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Alabama Department of Environmental Management

DECEMBER 9, 2022 Jimmy Junkin, Water Services Department Manager City of Athens Utilities Post Office Box 1089 Athens, AL 35612

RE: Draft Permit NPDES Permit No. AL0020206 Athens WWTP Limestone County, Alabama

Dear Mr. Junkin:

Transmitted herein is a draft of the referenced permit.

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

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

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

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

Birmingham Branch 110 Vulcan Road Birmingham, AL 35209-4702 (205) 942-6168 (205) 941-1603 (FAX) Decatur Branch 2715 Sandlin Road, S.W. Decatur, AL 35603-1333 (256) 353-1713 (256) 340-9359 (FAX)



Mobile Branch 2204 Perimeter Road Mobile, AL 36615-1131 (251) 450-3400 (251) 479-2593 (FAX) Mobile-Coastal 3664 Dauphin Street, Suite B Mobile, AL 36608 (251) 304-1176 (251) 304-1189 (FAX)

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

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

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

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

Should you have any questions, please contact the undersigned dastokes@adem.alabama.gov

Sincerely,

Dustin Stokes Municipal Section Water Division

Enclosure

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

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PERMITTEE:

CITY OF ATHENS UTILITIES POST OFFICE BOX 1089 ATHENS, AL 35612

942 EAST SANDERFER ROAD

FACILITY LOCATION:

AL0020206

ATHENS WWTP

ATHENS, ALABAMA LIMESTONE COUNTY

RECEIVING WATERS:

PERMIT NUMBER:

TOWN CREEK

In accordance with and subject to the provisions of the Federal Water Pollution Control Act, as amended, 33 U.S.C. SS1251-1388 (the "FWPCA"), the Alabama Water Pollution Control Act, as amended, Code of Alabama 1975, SS 22-22-1 to 22-22-14 (the "AWPCA"), the Alabama Environmental Management Act, as amended, Code of Alabama 1975, SS2-22A-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:

Alabama Department of Environmental Management

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PART I: DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

1. DSN 001-1: Municipal & Industrial 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 of	or Loading	Units	Qu	Quality or Concentration		Units	Sample Freq See note (1)	Sample Type	Seasonal See note (2)
Oxygen, Dissolved (DO) (00300) Effluent Gross Value	*****	*****	*****	6.0 Minimum Daily	****	. *****	mg/l	5X Weekly	Grab	Not Seasonal
pH (00400) Effluent Gross Value	*****	****	*****	6.0 Minimum Daily	****	8.5 Maximum Daily	S.U.	5X Weekly	Grab	Not Seasonal
Solids, Total Suspended (00530) Effluent Gross Value	2251 Monthly Average	3377 Weekly Average	lbs/day	****	30.0 Monthly Average	45.0 Weekly Average	mg/t	5X Weekly	24-Hr Composite	Not Seasonal
Solids, Total Suspended (00530) Raw Sew/Influent	(Report) Monthly Average	(Report) Weekly Average	lbs/day	****	(Report) Monthly Average	(Report) Weekly Average	mg/l	5X Weekly	24-Hr Composite	Not Seasonal
Nitrogen, Ammonia Total (As N) (00610) Effluent Gross Value	292 Monthly Average	439 Weekly Average	lbs/day	****	3.9 Monthly Average	5.8 Weekly Average	mg/l	5X Weekly	24-Hr Composite	W
Nitrogen, Ammonia Total (As N) (00610) Effluent Gross Value	75.0 Monthly Average	112 Weekly Average	lbs/day	*****	1.0 Monthly Average	1.5 Weekly Average	mg/l	5X Weekly	24-Hr Composite	S
Nitrogen, Kjeldahl Total (As N) (00625) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	lbs/day	*****	(Report) Monthly Average	(Report) Weekly Average	mg/l	Monthiy	24-Hr Composite	Not Seasonal
Nitrite Plus Nitrate Total 1 Det. (As N) (00630) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	ibs/day	****	(Report) Monthly Average	(Report) Weekly Average	mg/l	Monthly	24-Hr Composite	Not Seasonal
Phosphorus, Total (As P) (00665) Effluent Gross Value	(Report) Monthly Average	(Report) Weekly Average	lbs/day	****	(Report) Monthly Average	(Report) Weekly Average	mg/l	Monthly	24-Hr Composite	Not Seasonal

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 monitoring period, the sample result shall be reported on the DMRs as both the monthly average and daily maximum.

DSN 001-1 (Continued): Municipal & Industrial 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 o	or Loading	Units	Qu	ality or Concentra	tion	Units	Sample Freq See note (1)	Sample Type	Seasonal See note (2)
Copper Total Recoverable (01119) See note (5) Effluent Gross Value	*****	*****	****	****	21.2 Monthly Average	31.4 Maximum Daily	ug/l	Monthly	Grab	Not Seasonal
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	(Report) Monthly Average	(Report) Maximum Daily	MGD	*****	****	*****	*****	Daily	Continuous	Not Seasonal
Chlorine, Total Residual (50060) See notes (3, 4) Effluent Gross Value	****	*****	*****	*****	0.011 Monthly Average	0.019 Maximum Daily	mg/l	5X Weekly	Grab	Not Seasonal
E. Coli (51040) Effluent Gross Value	****	****	*****	*****	548 Monthly Average	2507 Maximum Daily	col/100mL	5X Weekly	Grab	ECW
E. Coli (51040) Effluent Gross Value	****	****	*****	****	126 Monthly Average	298 Maximum Daily	col/100mL	5X Weekly	Grab	ECS
BOD, Carbonaceous 05 Day, 20C (80082) Effluent Gross Value	450 Monthly Average	675 Weekly Average	lbs/day	****	6.0 Monthly Average	9.0 Weekly Average	mg/ł	5X Weekly	24-Hr Composite	S
BOD, Carbonaceous 05 Day, 20C (80082) Effluent Gross Value	975 Monthly Average	1463 Weekly Average	lbs/day	****	13.0 Monthly Average	19.5 Weekly Average	mg/l	5X Weekly	24-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	5X Weekly	24-Hr Composite	Not Seasonal
BOD, Carb-5 Day, 20 Deg C, Percent Remvl (80091) Percent Removal	****	****	*****	85.0 Monthly Average Minimum	****	****	%	Monthly	Calculated	Not Seasonal
Solids, Suspended Percent Removal (81011) Percent Removal	*****	****	*****	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 monitoring period, the sample result shall be reported on the DMRs as both the monthly average and maximum daily.

2. DSN 001-Q: Quarterly

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

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq See note (1)	Sample Type	Seasonal
Mercury Total Recoverable (71901) See notes (2, 3) Effluent Gross Value	****	****	****	****	0.012 Monthly Average	2.4 Maximum Daily	ug/l	Quarterly	Grab	Not Seasonal

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

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

(2) EPA Method 1631/1669E, or alternative method specifically approved by the Department shall be used for analysis of this parameter.

(3) If only one sampling event occurs during a monitoring period, the sample result shall be reported on the DMRs as both the monthly average and maximum daily.

3. DSN 001-T: Toxicity

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
Toxicity, Ceriodaphnia Chronic (61426) Effluent Gross Value	****	0 Single Sample	pass=0;fail=1	****	****	****	****	See Permit Requirements	24-Hr Composite	Not Seasonal
Toxicity, Pimephales Chronic (61428) Effluent Gross Value	****	0 Single Sample	pass=0;fail=1	*****	****	****	****	See Permit Requirements	24-Hr Composite	Not Seasonal

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

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

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

4. DSN 002-S: Stormwater

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 002S, which is described more fully in the Permittee's application as a storm water outfall located at the wastewater treatment plant. 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
pH (00400) Storm Water	****	****	*****	(Report) Minimum Daily	*****	(Report) Maximum Daily	S.U.	Annually	Grab	Not Seasonal
Solids, Total Suspended (00530) Storm Water	****	*****	*****	*****	****	(Report) Maximum Daily	mg/l	Annually	Grab	Not Seasonal
Oil & Grease (00556) Storm Water	*****	****	*****	*****	****	15.0 Maximum Daily	mg/l	Annually	Grab	Not Seasonal
Nitrogen, Ammonia Total (As N) (00610) Storm Water	*****	*****	*****	****	****	(Report) Maximum Daily	mg/l	Annually	Grab	Not Seasonal
Nitrogen, Kjeldahl Total (As N) (00625) Storm Water	****	*****	****	*****	****	(Report) Maximum Daily	mg/l	Annually	Grab	Not Seasonal
Nitrite Plus Nitrate Total 1 Det. (As N) (00630) Storm Water	*****	****	*****	****	****	(Report) Maximum Daily	mg/i	Annually	Grab	Not Seasonal
Phosphorus, Total (As P) (00665) Storm Water	****	*****	*****	****	****	(Report) Maximum Daily	mg/l	Annually	Grab	Not Seasonal
Flow, In Conduit or Thru Treatment Plant (50050) Storm Water	****	****	****	*****	****	(Report) Maximum Daily	MGD	Annually	Calculated	Not Seasonal
E. Coli (51040) Storm Water	****	****	*****	****	****	(Report) Maximum Daily	col/100mL	Annually	Grab	Not Seasonal
BOD, Carbonaceous 05 Day, 20C (80082) Storm Water	****	****	****	****	****	(Report) Maximum Daily	mg/l	Annually	Grab	Not Seasonal

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

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

See Permit Requirements for Stormwater in Part IV.G

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.

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

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

- f. The Permittee shall maintain a record of all known wastewater discharge points that are not authorized as permitted outfalls, including but not limited to SSOs. The Permittee shall include this record in its Municipal Water Pollution Prevention (MWPP) Annual Reports, which shall be submitted to the Department each year by May 31st for the prior calendar year period beginning January 1st and ending December 31st. The MWPP Annual Reports shall contain a list of all known wastewater discharge points that are not authorized as permitted outfalls and any discharges that occur prior to the headworks of the wastewater treatment plant covered by this permit. The Permittee shall also provide in the MWPP Annual Reports a list of any discharges reported during the applicable time period in accordance with Provision 1.C.2.a. The Permittee shall include in its MWPP Annual Reports the following information for each known unpermitted discharge that occurred:
 - (1) The cause of the discharge;
 - (2) Date, duration and volume of discharge (estimate if unknown);
 - (3) Description of the source (e.g., manhole, lift station);
 - (4) Location of the discharge, by latitude and longitude (or other appropriate method as approved by the Department);
 - (5) The ultimate destination of the flow (e.g., surface waterbody, municipal separate storm sewer to surface waterbody). Location should be shown on a USGS quad sheet or copy thereof; and
 - (6) Corrective actions taken and/or planned to eliminate future discharges.

D. OTHER REPORTING AND NOTIFICATION REQUIREMENTS

1. Anticipated Noncompliance

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

2. Termination of Discharge

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

3. Updating Information

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

4. Duty to Provide Information

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

E. SCHEDULE OF COMPLIANCE

1. Compliance with discharge limits

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

COMPLIANCE SHALL BE ATTAINED ON THE EFFECTIVE DATE OF THIS PERMIT

2. Schedule

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

PART II: OTHER REQUIREMENTS, RESPONSIBILITIES, AND DUTIES

A. OPERATIONAL AND MANAGEMENT REQUIREMENTS

1. Facilities Operation and Maintenance

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

2. Best Management Practices

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

3. Certified Operator

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

B. OTHER RESPONSIBILITIES

1. Duty to Mitigate Adverse Impacts

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

2. Right of Entry and Inspection

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

C. BYPASS AND UPSET

1. Bypass

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

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

2. Upset

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

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

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

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

2. Removed Substances

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

3. Loss or Failure of Treatment Facilities

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

4. Compliance with Statutes and Rules

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

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

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

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

2. Change in Discharge

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

3. Transfer of Permit

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

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

4. Permit Modification and Revocation

- a. This permit may be modified or revoked and reissued, in whole or in part, during its term for cause, including but not limited to, the following:
 - (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to revoke and reissue this permit instead of terminating the permit;
 - (2) If a request to transfer this permit has been received, the Director may decide to revoke and reissue or to modify the permit; or
 - (3) If modification or revocation and reissuance is requested by the permittee and cause exists, the Director may grant the request.
- b. This permit may be modified during its term for cause, including but not limited to, the following:
 - (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to modify this permit instead of terminating this permit;
 - (2) There are material and substantial alterations or additions to the facility or activity generating wastewater which occurred after permit issuance which justify the application of permit conditions that are different or absent in the existing permit;
 - (3) The Director has received new information that was not available at the time of permit issuance and that would have justified the application of different permit conditions at the time of issuance;
 - (4) A new or revised requirement(s) of any applicable standard or limitation is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA;
 - (5) Errors in calculation of discharge limitations or typographical or clerical errors were made;
 - (6) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, when the standards or regulations on which the permit was based have been changed by promulgation of amended standards or regulations or by judicial decision after the permit was issued;
 - (7) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, permits may be modified to change compliance schedules;
 - (8) To agree with a granted variance under 30l(c), 30l(g), 30l(h), 30l(k), or 3l6(a) of the FWPCA or for fundamentally different factors;
 - (9) To incorporate an applicable 307(a) FWPCA toxic effluent standard or prohibition;
 - (10) When required by the reopener conditions in this permit;
 - (11) When required under 40 CFR 403.8(e) (compliance schedule for development of pretreatment program);
 - (12) Upon failure of the state to notify, as required by Section 402(b)(3) of the FWPCA, another state whose waters may be affected by a discharge permitted by this permit;
 - (13) When required to correct technical mistakes, such as errors in calculation, or mistaken interpretations of law made in determining permit conditions; or
 - (14) When requested by the permittee and the Director determines that the modification has cause and will not result in a violation of federal or state law, regulations or rules; or

5. Termination

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

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

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

6. Suspension

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

7. Stay

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

F. COMPLIANCE WITH TOXIC POLLUTANT STANDARD OR PROHIBITION

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

G. NOTICE TO DIRECTOR OF INDUSTRIAL USERS

- 1. The permittee shall not allow the introduction of wastewater, other than domestic wastewater, from a new direct 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 create a fire or explosion hazard in the treatment works;
- 2. Pollutants which will cause corrosive structural damage to the treatment works, or dischargers with a pH lower than 5.0 s.u., unless the works are specifically designed to accommodate such discharges;
- 3. Solid or viscous pollutants in amounts which will cause obstruction of flow in sewers, or other interference with the treatment works;
- 4. Pollutants, including oxygen demanding pollutants, released in a discharge of such volume or strength as to cause interference in the treatment works;

- 5. Heat in amounts which will inhibit biological activity in the treatment plant resulting in interference or in such quantities that the temperature of the treatment plant influent exceeds 40 °C (104 °F) unless the treatment plant is designed to accommodate such heat;
- 6. Pollutants in amounts which exceed any applicable pretreatment standard under Section 307 of FWPCA or any approved revisions thereof.

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 <u>Code of Alabama</u> 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

- 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". <u>Code of Alabama</u> 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.
- 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 <u>Code of Alabama</u> 1975, Section 22-22-1(b)(3) and those effluent characteristics specified in Provision I. A. of this permit.
- 34. Privately Owned Treatment Works means any devices or system which is used to treat wastes from any facility whose operator is not the operator of the treatment works, and which is not a "POTW".
- 35. Publicly Owned Treatment Works (POTW) means a wastewater collection and treatment facility owned by the State, municipality, regional entity composed of two or more municipalities, or another entity created by the State or local authority for the purpose of collecting and treating municipal wastewater.
- 36. Receiving Stream means the "waters" receiving a "discharge" from a "point source".
- 37. Severe property damage means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
- 38. Significant Source means a source which discharges 0.025 MGD or more to a POTW or greater than five percent of the treatment work's capacity, or a source which is a primary industry as defined by the U.S. EPA or which discharges a priority or toxic pollutant.
- 39. TKN means the pollutant parameter Total Kjeldahl Nitrogen.
- 40. TON means the pollutant parameter Total Organic Nitrogen.
- 41. TRC means Total Residual Chlorine.

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

I. SEVERABILITY

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

PART IV: SPECIFIC REQUIREMENTS, CONDITIONS, AND LIMITATIONS

A. SLUDGE MANAGEMENT PRACTICES

1. Applicability

- a. Provisions of Provision IV.A. apply to a sewage sludge generated or treated in treatment works that is applied to agricultural and non-agricultural land, or that is otherwise distributed, marketed, incinerated, or disposed in landfills or surface disposal sites.
- b. Provisions of Provision IV.A. do not apply to:

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

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

2. Submitting Information

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

3. Reopener or Modification

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

B. EFFLUENT TOXICITY LIMITATIONS AND BIOMONITORING REQUIREMENTS FOR CHRONIC TOXICITY

1. Chronic Toxicity Test

- a. The permittee shall perform short-term chronic toxicity tests on the wastewater at Outfall 001.
- b. The samples shall be diluted using appropriate control water to the Instream Waste Concentration (IWC) which is 99 percent effluent. The IWC is the actual concentration of effluent, after mixing, in the receiving stream during a 7-day, 10-year low flow period.
- c. Any test result that shows a statistically significant reduction in survival, growth, or reproduction between the control and test samples at the 95% confidence level indicates chronic toxicity and shall constitute noncompliance with this permit.

2. General Test Requirements

a. A minimum of three (3) 24-hour composite samples shall be obtained for use in the above biomonitoring tests. Samples shall be collected every other day so that the laboratory receives water samples on the first, third, and fifth day of the seven-day test period. The holding time for each composite sample shall not exceed 36 hours. The control water shall be a water prepared in the laboratory in accordance with the EPA procedure described in EPA 821-R-02-013 (most current edition) or another control water selected by the Permittee and approved by the Department.

- b. Test results shall be deemed unacceptable and the Permittee shall rerun the tests as soon as practical within the monitoring period for the following:
 - (1) For testing with P. promelas: effluent toxicity tests with control survival of less than 80% or if dry weight per surviving control organism is less than 0.25 mg;
 - (2) For testing with C. dubia: if the number of young per surviving control organism is less than 15 or if less than 60% of surviving control females produce three broods; or
 - (3) If the other requirements of the EPA Test Procedure are not met.
- c. In the event of an invalid test, upon subsequent completion of a valid test, the results of all tests, valid and invalid, are to be reported to the Department along with an explanation of the tests performed and the test results.
- d. Toxicity tests shall be conducted for the duration of this permit in the month of AUGUST. Should results from the Annual Toxicity test indicate that Outfall 001 exhibits chronic toxicity, then the Permittee must conduct the follow-up testing described in Part 1V.B.4.a. In addition, the Permittee may then also be required to conduct toxicity testing in the months of FEBRUARY, MAY, AUGUST, and NOVEMBER.

3. Reporting Requirements

- a. The Permittee shall notify the Department in writing within 48 hours after toxicity has been demonstrated by the scheduled test(s).
- b. Biomonitoring test results obtained during each monitoring period shall be summarized and reported using the appropriate Discharge Monitoring Report (DMR) form approved by the Department. In accordance with Section 2 of this part, an effluent toxicity report containing the information in Sections 2 and 6 shall be included with the DMR. The test results must be submitted to the Department no later than 28 days after the month that tests were performed.

4. Additional Testing Requirements

- a. If chronic toxicity is indicated (i.e., noncompliance with permit limit), then the Permittee must perform two additional valid chronic toxicity tests in accordance with these procedures to determine the extent and duration of the toxic condition. The toxicity tests shall run consecutively beginning on the first calendar week following the date that the Permittee became aware of the permit noncompliance. The results of these follow-up tests shall be submitted to the Department no later than 28 days following the month the tests were performed.
- b. After evaluation of the results of the follow-up tests, the Department will determine if additional action is appropriate and may require additional testing and/or toxicity reduction measures. The permittee may be required to perform a Toxicity Identification Evaluation (TIE) and/or a Toxicity Reduction Evaluation (TRE). The TIE/TRE shall be performed in accordance with the most recent protocols and guidance outlined by EPA (e.g., EPA/600/2-88/062, EPA/600/R-92/080, EPA/600/R-91-003, EPA/600/R-92/081, EPA/833/B-99/022, and/or EPA/600/6-91/005F)

5. Test Methods

The tests shall be performed in accordance with the latest edition of the "EPA Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms." The Larval Survival and Growth Test, Method 1000.0, shall be used for the fathead minnow (*Pimephales promelas*) test and the Survival and Reproduction Test, Method 1002.0, shall be used for the cladoceran (*Ceriodaphnia dubia*) test.

