.4790	0.0530	0.2754	6.1431	30.0000
4	4	7.8435	0.1532	0.1000	4.7933	0.4620	0.0522	0.2737	6.1713	30.0000
4	5	7.9680	0.1532	0.1000	4.8693	0.4456	0.0515	0.2721	6.1991	30.0000
4	6	8.0925	0.1532	0.1000	4.9454	0.4298	0.0507	0.2704	6.2265	30.0000
4	7	8.2170	0.1532	0.1000	5.0215	0.4146	0.0500	0.2688	6.2535	30.0000
4	8	8.3415	0.1532	0.1000	5.0976	0.3998	0.0493	0.2672	6.2800	30.0000
4	9	8.4660	0.1532	0.1000	5.1737	0.3857	0.0486	0.2656	6.3061	30.0000
4	10	8.5905	0.1532	0.1000	5.2498	0.3720	0.0480	0.2640	6.3318	30.0000
4	11	8.7150	0.1532	0.1000	5.3258	0.3588	0.0473	0.2624	6.3570	30.0000

Model Output:

Minimum Dissolved Oxygen:	5.0838 mg/l
The Minimum DO occurs at:	2.6150 miles

Section Number	Increment Number	Distance, miles	Flow, cfs	Velocity, feet/sec	Total Travel Time, days	CBODu, mg/l	NH ₃ -N, mg/l	TON, mg/l	D.O., mg/l	Temp., °C
4	12	8.8395	0.1532	0.1000	5.4019	0.3460	0.0467	0.2608	6.3818	30.0000
4	13	8.9640	0.1532	0.1000	5.4780	0.3338	0.0461	0.2593	6.4061	30.0000
4	14	9.0885	0.1532	0.1000	5.5541	0.3219	0.0455	0.2577	6.4299	30.0000
4	15	9.2130	0.1532	0.1000	5.6302	0.3105	0.0450	0.2562	6.4534	30.0000
4	16	9.3375	0.1532	0.1000	5.7063	0.2995	0.0444	0.2546	6.4763	30.0000
4	17	9.4620	0.1532	0.1000	5.7823	0.2888	0.0439	0.2531	6.4989	30.0000
4	18	9.5865	0.1532	0.1000	5.8584	0.2786	0.0434	0.2516	6.5210	30.0000
4	19	9.7110	0.1532	0.1000	5.9345	0.2687	0.0428	0.2501	6.5426	30.0000
4	20	9.8355	0.1532	0.1000	6.0106	0.2592	0.0423	0.2486	6.5638	30.0000
4	21	9.9600	0.1532	0.1000	6.0867	0.2500	0.0419	0.2471	6.5846	30.0000
5	1	9.9600	0.1532	0.1000	6.0867	0.2500	0.0419	0.2471	6.5846	30.0000
5	2	10.1455	0.1532	0.1000	6.2000	0.2369	0.0412	0.2449	6.5967	30.0000
5	3	10.3310	0.1532	0.1000	6.3134	0.2245	0.0405	0.2427	6.6091	30.0000
5	4	10.5165	0.1532	0.1000	6.4268	0.2127	0.0399	0.2405	6.6219	30.0000
5	5	10.7020	0.1532	0.1000	6.5401	0.2015	0.0393	0.2384	6.6349	30.0000
5	6	10.8875	0.1532	0.1000	6.6535	0.1910	0.0387	0.2362	6.6482	30.0000
5	7	11.0730	0.1532	0.1000	6.7668	0.1810	0.0382	0.2341	6.6616	30.0000
5	8	11.2585	0.1532	0.1000	6.8802	0.1715	0.0376	0.2320	6.6752	30.0000
5	9	11.4440	0.1532	0.1000	6.9936	0.1625	0.0371	0.2300	6.6889	30.0000
5	10	11.6295	0.1532	0.1000	7.1069	0.1540	0.0366	0.2279	6.7026	30.0000
5	11	11.8150	0.1532	0.1000	7.2203	0.1459	0.0361	0.2259	6.7164	30.0000
5	12	12.0005	0.1532	0.1000	7.3336	0.1383	0.0357	0.2239	6.7301	30.0000
5	13	12.1860	0.1532	0.1000	7.4470	0.1310	0.0352	0.2219	6.7439	30.0000
5	14	12.3715	0.1532	0.1000	7.5604	0.1242	0.0347	0.2199	6.7576	30.0000
5	15	12.5570	0.1532	0.1000	7.6737	0.1176	0.0343	0.2179	6.7712	30.0000
5	16	12.7425	0.1532	0.1000	7.7871	0.1115	0.0339	0.2160	6.7847	30.0000
5	17	12.9280	0.1532	0.1000	7.9004	0.1056	0.0335	0.2140	6.7981	30.0000
5	18	13.1135	0.1532	0.1000	8.0138	0.1001	0.0331	0.2121	6.8114	30.0000
5	19	13.2990	0.1532	0.1000	8.1272	0.0949	0.0327	0.2102	6.8246	30.0000
5	20	13.4845	0.1532	0.1000	8.2405	0.0899	0.0323	0.2084	6.8376	30.0000
5	21	13.6700	0.1532	0.1000	8.3539	0.0852	0.0319	0.2065	6.8505	30.0000
6	1	13.6700	0.1532	0.1000	8.3539	0.0852	0.0319	0.2065	6.8505	30.0000
6	2	13.8385	0.1532	0.1000	8.4569	0.0811	0.0316	0.2048	6.8689	30.0000
6	3	14.0070	0.1532	0.1000	8.5598	0.0772	0.0312	0.2032	6.8867	30.0000
6	4	14.1755	0.1532	0.1000	8.6628	0.0736	0.0309	0.2015	6.9039	30.0000
6	5	14.3440	0.1532	0.1000	8.7658	0.0700	0.0306	0.1999	6.9206	30.0000
6	6	14.5125	0.1532	0.1000	8.8688	0.0667	0.0303	0.1982	6.9367	30.0000