6. Effluent Toxicity Testing Reports

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

a. Introduction

- (1) Facility name, location and county
- (2) Permit number
- (3) Toxicity testing requirements of permit

- (4) Name of receiving water body
- (5) Contract laboratory information (if tests are performed under contract)
 - (i) Name of firm
 - (ii) Telephone number
 - (iii) Address
- (6) Objective of test
- b. Plant Operations
 - (1) Discharge Operating schedule (if other than continuous)
 - (2) Volume of discharge during sample collection to include Mean daily discharge on sample collection dates (MGD, CFS, GPM)
 - (3) Design flow of treatment facility at time of sampling
- c. Source of Effluent and Dilution Water
 - (1) Effluent samples
 - (2) Sampling point
 - (3) Sample collection dates and times (to include composite sample start and finish times)
 - (4) Sample collection method
 - (5) Physical and chemical data of undiluted effluent samples (water temperature, pH, alkalinity, hardness, specific conductance, total residual chlorine (if applicable), etc.)
 - (6) Lapsed time from sample collection to delivery
 - (7) Lapsed time from sample collection to test initiation
 - (8) Sample temperature when received at the laboratory
 - (9) Dilution Water
 - (10) Source
 - (11) Collection/preparation date(s) and time(s)
 - (12) Pretreatment (if applicable)
 - (13) Physical and chemical characteristics (water temperature, pH, alkalinity, hardness, specific conductance, etc.)
- d. Test Conditions
 - (1) Toxicity test method utilized
 - (2) End point(s) of test
 - (3) Deviations from referenced method, if any, and reason(s)
 - (4) Date and time test started
 - (5) Date and time test terminated
 - (6) Type and volume of test chambers
 - (7) Volume of solution per chamber
 - (8) Number of organisms per test chamber
 - (9) Number of replicate test chambers per treatment
 - (10) Test temperature, pH, and dissolved oxygen as recommended by the method (to include ranges)
 - (11) Specify if aeration was needed
 - (12) Feeding frequency, amount, and type of food

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

(14) Light intensity (mean)

- e. Test Organisms
 - (1) Scientific name
 - (2) Life stage and age
 - (3) Source
 - (4) Disease(s) treatment (if applicable)
- f. Quality Assurance
 - (1) Reference toxicant utilized and source
 - (2) Date and time of most recent chronic reference toxicant test(s), raw data, and current control chart(s). (The most recent chronic reference toxicant test shall be conducted within 30 days of the routine.)
 - (3) Dilution water utilized in reference toxicant test
 - (4) Results of reference toxicant test(s) (NOEC, IC25, etc.); report concentration-response relationship and evaluate test sensitivity
 - (5) Physical and chemical methods utilized
- g. <u>Results</u>
 - (1) Provide raw toxicity data in tabular form, including daily records of affected organisms in each concentration (including controls) and replicate
 - (2) Provide table of endpoints: NOECs, IC25s, PASS/FAIL, etc. (as required in the applicable NPDES permit)
 - (3) Indicate statistical methods used to calculate endpoints
 - (4) Provide all physical and chemical data required by method
 - (5) Results of test(s) (NOEC, IC25, PASS/FAIL, etc.), report concentration-response relationship (definitive test only), report percent minimum significant difference (PMSD) calculated for sublethal endpoints determined by hypothesis testing.
- h. Conclusions and Recommendations
 - (1) Relationship between test endpoints and permit limits
 - (2) Actions to be taken

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

C. TOTAL RESIDUAL CHLORINE (TRC) REQUIREMENTS

- 1. If chlorine is not utilized for disinfection purposes, TRC monitoring under Part I of this Permit is not required. If TRC monitoring is not required (conditional monitoring), "*9" should be reported on the DMR forms.
- 2. Testing for TRC shall be conducted according to either the amperometric titration method or the DPD colorimetric method as specified in Section 408(C) or (E), Standards Methods for the Examination of Water and Wastewater, 18th edition. If chlorine is not detected prior to actual discharge to the receiving stream using one of these methods (i.e., the analytical result is less than the detection level), the Permittee shall report on the DMR form "*B" or "0". The Permittee shall then be considered to be in compliance with the daily maximum concentration limit for TRC.
- 3. This permit contains a maximum allowable TRC level in the effluent. The Permittee is responsible for determining the minimum TRC level needed in the chlorine contact chamber to comply with E.coli limits. The effluent shall be dechlorinated if necessary to meet the maximum allowable effluent TRC level.
- 4. The sample collection point for effluent TRC shall be at a point downstream of the chlorine contact chamber (downstream of dechlorination, if applicable). The exact location is to be approved by the Director.

D. PLANT CLASSIFICATION

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

E. SANITARY SEWER OVERFLOW RESPONSE PLAN

1. SSO Response Plan

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

- a. General Information
 - (1) Approximate population of City/Town, if applicable
 - (2) Approximate number of customers served by the Permittee
 - (3) Identification of any subbasins designated by the Permittee, if applicable
 - (4) Identification of estimated linear feet of sanitary sewers
 - (5) Number of Pump/Lift Stations in the collection system
- b. <u>Responsibility Information</u>
 - (1) The title(s) and contact information of key position(s) who will coordinate the SSO response, including information for a backup coordinator in the event that the primary SSO coordinator is unavailable. The SSO coordinator is the person responsible for assessing the SSO and initiating a series of response actions based on the type, severity, and destination of the SSO, except for routine SSOs for which the coordinator may pre-approve written procedures. Routine SSOs are those for which the corrective action procedures are generally consistent.
 - (2) The title(s), and contact information of key position(s) who will respond to SSOs, including information for backup responder(s) in the event the primary responder(s) are unavailable (i.e., position(s) who provide notification to the Department, the public, the county health department, and other affected entities such as public water systems; position(s) responsible for organizing crews for response; position(s) responsible for addressing public inquiries)
- c. SSO and Surface Water Assessment
 - (1) Identification of locations within the collection system at which an SSO is likely to occur (e.g., based upon historical SSOs, lift stations where electricity may be lost, etc.)
 - (2) A map of the general collection system area, including identification of surface waterbodies and the location(s) of public drinking water source(s). Mapping of all collection system piping, pump stations, etc. is not required; however, if this information is already available, it should be included.
 - (3) Identification of surface waterbodies within the collection system area which are classified as Swimming according to ADEM Admin. Code chap. 335-6-11. References available to assist in this requirement include the following: <u>http://adem.alabama.gov/alEnviroRegLaws/files/Division6Vol1.pdf</u> and <u>http://adem.alabama.gov/wqmap</u>.
 - (4) Identification of surface waterbodies within the collection system area which are not classified as Swimming as indicated in paragraph c above, but are known locally as areas where swimming occurs or as areas that are heavily recreated

d. Public Reporting of SSOs

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

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

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

- e. Procedures to immediately notify the Department, the county health department, and other affected entities (such as public water systems) upon becoming aware of notifiable SSOs
- f. Public Notification Methods for SSOs
 - (1) A listing of methods that are feasible, as determined by the Permittee, for public notifications (e.g., flyers distributed to nearby residents; signs posted at the location of the SSO, where the SSO enters a water of the state, and/or at a central public location; signs posted at fishing piers, boat launches, parks, swimming waterbodies, etc.; website and/or social media notifications; local print or radio and broadcast media notifications; "opt in" email, text message, or automated phone message notifications)
 - (i) If signage is a feasible method for public notification, procedures for use and removal of signage (e.g., availability and maintenance of signs, appropriate duration of postings)
 - (2) Minimum information to be included in public notifications (e.g., identification that an SSO has occurred, date, duration if known, estimated volume if known, location of the SSO by street address or other appropriate method, initial destination of the SSO)
 - (3) Procedures developed by the Permittee for determining the appropriate public notification method(s) based upon the potential for public exposure to health risks associated with the SSO
- g. Standard Procedures shall be developed by the Permittee and shall include, at a minimum
 - (1) General SSO Response Procedures (e.g., procedures for dispatching staff to assess/correct an SSO; procedures for routine SSO corrective actions such as those for sewer blockages, overflowing manholes, line breakages, pump station power failure, etc.; procedures for disinfection of affected area, if applicable);
 - (2) Procedures for collection and proper disposal of the SSO, if feasible.
 - (3) General procedures for coordinating instream water quality monitoring, including, but not limited to, procedures for mobilizing staff, collecting samples, and typical test methods should the Department or the Permittee determine monitoring is appropriate following an SSO. Identification of a contractor who will collect and analyze the sample(s) may be listed in lieu of the procedures.
 - (4) References to other documents (such as Standard Operating Procedures for SSO Responses) may be acceptable for this section; however, the referenced document shall be identified and shall be reviewed at a frequency of at least that required by the Administrative Procedures Section.
- h. Date of the SSO Response Plan, dates of all modifications and/or reviews, the title and signature of the reviewer(s) for each date and the signature of the responsible official or the appropriate designee.

2. SSO Response Plan Implementation

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

3. Department Review of the SSO Response Plan

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

4. SSO Response Plan Administrative Procedures

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

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

F. POLLUTANT SCANS

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

G. MAJOR SOURCE STORMWATER REQUIREMENTS

1. Prohibitions

- a. The Permittee shall not allow the discharge of non-storm water into permitted storm water outfall(s) unless said discharge is already subject to an NPDES permit.
- b. Pollutants removed in the course of treatment or control shall be disposed in a manner that complies with all applicable Department rules and regulations.

2. Operational and Management Practices

The permittee shall prepare and implement a Storm Water Pollution Prevention (SWPP) Plan within one year of the effective date of this permit.

- a. In the SWPP Plan, the Permittee shall:
 - (1) Assess the treatment plant site by developing and presenting site drainage maps, materials inventory, and best management operational practices. The plan shall also include a description of all spill or leak sources;
 - (2) Describe mechanisms and procedures to prevent the contact of sewage sludge, screenings, raw or partially treated wastewater, or any other waste product or pollutant with storm water discharged from the facility;
 - (3) Provide for daily inspection on workdays of any structures that function to prevent storm water pollution or that remove pollutants from storm water;
 - (4) Provide for daily inspection of the facility in general to ensure that the SWPP Plan is continually implemented and effective;
 - (5) Include a Best Management Practices (BMP) Plan that, as a minimum, addresses housekeeping, preventative maintenance, spill prevention and response, and non-storm water discharges;
 - (6) Describe mechanisms and procedures to provide sediment control sufficient to prevent or control storm water pollution storm water by particles resulting from soil or sediment migration from the site due to significant clearing, grading, or excavation activities;
 - (7) Designate by position or name the person or persons responsible for the day to day implementation of the SWPP Plan; and
 - (8) Bear the signature of an individual meeting signatory requirements as defined in ADEM Administrative Code, Rule 335-6-6-.09.
- b. The Director or his designee may notify the permittee at any time that the SWPP Plan is deficient and will require correction of the deficiency. The permittee shall correct any SWPP Plan deficiency identified by the Director or his designee within 30 days of receipt of notification and shall certify to the Department that the correction has been made and implemented.

c. Administrative Procedures

- (1) A copy of the SWPP Plan shall be maintained at the facility and shall be available for inspection by the Department.
- (2) A log of daily inspections required by Provision IV.G.2.a.(3.) of the permit shall be maintained at the facility and shall be made available for inspection by the Department upon request. The log shall contain records of all inspections performed and each daily entry shall be signed by the person performing the inspection.
- (3) The Permittee shall provide training for any personnel required to implement the SWPP Plan and shall retain documentation of such training at the facility. Training records for all personnel shall be available for inspection by the Department. Training shall be performed prior to the date implementation is required.

3. Monitoring Requirements

- a. Storm water discharged through each storm water outfall shall be sampled once per calendar year, using first flush grab samples (FFGS) collected during the first 30 minutes of discharge.
- b. The total volume of storm water discharged for the event must be monitored, including the date and duration (in hours) and rainfall (in inches) for the storm event(s) sampled. The duration between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event must be a minimum of 72 hours. This information must be recorded as part of the sampling procedure and records retained in accordance with Provision I.B.5. of this permit. The volume may be measured using flow measurement devices or may be estimated using any method approved in writing by the Department.

FACT SHEET

APPLICATION FOR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT TO DISCHARGE POLLUTANTS TO WATERS OF THE STATE OF ALABAMA

Date Prepared: August 23, 2022

By: Dustin Stokes

NPDES Permit No. AL0020206

1. Name and Address of Applicant:

City of Athens Utilities Post Office Box 1089 Athens, AL 35612

2. Name and Address of Facility:

Athens WWTP 942 East Sanderfer Road Athens, AL 35611

3. Description of Applicant's Type of Facility and/or Activity Generating the Discharge:

Discharge Type(s): Surface Water Treatment Method(s): Mechanical (WWTP)

4. Applicant's Receiving Waters

Featur	e ID	Receiving Water	Classification
001		Town Creek	Fish and Wildlife (F&W)
002	2	Town Creek	Fish and Wildlife (F&W)

For the Outfall latitude and longitude see the permit application.

5. Permit Conditions:

See attached Rationale and Draft Permit.

6. PROCEDURES FOR THE FORMULATION OF FINAL DETERMINATIONS

a. Comment Period

The Alabama Department of Environmental Management proposes to issue this NPDES permit subject to the limitations and special conditions outlined above. This determination is tentative.

Interested persons are invited to submit written comments on the draft permit to the following address:

Jeffery W. Kitchens, Chief ADEM-Water Division 1400 Coliseum Blvd [Mailing Address: Post Office Box 301463; Zip 36130-1463] Montgomery, Alabama 36110-2400 (334) 271-7823 water-permits@adem.alabama.gov All comments received prior to the closure of the public notice period (see public notice for date) will be considered in the formulation of the final determination with regard to this permit.

b. Public Hearing

A written request for a public hearing may be filed within the public notice period and must state the nature of the issues proposed to be raised in the hearing. A request for a hearing should be filed with the Department at the following address:

Jeffery W. Kitchens, Chief ADEM-Water Division 1400 Coliseum Blvd [Mailing Address: Post Office Box 301463; Zip 36130-1463] Montgomery, Alabama 36110-2400 (334) 271-7823 water-permits@adem.alabama.gov

The Director shall hold a public hearing whenever it is found, on the basis of hearing requests, that there exists a significant degree of public interest in a permit application or draft permit. The Director may hold a public hearing whenever such a hearing might clarify one or more issues involved in the permit decision. Public notice of such a hearing will be made in accordance with ADEM Admin. Code r. 335-6-6-.21.

c. Issuance of the Permit

All comments received during the public comment period shall be considered in making the final permit decision. At the time that any final permit decision is issued, the Department shall prepare a response to comments in accordance with ADEM Admin. Code r. 335-6-6-.21. The permit record, including the response to comments, will be available to the public via the eFile System http://app.adem.alabama.gov/eFile/ or an appointment to review the record may be made by writing the Permits and Services Division at the above address.

Unless a request for a stay of a permit or permit provision is granted by the Environmental Management Commission, the proposed permit contained in the Director's determination shall be issued and effective, and such issuance will be the final administrative action of the Alabama Department of Environmental Management.

d. Appeal Procedures

As allowed under ADEM Admin. Code chap. 335-2-1, any person aggrieved by the Department's final administrative action may file a request for hearing to contest such action. Such requests should be received by the Environmental Management Commission within thirty days of issuance of the permit. Requests should be filed with the Commission at the following address:

Alabama Environmental Management Commission 1400 Coliseum Blvd [Mailing Address: Post Office Box 301463; Zip 36130-1463] Montgomery, Alabama 36110-2400

All requests must be in writing and shall contain the information provided in ADEM Admin. Code r. 335-2-1-.04.

NPDES PERMIT RATIONALE

NPDES Permit No:	AL0020206	Date: August 22, 2022
Permit Applicant:	City of Athens Utilities Post Office Box 1089 Athens, AL 35612	
Location:	Athens WWTP 942 East Sanderfer Road Athens, AL 35611	
Draft Permit is:	Initial Issuance: Reissuance due to expiration: Modification of existing permit: Revocation and Reissuance:	X
Basis for Limitations:	Water Quality Model: Reissuance with no modification: Instream calculation at 7Q10: Toxicity based: Secondary Treatment Levels: Other (described below):	DO, NH ₃ -N, CBOD DO, pH, TSS, NH ₃ -N (summer), TRC, CBOD % Removal, TSS % Removal, Mercury 99% TRC TSS, TSS % Removal, CBOD % Removal pH, E. coli, Copper, Mercury
Design Flow in Million (Gallons per Day: 9.0 MG	iD
Major:	Yes	

Description of Discharge:

Feature ID	Description	Receiving Water	WBC	303(d)	TMDL
001	Municipal and Industrial Wastewater	Town Creek	Fish and Wildlife (F&W)	No	Yes
002	Stormwater Discharge	Town Creek	Fish and Wildlife (F&W)	No	Yes

Discussion:

This is a permit reissuance due to expiration. Limits for Five Day Carbonaceous Biochemical Oxygen Demand (CBOD), Total Ammonia-Nitrogen (NH₃-N), and Dissolved Oxygen (DO) were developed based on a Waste Load Allocation (WLA) model that was completed by ADEM's Water Quality Branch (WQB) on May 27, 2020. The monthly average limits for CBOD summer (April-October) and winter (November-March) are 6.0 mg/L and 13.0 mg/L, respectively. The monthly average limits for NH₃-N summer (April-October) and winter (November-March) are 1.0 mg/L and 3.9 mg/L, respectively. The WLA asserts that the seasonal effluent limitations are protective of the Swan Creek use classification of fish & Wildlife and that it maintains instream dissolved oxygen concentrations above 5 mg/L. The increased NH₃-N winter limitation is not backsliding since the increase would result in water quality standards being obtained and the revision is consistent with the Department's anti-degradation policy. In addition, the CBOD limits are being lowered in this reissuance. The daily minimum DO limit is 6.0 mg/L.

The pH daily minimum and daily maximum limits of 6.0 and 8.5 S.U, respectively, were developed to be supportive of the water-use classification of the receiving stream. The Total Residual Chlorine (TRC) limits of 0.011 mg/L (monthly average) and 0.019 mg/L (daily maximum) are based on EPA's recommended water quality values and on the current Toxicity Rationale, which considers the available dilution in the receiving stream. In accordance with a letter dated August 11, 1998 from EPA Headquarters and a 1991 memorandum from EPA Region 4's Environmental Services Division (ESD), due to testing and method detection limitations, a Total Residual Chlorine measurement below 0.05 mg/L shall be considered below detection for compliance purposes. Monitoring for TRC is only applicable if chlorine is utilized for disinfection purposes.

The Department revised bacteriological criteria in ADEM Administrative Code R.335-6-10-.09. As a result, this permit includes <u>E. coli</u> limits and seasons that are consistent with the revised regulations. The imposed <u>E. coli</u> limits were determined based on the water-use classification of the receiving stream. Since Town Creek is classified as Fish & Wildlife, the limits for May – October are 126 col/100ml (monthly average) and 298 col/100ml (daily maximum), while the limits for November – April are 548 col/100ml (monthly average) and 2507 col/100ml (daily maximum).

The Total Suspended Solids (TSS) and TSS % removal limits of 30.0 mg/L monthly average and 85.0%, respectively, are based on the requirements of 40 CFR part 133.102 regarding Secondary Treatment. A minimum percent removal limit of 85.0% is imposed for CBOD also in accordance with 40 CFR 133.102 regarding Secondary Treatment.

This permit requires the Permittee to monitor and report the nutrient-related parameters of Total Kjeldahl Nitrogen (TKN), Nitrate plus Nitrite Nitrogen ($N0_2+N0_3-N$) and Total Phosphorus (TP). 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.

Storm water runoff monitoring is being imposed by this permit based on 40 CFR Part 122. The designated outfall for storm water runoff monitoring is 002S. Storm water runoff is to be monitored annually.

Because this is a major facility (design capacity greater than 1 MGD) treating both municipal and industrial wastewater, chronic toxicity testing with two species (Ceriodaphnia and Pimephales) is being imposed on this permit. Toxicity testing is imposed for both survival and life-cycle impairment (i.e., growth and reproduction). Chronic toxicity at the IWC of 99 percent is required once per year during the month of August. The decreased IWC is not backsliding since the decrease would result in water quality standards being obtained and the revision is consistent with the Department's anti-degradation policy. If the toxicity tests of the effluent from Outfall 001 indicates chronic toxicity, then toxicity tests may be required to be conducted during the months of February, May, August and November.

Because this is a major facility treating both municipal and industrial wastewater, the Department completed a reasonable potential analysis (RPA) of the discharge based on the application data, DMR data, and background data from station TOWL-2. The RPA indicates whether pollutants in treated effluent have potential to contribute to excursions of Alabama's in-stream water quality standards. Based on the analytical data submitted by the Permittee, it appears reasonable potential may exist to cause an in-stream water quality criteria exceedance for mercury and copper. As a result, the Department is imposing monthly average and daily maximum discharge limitations for Total Recoverable Mercury of 0.012 μ g/L and 2.4 μ g/L, respectively. The Department is also imposing monthly average and daily maximum discharge limitations for Total Recoverable Copper of 21.2 μ g/L and 31.4 μ g/L, respectively.

The monitoring frequency for DO, pH, TSS, NH₃-N, TRC, E. coli and CBOD is five times per week. The monitoring frequency for Copper, TKN, N0₂+N0₃-N and TP is once per month. The monitoring frequency for Mercury is once per quarter. TSS % removal and CBOD % removal are to be calculated once per month. Flow is to be continuously monitored daily.

The segment of Town Creek, containing the discharge, is classified as a Tier I stream and is not on the most recent 303(d) list. However, the discharge is in close proximity to Swan Creek. Swan Creek is listed on the most recent 303(d) list for nutrient impairment. Nutrient monitoring is imposed in the reissuance so that sufficient information will be available regarding the nutrient contribution to this segment of Swan Creek for the purpose of TMDL development. The EPA is in

the process of developing a model for Swan Creek, which would aid in the development of a TMDL. Based on the information available at this time, it is not expected that this discharge is resulting in the nutrient impairment in the downstream segment of the receiving stream. Also, since this reissuance does not include an expansion, an increase in nutrients to this segment of Swan in the discharge is not expected. If additional data becomes available during the development of a TMDL that this source causes or contributes to the impairment, the Department will modify/reissue the Permit with the appropriate limits consistent with the TMDL. The facility's storm water runoff is not expected to contribute to the impairment. Swan Creek has an approved TMDL for Low Dissolved Oxygen/Organic Loading (O.E./D.O.) that was finalized in February 2002. In May 2016, the Department completed a Use Classification Upgrade Report that presented information and evidence supporting the designated use upgrade of Swan Creek from the Agricultural and Industrial Water Supply (A&I) use to the Fish and Wildlife (F&W) stream use classification. The effluent limits provided in the May 27, 2020 WLA evaluation are reflective of the necessary limits for Athens WWTP to support the use class upgrade given in the 2016 report. Additionally, while the NH₃-N limits were increased from the previous Permit, the CBOD limits were decreased. Swan Creek also has an approved TMDL for Siltation. Per the TMDL, in general for sediment loads to the receiving streams, the point source discharge levels are negligible to the non-point sources. In addition, the point sources are generally composed of organic material and therefore would provide less direct impact to biological integrity (through settling and accumulation) than would direct soil loss to the streams. Present calculations do not show a need for siltation reduction of point sources under the Swan Creek Siltation TMDLs. The facility's storm water discharge is consistent with the assumptions in the TMDLs and are not expected to contribute to either impairment. Additionally, the facility is required to develop and implement a Storm Water Pollution Prevention Plan, which should help minimize pollutants in the storm water.

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

Prepared by:

Dustin Stokes

	Waste Loa	ad Allocat	tion Su	ımmai	y	Page 1
,	REG	QUEST INFORM	ATION	Request Nu	mber:	3447
From:		The second se	Branch/S	Les market where the	Municipal	
Date Submi			and 193	2017 F	JND Code	605
Receiving Waterbody	application received t	Town Creek				
Previous Stream Name		Town orcer		···· · · · · · · · · · · · · · · · · ·		
Facility Name	Athe	ens WWTP	·	(Name of Di	 scharger-WQ v	vill use to fil
			······································		charger Name	laineinei lean lean Para Rogertain anna
River Basin	Tennessee	Outfall Lati	tude 3	4.770046	(decimal deg	rees)
*County	Limestone	Outfall Longi	tude -8	6.948631	(decimal deg	rees)
Permit Number	AL002020	6 P	ermit Type			
		Pe	ermit Status		Active	
		Type of	Discharger		MUNICIPAL	
Do oth	er discharges exist	that may impact (the model?	✓ Yes	🗆 No	
If yes, impacting dischargers names.	Community	Impacti discharg number	jers permit	AL0058760		
Proposed	Discharge Design Discharge Design		MGD MGD		e flow rates gi requested for	
Comments included		1 1 X 1 1 1 X 1 1 1 X 1 1 1 X 1 1 1 X 1 1 1 X 1 1 1 X 1 1 X 1 1 X 1 1 X 1	nation JJN ied By	Glassik JPA	ar File Was Creat conse ID Number	
E anonander and an and an and an and an and an an an and an			Lat/Long	Method		
12 Digit HUC Code	060300021101	**********				
Use Classification	F&W					
Site Visit Completed?	Yes 🗸	No	Date of	Site Visit		
Waterbody Impaired?	Yes V	No	te of WLA F	Response	5/27/2020	
Antidegradation	Yes V	No	proved TM	DL?		
Waterbody Tier Level	Tier I		Yes 🗸	No		
Use Support Category	l e e com p		proval Date	of TMDL		<u></u>
N	Vaste Load	l Allocatio	n Info	rmatio	n	
Modeled Reach Leng	th 8.41	Miles	Date of	Allocation	5/27/20)20
Name of Model Use	d SWQM		Alloc	ation Type	2 Seas	ons
Model Completed b	y James Moon	ey	Type of I	Model Used	Calibra	ited
Allocation Developed t	water Quality B	ranch				

	Wa	iste Lo	bad Al	locati	on Sum	nmary		Page 2
		Conventior	nal Paramet	ers		Other Pa	rameters	
Annual Effluent	Qw	9 MGD	Qw 9	MGD	Qw	MGD	Qw	MGD
Limits	Season	Summer	Season	Winter	Season		Season	· · ·
Qw MGD	From	Apr	From	Nov	From	-	From	
CBOD5	Through	Oct	Through	Mar	Through		Through	
NH3-N	CBOD5	6	CBOD5	13	TP		ng TP ∰	
TKN	NH3-N	1	NH3-N	3.9	TN		TN	
D.O.	TKN		TKN		TSS		TSS	
		6	D.O.	6				
"Monitor Only" Pa	arameters f	or Effluent:	Para	meter	Frequency	Paran	nete r i	-requency
			T P	Мо	nthly	,		
			TKN	Mo	nthly	[<u> </u>	
			NO2+NO3-	N Mo	nthly	<u> </u>	<u> </u>	·:

Parame	er Sun	nmer		Winter	
CBO	Du 1	mg/l		1 mg//	
NHS	N 0.0075	- mg/l		0.0075 mg/l	
Temperati	ire 28	°C		18 °C	
	oH 7	su		7 <u>su</u>	
	Hydrology at Dis	charge Lo	cation		
ainage Area	Drainage Area	9.63	sq mi	Method Used t	o Calculate
Qualifier	Stream 7Q10	0.23	cfs	Bingham E	quation

	2*	-		2		
	Annual Average	20.51	cfs	ADEM Estin	nate w/USGS Gag	ge Data
						un de la complete de
Comments A seasona	I wasteload allocation was	s complete	ed to detern	nine the necessar	y effluent limitatio	ns for
and/or Athens W\	VTP that would be protec	tive of the	upgraded \$	Swan Creek use o	lassification of Fis	sh and
Notations Wildlife (fir	nalized May 2016) and ma	aintain ins	tream disso	olved oxygen cond	entrations above	5 mg/l.

cfs cfs 75%of 7Q10

Bingham Equation

0.17

0.8

Stream 1Q10

Stream 7Q2

Exact

TOXICITY AND DISINFECTION RATIONALE

Facility Name:	Athens WWTP	
NPDES Permit Number:	AL0020206	
Receiving Stream:	Town Creek	
Facility Design Flow (Q _w):	9.000 MGD	
Receiving Stream 7Q ₁₀ :	0.230 cfs	
Receiving Stream 1Q ₁₀ :	0.170 cfs	
Winter Headwater Flow (WHF):	0.80 cfs	
Summer Temperature for CCC:	28 deg. Celsius	
Winter Temperature for CCC:	18 deg. Celsius	
Headwater Background NH ₃ -N Level:	0.01 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.	

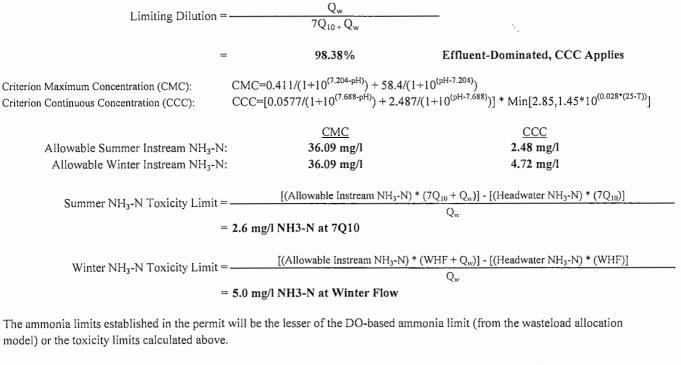
The Stream Dilution Ration (SDR) is calculated using the 7Q10 for all stream classifications.

Stream Dilution Ration (SDR) = $\frac{Qw}{7Q10 + Qw}$ = 98.38%

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.



	DO-based NH3-N limit	<u>Toxicity-based NH3-N limit</u>
Summer	1.00 mg/l NH3-N	2.60 mg/l NH3-N
Winter	3.90 mg/l NH3-N	5.00 mg/l NH3-N

Summer: The DO based limit of 1.00 mg/l NH3-N applies. Winter: The DO based limit of 3.90 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.

Chronic toxicity testing is required

Instance Wests Concentration (IWC) -	Qw	-	98.38%	Note: This number will be rounded
Instream Waste Concentration (IWC) =	7Q10 + Qw	-	= 98.38%	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	Effluent Limit
	(colonies/100ml)	(colonies/100ml)
E. Coli (applies to Non-coastal and Shellfish Harvesting Coastal)		
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
Enterococci (applies to Coastal)		
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 & 1 streams and chronically toxic concentrations in all other streams, but may not exceed 1.0 mg/l.

> 8/19/2022 Dustin Stokes Date:

> > **PAGE 2/2**

Prepared By:

Facility Name: Athens WWTP

NPDES No.: AL0020206

6/13/2017

-	$Q_d * C_d + Q_{d2} * I$	8.9		Background	Background	Background	Background	Dally Discharge as	Daily Discharge as reported by	Partition Coefficien
D	Pollutant	Carcinogen "yes"	Туре	from upstream source (Cd2)	from upstream source (Cd2)	Instream (C _s)	Instream (C ₅)	reported by Applicant	reported by Applicant	(Stream / Lake)
				Daily Max	Monthly Ave	Daily Max	Monthly Ave	(Cd) Max	(Ce) Ave	
1	Antimony Arsenic*,**	YES	Metals Metals	0	0	0		2.25 0	0.75	0.574
3	Berylium	,_	Metals	0	0	0	0 0 0 0	0	0	· ·
	Cadmium** Chromium / Chromium III**		Metals Metals	0	0		. 0	0	0	0.236 0.210
	Chromium / Chromium VI** Copper**		Metals Metals	0	0	-0 ×	0	0 20.4	0 3,4	0.386
8	Lead**		Metals	0	0	` 0 ´	°°.0, °	0	0	0.206
9 10	Mercury** Nickel**		Metals Metals	0	0	0	0	0.0106 3_32	0.00262 2.21	0.302
11	Selenium Silver		Metals Metals	0	0	0	0	0	0	:
13	Thallium		Metals	ō	0	0		0	0	
	Zinc** Cyanide		Metals Metals	0	0	0 * 0 *	0	52.7 0	33.7 0	0.330
16	Total Phenolic Compounds		Metals Metals	0 D	0	0	a 0 10 1	0	0	· ·
18	Hardness (As CaCO3) Acrolein		VOC	ō	0	93800 0	89833 0	160000 0	145000 0	:
	Acrylonitrile* Aldrin	YES	VOC VOC	0	0	0	0	0	0	1 :
21	Benzene* Bromoform*	YES	VOC VOC	0	0		0 [°] .	0	0	•
23	Carbon Tetrachloride*	YES	voc	0	ō	0	0	o	ő	:
	Chlordane Clorobenzene	YES	VOC VOC	0	0	0	0	0	0	1
26	Chlorodibromo-Methane* Chloroethane	YES	VOC VOC	0	0	, .	0 0	0	0	-
28	2-Chloro-Ethylvinyi Ether		VOC	0	0	« 0 00	0	0	0	:
	ChloraForm* 4,4'-DDD	YES	VOC	0	0	* .0 .*** 0	0 0	0	0	:
31	4,4'-DDE	YES	voc	0	0	- ⁰	* 0	0	0	-
33	4.4'-DDT Dichlorobromo-Methane*	YES YES	VOC VOC	0 0	0	0	0 - 0	0	0	:
	1, 1-Dichloroethane 1, 2-Dichloroethane*	YES	VOC VOC	0	0	0	* 0 0	0	0	1 :
36	Trans-1, 2-Dichloro-Ethylene 1, 1-Dichloroethylene*	YES	VOC VOC	0	0	0 0	0	0	0	
38	1, 2-Dichloropropane		VOC	0	0	0	0	C	0	· ·
39 40	1, 3-Dichloro-Propylene Dieldrin	YES	VOC VOC	0	0 C	0	0 	0	0 0	1
41 42	Ethylbenzene Methyl Bromide		VOC VOC	0	0 Q	0		0 0	o o	:
43	Methyl Chloride		VOC	0	0	°	· •0 · ·	0	0	:
45	Methylene Chloride* 1, 1, 2, 2-Tetrachloro-Ethane*	YES	VOC VOC	0 0	0	0 ~ 0	0	0	0	:
	Tetrachioro-Ethylene* Toluene	YES	VOC VOC	0	0	0	0	0 1.09	0	:
48	Toxaphene Tributyitine (TBT)	YES YES	VOC	0	0	0	0 -	0	0	
50	1, 1, 1-Trichloroethane		VOC	ō	0	`o`;	Ċ.	0 0	0 0	:
	1, 1, 2-Trichloroethane* Trichlorethylene*	YES YES	voc	0	0	0	°,	0 0	C O	:
53	Vinyl Chloride* P-Chloro-M-Cresol	YES	VOC Acids	0	0	பட்டி ஆட்டு வுடல்	0 0 0	0	0	- 1
55	2-Chlorophenol		Acids	0	0	``````````````````````````````````````	9	0	0	:
	2, 4-Dichlorophenol 2, 4-Dimethylphenol		Acids Acids	0	0	0 "		0	0 0	:
58	4, 5-Dinitro-O-Cresol		Acids	0	0	0	0	0	0	•
60	2, 4-Dinitrophenol 4,6-Dintro-2-methylophenol	YES	Acids Acids	0 0	o	0 0	0	0	0	:
61 62	Dioxin (2,3,7,8-TCDD) 2-Nitrophenol	YES	Acids Acids	0	0 0	0 0 ·	1 0	0	0	:
63	4-Nitrophenol		Acids	0	0	0`	a. 0	0	0	· ·
64 65	Pentachlorophenol* Phenol	YES	Acids Acids	0	0 C		0 0	0	0	:
66 67	2, 4, 6-Trichlorophenol* Acenaphthene	YES	Acids Bases	0	0 0		1	0	0	1
	Acenaphthylene Anthracene		Bases Bases	0	0	0	0	0	0	:
70	Benzldine		Bases	0	ō	ō	Ó,	0	0	
	Benzo(A)Anthracene* Benzo(A)Pyrene*	YES YES	Bases Bases	0	0	0	0	0	0	:
73	3, 4 Benzo-Fluoranthene Benzo(GHI)Perylene		Bases Bases	0	0	0	0 - 0	0	0	·
75	Benzo(K)Fluoranthene		Bases	0	0	· 0 · ″	and a dim of	0	o	:
76 77	Bis (2-Chloroethoxy) Methane Bis (2-Chloroethyl)-Ether*	YES	Bases Bases	0	0	0 ⁻³ - ⁶	0 0 0	0	0	1 :
78 79	Bis (2-Chloroiso-Propyl) Ether Bis (2-Ethylhexyl) Phthalate*	YES	Bases Bases	0	0	""" 0»"""""	0	. 0	0	
80	4-Bromophenyl Phenyl Ether	120	Bases	0	0	Î Î Î Î Î Î Î Î Î Î Î Î Î Î Î Î Î Î Î	0	ō	0	:
	Butyl Benzyl Phthalate 2-Chloronaphthalene		Bases Bases	0	0	0	0	0	0	:
83	4-Chlorophenyl Phenyl Ether Chrysene*	YES	Bases Bases	0	0	0	0	0	0	:
85	Di-N-Butyl Phthalate Di-N-Octyl Phthalate		8ases	ō	ů i	0	0	0	0	:
87	Dibenzo(A,H)Anthracone*	YES	Bases Bases	0	0	0 . 0	, 0 ¹	0	0	:
88	1, 2-Dichlorobenzene 1, 3-Dichlorobenzene		Bases Bases	0	0	0	0 (************************************	0	0	:
90	1, 4-Dichlorobenzene 3, 3-Dichlorobenzidine*	YES	Bases Bases	0	0		0	0	0	-
92	Diethyl Phthalate	163	Bases	0	0	0	0 *	0	0	:
94	Dimethyl Phthalate 2, 4-Dinitrotoluene*	YES	Bases Bases	0 0	0	0	0 ,	0	0	:
95	2, 6-Dinitrotoluene 1,2-Diphenylhydrazine		8ases Bases	0	0	* <u>0</u>	0 ***	0	0	:
97	Endosulfan (alpha)	YES	8ases	0	ō	0 0	0	0	0	•
99	Endosulfan (beta) Endosulfan sulfate	YES	Bases Bases	0	0	0 0,	0 0	0	0	:
100	Endrin Endrin Aldeyhide	YES	Bases Bases	0 0	0	0 °	0 	0 C	0	1
	Fluoranthene		Bases	0	0		5 C	0	0	
104	Fluorene Heptochlor	YÉS	Bases Bases	0	0	r 0 "	» на и разла с Аладери (С. С. С	0 C	0	
	Heptachlor Epoxide Hexachlorobenzene*	YES YES	Bases Bases	0	0	. 0 0-		0	0	· ·
107	Hexachlorobutadiene*	YES	Bases	0	0	° 0 '	0	o	0	1 .
109	Hexachlorocyclohexan (alpa) Hexachlorocyclohexan (beta)	YES YES	Bases Bases	0	0	0	0	0	0	:
110	Hexachlorocyclohexan (gamma) HexachlorocycloPentadiene	YES	Bases Bases	0 0	0	0	9	0	0	:
l12	Hexachloroethane		Bases	0	0	0	0,3	0	Ċ.	•
113 114	Indena(1, 2, 3-CK)Pyrene* Isophorone	YES	Bases Bases	0	с 0	0 6 ***	0.04	0	0	:
115	Naphthalene Nitrobenzene		Bases Bases	0	0	· · · · · · · · · · · · · · · · · · ·	, ** 0 · · · · ·	0	0	:
117	N-Nitrosodi-N-Propylamine*	YES	8ases	0	0	0,	0	Û	o	
18 19	N-Nitrosodi-N-Methylamine* N-Nitrosodi-N-Phenylamine*	YES	Bases Bases	0	0	. 0 0	0	0	0	1
120	PCB-1016 PCB-1221	YES YES	Bases Bases	0	0	0	. 0	0	0	:
122	PCB-1232	YES	Bases	0	0	.0	0	0	0	1 -
	PCB-1242 PCB-1248	YES	Bases Bases	0 0	0	0		0	0	:
25	PCB-1254 PCB-1260	YES YES	Bases Bases	0	0	° 0	C 0 0	0	0	-
	Phenanthrene	- 6 -1	Bases	e	° '		° 0	0	0 " "	:
	Pyrene		Bases	0	0		G •	0	0	

 9
 Enter Q_a = wastewater discharge flow (rom flacity (MQD)

 13.925061
 Q_a = wastewater discharge flow (rds) (this value is calucited from the MQD)

 0
 Enter Rife flow from upstream discharge Qd2 = background stream flow in MQD above paint of discharge

 0
 Qd2 = background stream flow incl discharge

 0
 Qd2 = background stream flow incl discharge

 0.23
 Enter 7010, Q_a = background stream flow in cfs above point of discharge

 0.77
 Enter 7010, Q_a = background stream flow in cfs above point of discharge (1010 estimated at 75% of 7010)

 20.51
 Enter 702, Q_a = background stream flow in cfs above point of discharge (1010 estimated at 75% of 7010)

 20.51
 Enter Q_a = background stream flow in cfs above point of discharge (1010 estimated at 75% of 7010)

 20.51
 Enter Q_a = background stream flow in cfs above point of discharge (1010 estimated at rest at point at estimated at 75% of 7010)

 20.8
 Enter Q_a = background stream flow in cfs above point of discharge (1010 estimated at estimated at rest at the stream (at each gene discharge (1010 estimated at estimated at a stream (at each gene discharge (1010 estimated at estimate (1010 estimated at estimated at estimated at estimated at estimated at estimated at estimate (1010 estimated at estimatestestimate (1010 estimated at esti