Model Output:

Minimum Dissolved Oxygen:	5.0838 mg/l
The Minimum DO occurs at:	2.6150 miles

Section Number	Increment Number	Distance, miles	Flow, cfs	Velocity, feet/sec	Total Travel Time, days	CBODu, mg/l	NH ₃ -N, mg/l	TON, mg/l	D.O., mg/l	Temp., °C
6	7	14.6810	0.1532	0.1000	8.9717	0.0635	0.0300	0.1966	6.9523	30.0000
6	8	14.8495	0.1532	0.1000	9.0747	0.0605	0.0297	0.1950	6.9674	30.0000
6	9	15.0180	0.1532	0.1000	9.1777	0.0576	0.0294	0.1935	6.9820	30.0000
6	10	15.1865	0.1532	0.1000	9.2806	0.0548	0.0291	0.1919	6.9961	30.0000
6	11	15.3550	0.1532	0.1000	9.3836	0.0522	0.0288	0.1903	7.0098	30.0000
6	12	15.5235	0.1532	0.1000	9.4866	0.0497	0.0285	0.1888	7.0230	30.0000
6	13	15.6920	0.1532	0.1000	9.5896	0.0474	0.0283	0.1873	7.0358	30.0000
6	14	15.8605	0.1532	0.1000	9.6925	0.0451	0.0280	0.1857	7.0482	30.0000
6	15	16.0290	0.1532	0.1000	9.7955	0.0430	0.0277	0.1842	7.0601	30.0000
6	16	16.1975	0.1532	0.1000	9.8985	0.0409	0.0275	0.1827	7.0717	30.0000
6	17	16.3660	0.1532	0.1000	10.0014	0.0390	0.0272	0.1812	7.0829	30.0000
6	18	16.5345	0.1532	0.1000	10.1044	0.0371	0.0269	0.1798	7.0937	30.0000
6	19	16.7030	0.1532	0.1000	10.2074	0.0353	0.0267	0.1783	7.1042	30.0000
6	20	16.8715	0.1532	0.1000	10.3104	0.0336	0.0264	0.1769	7.1144	30.0000
6	21	17.0400	0.1532	0.1000	10.4133	0.0320	0.0262	0.1754	7.1242	30.0000