** Using Partition Coefficients

Augusi 19, 2022

	Facility Name: Athens WWTP NPDES No: AL0020206 Carcinogen Q, = Annual Average. Carcinogen Q, = Annual Average.																	
Free	hwater F&W classification.		an a	State State		Max Daily	in Fres	hwater Acute	(µg/l) Q, =1Q10		Avg Daily	Fresh	water Chronic (µg/I) C	a = 7010		ogen Q, = Ani -Carcinogen (
1	1997 - A.				Background from upstream	Discharge as	Water	Oraft Permit	20% of Draft	Background from upstream	Discharge as reported by Applicant	Water	Draft Permit 20%	of Draft	Water Quality	Draft Permit	20% of Draft	
١D	·····································		RP?	Carcinogen yes	source (Cd2) Daily Max	Applicant (C _{dmax})	Quality Criteria (C _r)	Limit (Canar)		source (Cd2) Monthly Ave	(C _{crup})	Quality Criteria (Cr)	Limit (C _{devg}) Perm	it Umit	Criteria (C _r)	Limit (C _{davg})	Permit Limit	RP?
-	1 Antimony	-6212933	1.36.20 Mg	2393 45 (9.	0	2.25	100000000	Eno see	119.913 No	0	0.75	261 324	265,640 53	128 No	3 73E+02 1 3.03E-01	3.79E+02 7.49E-01	7.59E+01 1.50E-01	No No
	2 Arsenic 3 Berylium 4 Cadmium	-	'	YES	0 20 0	· 0	7.619	599.566 7.712	119.913 No 1.542 No	0	0	0.961		195 No.	3.032-01		-	:
	5 Chromium/ Chromium II 6 Chromium/ Chromium VI				0	0	2468,185	2496.293 16.195	499.259 No 3.239 No	0	0	320.800	11.182 2	220 No 236 No	-	:	:	:
	7 Copper 8 Lead	••••	YES		0	20.4 0 0.0106	31.035 276.082 2.400	31.414 279.452 2.429	5.283 Yes 55.890 No 0.486 No	000	3.4 0 0.00262	20.894 10.759 0.012	10.936 2	248 No 187 No 002 Yes	4.24E-02	4.31E-02	8.62E-03	No
	9 Mercury 0 Nickel 1 Selenium		169		ů č	3.32	640.151 20,000	850,407 20,244	170.081 No 4.049 No	0	2.21	93.315 5.000	94,656 18	.971 No 017 No	9.93E+02 2.43E+03	1.01E+03 2.47E+03	2.02E+02 4.94E+02	No No
11	2 Silver 3 Thallium	• • •	: :		0 0 0	0	2.633	2.665 325.634	0.533 No	0	0 0 33.7	324 338 *		.939 No	2.74E-01	2.78E-01 1.51E+04	5.56E-02 3.03E+03	No No
11	4 Zinc 5 Cyanide 6 Total Phenolic Compounds				0	52.7 0 0	22,000	22,269	4.454 No	0	0	5.200		057 No	9.33E+03		1.90E+03	No
	7 Hardness (As CaCO3) 8 Acrolein		· · · · · · · ·	 	0	160000 0				0	145000				5.43E+00	5.52E+00	1.10E+00	No
1 :	9 Acrylanitrile 10 Aldrin 11 Benzene	-		YES YES YES	0	0 .0	3.000	3.037	0.607 No		0				1:44E-01 2:94E-05 1:55E+01	3.56E-01 7.27E-05 3.83E+01	7.12E-02 1.45E-05 7.65E+00	No No No
	2 Bromoform 2 Carbon Tetrachloride	·····		YES	C O	0				0	0			1-1-1	7.88E+01 9,57E-01	1.95E+02 2,37E+00	3.90E+01 4.73E-01	No No
	4 Chlordane 5 Clorobenzene			YES	0	0	2 400	2.429	0.486 No	0	0	0.0043	0.004 0	001 <u>No</u>	4.73E-04 9.06E+02 7.41E+00	1.17E-03 9.21E+02 1.83E+01	2.34E-04 1.84E+02 3.66E+00	No No
1 3	6 Chlorodibromo-Methane 7 Chloroethane 8 2-Chloro-Ethylvinyl Ether		· -	ŸES_	0	0				0	0 0 0				-	1,632701	3,002+00	-
	9 ChloroForm 0 4,4' - DDD			YES YES	0	0				ů o j	0				1 02E+02 1 81E-04	4.49E-04	5.04E+01 8.97E-05	No No
2	1 4,4' - ODE 2 4,4' - DDT		л - та ж	YES YES YES	0	0	1.100	1.113	0.223 No	0	0	0.001	0.001 0.	000 No	1,28E-04 1,28E-04 1,00E+01	3.17E-04 3.17E-04 2.48E+01	6.33E-05 6.33E-05 4.96E+00	Na Na Na
			r .	YES	0	0				0	0			: :	2.142+01	5.28E+01	1.06E+01	No
	6 Trans-1, 2-Dichloro-Ethylen 7 1, 1-Dichloroethylene	10		' YES	0	0				0	0			. :·	5.91E+03 4.17E+03 8.49E+00	6.00E+03 1.03E+04 8.63E+00	1.20E+03 2.06E+03 1.73E+00	Na Na Na
	8 1, 2-Dichloropropane 9 1, 3-Dichloro-Propylene 0 Dieldrin			YES	0	0 0 0	0.240	0.243	0.049 No		0	0.056	0.057 0	011 No	1.23E+01 3.12E-05	1.25E+01 7,72E-05	2.50E+00 1,54E-05	No No
	1 Ethylbenzene 2 Methyl Bromide				0	0				0	0	-			1 24E+03 8.71E+02	1.26E+03 8.85E+02	2.53E+02 1.77E+02	No No
14	3 Methyl Chloride 4 Methylene Chloride 5 1, 1, 2, 2-Tetrachloro-Ethan		4	YES	0,	0				0					3.46E+02 2.33E+00	5,77E+00	1.71E+02 1.15E+00	No No
	6 Tetrachloro-Ethylens 7 Toluane	·····		YES	.0,	0		ington on al other offer one		0) 0.36				1.92E+00 8.72E+03	4.74E+00 8.87E+03	9.48E-01 1.77E+03	No No
	8 Toxaphene 9 Tributyltin (TBT) 1, 1, 1-Trichloroethane		 	YES YES		0 0	0.730 0.460		0.148 No 0.093 No	0 0	0	0.0002		000 No 015 No	1.62E-04	4.00E-04	8.01E-05	No - -
. ()	1 1, 1, 2-Trichloroethane			YES.	0	0				0	o c				9,10E+00 1,75E+01	4.32E+01	4.50E+00 8.64E+00	No No
	3 Vinyl Chloride 4 P-Chloro-M-Cresol			YES	0	0				,0 ,0,,0	, 0 , 0	·: _		::;	1.42E+00'	-	7.05E-01	Na - Na
	5 2-Chlorophenol 6 2, 4-Dichlorophenol 7 2, 4-Dimethylphenol	· · · · · ·			0	0		la atau a lata tari		0	0	· : ·			1.72E+02 4.98E+02	1.75E+02	3.50E+01 1.01E+02	Ne No
	8 4, 6-Dinitro-O-Cresci 9 2, 4-Dinitrophenol		 		0	0	:			0	0			: ;	3.11E+03	- 3.16E+03	6.32E+02	No
14	0 4,6-Dinitro-2-methylphenol 1 Diaxin (2,3,7,8-TCDD) 2 2-Nitrophenol			YES	0 0 -0	0	· · -	,			0				2.67E-08		8.18E+D1 1.32E-08	No No
	3 4-Nitrophenol 4 Pentachlorophenol		41.000 mm4	YES	0	0	8,723	8,830	1.766 No	0	0	6.693	6.803 1	361 No	1.77E+00		6.74E-01	- No No
1.	5 Phenol 6 2, 4, 6-Trichlorophenol 7 Acenaphthene			YES	0	0. 0	etange - 1		· · · · · · · · · · · · · · · · · · ·	0				ł; †.	5.00E+05 1.41E+00 5.79E+02	5,08E+05 3,50E+00 5.88E+02	6.99E-01 1.18E+02	No No No
- 1 -	B Acenaphthylens		an ang a tao ang a ana tao ang ang a		0	0				0	0				2.33E+04	2,37E+04	4.74E+03	No
_ I '	0 Benzidine 1 Benzo(A)Anthracena		an an ann a' c	YES	0	0	1.21			0	0		······································		1,16E-04 1.07E-02 1.07E-02	1.18E-04 2.63E-02 2.63E-02	2.36E-05 5.27E-03 5.27E-03	No No No
`	12 Benzo(A)Pyrene 13 Benzo(b)fluoranthene 14 Benzo(GHI)Perylene			YES	0	0			<u> </u>	0	0				1.07E-02	1.08E-02	2.17E-03	No
	75 Benzo(K)Fluoranthane 76 Bis (2-Chloroethoxy) Metha	IDe			- 0 - 0	0				0	, 0 , _ 0 ,				3.07E-02	-	2.17E-03	No - No
- 1-2	77 Bis (2-Chloroethyl)-Ether 78 Bis (2-Chloroiso-Propyl) Eth 79 Bis (2-Ethylhoxyl) Phthalate		n 10-17	YES	0	, 0 , 0				0	0				3,78E+04 1.28E+00	3.84E+04	7.68E+03 6.34E-01	No No
	0 4-Bromophenyl Phenyl Eth 1 Butyl Benzyl Phthalate	er			0	0				0 0	0			e Tji	3.13E+03	1.15E+03	2.295+02	No
1	2 2-Chloronaphthalene 3 4-Chlorophenyl Phenyl Ethe 4 Chrysene	97 .		YES	0			, :		0				: :	9.24E+02	- 2.63E-02	1.88E+02 5.27E-03	No No
	5 Di-N-Butyl Phthalate 6 Di-N-Octyl Phthalate	· · · ·	 	·	0	0	-			0	0	:			2 62E+03	2.67E+03	5_33E+02	No -
	7 Dibenzo(A,H)Anthracene 8 1, 2-Dichlorobenzene 9 1, 3-Dichlorobenzene			YES	0	0				0	0				1.07E-02 7.55E+02 5.62E+02	2.63E-02 7.68E+02 5.72E+02	5.27E-03 1.54E+02 1.14E+02	Na No No
	0 1, 4-Dichlorobenzene 1 3, 3-Dichlorobenzidine			YES	0	0		· · · · ·		0 «	·				1.12E+02	1.14E+02 4.11E-02	2.29E+01 8.22E-03	No No
	2 Diethyl Phthalate 3 Dimethyl Phthalate 34 2, 4-Dinitrotoluene			YES	0		÷.				0				2,56E+04 6.48E+05 1.98E+00	6.59E+05	5_20E+03 1_32E+05 9.80E-01	Na No No
	5 2, 6-Dinitrotoluene 6 1,2-Diphenylhydrazine				0	0				0	0				1.17E-01	1.19E-01	2.38E-02	No.
	97 Endosulfan (alpha) 98 Endosulfan (beta) 99 Endosulfan sulfate			YES YES YES	0. 0. 0.	0 5.e. 0 0	0.22	0.223	0,045 No 0,045 No	000	0000	0,056		011 No 011 No	5 19E+01 5 19E+01 5 19E+01	1.28E+02 1.28E+02 1.28E+02	2.56E+01 2.56E+01 2.56E+01	No No No
1	39 Endosulfan sulfate X0 Endrin X1 Endrin Aldeyhde			YES YES YES	0,	0	0 086	0.087	0.017 No	0	0 0	0.036	0,037 0	.007 No	3.53E-02 . 1.76E-01	8.72E-02 4.36E-01	1.74E-02 8.72E-02	No No
1	02 Fluoranthene 03 Fluorene		- 2 10 10 10 10 10 10 10 10 10 10 10 10 10	10 a + 10	0	0	- L However, and and the first			0	0.	· · · Ē ·		1	8.12E+01 3.11E+03		1.65E+01 6.32E+02	No No
1	04 Heptochlor 05 Heptachlor Epoxice 06 Hexachlorobenzene			YES YES YES	0	0 0 0	0.52	0.526	0.105 No 0.105 No	0	0 0 0	0.0038		.001 No .001 No	4.63E-05 2.29E-05 1.68E-04	1.14E-04 5.66E-05 4.15E-04	2.29E-05 1.13E-05 8.30E-05	No No No
1	37 Hexachlorobutadiene 38 Hexachlorocyclohexan (alpl	ha)		YES	0	. 0	:	:		0	0				1.08E+01 2.85E-03	2.66E+01 7.05E-03	5.32E+00 1.41E-03	No No
1	09 Hexachlorocyclohexan (bet 10 Hexachlorocyclohexan (gar	a) mma)		YES	0	. 0	0,95	0.962	0.192 No	0	0	· · ·			9.97E-03 1.08E+00		4.93E-03 5.33E-01	No No
1.1	11 HexachlorocycloPentadiene 2 Hexachloroethane 13 Indeno(1, 2, 3-CK)Pyrene	• • • • • •		YES	0	0 0				0	- 0, 0,			- C. 1	6 45E+02 1.92E+00 1.07E-02	6.56E+02 1.95E+00 2.63E-02	1.31E+02 3.90E-01 5.27E-03	No No No
	14 Isophorone 15 Naphthalene	·			0	0				0	0				5.81E+02	5.70E+02	1.14E+02	No -
1	16 Nitrobenzene 17 N-Nitrosodi-N-Propylamine	 	5	YES	0	0					0				4.04E+02 2.95E-01	4.10E+02 7.29E-01 4.35E+00	8.21E+01 1.46E-01 8.70E-01	No No No
1	18 N-Nitrosodimethylamine 19 N-Nitrosodiphenylamine 20 PCB-1016			YES YES YES	. 0 0	0 0 0	-			0	- 0 0	0.014		.003 No	1.76E+00 3 50E+00 3.74E-05	8.66E+00 9.25E-05	1.73E+00 1.85E-05	No No
	21 PCB-1221 22 PCB-1232	· · · · · · · · · · · · · · · · · · ·		YES	0	0	- 447			0	0	0.014	0.014 0	003 No	3.74E-05 3.74E-05	9,25E-05 9,25E-05	1.85E-05 1.85E-05	Na No
- D	23 PC8-1242 24 PC8-1248 25 PC8-1254	• • • •		YES YES YES	0	0					0 	0.014 0.014 0.014	0.014 . 0	003 No 003 No	3,74E-05) 3,74E-05 3,74E-05	9.25E-05 9.25E-05 9.25E-05	1.85E-05 1.85E-05 1.85E-05	No No No
1	26 PC8-1254 26 PC8-1260 27 Phenanthrene		in paters og n no	YES	°, 0 ∧	0				0	0	0.014		003 No	3.74E-05	9.25E-05	1.85E-05	No -
1	28 Pyrene 29 1, 2, 4-Trichlorobenzene				0	0		1 .		0	0	:	····	· · · · :	2.33E+03 4.09E+01		4.74E+02 8.32E+00	Na No

Athens WWTP AL0020206

Report End Date	Copper (ug/L)
9/30/2016	2.4
10/31/2016	2.6
11/30/2016	2.4
12/31/2016	5.3
1/31/2017	5.61
2/28/2017	4.06
3/31/2017	3.7
4/30/2017 5/31/2017	2.61
6/30/2017	2.18
7/31/2017	2.6
8/31/2017	2
9/30/2017	2.39
10/31/2017	2.5
11/30/2017	2
12/31/2017	2.6
1/31/2018	3.84
2/28/2018	5.75
3/31/2018	1.5
4/30/2018 5/31/2018	1.78
6/30/2018	3.1
7/31/2018	4.2
8/31/2018	2
9/30/2018	2.9
10/31/2018	2.4
11/30/2018	2
12/31/2018	2
1/31/2019	1.3
2/28/2019	2.56
3/31/2019	1.96
4/30/2019	4.79
5/31/2019	1.06
6/30/2019 7/31/2019	2.43
8/31/2019	5.5
9/30/2019	10
10/31/2019	3
11/30/2019	5.5
12/31/2019	3.5
1/31/2020	1
2/29/2020	20.4
3/31/2020	10.6
4/30/2020	0.9
5/31/2020	2.52
6/30/2020 7/31/2020	2.43
8/31/2020	3
9/30/2020	2.7
10/31/2020	1.5
11/30/2020	2.4
12/31/2020	3.9
1/31/2021	4.7
2/28/2021	2.67
3/31/2021	1.8
4/30/2021	1.77
5/31/2021	1.56
6/30/2021	2.07
7/31/2021 8/31/2021	2.2
9/30/2021	1.5
10/31/2021	2.4
11/30/2021	4.2
12/31/2021	4.1
1/31/2022	2.12
2/28/2022	2.71
3/31/2022	2.16
4/30/2022	2.3
5/31/2022	1.89
6/30/2022	2.59
3/8/2018 app	3.32
12/5/2019 app	3.76
7/20/2020 app	4.72
	20.4
Max	20.4
Avg	3.40

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Athens WWTP AL0020206

Report End Date	Mercury (ug/L)
12/31/2016	0.001
3/31/2017	0.0041
6/30/2017	0.00335
9/30/2017	0.0106
12/31/2017	0.0014
3/31/2018	0.00366
6/30/2018	0.0014
9/30/2018	0.00194
12/31/2018	0.00172
3/31/2019	0.00089
6/30/2019	0.00163
9/30/2019	0.00185
12/31/2019	0.00495
3/31/2020	0.0031
6/30/2020	0.0021
9/30/2020	0.00173
12/31/2020	0.00164
3/31/2021	0.00215
6/30/2021	0.00135
9/30/2021	0.00357
12/31/2021	0.00324
3/31/2022	0.00111
6/30/2022	0.00175

Max	;	0.0106
Avg	2.	0.00262

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Athens WWTP AL0020206 Expanded Effluent Data Summary

Parameter	3/8/2018	12/5/2019	7/20/2020	Maximum	Average
Hardness as CaCO3	127	147	160	160	145
Antimony	0.00225	0.00000	0.00000	0.00225	0.00075
Copper	0.00332	0.00376	0.00472	0.00472	0.00393
Nickel	0.00190	0.00141	0.00332	0.00332	0.00221
Zinc	0.02700	0.02140	0.05270	0.05270	0.03370
Toulene	0.00109	0.00000	0.00000	0.00109	0.00036

*All values entered in mg/L

Athens WWTP AL0020206

Sample Date	Available Cyanide				
5/25/2022 App data	0				
6/8/2022 App data	0				
6/22/2022 App data	0				

United States Environmental Protection Agency Office of Water Washington, D.C. EPA Form 3510-2A Revised March 2019

Water Permits Division

€PA

Application Form 2A New and Existing Publicly Owned Treatment Works

NPDES Permitting Program

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

4 كي

		ES Permit Number AL 0020206		Facility Name thens WWTP		Form Approved 03/05/19 OMB No. 2040-0004					
n	EPA			ental Protection A Permit to Dischar		tewater					
s 🎽		NEW AND B	EXISTING PUBL	ICLY OWNED TRE		NT WORKS					
ION 1. BAS	SIC APPLICATION INFORM	ATION FOR ALL A	PPLICANTS (40	CFR 122.21(j)(1)	and (9)						
1.1	Facility name					RECEIV					
	Athens Wastewater Treat	ment Plant (WWTP)		*,							
	Mailing address (street or		MAR 01 21								
-0	PO Box 1089					MAR OI 21 MUNICIPAL					
	City or town			State		ZIP code					
ية م	Athens	•		AL		35612					
	Contact name (first and la	ist) Title	· · ·	Phone number		Email address					
	Virgil White	Superintende	nt 👘	(256) 497-7451		vwhite@athens-utilities.com					
248] 248]	Location address (street, route number, or other specific identifier) Same as mailing address 942 East Sanderfer Road										
3 27 A	City or town			State	·	ZIP code					
1	Athens	· · · . ·	Ъ. ² .	AL .	· · ·	35611					
1.2	Is this application for a fac	cility that has yet to o	commence disch	arge?							
	\square Yes \rightarrow See instructions on data submission \square No										
	requirem	ents for new dischar	gers.			· · · ·					
1.3	Is applicant different from	entity listed under It	em 1.1 above?								
✓ Yes ✓ No → SKIP to Item 1.4.											
	Applicant name	Applicant name									
				· ·							
्र 	Applicant address (street	or P.O. box)	· · · · · · · · · · · · · · · · · · ·		-						
_0 547	City or town			State	. •	ZIP code					
2	· · · ·		•••								
	Contact name (first and la	st) Title		Phone number		Email address					
						·					
1.4	Is the applicant the facility	's owner, operator, o	or both? (Check	only one response.)						
	□ Owner □ Operator ☑ Both										
1.5	To which entity should the	NPDES permitting	authority send co	orrespondence? (C	heck on	ly one response.)					
1 .	Facility		Applicant			Facility and applicant					
			Applicant			(they are one and the same)					
1.6	Indicate below any existin	g environmental per		hat apply and print							
			mits. (Check all t								
	Indicate below any existin number for each.)		mits. (Check all t xisting Environm	ental Permits		the corresponding permit					
	Indicate below any existin		mits. (Check all t	ental Permits							
	Indicate below any existin number for each.)		mits. (Check all t xisting Environm	ental Permits		the corresponding permit UIC (underground injection					
	Indicate below any existin number for each.)	s to surface	mits. (Check all t xisting Environm RCRA (hazar	ental Permits		the corresponding permit UIC (underground injection					
	Indicate below any existin number for each.) NPDES (discharges water) <u>AL 0020206</u>	s to surface	mits. (Check all t xisting Environm RCRA (hazar	ental Permits dous waste)		the corresponding permit UIC (underground injection control)					
	Indicate below any existin number for each.) NPDES (discharges water) <u>AL 0020206</u>	s to surface	mits. (Check all t xisting Environm RCRA (hazar Nonattainmer	ental Permits dous waste)		the corresponding permit UIC (underground injection control)					

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EPA	Identificati AL 0020	on Number 0206	NPDES Permit N AL 002020		Facility Nar Athens WV				oved 03/05/19 No. 2040-0004	
	1.7	Provide the colle Municipality Served	ection system inform Population Served	ation requi	ested below for the treatr Collection System Ty (indicate percentage)	pe	0	wnership St	atus	
on Served		Athens, AL	25000 to 30000		% separate sanitary sewe % combined storm and sa <u>Unknown</u> % separate sanitary sewe	r Initary sewer r	Own Own Own Own Own Own Own		Maintain Maintain Maintain Maintain	
d Populatic					% combined storm and sa Unknown % separate sanitary sewe % combined storm and sa	r			Maintain Maintain Maintain Maintain	
Collection System and Population Served					Unknown % separate sanitary sewe % combined storm and sa Unknown	r			Maintain Maintain Maintain Maintain	
Collection		Total Population Served			UNNOWN					
		Total percentage sewer line (in m	e of each type of	Sep	arate Sanitary Sewer S	ystem	Combined Storm and Sanitary Sewer			
Indian Country	1.8	Is the treatment works located in Indian Country?								
Indian (1.9	Does the facility								
	1.10	Provide design a	and actual flow rates	in the des	ignated spaces.	-	De	sign Flow R	9.0 mgd	
ctua		Annual Average Flow Rates (Actual)								
Id A		Two Y	ears Ago		Last Year	-		This Year		
Design and Actual Flow Rates			6.3 mgd	Maxim	num Daily Flow Rates (6.6 mgd			7.3 mgd	
Dei		Two Y	ears Ago	Maxii	Last Year	Actual)	This Year			
			19.7 mgd			21.1 mgd	22.9 mg			
2	1.11	Provide the total	number of effluent of	discharge p	points to waters of the Un		y type.		and and	
oint			Tot	al Number	of Effluent Discharge	Points by Ty	ре			
Discharge Points by Type		Treated Efflu	ent Untreated	Effluent	Combined Sewer Overflows	Вура	\$\$65	Eme	tructed rgency rflows	
Dis		1								

EPA	PA Identification Number		NPDES Permit Number		Facility Name		Form Approved 03/05/19 OMB No. 2040-0004				
	AL 0020	206	AL 0020206	۵	thens WWTP						
	Outfall		o Waters of the United State		n Ken						
	1.12		W discharge wastewater to ba vaters of the United States?		er surface impo		t do not have outlets for				
e alignet.	1.13		cation of each surface impour				ne table below.				
يە بەر بە		Surface Impoundment Location and Discharge Data									
			Location	Average Dail Discharged t Impound	o Surface	Contli	nuous or Intermittent (check one)				
					gpd	Contir Contir					
in Auger Gradini Sharata Riga a Riga a					gpd	Contin					
		1			gpd	🗆 Conti	nuous				
Outfalls and Other Discharge or Disposal Methods	1.14	le wastowator	applied to land?	Intermittent							
		Is wastewater applied to land? □ Yes □ Yes □ No → SKIP to Item 1.16.									
SOC	1.15	Provide the la	nd application site and discha			Data					
Sic			Lano	Application Site	ind Discharge		Continuous or				
rge or		Location Size Average Daily volume Intermitter Applied (check one									
Discha				acres		gpd					
Other				acres		gpd	Continuous Intermittent Continuous				
and	,			acres		gpd					
tfalls	1.16	Is effluent tra	nsported to another facility for	'	lischarge? → SKIP to Ite	m 1 21					
್	1.17		means by which the effluent is								
		Describe ine	means by when the enderth		tank indek, pipe,						
	1.18	Is the effluen	t transported by a party other	• •	SKIP to Item	1.20.					
No X	1.19	Provide inform	mation on the transporter belo								
بنين د ي =				Transport							
		Entity name			Mailing addres	ss (street or P.	O. box)				
	4 Miras	City or town			State		ZIP code				
	5 9 9	Contact nam	e (first and last)		Title	м (₁₉ , т. <u>19</u> , <u>1</u>					
	190	Phone numb	er		Email address						
	·····			DEOG			and a second				

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MUNICIPAL SECTION

EPA		ion Number	NPDES Per			acility Name	7	Form Approved 03/05/19 OMB No. 2040-0004						
	AL 002		AL 002			hens WWTP								
	1.20	In the table be receiving facili			ict informati eiving Faci		and ave	erage daily flow rate of the						
6		Facility name	······································	Neu		Mailing address (stree	t or P.(D. box)						
inue		City or town				State		ZIP code						
Cont		_												
ods (Contact name	(first and last)		-	l'itle								
l Meth		Phone number	r		E	Email address								
sposa			er of receiving facil		/	Average daily flow rate		mgd						
Outfalls and Other Discharge or Disposal Methods Continued	1.21	Is the wastewa have outlets to	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)?											
charg		🔲 Yes		V] No	➔ SKIP to Item 1.23.								
Disc	1.22	Provide information in the table below on these other disposal methods. Information on Other Disposal Methods												
ther		Disposal			2 A	Annual Average								
and O	1	Method Description	Location Disposal S	· · · · · · · · · · · · · · · · · · ·		Daily Discharge Volume	Co	ontinuous or Intermittent (check one)						
utfalls	1.23				acres	gpd		Continuous Intermittent						
O					acres	gpd		Continuous Intermittent						
и († 24 в. 1930 — 1935) 29 в. – 24						and		Continuous						
		Do you intend		wone or more of the	acres	gpd		Intermittent						
9 8	1.23		Do you intend to request or renew one or more of the variances authorized at 40 CFR 122.21(n)? (Check all that apply. Consult with your NPDES permitting authority to determine what information needs to be submitted and when.)											
Variance Requests			Discharges into marine waters (CWA Water quality related effluent limitation (CWA Section											
Var Req														
	1.24		tional or maintenar lity of a contractor?		to wastewa	ater treatment and eff	luent qi	uality) of the treatment works						
		Yes	ity of a contractor.	5	🛛 No 🚽	\rightarrow SKIP to Section 2.								
	1.25				ntractor in a	ddition to a descriptio	n of the	e contractor's operational						
a shiri Shiri		and maintenar	nce responsibilities		tractor Info	ormation								
्राम् स्टब्स् जन्म द्वार जन्म स्टब्स्			and the second s	Contractor 1		Contractor 2	н т	Contractor 3						
tion		Contractor nar												
Ima		(company nam Mailing addres		·····										
linfo		(street or P.O.	box)											
ctor		City, state, and code												
Contractor Information		Contact name	(first and											
Ŭ		last)												
а <mark>3</mark> ж.Ч 1 1 1 1 1 1 1 1 1 1 1 1		Phone number												
		Email address				·								
		Operational ar maintenance	nd ·											
a a construction of the second		responsibilities	s of											
e in finis		contractor												

EPA	Identificat AL 0020	ion Number D206	,	S Permit Number		Facility Name Athens WWTP	· · ·	For	m Approved 03/05/ OMB No. 2040-00				
CTIO	N 2. AD	DITIONAL INFC	RMATION (40) CFR 122.21(j)(1) and (2))								
-		s to Waters of			and the second second			1.10. 1.10. 1.10.					
Ĕ	2.1	Does the treat	ment works ha	ve a design flow	greater than or	equal to 0.1 mgd?	• • • • • • • • • • • • • • • • • • •	<u> </u>					
Design Flow		✓ Yes			No →	SKIP to Section 3.							
1.1	2.2		atmont works'	current average			gé Daily Volume	of Inflow	and Infiltration				
Map	2.2	and infiltration.		current average			ge Daily Volume						
lit:		• ,		1	· · · ·				4,760,000 gj				
<u>ם</u>			•	is taking to minin	· ·		· ·	`: ,					
van		Our staff performs routine line inspections, and we are developing a master plan to address having a 3rd party firm measure flows, do smoke testing, and analyze priority sub-basins where I&I is of greatest issue.											
ef	· ·	measure flows,	, do smoke tes	ting, and analyze	e priority sub-ba	sins where lot is c	or greatest issue.						
					analisation that		aution of the for one office		in staustiens fo				
	2.3	specific require		ipnic map to this	application that	contains all the re	quirea informatio	onr (See	e instructions to				
Mar			, ·				· · ·	• • .					
		Yes	· ·		No No			• •					
	2.4	Have you attac	ched a process	flow diagram or	schematic to th	is application that	contains all the	required	information?				
lagran		(See instruction	ns for specific	requirements.)	and a final second s	· · · · · · · · · · · · · · · · · · ·	· · · · ·						
Diagram		✓ Yes			No No	•			· ,				
	2.5	Are improveme	ents to the faci	litv scheduled?		· · · · · · · · · · · · · · · · · · ·		· · · · · ·					
	· · · ·	☐ Yes	,		🔽 No →	SKIP to Section	3						
ر هم مرجع المرجع المرجع المرجع المرجع المحصور المرجع الم			<u>, , ,</u>										
<u>n</u>		Briefly list and describe the scheduled improvements.											
tati		1 . The second s											
d Schedules of Implementation													
nple		2.											
e													
les		3.											
ledu													
Sch		4.											
ahd	2.6	Provide scheduled or actual dates of completion for improvements.											
nts				Scheduled or A		Completion for Im	provements						
Scheduled Improvements an		Scheduled	1 1 1 1 A 1	cted falls	Begin	End	Begii	n	Attainment				
ğ		Improvemen		uffell 👘 🖓	onstruction	Construction			Operationa Level				
E		(from above)	núm		M/DD/YYYY)	(MM/DD/YYYY) (MM/DD/Y	YYY)	(MM/DD/YYY				
Ē		1.			· · ·		e						
ihed		2.											
ŏ	,	Ζ.	· · ·	· · ·	·		· · · · · · · · · · · · · · · · · · ·	·,	÷				
4 39 31 31 31 31 31 31 31 31 31 31 31 31 31		3.			,	· · · ·		Ì					
		Λ	· ·			· · ·	· .	. ·					
	07					11-1-1-			· · · · · · · · · · · · · · · · · · ·				
n in	2.7	Have appropria response	ate permits/cle	arances concern	ing other tedera	l/state requirement	its been obtaine	3? Briefly	y explain your				
				🔲 No	• • •			autrod -	onnlinatio				
			· . · ·			· · · ·	None re	quirea oi	applicable				
	· • •	Explanation:											

* * *

 $(\frac{1}{2})^{*}$

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EPA			DES Permit Number		Facility Name			roved 03/05/1 No. 2040-000			
	AL 002		AL 0020206		thens WWTP	-	Child				
ECTIO		ORMATION ON EFFLUEN									
	3.1	Provide the following infor									
-			Outfall Numbe	er_0011	Outfall Num	iber 0010	Outfall Num	ber_0011			
		State	Alabam	na	Alaba	ama	Alaba	ama			
falls		County	Limesto	ne	Limes	tone	Limes	tone			
of Ou		City or town	Athen	5	Athe	ens	Athe	ens			
ption		Distance from shore		0 ft.		0 ft.		0			
Description of Outfalls		Depth below surface		o ft.		0 ft.		0			
-		Average daily flow rate		6.7 mgd		6.7 mgd		6.7 mg			
		Latitude	34° 46'	12" N	34° 46'	12" N	34° 46′	12″ N			
		Longitude	86° 56'	54" W	86° 56'	54" W	86° 56'	54″ W			
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.									
charg	3.3	If so, provide the following				- here	0.46.8.1	mber			
c Dis		Number of lines a second	Outfall Num	ber	Outfall Nu	imper	Outfail Nu	mper			
iodi		Number of times per year discharge occurs									
or Pei		Average duration of each discharge (specify units)									
sonal		Average flow of each discharge		mgd		mga	1	mç			
Sei		Months in which discharg occurs	e								
	3.4	Are any of the outfalls list	ed under Item 3.1 equi	ipped with a di							
	3.5	Yes	and some of some some from	his suffall	✓ No →	SKIP to Item 3.	.0.				
ype	3.5	Briefly describe the diffus	Outfall Numi		Outfall Ma		Outfall No	mhan			
Diffuser Type			Outrail Humi	DCT	Outfall Nu	mper	Outfall Nu	mber			
iffus											
0											
		Sector Sector									
-	3.6	Does the treatment works	s discharge or plan to c	discharge wast	ewater to water	s of the United	States from one	e or more			
0	0.6										
Waters of the U.S.		discharge points?									

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EPA Identifica AL 002		ES Permit Number AL 0020206	Facility Name Athens WWTP	Form Approved 03/05/19 OMB No. 2040-0004		
3.7	Provide the receiving water	and related information (if know	n) for each outfall.			
		Outfall Number 0011	Outfall Number <u>001Q</u>	Outfall Number 001T		
- ته جه گری بر این بر این بر این	Receiving water name	Town Creek	Town Creek	Town Creek		
	Name of watershed, river, or stream system	Tennessee River	Tennessee River	Tennessee River		
Kecewing water Description	U.S. Soil Conservation Service 14-digit watershed code					
) water	Name of state management/river basin					
	U.S. Geological Survey 8-digit hydrologic cataloging unit code	06030002				
istika Bilonia Norma Santa Sa	Critical low flow (acute)	cfs	cfs	. cf		
	Critical low flow (chronic)	cfs	cfs	Cfs		
	Total hardness at critical low flow	mg/L of CaCO ₃		mg/L o CaCO		
3.8	Provide the following inform	nation describing the treatment p	provided for discharges from each	outfall.		
		Outfall Number 0011		Outfall Number _001T		
	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) 		
criptio	Design Removal Rates by Outfall	1				
	BOD ₅ or CBOD ₅	85 %	%	9		
Ireatment Description	TSS	85 %	%	9		
	Phosphorus	IZ Not applicable %	IZI Not applicable %	IZI Not applicable %		
	Nitrogen	V Not applicable %	IZI Not applicable %	IZI Not applicable %		
	Other (specify)	☑ Not applicable %	Not applicable %	IZI Not applicable %		

EPA	Identifica	tion Number NPI	DES Permit Number			Name			proved 03/05/ B No. 2040-000				
	AL 002		AL 0020206			WWTP							
tinued	3.9	Describe the type of disinf season, describe below.	ection used for the e	ffluent from eac	h outfa	II in the tab	ble below. If di	sinfection vari	es by				
on Con			Outfall Nur	mber _0011	0	utfall Nun	nber 001Q	Outfall Number 001					
Treatment Description Continued		Disinfection type	Ultravio	Ultraviolet Light		Ultraviol	et Light	Ultravi	olet Light				
tmentD		Seasons used	A	.11		A	1		All				
Trea		Dechlorination used?	Not appli Ves No	Yes		Not app Yes No	licable	✓ Not □ Yes □ No	applicable				
	3.10	Have you completed moni	oring for all Table A	parameters and	d attach	ned the res No	sults to the app	blication packa	ige?				
	3.11	Have you conducted any WET tests during the 4.5 years prior to the date of the application on any of the facility's discharges or on any receiving water near the discharge points? ✓ Yes ✓ No → SKIP to Item 3.13.											
	3.12	Indicate the number of acu discharges by outfall numb	er or of the receiving	g water near the	discha	arge points	l.						
				Chronic		utfall Num	ber <u>001</u> Chronic	Outfall Nu Acute	Chroni				
		Number of tests of dischar water	ge	4		icute	4	Acute	4				
		Number of tests of receivir water		0			0		0				
ta	3.13	Does the treatment works have a design flow greater than or equal to 0.1 mgd? ✓ Yes ✓ No → SKIP to Item 3.16.											
Effluent Testing Data	3.14	Does the POTW use chlorine for disinfection, use chlorine elsewhere in the treatment process, or otherwise have reasonable potential to discharge chlorine in its effluent? □ Yes → Complete Table B, including chlorine. ✓ No → Complete Table B, omitting chlorine.											
Effluent T	3.15	Have you completed monit package?	oring for all applicat	ole Table B pollu	itants a	nd attache No	ed the results t	o this applicat	ion				
	3.16	 Does one or more of the following conditions apply? The facility has a design flow greater than or equal to 1 mgd. The POTW has an approved pretreatment program or is required to develop such a program. The NPDES permitting authority has informed the POTW that it must sample for the parameters in Table C, must sample other additional parameters (Table D), or submit the results of WET tests for acute or chronic toxicity for each of its discharge outfalls (Table E). 											
		✓ Yes → Complete applicable	Tables C, D, and E e.	as			KIP to Section	n 4.					
	3.17	Have you completed monit package?	oring for all applicab	le Table C pollu	itants a	nd attache	ed the results to	o this applicat	ion				
-	3.18	Have you completed monit attached the results to this			itants re		your NPDES	permitting aut	hority and				
		Yes					tional sampling	g required by I	NPDES				

EPA	Identificati	on Number	NPDES Permit Number	F	acility I	Name	Form Approved 03/05/19			
	AL 0020)206	AL 0020206	At	hens \	WWTP	OMB No. 2040-0004			
14 3 - 14 3 - 3 -	3.19		V conducted either (1) minimum four annual WET tests in the pas		VET te	ests for one year p	preceding this permit application			
**************************************		🖌 Yes				No - Complet Item 3.2	e tests and Table E and SKIP to 6.			
· · ·	3.20	Have you prev	viously submitted the results of the	ne above tests to	your N					
440 - 2 		✔ Yes				No -> Provide Item 3.2	results in Table E and SKIP to 6.			
е. 21 12	3.21	the second se	ates the data were submitted to	our NPDES perm	nitting	authority and pro	vide a summary of the results.			
		D	ate(s) Submitted (MM/DD/YYYY)			Summary of	Results			
and				Passed 2017, 201	. 8, and	d 2020 years with	one week of analyses. The year			
				2019 was a stran	ge yea	ar due to an inval	id set due to lab issues and a set			
							passed two consecutive weeks			
Ĵ				of followup analy	/ses as	s required by peri	nit.			
Effluent Testing Data Continued	3.22	Regardless of toxicity?	f how you provided your WET tes	sting data to the N	PDES	permitting autho	rity, did any of the tests result in			
<u>_</u> 0		Yes				No ➔ SKIP to	Item 3.26			
stir	3.23		cause(s) of the toxicity:	an a share an ann an						
<u>ب</u>	0.20			held too long an	doute	ida tha proper to	mperature range prior to analyses			
uer		-					encountered going through Pace			
			e eliminated through a change of							
		-	n a two hour drive and were able	-			-			
· · ·	3.24									
		🗹 Yes				No \Rightarrow SKIP to	Item 3.26.			
ing in the second	3.25	Provide detail	s of any toxicity reduction evaluation	ations conducted.						
5 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		We performed	d two extra toxicity screening an	alyses as required	l by Ni	PDES with both re	esulting in passage for all			
1990		parameters.								
	3.26	Have you con	npleted Table E for all applicable	outfalls and attac	hed th	ne results to the a	pplication package?			
					,,		because previously submitted			
2	a and a set		a to a structure for the state of the state			information to t	he NPDES permitting authority.			
SECTIC		to a star and a star way and and a	CHARGES AND HAZARDOUS	and the first of the second state of the	R 122.	21(j)(6) and (7)).				
	4.1		TW receive discharges from SIU	s or NSCIUs?						
		Yes Yes				No → SKIP to It	em 4.7.			
stes	4.2		umber of SIUs and NSCIUs that							
Wa			Number of SIUs			Num	ber of NSCIUs			
SIL			5							
ğ	4.3	Does the PO	TW have an approved pretreatm	ent program?	Haning Pageo and	анан талан түрөөрөн улар байлай ийн ийн төнөн төнөөн төнөө төнөө төнөө төнөө төнөө төнөө төнөө төнөө төнөө төнө				
Haz		Yes			_]	No				
pq	4.4	Have you sut	pritted either of the following to t	he NPDES permit	ting a		ains information substantially			
es a			at required in Table F: (1) a pret							
arg	- -		(2) a pretreatment program?	1.3						
sch		🖌 Yeş		Г	7	No -> SKIP to I	em 4 6			
ğ	4.5		le and date of the annual report	or profreetment n						
stria	4.0		-		•					
Industrial Discharges and Hazardous Wastes		ATHENS CODE	E DIVISION USE OF PUBLIC AND F	RIVATE SEWERS	SENER	RALLY. Attached.				
	4.6	Have you cor	npleted and attached Table F to	this application pa	ackage	э?				
4 4 4 4		🗹 Yes		[No				

EPA	AL 002	ion Number		ermit Number 020206		ty Name		Approved 03/05/19 MB No. 2040-0004
	4.7	Does the POTW re	eceive, or ha	s it been notified that wastes pursuant to 4	t it will receive, by		cated pipe, any wa	stes that are
· e		☐ Yes	_			No 🗲 SKIP to Iter	m 4.9.	
	4.8	If yes, provide the						
- -		Hazardous Was Number	te		Transport Meth ck all that apply)		Annual Amount of Waste Received	Units
				Truck		Rail		
Industrial Discharges and Hazardous Wastes Continued		• • • • • • • • • • • • • • • • • • •		Dedicated pipe		Other (specify)		
es C		:		Truck		Rail		· ·
ous Wast				Dedicated pipe		Other (specify)	_ · · .	
ardo	-			Truck	 	Rail		
and, Haz				Dedicated pipe		Other (specify)		
Irges	4.9	Does the POTW r	eceive or ha	s it been notified that	it will receive w	astewaters that orio	 vinate from remedi	_
ischa				suant to CERCLA an				
D		🗋 Yes				No \rightarrow SKIP to Se	ection 5.	
Industr	4.10	Does the POTW re specified in 40 CF		pect to receive) less and 261.33(e)?	than 15 kilogram	s per month of non-	-acute hazardous	wastes as
1		☐ Yes → SK	(IP to Section	5.		No		
2	4.11	site(s) or facility(ie	s) at which th	g information in an at ne wastewater origina he wastewater receiv	ates; the identitie	s of the wastewater	's hazardous cons	
		Yes				No		
SECTIO				(40 CFR 122.21(j)(8				
am	5.1		it works have	a combined sewer s	· —		 	
Diag						No → SKIP to S		
and	5.2	·	a CSO syst	em map to this applic	cation? (See inst		quirements.)	
lap	F 0	Yes	1 - 000			No	· · · · · · · · · · · · · · · · · · ·	<u>,</u>
CSO Map and Diagram	5.3		a CSO syst	em diagram to this a	pplication? (See	-	iram requirements	.)
U.		Yes				No		:

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EPA		tion Number 0206	<u>.</u>	S Permit Number	-	Facility Name Athens WWTP			proved 03/05/19 B No. 2040-0004
	5.4	For each CSO	outfall, provid	le the following informa	tion. (At	tach additional sheets	as neces	sary.)	
UO				CSO Outfall Number	-	CSO Outfall Number		CSO Outfall N	umber
C.		City or town							
criptio		State and ZIP	code	2					
ll Des		County							
CSO Outfall Description	••	Latitude		o / //		, i i		a /	<i>n</i> :
cso		Longitude		0 1 11	-	o / ""		ō /	"
		Distance from	shore		į ft.	· · · ·	ft.		ft
		Depth below s	urface		ft.		ft.		ft ft
	5.5	Did the POTW	monitor any	of the following items in	the pas	t year for its CSO outfa	alls?	<u>،</u> ، ،	
				CSO Outfall Number		CSO Outfall Number		CSO Outfall Number	
		Rainfall	<u> </u>	🗆 Yes 🖾 No	· · · · · · · · · · · · · · · · · · ·	□ Yes □ N	0	∵⊡ Yes	□ No
itorinç	•	CSO flow volu	me	□ Yes □ No			: 0	□ Yes	□ No
CSO Monitoring		CSO pollutant concentrations		□ Yes □ No		□ Yes □ N	0	☐ Yes	🗆 No
Ŝ		Receiving water quality		🗆 Yes 🔲 No		□ Yes □ No		☐ Yes ☐ No	
		CSO frequenc	ý.	□ Yes □ No)e 	□ Yes □ N	0	☐ Yes	□ No
	•	Number of sto	rm events	□ Yes □ No	r r	□ Yes □ N	0	□ Yes	□ No
	5.6	Provide the fol	lowing inform	ation for each of your C	SO outf	alls.	· · ·		
				CSO Outfall Number		CSO Outfall Numbe	r	CSO Outfall N	lumber
ist Year		Number of CS the past year	O events in		events		events		events
CSO Events in Pa		Average durat	ion per		hours		hours		hours
ents		event	•	Actual or D Estim	nated	🗅 Actual or 🗋 Esti	mated	Actual or I	□ Estimated
о Л	• ,•	Average volun	ne per event	million g	allons	million	gallons		million gallon
S				Actual or Estim	nated	🗆 Actual or 🗆 Esti	mated	Actual or [□ Estimated
		Minimum rainf		inches of r	ainfall	inches of	f rainfall	inc	hes of rainfa
		a CSO event i	n last year	□ Actual or □ Estim	nated	□ Actual or □ Estin	mated	Actual or [□ Estimated

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5.7		nformation in the			each of you			
5.7	TTOVIDE LITE II		CSO Out			CSO Outfall Numb	er	CSO Outfall Number
			000 00					
	Receiving wa	ater name						
	Name of wat							
ers	stream syste U.S. Soil Cor		Г					
CSO Receiving Waters	Service 14-d watershed co (if known)	igit ode						
Rece	Name of stat							
SO	U.S. Geologi	cal Survey			Unknown		Unknown	
Ŭ	8-Digit Hydro Code (if know	vn)						
	Description of water quality receiving stree (see instruction examples)	impacts on eam by CSO						
ECTION 6. C	HECKLIST AND	CERTIFICATIO	ON STAT	EMEN	T (40 CFR 1	22.22(a) and (d))		
	each section all applicants	mn 2 any provide a	attach	ments that y ents.	ou are enclosing to aler		g with your application. Fo	
		on 1: Basic Appli nation for All App			w/ varianc	e request(s)		w/ additional attachmen
		on 2: Additional nation		 w/ topographic map w/ additional attachments 		V	w/ process flow diagram	
		Section 3: Information on Effluent Discharges			 w/ Table A w/ Table B w/ Table C 			w/ Table D
=								w/ Table E
mer	Linde							w/ additional attachment
on Statement	Section 4: Industrial Discharges and Hazard Wastes		rdous	 w/ SIU and NSCIU attachments w/ additional attachments 			w/ Table F	
Checklist and Certification 7:9	Section Section	Section 5: Combined Sewer Overflows		w/ CSO map w/ CSO system diagram				w/ additional attachment
and C		on 6: Checklist a ication Statemer		w/ attachments				
Sily 6.2	Certification	Statement						
Cher	accordance submitted. B for gathering complete. I a and imprison	with a system de ased on my inqu the information, m aware that the ment for knowin or type first and	signed to iny of the the informere are signation of violation	assure person mation gnificar ns.	e that qualifi or persons submitted is	ed personnel property g who manage the system , to the best of my know	ather and ev m, or those p vledge and b mation, inclu Official ti	persons directly responsible lelief, true, accurate, and uding the possibility of fine tle rvices Department Manag

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Γ	EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number	Form Approved 03/05/19
L	AL 0020206	AL 0020206	Athens WWTP	0111	OMB No. 2040-0004

	Maximum	Daily Discharge	i den i	Average Daily Disch	Analytical	ML or MDL	
Pollutant	Value	Units	Value	Units	Number of Samples	Method ¹	(include units)
Biochemical oxygen demand □ BOD₅ or ☑ CBOD₅ (report one)	9.8	mg/L	3.4	mg/L	5/week	SM-5210B, 2011	
Fecal coliform E. coli	2420	MPN col/100mL	72	MPN col/100mL	5/week	Colilert Quanti Tray	1.0 DML
Design flow rate	22.9	MGD	6.23	MGD	365/year		
pH (minimum)	6.3	mg/L				-	
pH (maximum)	8.1	mg/L					
Temperature (winter)	11.2	degrees C	20.4	degrees C	365/year		
Temperature (summer)	28	degrees C	20.4	degrees C	365/year		
Total suspended solids (TSS)	352.7	mg/L	9.7	mg/L	5/Week	SM-2540D,2011	2.0 DML

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 AL 0020206	NPDES Permit N AL 002020		Facility Name Athens WWTP	O.	utfall Number 0011		Form Approved 03/05/19 OMB No. 2040-0004
TABLE B. EFFLUENT PARAMETE	ERS FOR ALL POTW	S WITH A FLOW EQU	JAL TO OR GREATE	R THAN 0.1 MGD			
	Maximum Da	ily Discharge	A	verage Daily Dischar	ge	Analytical	ML or MDL
Pollutant	Value	Ünits	Value	Units	Number of Samples	Method ¹	(include units)
Ammonia (as N)	4.1	mg/L	0.25	mg/L	5/week	EPA 350.1	0.015 DML
Chlorine (total residual, TRC) ²	NA	NA	NA	NA	NA	NA	
Dissolved oxygen	12.6	mg/L	8.5	mg/L	365/year	SM4500-O G-2001	1.00 DML
Nitrate/nitrite	6.13	mg/L	4.59	mg/L	3	300.0	0.0600 [□] ML ☑ MDL
Kjeldahl nitrogen	3.67	mg/L	2.71	mg/L	3	4500-Norg C	1.5 🛛 ML 1.5 🖾 MDL
Oil and grease	ND	mg/L	ND	mg/L	. 3	1664A	5.62 🖾 ML
Phosphorus	3.19	mg/L	< 2.61	mg/L		EPA 365.3	1.00 ☐ ML ☑ MDL
Total dissolved solids	313	mg/L	269	mg/L	3	2540 C-2011	1.00 ☐ 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). ²Facilities that do not use chlorine for disinfection, do not use chlorine elsewhere in the treatment process, and have no reasonable potential to discharge chlorine in their effluent are not required to report data for chlorine.

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TABLE C. EFFLUENT PARAMETE	RS FOR SELECTED F	POTWS					
	Maximum Daily Discharge		Average Daily Discharge) e	Analytical	ML or MDL
Pollutant	Value	Units	Value	Units	Number of Samples	Method ¹	(include units)
Metals, Cyanide, and Total Phenol	S						
Hardness (as CaCO ₃)	160	mg/L	145	mg/L	3	Calculated Result	2.50 Z MDL
Antimony, total recoverable	0.00225	mg/L	<0.00225	mg/L	.3 .	200.8	0.00200 II ML
Arsenic, total recoverable	ND	mg/L	ND	mg/L	3	200.8	0.00100 ^{II} ML IZ MDL
Beryllium, total recoverable	ND	mg/L	ND	mg/L	3	200.8	0.00100 II ML
Cadmium, total recoverable	ND	mg/L	ND	mg/L	3	200.8	0.00100 ☐ ML ☑ MDL
Chromium, total recoverable	ND	mg/L	ND	mg/L	3	200.8	0.0200 [□] ML ☑ MDL
Copper, total recoverable	0.00472	mg/L	0.00393	mg/L	3	200.8	0.00100 [□] ML ☑ MDL
Lead, total recoverable	ND	mg/L	ND	mg/L	3	200.8	0.00200 □ ML ☑ MDL
Mercury, total recoverable	0.0106	ug/L	0.002879	ug/L	16	EPA 1631E	0.00050 □ ML ☑ MDL
Nickel, total recoverable	0.00332	mg/L	0.00221	mg/L	3	200.8	0.00200 [□] ML ☑ MDL
Selenium, total recoverable	ND	mg/L	ND	mg/L	3	200.8	0.00200 II ML
Silver, total recoverable	ND	mg/L	ND	mg/L	3	200.8	0.00100 □ ML ☑ MDL
Thallium, total recoverable	ND	mg/L	ND	mg/L	3	200.8	0.00100 DML 2 MDL
Zinc, total recoverable	0.0527	mg/L	0.0337	mg/L	· . 3	200.8	0.0200 II ML IZ MDL
Cyanide	0.00608	mg/L	<0.00608	mg/L	3	ASTM D7511-12	0.00500 [□] ML ☑ MDL
Total phenolic compounds	ND	mg/L	ND	mg/L	3	420.4	0.0400 DML
Volatile Organic Compounds							
Acrolein	ND	mg/L	ND	mg/L	3	624.1	0.0500 ML
Acrylonitrile	ND	mg/L	ND	mg/L	3	624.1	0.0100 II ML IZ MDL
Benzene	ND	mg/L	ND	mg/L	. 3	624.1	0.00100 DML
Bromoform	ND .	mg/L	ND	mg/L	3	624.1	0.00100 ☐ ML ☑ MDL

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BLE C. EFFLUENT PARAMETE	RS FOR SELECTED	POTWS					
	Maximum Da	aily Discharge	Average Daily Discharge			Analytical	ML or MDL
Pollutant	Value	Units	Value	Units	Number of Samples	Method ¹	(include units)
Carbon tetrachloride	ND	mg/L	ND	mg/L	3	624.1	0.00100 DML DMDL
Chlorobenzene	ND	mg/L	ND	mg/L	3	624.1	0.00100 DML
Chlorodibromomethane	ND	mg/L	ND	mg/L	3	624.1	0.00100 DML
Chloroethane	ND	mg/L	ND	mg/L	3	624.1	0.00500 ^{II} ML IZ MDL
2-chloroethylvinyl ether	ND	mg/L	ND	mg/L	3	624.1	0.0500 ^{II} ML IZ MDL
Chloroform	ND	mg/L	ND	mg/L	3	624.1	0.00500 II ML I MDL
Dichlorobromomethane	• ND	mg/L	ND	mg/L	3	624.1	0.00100 DML
1,1-dichloroethane	ND ····	:mg/L	ND	mg/L	3	624.1	0.00100 DML
1,2-dichloroethane	ND	mg/L	ND	mg/L	3	624.1	0.00100 DML
trans-1,2-dichloroethylene	ND	mg/L	ND	mg/L	3	624.1	0.00100 DML
1,1-dichloroethylene	ND	mg/L	ND	mg/L	3	624.1	0.00100 I ML MDL
1,2-dichloropropane	ND	mg/L	ND	mg/L	3	624.1	0.00100 ☐ ML ☑ MDL
1,3-dichloropropylene	ND	mg/L	ND	mg/L	3	624.1	0.00100
Ethylbenzene	ND	mg/L	ND	mg/L	3	624.1	0.00100 DML
Methyl bromide	ND	mg/L	ND .	mg/L	3	624.1	0.00500 ^{II} ML IZ MDL
Methyl chloride	ND	mg/L	ND	mg/L	3	624.1	0.00250 ☐ ML ☑ MDL
Methylene chloride	ND	mg/L	ND	mg/L	3	624.1	0.00500 DML
1,1,2,2-tetrachloroethane	ND	mg/L	ND	mg/L	3	624.1	0.00100 I ML MDL
Tetrachloroethylene	ND	mg/L	ND	mg/L	3	624.1	0.00100 DML DMDL
Toluene	0.00109	mg/L	<0.00109	mg/L	3	624.1	0.00100 I ML Z MDL
1,1,1-trichloroethane	ND	mg/L	ND	mg/L	3	624.1	0.00100 I ML Z MDL
1,1,2-trichloroethane	ND	mg/L	ND	mg/L	3	624.1	0.00100 DML

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ABLE C. EFFLUENT PARAMETE	ERS FOR SELECTED	POTWS					
Pollutant	Maximum Daily Discharge		Average Daily Discharge			Analytical	ML or MDL
	Value	Units	Value	Units	Number of Samples	Method ¹	(include units)
Trichloroethylene	ND	mg/L	ND	mg/L	3	624.1	0.00100 DML
Vinyl chloride	ND	mg/L	ND	mg/L	3	624.1	0.00100 DML
cid-Extractable Compounds	des						
p-chloro-m-cresol	ND	mg/L	ND	mg/L	3	625.1	0.0100 DML
2-chlorophenol	ND	mg/L	ND	mg/L	3	625.1	0.0100 I ML
2,4-dichlorophenol	ND	mg/L	ND	mg/L	3	625.1	0.0100 DML
2,4-dimethylphenol	ND	mg/L	ND	mg/L	3	625.1	0.0100 II ML
4,6-dinitro-o-cresol	ND	mg/L	ND	mg/L	3	625.1	0.0100 D ML
2,4-dinitrophenol	ND	mg/L	ND	mg/L	3	625.1	0.0100 D ML
2-nitrophenol	ND	mg/L	ND	mg/L	3	625.1	0.0100 ØML
4-nitrophenol	ND	mg/L	ND	mg/L	3	625.1	0.0100 D ML
Pentachlorophenol	ND	mg/L	ND	mg/L	3	625.1	0.0100 HML
Phenol	ND	mg/L	ND	mg/L	3	625.1	0.0100 I ML
2,4,6-trichlorophenol	ND	mg/L	ND	mg/L	3	625.1	00100 DML
se-Neutral Compounds				1			
Acenaphthene	ND	mg/L	ND	mg/L	3	625.1	0.00100 IZ MI
Acenaphthylene	ND	mg/L	ND	mg/L	3	625.1	0.00100 I MI
Anthracene	ND	mg/L	ND	mg/L	3	625.1	0.00100 I MI
Benzidine	ND	mg/L	ND	mg/L	3	625.1	0.0100 II MI
Benzo(a)anthracene	ND	mg/L	ND	mg/L	3	625.1	0.00100 I M
Benzo(a)pyrene	ND	mg/L	ND	mg/L	3	625.1	0.00100 IM
3,4-benzofluoranthene	ND	mg/L	ND	mg/L	3	625.1	0.00100 I MI

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BLE C. EFFLUENT PARAMETERS	FOR SELECTED	POTWS					1.0
Pollutant	Maximum Daily Discharge		Average Daily Disch		arge	Analytical	ML or MDL
	Value	Units	Value	Units	Number of Samples	Method ¹	(include units)
Benzo(ghi)perylene	ND	mg/L	ND	mg/L	3	625.1	0.00100 I ML
Benzo(k)fluoranthene	ND	mg/L	ND	mg/L	3	625.1	0.00100 I ML
Bis (2-chloroethoxy) methane	ND	mg/L	ND	mg/L	3	625.1	0.00100 ML
Bis (2-chloroethyl) ether	ND	mg/L	ND	mg/L	3	625.1	0.0100 ML
Bis (2-chloroisopropyl) ether	ND	mg/L	ND	mg/L	3	625.1	0.0100 ML
Bis (2-ethylhexyl) phthalate	ND	mg/L	ND	mg/L	3	625.1	0.00300 I ML
4-bromophenyl phenyl ether	ND	mg/L	ND	mg/L	3	625.1	0.0100 DML
Butyl benzyl phthalate	ND	mg/L	ND	mg/L	3	625.1	0.00300 I ML
2-chloronaphthalene	ND	mg/L	ND	mg/L	3	625.1	0.00100 IML
4-chlorophenyl phenyl ether	ND	mg/L	ND	mg/L	3	625.1	0.0100 DML
Chrysene	ND	mg/L	ND	mg/L	3	625.1	0.00100 I ML
di-n-butyl phthalate	ND	mg/L	ND	mg/L	3	625.1	0.00300 II ML
di-n-octyl phthalate	ND	mg/L	ND	mg/L	3	625.1	0.00300 II ML
Dibenzo(a,h)anthracene	ND	mg/L	ND	mg/L	3	625.1	0.0100 IML
1,2-dichlorobenzene	ND	mg/L	ND	mg/L	3	624.1	0.00100 IML
1,3-dichlorobenzene	ND	mg/L	ND	mg/L	3	624.1	0.00100 IML
1,4-dichlorobenzene	ND	mg/L	ND	mg/L	3	624.1	0.00100 ML
3,3-dichlorobenzidine	ND	mg/L	ND	mg/L	3	625.1	0.0100 DML
Diethyl phthalate	ND	mg/L	ND	mg/L	3	625.1	0.00300 ML
Dimethyl phthalate	ND	mg/L	ND	mg/L	3	625.1	0.00300 DML
2,4-dinitrotoluene	ND	mg/L	ND	mg/L	3	625.1	0.0100 ML
2,6-dinitrotoluene	ND	mg/L	ND	mg/L	3	625.1	0.0100 DML

EPA Identification Number AL 0020206	NPDES Permit No AL 002020		Facility Name Athens WWTP	C	Outfall Number 0011	Form Approved OMB No. 20	
BLE C. EFFLUENT PARAMETER	S FOR SELECTED	POTWS					-
	Maximum Da	ily Discharge	A	verage Daily Disch	arge	Analytical	ML or MDL
Pollutant	Value	Units	Value	Units	Number of Samples	Method ¹	(include units)
1,2-diphenylhydrazine	ND	mg/L	ND	mg/L	3	625.1	0.0100 I ML
Fluoranthene	ND	mg/L	ND	mg/L	3	625.1	0.00100 DML
Fluorene	ND	mg/L	ND	mg/L	3	625.1	0.00100 ML
Hexachlorobenzene	ND	mg/L	ND	mg/L	3	625.1	0.001.00 ML
Hexachlorobutadiene	ND	mg/L	ND	mg/L	3	625.1	0.0100 ML
Hexachlorocyclo-pentadiene	ND	mg/L	ND	mg/L	3	625.1	0.0100 IML
Hexachloroethane	ND	mg/L	ND	mg/L	3	625.1	0.010'0 ML
Indeno(1,2,3-cd)pyrene	ND	mg/L	ND	mg/L	3	625.1	0.00100 IML
Isophorone	ND	mg/L	ND	mg/L	3	625.1	0.0100 IML
Naphthalene	ND	mg/L	ND	mg/L	3	625.1	0.00100 IML
Nitrobenzene	ND	mg/L	ND	mg/L	3	625.1	0.0100 Z ML
N-nitrosodi-n-propylamine	ND	mg/L	ND	mg/L	3	625.1	0.0100 Z ML
N-nitrosodimethylamine	ND	mg/L	ND	mg/L	3	625.1	0.0100 I ML
N-nitrosodiphenylamine	ND	mg/L	ND	mg/L	3	625.1	0.0100 IML
Phenanthrene	ND	mg/L	ND	mg/L	3	625.1	0.00100 I ML
Pyrene	ND	mg/L	ND	mg/L	3	625.1	0.00100 I ML
1,2,4-trichlorobenzene	ND	mg/L	ND	mg/L	3	625.1	0.0100 I ML

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 AL 0020206	NPDES Permit N AL 002020		Facility Name Athens WWTP	C	Outfall Number 0011		Form Approved 03/05/ OMB No. 2040-00
BLE D. ADDITIONAL POLLUTAN	TS AS REQUIRED	BY NPDES PERMIT	TING AUTHORITY				
Pollutant	Maximum Da	ily Discharge	Av	erage Daily Discha		Analytical	ML or MDL
(list)	Value	Units	Value	Units	Number of Samples	Method ¹	(include units)
No additional sampling is requi	red by NPDES perm	nitting authority.					
(S) Toulene-d8	108	mg/L	< 108	mg/L	3	624.1	80.0 IML
(S) Dibromofluoromethane	96.2	mg/L	< 96.2	mg/L	3	624.1	76.0 DML
(S) a,a,a-Trifuorotoluene	100	mg/L	<100	mg/L	3	624.1	80.0 ØM
(S) 4-Bromofluorobenzene	110	mg/L	105	mg/L	3	624.1	80.0 Z M
(S) 1,2-Dichloroethane-d4	103	mg/L	< 98.6	mg/L	3	624.1	70.0 DM
(S) 2-Fluorophenol	43.2	mg/L	32.8	mg/L	3	625.1	10.0 ^{II M}
(S) Phenol-d5	30.6	mg/L	23.0	mg/L	3	625.1	8.00 IM
(S) Nitrobenzene-d5	56	mg/L	46.6	mg/L	3	625.1	15.0 DM
(S) 2-Fluorobiphenol	64.1	mg/L	53.6	mg/L	3	625.1	22.0 DM
(S) 2,4,6-Tribromophenol	93.4	mg/L	79.9	mg/L	3	625.1	10.0 DM
(S) p-Terphenyl-d14	77.5	mg/L	68.0	mg/L	3	625.1	29.0 ^{II} M
2,2-Oxybis(1-Chloropropane)	ND	mg/L	ND	mg/L	3	625.1	0.0100 DM
Calcium	55.2	mg/L	49.7	mg/L	3	200.7	1.00 [□] M ☑ M
Magnesium	5.43	mg/L	5.00	mg/L	3	200.7	1.00 DM
	i i i i i i i i i i i i i i i i i i i						

¹Sampling 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 N AL 0020206	PDES Permit Number AL 0020206	Facility Nat Athens WV		Form Approved 03/05/19 OMB No. 2040-0004	
TABLE E. EFFLUENT MONITORING FOR M					
The table provides response space for one w	hole effluent toxicity sample. Co	py the table to re	port additional test results.		
Test Information				······································	
	Test Number 1		Test Number 2	Test Number <u>3</u>	
Test species	Ceriodaphnia Du	ıbia	Primephales Promelas	Primephales Promelas	
Age at initiation of test	<24 hrs		<24 hrs	<24 hrs	
Outfall number	001T		001T	001T	
Date sample collected	08/21/2017		08/23/2017	08/25/2017	
Date test started	08/22/2017		08/24/2017	08/26/2017	
Duration	8/22-23/2017 3 b	rood	8/25-26/2017 3brood	8/26-28/2017 3 brood	
Toxicity Test Methods	1				
Test method number	1002.0		1002.0	1002.0	
Manual title	EPA Methodology (Chro	nic Manual)	EPA Methodology (Chronic Manual)	EPA Methodology (Chronic Manual)	
Edition number and year of publication	Fourth Edition, 2002		Fourth Edition, 2002	Fourth Edition, 2002	
Page number(s)	EPA-821-R-02-0	13	EPA-821-R-02-013	EPA-821-R-02-013	
Sample Type	10000				
Check one:	Grab Grab		Grab Grab	Grab Grab	
	☑ 24-hour composite		24-hour composite	24-hour composite	
Sample Location					
Check one:	Before Disinfection		Before Disinfection	Before disinfection	
	After Disinfection		After Disinfection	After disinfection	
	After Dechlorination		After Dechlorination	After dechlorination	
Point in Treatment Process	1		1		
Describe the point in the treatment process at which the sample was collected for each test.	Immediately following U.V. D to the Cascade Aerator.	isinfection prior	Immediately following U.V. Disinfection prior to the Cascade Aerator.	r Immediately following U.V. Disinfection prior to the Cascade Aerator.	
Toxicity Type					
Indicate for each test whether the test was performed to asses acute or chronic toxicity,	Acute		Acute		
or both. (Check one response.)	Chronic		Chronic	Chronic	
	Both		D Both	Both	

EPA Identification Number NI AL 0020206	NPDES Permit Number Facility Nam AL 0020206 Athens WW				Form Approved 03/05/19 OMB No. 2040-0004	
TABLE E. EFFLUENT MONITORING FOR W	HOLE EFFLUENT TO	DXICITY		Section 1		
The table provides response space for one whether the table provides response space for one whether tables are tables and tables are tables and tables are	nole effluent toxicity sa	ample. Copy the table to re	port additional test res	sults.		
	Test Nu	umber <u>1</u>	Test Number 2		Test Number 3	
Test Type			and the second	and the second		
Indicate the type of test performed. (Check one	d. (Check one Static		Static		Static	
response.)	Static-renewal		Static-renewal		Static-renewal	
	Flow-through		Flow-through		Flow-through	
Source of Dilution Water						
Indicate the source of dilution water. (Check	Laboratory wate	er	Laboratory wate	er	Laboratory wat	er
one response.)	Receiving wate		Receiving wate		Receiving wate	
If laboratory water, specify type.		MHSFW		1HSFW		MHSFW
If receiving water, specify source.	NA		NA		NA	
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 (special 	ify)
Percentage Effluent Used						
Specify the percentage effluent used for all concentrations in the test series.		100%		100%		100%
Parameters Tested						
Check the parameters tested.	рн	Ammonia	🗆 рН	Ammonia	🗆 рН	Ammonia
	Salinity	Dissolved oxygen	Salinity Temperature	Dissolved oxygen	Salinity Temperature	Dissolved oxygen
Acute Test Results	- Tomporature		- romporatare		- remperature	
Percent survival in 100% effluent		NA %		NA %		NA %
LC ₅₀		NA		NA		NA
95% confidence interval		NA %		NA %		NA %
Control percent survival	NA %		NA %		-	

EPA Identification Number AL 0020206	NPDES Permit Number AL 0020206	Facility Nar Athens WV		Outfall Number 001T		Form Approved 03/05/19 OMB No. 2040-0004
TABLE E. EFFLUENT MONITORING FOR						
The table provides response space for one	whole effluent toxicity sample	ple. Copy the table to re	port additional test result	S.		
	Test Num	ber <u>1</u>	Test Num	ber_2	Test Num	ber <u>3</u>
Acute Test Results Continued						
Other (describe)	NA		NA		NA	
Chronic Test Results						
NOEC		100 %	100 %		100 %	
1C ₂₅		0.307 %	0.307 %			0.307 %
Control percent survival		100 %	100 %			100 %
Other (describe)	N	NA		NA		A
Quality Control/Quality Assurance						
Is reference toxicant data available?	Yes	No No	☑ Yes	No No	☑ Yes	[] No
Was reference toxicant test within acceptable bounds?	🗹 Yes	D No	☑ Yes	D No	Yes	□ No
What date was reference toxicant test run (MM/DD/YYYY)?	07/26/20	17	07/26/201	17	07/26/201	7
Other (describe)	7/26 through 8/1/2017	7	7/26 through 8/1/2017		7/26 through 8/1/2017	

EPA Identification Number N AL 0020206	IPDES Permit Number Facility Na AL 0020206 Athens W		Form Approved 03/05/19 OMB No. 2040-0004	
TABLE E. EFFLUENT MONITORING FOR W	VHOLE EFFLUENT TOXICITY	CONTRACTOR OF A DECISION		
The table provides response space for one w	hole effluent toxicity sample. Copy the table to re	eport additional test results.		
Test Information				
	Test Number 1	Test Number 2	Test Number 3	
Test species	PImephales Promelas	Primephales Promelas	Primephales Promelas	
Age at initiation of test	<48hrs	<48hrs	<48hrs	
Outfall number	001T	001T	001T	
Date sample collected	08/21/2017	08/23/2017	08/25/2017	
Date test started	08/22/2017	08/24/2017	08/26/2017	
Duration	8/22-23/2017	8/25-26/2017	8/26-28/2017	
Toxicity Test Methods	-			
Test method number	1000.0	1000.0	1000.0	
Manual title	EPA Methodology (Chronic Manual)	EPA Methodology (Chronic Manual)	EPA Methodology (Chronic Manual)	
Edition number and year of publication	Fourth Edition, 2002	Fourth Edition, 2002	Fourth Edition, 2002	
Page number(s)	EPA-821-R-02-013	EPA-821-R-02-013	EPA-821-R-02-013	
Sample Type				
Check one:	Grab Grab	Grab Grab	Grab	
1000	✓ 24-hour composite	☑ 24-hour composite	24-hour composite	
Sample Location			4	
Check one:	Before Disinfection	Before Disinfection	Before disinfection	
	After Disinfection	After Disinfection	After disinfection	
2	After Dechlorination	After Dechlorination	After dechlorination	
Point in Treatment Process				
Describe the point in the treatment process at which the sample was collected for each test.	Immediately following U.V. Disinfection prior to the Cascade Aerator.	Immediately following U.V. Disinfection prior to the Cascade Aerator.	Immediately following U.V. Disinfection prior to the Cascade Aerator.	
Toxicity Type				
Indicate for each test whether the test was performed to asses acute or chronic toxicity,	Acute	Acute	Acute	
or both. (Check one response.)	Chronic	Chronic	Chronic	
· · · · · · · · · · · · · · · · · · ·	Both	Both	D Both	

EPA Identification Number NF AL 0020206	NPDES Permit Number Facility Name AL 0020206 Athens WW				Form Approved 03/05/19 OMB No. 2040-0004		
TABLE E. EFFLUENT MONITORING FOR W	HOLE EFFLUENT TO	DXICITY			and the second s		
The table provides response space for one wh	ole effluent toxicity sa	mple. Copy the table to re	port additional test res	sults.			
	Test Nu	umber 1	Test Nu	imber 2	Test Nu	umber <u>3</u>	
Test Type			L				
Indicate the type of test performed. (Check one	Static	☑ Static			Static		
response.)	Static-renewal		Static-renewal		Static-renewal		
	Flow-through		Flow-through		Flow-through		
Source of Dilution Water		· · · · · · · · · · · · · · · · · · ·		and a second			
Indicate the source of dilution water. (Check	Laboratory water		Laboratory wate	er	Laboratory wat	er	
one response.)	Receiving wate		Receiving water		Receiving wate		
If laboratory water, specify type.	-	1HSFW		1HSFW		MHSFW	
If receiving water, specify source.	NA		NA		NA		
Type of Dilution Water	Contractorem						
Indicate the type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.	Fresh water		 Fresh water Salt water (specify) 		Fresh water Salt water (spec	ify)	
Percentage Effluent Used							
Specify the percentage effluent used for all concentrations in the test series.		100%		100%		100%	
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	<u></u>						
Percent survival in 100% effluent		NA %		NA %		NA %	
LC50		NA		NA		NA	
95% confidence interval	-	NA %		NA %		NA %	
Control percent survival	NA %			NA %		NA % NA	

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EPA Identification Number AL 0020206	NPDES Permit Number AL 0020206			Outfall Number 001T	Form Approved 03/05/19 OMB No. 2040-0004	
TABLE E. EFFLUENT MONITORING FOR				A STREAM		
The table provides response space for one v	whole effluent toxicity sam	ple. Copy the table to re	port additional test result	S.		
	Test Num	ber	Test Num	ber 2	Test Num	ber <u>3</u>
Acute Test Results Continued						
Other (describe)	NA		NA		NA	
Chronic Test Results						
NOEC		100 %	100 %		100 9	
IC25		0.307 %	0.307 %		and a second sec	0.307 %
Control percent survival		100 %	100 %			97.5 9
Other (describe)	N	IA	NA		N	A
Quality Control/Quality Assurance						
Is reference toxicant data available?	✓ Yes	No No	I Yes	No No	☑ Yes	No No
Was reference toxicant test within acceptable bounds?	☑ Yes	D No	☑ Yes	□ No	☑ Yes	D No
What date was reference toxicant test run (MM/DD/YYYY)?	07/26/20	17	07/26/201	17	07/26/201	17
Other (describe)	7/26 through 8/1/2017	7	7/26 through 8/1/2017	1	7/26 through 8/1/2017	

EPA Identification Number N AL 0020206	PDES Permit Number Facility I AL 0020206 Athens V		Form Approved 03/05/19 OMB No. 2040-0004	
TABLE E. EFFLUENT MONITORING FOR W				
The table provides response space for one w	hole effluent toxicity sample. Copy the table to	report additional test results.		
Test Information				
	Test Number 1	Test Number 2	Test Number 3	
Test species	Ceriodaphnia Dubia	Ceriodaphnia Dubia	Ceriodaphnia Dubia	
Age at initiation of test	<24 hrs	<24 hrs	<24 hrs	
Outfall number	001T	001T	001T	
Date sample collected	08/06/2018	08/08/2018	08/10/2018	
Date test started	08/07/2018	08/09/2018	08/11/2018	
Duration	3 brood	3brood	3 brood	
Toxicity Test Methods				
Test method number	1002.0	1002.0	1002.0	
Manual title	EPA Methodology (Chronic Manual)	EPA Methodology (Chronic Manual)	EPA Methodology (Chronic Manual)	
Edition number and year of publication	Fourth Edition, 2002	Fourth Edition, 2002	Fourth Edition, 2002	
Page number(s)	EPA-821-R-02-013	EPA-821-R-02-013	EPA-821-R-02-013	
Sample Type				
Check one:	Grab Grab	Grab Grab	Grab Grab	
	✓ 24-hour composite	☑ 24-hour composite	24-hour composite	
Sample Location				
Check one:	Before Disinfection	Before Disinfection	Before disinfection	
	After Disinfection	After Disinfection	After disinfection	
	After Dechlorination	After Dechlorination	After dechlorination	
Point in Treatment Process				
Describe the point in the treatment process at which the sample was collected for each test.	Immediately following U.V. Disinfection pric to the Cascade Aerator.	r Immediately following U.V. Disinfection prior to the Cascade Aerator.	Immediately following U.V. Disinfection prior to the Cascade Aerator.	
Toxicity Type				
Indicate for each test whether the test was	Acute	Acute	Acute	
performed to asses acute or chronic toxicity, or both. (Check one response.)	Chronic	Chronic	Chronic	
	Both	Both	D Both	

EPA Identification Number NF AL 0020206	NPDES Permit Number Facility Name AL 0020206 Athens WM					Form Approved 03/05/19 OMB No. 2040-0004
TABLE E. EFFLUENT MONITORING FOR W				A		Sec. 1
The table provides response space for one when	nole effluent toxicity sa	ample. Copy the table to re	port additional test res	sults.		
	Test No	umber <u>1</u>	Test Nu	Imber 2	Test N	umber <u>3</u>
Test Type			L		L	
Indicate the type of test performed. (Check one	Static		Static		Static	
response.)	Static-renewal		Static-renewal		Static-renewal	
	Flow-through		Flow-through		Flow-through	
Source of Dilution Water						
Indicate the source of dilution water. (Check	e source of dilution water. (Check		Laboratory wate	91	Laboratory wat	er
one response.)	Receiving wate		Receiving water		Receiving wate	
If laboratory water, specify type.		NHSFW		IHSFW		MHSFW
If receiving water, specify source.		NA	NA		NA	
Type of Dilution Water	1	and a second				
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 (speced)	ify)
Percentage Effluent Used	Prost in the second					
Specify the percentage effluent used for all concentrations in the test series.		100%		100%		100%
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						1
Percent survival in 100% effluent		NA %		NA %		NA %
LC50		NA		NA		NA
95% confidence interval		NA %		NA %		NA %
Control percent survival	NA %		NA %		the second secon	

EPA Identification Number AL 0020206	NPDES Permit Number AL 0020206	Facility Nar Athens WV		Outfall Number 001T		Form Approved 03/05/19 OMB No. 2040-0004	
TABLE E. EFFLUENT MONITORING FOR	WHOLE EFFLUENT TOX	ICITY					
The table provides response space for one	whole effluent toxicity sam	ple. Copy the table to re	port additional test result	S.			
	Test Num	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Test Num	ber _2	Test Num	ber <u>3</u>	
Acute Test Results Continued					L		
Other (describe)	NA	4.3	NA		NA		
Chronic Test Results							
NOEC		100 %		100 %		100 %	
IC25		0.2935 %		0.2935 %		0.2935 %	
Control percent survival		100 %	100 %		100 %		
Other (describe)	N	A	NA		N	A	
Quality Control/Quality Assurance				- 1			
Is reference toxicant data available?	☑ Yes	No No	☑ Yes	No No	☑ Yes	No No	
Was reference toxicant test within acceptable bounds?	☑ Yes	🗆 No	☑ Yes	D No	☑ Yes	D No	
What date was reference toxicant test run (MM/DD/YYYY)?	07/03/20	18	07/03/20:	18	07/03/201	8	
Other (describe)	7/3 through 7/9/2018		7/3 through 7/9/2018		7/3 through 7/9/2018		

EPA Identification Number N AL 0020206	PDES Permit Number Facility Na AL 0020206 Athens W		Form Approved 03/05/19 OMB No. 2040-0004	
TABLE E. EFFLUENT MONITORING FOR W	HOLE EFFLUENT TOXICITY			
The table provides response space for one w	hole effluent toxicity sample. Copy the table to re	eport additional test results.		
Test Information				
	Test Number 1	Test Number 2	Test Number 3	
Test species	Primephales Promelas	Primephales Promelas	Primephales Promelas	
Age at initiation of test	24-36 hrs	24-36 hrs	24-36 hrs	
Outfall number	001T	001T	001T	
Date sample collected	08/06/2018	08/08/2018	08/10/2018	
Date test started	08/07/2018	08/09/2018	08/11/2018	
Duration	7 day	7 day	7 day	
Toxicity Test Methods				
Test method number	1000.0	1000.0	1000.0	
Manual title	EPA Methodology (Chronic Manual)	EPA Methodology (Chronic Manual)	EPA Methodology (Chronic Manual)	
Edition number and year of publication	Fourth Edition, 2002	Fourth Edition, 2002	Fourth Edition, 2002	
Page number(s)	EPA-821-R-02-013	EPA-821-R-02-013	EPA-821-R-02-013	
Sample Type				
Check one:	Grab Grab	Grab Grab	Grab Grab	
	✓ 24-hour composite	☑ 24-hour composite	☑ 24-hour composite	
Sample Location				
Check one:	Before Disinfection	Before Disinfection	Before disinfection	
	After Disinfection	After Disinfection	After disinfection	
	After Dechlorination	After Dechlorination	After dechlorination	
Point in Treatment Process				
Describe the point in the treatment process at which the sample was collected for each test.	Immediately following U.V. Disinfection prior to the Cascade Aerator.	Immediately following U.V. Disinfection prior to the Cascade Aerator.	Immediately following U.V. Disinfection prior to the Cascade Aerator.	
Toxicity Type				
Indicate for each test whether the test was	Acute	Acute	Acute	
performed to asses acute or chronic toxicity, or both. (Check one response.)	Chronic	Chronic	Chronic	
	D Both	D Both	Both	

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TABLE E. EFFLUENT MONITORING FOR W						
The table provides response space for one whether the space for	ole effluent toxicity sa	ample. Copy the table to re	port additional test res	sults.		
	Test Nu	umber <u>1</u>	Test Nu	imber 2	Test Ni	umber <u>3</u>
Test Type						
Indicate the type of test performed. (Check one	Static		Static		Static	
response.)	Static-renewal		Static-renewal		Static-renewal	
	Flow-through		Flow-through		Flow-through	
Source of Dilution Water						
Indicate the source of dilution water. (Check	Laboratory wate	er	Laboratory wate	er	Laboratory wat	er
one response.)			Receiving water		Receiving wate	
If laboratory water, specify type.		MHSFW		1HSFW		MHSFW
If receiving water, specify source.	NA		NA		NA	
Type of Dilution Water	1			Al horsen and a second second second		
Indicate the type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.	Salt water (specify)		 Fresh water Salt water (specify) 		Salt water (specify)	
Percentage Effluent Used						
Specify the percentage effluent used for all concentrations in the test series.		100%		100%		100%
Parameters Tested						
Check the parameters tested.	□рн	Ammonia	🗆 рН	Ammonia	🗆 рН	Ammonia
	Salinity Temperature	Dissolved oxygen	Salinity Temperature	Dissolved oxygen	Salinity Temperature	Dissolved oxygen
Acute Test Results				1		
Percent survival in 100% effluent		NA %		NA %		NA %
LC ₅₀		NA		NA		NA
95% confidence interval		NA %		NA %	-	NA %
Control percent survival		NA %		NA %		NA %

EPA Identification Number AL 0020206	NPDES Permit Number AL 0020206	Facility Nar Athens WV		Outfall Number 001T	Form Approved 03/05 OMB No. 2040-0		
TABLE E. EFFLUENT MONITORING FOR			A CLARENCE				
The table provides response space for one	whole effluent toxicity sam	ple. Copy the table to re	port additional test result	S.			
	Test Num	ber _1	Test Num	ber_2	Test Num	ber <u>3</u>	
Acute Test Results Continued							
Other (describe)	NA		NA		NA		
Chronic Test Results							
NOEC	100 %		100 %		100 %		
IC25		0.4300 %		0.4300 %		0.4300 %	
Control percent survival		100 %	100 %		100 %		
Other (describe)	NA		NA		NA		
Quality Control/Quality Assurance							
Is reference toxicant data available?	☑ Yes	□ No	☑ Yes	No No	☑ Yes	No	
Was reference toxicant test within acceptable bounds?	Yes	No No	☑ Yes	No No	V Yes	No No	
What date was reference toxicant test run (MM/DD/YYYY)?	07/03/20	18 -	07/03/201	18	07/03/201	8	
Other (describe)	7/3 through 7/10/2018	018 7/3 through 7/1			7/3 through 7/10/2018	3	

EPA Identification Number N AL 0020206	PDES Permit Number Facility N AL 0020206 Athens V		Form Approved 03/05/19 OMB No. 2040-0004
TABLE E. EFFLUENT MONITORING FOR W			
The table provides response space for one w	hole effluent toxicity sample. Copy the table to	report additional test results.	
Test Information			
	Test Number 1	Test Number 2	Test Number 3
Test species	Ceriodaphnia Dubia	Ceriodaphnia Dubia	Ceriodaphnia Dubia
Age at initiation of test	<24 hrs	<24 hrs	<24 hrs
Outfall number	001T	001T	001T
Date sample collected	08/05/2019	08/07/2019	08/09/2019
Date test started	08/06/2019	08/08/2019	08/10/2019
Duration	3 Brood	3 Brood	3 Brood
Toxicity Test Methods			
Test method number	1002.0	1002.0	1002.0
Manual title	EPA Methodology (Chronic Manual)	EPA Methodology (Chronic Manual)	EPA Methodology (Chronic Manual)
Edition number and year of publication	Fourth Edition, 2002	Fourth Edition, 2002	Fourth Edition, 2002
Page number(s)	EPA-821-R-02-013	EPA-821-R-02-013	EPA-821-R-02-013
Sample Type			
Check one:	Grab Grab	Grab Grab	Grab Grab
	✓ 24-hour composite	☑ 24-hour composite	✓ 24-hour composite
Sample Location			
Check one:	Before Disinfection	Before Disinfection	Before disinfection
	After Disinfection	After Disinfection	After disinfection
	After Dechlorination	After Dechlorination	After dechlorination
Point in Treatment Process			
Describe the point in the treatment process at which the sample was collected for each test.	Immediately following U.V. Disinfection prio to the Cascade Aerator.	Immediately following U.V. Disinfection prior to the Cascade Aerator.	Immediately following U.V. Disinfection prior to the Cascade Aerator.
Toxicity Type	1		1
Indicate for each test whether the test was	Acute	Acute	Acute
performed to asses acute or chronic toxicity, or both. (Check one response.)	Chronic	Chronic	Chronic
	Both	D Both	D Both

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EPA Identification Number NI AL 0020206	PDES Permit Number AL 0020206	Facility Nat Athens WV		Outfall Number 001T		Form Approved 03/05/19 OMB No. 2040-0004	
TABLE E. EFFLUENT MONITORING FOR W	HOLE EFFLUENT TO	OXICITY					
The table provides response space for one wh	nole effluent toxicity sa	ample. Copy the table to re	port additional test res	sults.			
	Test Nu	umber _1	Test Nu	imber 2	Test N	umber <u>3</u>	
Test Type			1				
Indicate the type of test performed. (Check one	Static		Static		Static		
response.)	Static-renewal		Static-renewal		Static-renewal		
	Flow-through		Flow-through		Flow-through		
Source of Dilution Water	J						
Indicate the source of dilution water. (Check	Laboratory wate	er	Laboratory wate	er	Laboratory wat	er	
one response.)			Receiving wate		Receiving wate		
If laboratory water, specify type.	MHSFW			1HSFW		MHSFW	
If receiving water, specify source.	NA		NA		NA		
Type of Dilution Water	J	Managan da haran da h		and a second sec			
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.		100%		100%		100%	
Parameters Tested					L		
Check the parameters tested.	🗆 рН	Ammonia	🗆 рН	Ammonia	🗆 рН	Ammonia	
	Salinity	Dissolved oxygen	Salinity Temperature	Dissolved oxygen	□ Salinity □ Dissolved oxyge □ Temperature		
Acute Test Results	, F				· · · · · · · · · · · · · · · · · · ·		
Percent survival in 100% effluent		NA %		NA %		NA %	
LC ₅₀		NA		NA		NA	
95% confidence interval		NA %		NA %		NA %	
Control percent survival		NA %	-	NA %		NA %	

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TABLE E. EFFLUENT MONITORING FOR	and the second						
The table provides response space for one			1		Test Num	2	
	Test Num	Test Number 1 Test Number 2					
Acute Test Results Continued							
Other (describe)	NA		NA		NA		
Chronic Test Results							
NOEC	invalid %		invalid %		invalid %		
IC ₂₅		0.2238 %		0.2238 %		0.2238 9	
Control percent survival		invalid %	invalid %			invalid %	
Other (describe)	٩	A	NA		NA		
Quality Control/Quality Assurance							
Is reference toxicant data available?	✓ Yes	No No	✓ Yes	□ No	Yes	No No	
Was reference toxicant test within acceptable bounds?	☑ Yes	□ No	☑ Yes	No No	☑ Yes	No No	
What date was reference toxicant test run (MM/DD/YYYY)?	08/06/20	19	08/06/201	.9	08/06/201	9	
Other (describe)	8/06 through 8/13/20	19	8/06 through 8/13/2019		8/06 through 8/13/2019		

EPA Identification Number N AL 0020206		Facility Name thens WWTP	Outfall Number 001T	Form Approved 03/05/19 OMB No. 2040-0004
TABLE E. EFFLUENT MONITORING FOR V				
The table provides response space for one w	hole effluent toxicity sample. Copy the t	able to report additional	test results.	
Test Information				· · · · · · · · · · · · · · · · · · ·
	Test Number 1		Fest Number 2	Test Number 3
Test species	Primephales Promelas	P	rimephales Promelas	Primephales Promelas
Age at initiation of test	24-36 hrs		24-36 hrs	24-36 hrs
Outfall number	001T		001T	001T
Date sample collected	08/05/2019		08/07/2019	08/09/2019
Date test started	08/06/2019		08/08/2019	08/10/2019
Duration	7 day		7 day	7 day
Toxicity Test Methods				
Test method number	1000.0		1000.0	1000.0
Manual title	EPA Methodology (Chronic Man	ual) EPA Me	thodology (Chronic Manual)	EPA Methodology (Chronic Manual)
Edition number and year of publication	Fourth Edition, 2002		Fourth Edition, 2002	Fourth Edition, 2002
Page number(s)	EPA-821-R-02-013		EPA-821-R-02-013	EPA-821-R-02-013
Sample Type				
Check one:	Grab Grab	Grab		Grab Grab
	☑ 24-hour composite	24-hour	composite	☑ 24-hour composite
Sample Location				
Check one:	Before Disinfection	Before D	Disinfection	Before disinfection
	After Disinfection	After Dis	infection	After disinfection
	After Dechlorination	After De	chlorination	After dechlorination
Point in Treatment Process				
Describe the point in the treatment process at which the sample was collected for each test.	Immediately following U.V. Disinfect to the Cascade Aerator.	ion prior Immediately to the Cascad	following U.V. Disinfection prior de Aerator.	Immediately following U.V. Disinfection prior to the Cascade Aerator.
Toxicity Type				
Indicate for each test whether the test was	Acute	Acute		Acute
performed to asses acute or chronic toxicity, or both. (Check one response.)	Chronic	Chronic		Chronic
or board follow one response.	1 Both	Both		D Both

EPA Identification Number NF AL 0020206	PDES Permit Number AL 0020206	Facility Nan Athens WV		Outfall Number 001T		Form Approved 03/05/19 OMB No. 2040-0004
TABLE E. EFFLUENT MONITORING FOR W						
The table provides response space for one wh	ole effluent toxicity sa	mple. Copy the table to rep	port additional test res	sults.		
	Test Nu	umber _1	Test Nu	mber 2	Test No	umber <u>3</u>
Test Type						
Indicate the type of test performed. (Check one response.)	Static Static-renewal Flow-through		Static Static-renewal Flow-through		Static Static-renewal	
Source of Dilution Water						
Indicate the source of dilution water. (Check one response.)	Laboratory water Receiving water		 ✓ Laboratory water □ Receiving water 		Laboratory wat	
If laboratory water, specify type.	N	MHSFW		IHSFW	N	MHSFW
If receiving water, specify source.	NA		NA		NA	
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 ✓ Fresh water □ Salt water (specify) □ Salt water (specify)		fy)	Fresh water	ify)	
Percentage Effluent Used						
Specify the percentage effluent used for all concentrations in the test series.		100%	S CONTRACTOR OF ST	100%		100%
Parameters Tested						
Check the parameters tested.	□ pH □ Salinity □ Temperature	Ammonia Dissolved oxygen	pH Salinity Temperature	 Ammonia Dissolved oxygen 	□ pH □ Salinity □ Temperature	Ammonia
Acute Test Results					······································	······································
Percent survival in 100% effluent		NA %		NA %		NA %
LC ₅₀		NA		NA		NA
95% conficence interval		NA %		NA %		NA %
Control percent survival		NA %		NA %	NA %	

EPA Identification Number AL 0020206	NPDES Permit Number AL 0020206	Facility Nar Athens WV		Outfall Number 001T	Form Applayed 02/ OMB No. 2040-		
TABLE E. EFFLUENT MONITORING FOR							
The table provides response space for one						2	
	Test Number 1 Test Number 2			nber <u> </u>	Test Num	ber	
Acute Test Results Continued	-						
Other (describe)	NA		NA		NA		
Chronic Test Results							
NOEC		invalid %		invalid %		invalid %	
IC ₂₅		0.4300 %		0.4300 %		0.4300 %	
Control percent survival		invalid %	invalid %			invalid %	
Other (describe)	N	A	NA		NA		
Quality Control/Quality Assurance			I				
Is reference toxicant data available?	✓ Yes	No No	☑ Yes	No No	Yes	No No	
Was reference toxicant test within acceptable bounds?	✓ Yes	No No	☑ Yes	No No	☑ Yes	□ No	
What date was reference toxicant test run (MM/DD/YYYY)?	08/13/20	19	08/13/20	019	08/13/201	9	
Other (describe)	8/13 through 8/20/203	19	8/13 through 8/20/2019		8/13 through 8/20/2019		

EPA Identification Number AL 0020206	NPDES Permit Number AL 0020206	Facility Nar Athens WV		Outfall Number 001T		Form Approved 03/05/19 OMB No. 2040-000		
TABLE E. EFFLUENT MONITORING FO								
The table provides response space for on	e whole effluent toxicity sam	ple. Copy the table to re	port additional test result	S.				
	Test Nun	nber <u>1</u>	Test Num	per	Test Num	ber_3		
Acute Test Results Continued								
Other (describe)	NA		NA		NA			
Chronic Test Results			1					
NOEC		invalid %	invalid %		invalid %			
IC25		0.4587 %			0.4587 %			
Control percent survival		invalid %		invalid %	invalid %			
Other (describe)	,	NA	NA		N	A		
Quality Control/Quality Assurance								
Is reference toxicant data available?	Yes	No No	☑ Yes	D No	☑ Yes	No No		
Was reference toxicant test within acceptable bounds?	Yes	D No	☑ Yes	No No	☑ Yes	No No		
What date was reference toxicant test run (MM/DD/YYYY)?	08/13/20	019	08/13/201	9	08/13/201	.9		
Other (describe)	8/13 through 8/20/20	19	8/13 through 8/20/2019		8/13 through 8/20/2019			

EPA Identification Number N AL 0020206	PDES Permit Number Facility M AL 0020206 Athens V		Form Approved 03/05/19 OMB No. 2040-0004	
TABLE E. EFFLUENT MONITORING FOR W				
The table provides response space for one with Test Information	note entuent toxicity sample. Copy the table to	report additional test results.		
Test information	Test Number 1	Test Number 2	Test Number 3	
Test species	Ceriodaphnia Dubia	Ceriodaphnia Dubia	Ceriodaphnia Dubia	
Age at initiation of test	<24 hrs	<24 hrs	<24 hrs	
Outfall number	001T	001T	001T	
Date sample collected	08/26/2019	08/28/2019	08/30/2019	
Date test started	08/27/2019	08/29/2019	08/31/2019	
Duration	3 Brood	3 Brood	3 Brood	
Toxicity Test Methods				
Test method number	1002.0	1002.0	1002.0	
Manual title	EPA Methodology (Chronic Manual)	EPA Methodology (Chronic Manual)	EPA Methodology (Chronic Manual)	
Edition number and year of publication	Fourth Edition, 2002	Fourth Edition, 2002	Fourth Edition, 2002	
Page number(s)	EPA-821-R-02-013	EPA-821-R-02-013	EPA-821-R-02-013	
Sample Type				
Check one:	Grab	Grab Grab	Grab	
	24-hour composite	☑ 24-hour composite	24-hour composite	
Sample Location				
Check one:	Before Disinfection	Before Disinfection	Before disinfection	
	After Disinfection	After Disinfection	After disinfection	
	After Dechlorination	After Dechlorination	After dechlorination	
Point in Treatment Process				
Describe the point in the treatment process at which the sample was collected for each test.	Immediately following U.V. Disinfection pric to the Cascade Aerator.	r Immediately following U.V. Disinfection prior to the Cascade Aerator.	Immediately following U.V. Disinfection prior to the Cascade Aerator.	
Toxicity Type				
Indicate for each test whether the test was	Acute	Acute	Acute	
performed to asses acute or chronic toxicity, or both. (Check one response.)	Chronic	Chronic	Chronic	
	Both	D Both	Both	

EPA Identification Number Ni AL 0020206	PDES Permit Number AL 0020206	Facility Nar Athens WV		Outfall Number 001T		Form Approved 03/05/19 OMB No. 2040-0004
TABLE E. EFFLUENT MONITORING FOR W	HOLE EFFLUENT TO	DXICITY				
The table provides response space for one whether the space for	ole effluent toxicity sa	ample. Copy the table to re	port additional test res	sults.		
	Test Nu	umber <u>1</u>	Test Number 2		Test Number <u>3</u>	
Test Type			I		L	
Indicate the type of test performed. (Check one	Static		Static		Static	
response.)	Static-renewal		Static-renewal		Static-renewal	
	Flow-through		Flow-through		Flow-through	
Source of Dilution Water	i ion anough					
Indicate the source of dilution water. (Check	Laboratory wate	er	Laboratory wate	er	Laboratory wat	er
one response.)	Receiving water		Receiving water		Receiving wate	
If laboratory water, specify type.	MHSFW		MHSFW			MHSFW
If receiving water, specify source.	NA		NA		NA	
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 ✓ Fresh water ✓ Salt water (specify) ✓ Salt water (specify) 		fy)	✓ Fresh water □ Salt water (speced)	ify)	
Percentage Effluent Used	1					
Specify the percentage effluent used for all concentrations in the test series.		100%		100%		100%
Parameters Tested				1_		
Check the parameters tested.	☐ pH ☐ Salinity ☐ Temperature	Ammonia	□ pH □ Salinity □ Temperature	Ammonia	□ pH □ Salinity □ Temperature	Ammonia
Acute Test Results		1				
Percent survival in 100% effluent		NA %	· · · · · · · · · · · · · · · · · · ·	NA %		NA %
LC50		NA		NA		NA
95% confidence interval		NA %		NA %		NA %
Control percent survival		NA %		NA %		

EPA Identification Number AL 0020206	NPDES Permit Number AL 0020206	Facility N Athens W			Outfall Number 001T	Form Approved 02/06/ OMB No. 2040-00		
TABLE E. EFFLUENT MONITORING FOR								
The table provides response space for one	whole effluent toxicity sam	ple. Copy the table to r	rep	ort additional test results	3.			
	Test Number 1 Test Number 2					Test Num	ber <u>3</u>	
Acute Test Results Continued								
Other (describe)	NA			NA	1.1	NA		
Chronic Test Results			-					
NOEC		failed %		failed %		failed %		
IC ₂₅		0.2238 %		a constant a	0.2238 %	0.2238 %		
Control percent survival		invalid %	6		invalid %		invalid %	
Other (describe)	100% Survival, Fa	iled Reproduction		100% Survival, Failed Reproduction		100% Survival, Failed Reproduction		
Quality Control/Quality Assurance								
Is reference toxicant data available?	Yes	No No		☑ Yes	No No	☑ Yes	No No	
Was reference toxicant test within acceptable bounds?	Ves	No No		☑ Yes	No No	☑ Yes	No No	
What date was reference toxicant test run (MM/DD/YYYY)?	08/06/20	19		08/06/201	9	08/06/201	9	
Other (describe)	8/06 through 8/12/2019			8/06 through 8/12/2019		8/06 through 8/12/2019		

EPA Identification Number	NPDES Permit Number	Facility Nar	me Outfall Number	Form Approved 03/05/19
AL 0020206	AL 0020206	Athens WW	NTP 001T	OMB No. 2040-0004
TABLE E. EFFLUENT MONITORING FOR	R WHOLE EFFLUENT TOXIC	ITY		
The table provides response space for one			port additional test results.	
Test Information	+ 2			
	Test Numbe	er <u>1</u>	Test Number 2	Test Number <u>3</u>
Test species	PImephales F	Promelas	PImephales Promelas	PImephales Promelas
Age at initiation of test	24-36	hrs	24-36 hrs	24-36 hrs
Outfall number	001T	٢	001T	001T
Date sample collected	08/26/2	2019	08/28/2019	08/30/2019
Date test started	08/27/2	2019	08/29/2019	08/31/2019
Duration	7 day	y	7 day	7 day
Toxicity Test Methods				
Test method number	1000.	.0	1000.0	1000.0
Manual title	EPA Methodology (C	Chronic Manual)	EPA Methodology (Chronic Manual)	EPA Methodology (Chronic Manual)
Edition number and year of publication	Fourth Editic	on, 2002	Fourth Edition, 2002	Fourth Edition, 2002
Page number(s)	EPA-821-R-	-02-013	EPA-821-R-02-013	EPA-821-R-02-013
Sample Type				
Check one:	🖾 Grab	I	Grab Grab	Grab Grab
	☑ 24-hour composite	1	24-hour composite	☑ 24-hour composite
Sample Location	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Check one:	Before Disinfection	I	Before Disinfection	Before disinfection
	After Disinfection	I	After Disinfection	After disinfection
	After Dechlorination		After Dechlorination	After dechlorination
Point in Treatment Process				
Describe the point in the treatment process at which the sample was collected for each test.		V. Disinfection prior	Immediately following U.V. Disinfection pr to the Cascade Aerator.	rior Immediately following U.V. Disinfection prior to the Cascade Aerator.
Toxicity Type				
Indicate for each test whether the test was		,	Acute	Acute
performed to asses acute or chronic toxicity or both. (Check one response.)	^{y,} 🗹 Chronic	ł	Chronic	Chronic
	Both		Both	Both

- _

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EPA Identification Number NF AL 0020206	NPDES Permit Number Facility Na AL 0020206 Athens W					Form Approved 03/05/19 OMB No. 2040-0004
TABLE E. EFFLUENT MONITORING FOR W	HOLE EFFLUENT TO	DXICITY				
The table provides response space for one wh	ole effluent toxicity sa	mple. Copy the table to re	port additional test res	sults.		
	Test Nu	Test Number 1 Test Number 2				umber <u>3</u>
Test Type		and the second				a and the second s
Indicate the type of test performed. (Check one response.)	Static-renewal		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 wat	
If laboratory water, specify type.	MHSFW		MHSFW		N	MHSFW
If receiving water, specify source.	NA		NA		NA	
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		a baannaana	1			
Specify the percentage effluent used for all concentrations in the test series.		100%	100%		-	100%
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		NA %	NA %			NA %
LC ₅₀		NA	NA			NA
95% confidence interval		NA %		NA %		NA %
Control percent survival	NA %			NA %		NA %

EPA Identification Number AL 0020206	NPDES Permit Number AL 0020206					Form Approved 02/06/1 OMB No. 2040-000	
TABLE E. EFFLUENT MONITORING FOR							
The table provides response space for one	whole effluent toxicity sam	ple. Copy the table to re	port additional test result	S.			
	Test Num	Test Number 1		ber _2	Test Number <u>3</u>		
Acute Test Results Continued					••••••••••••••••••••••••••••••••••••••		
Other (describe)	NA		NA		NA		
Chronic Test Results							
NOEC		failed %	failed %		failed %		
IC25		0.4587 %	0.4587 %		0.4587 %		
Control percent survival		invalid %		invalid %		invalid %	
Other (describe)	100% Survival, Failed Growth		100% Survival, Failed Growth		100% Survival, Failed Growth		
Quality Control/Quality Assurance					L		
Is reference toxicant data available?	I Yes	No No	I Yes	No No	I Yes	No No	
Was reference toxicant test within acceptable bounds?	☑ Yes	🗆 No	☑ Yes	No No	☑ Yes	No No	
What date was reference toxicant test run (MM/DD/YYYY)?	08/13/2019		08/13/2019		08/13/2019		
Other (describe)	8/13 through 8/20/20:	19	8/13 through 8/20/2019		8/13 through 8/20/2019		

EPA Identification Number N AL 0020206	PDES Permit Number Facility AL 0020206 Athens	Name Outfall Number WWTP 001T	Form Approved 03/05/19 OMB No. 2040-0004	
TABLE E. EFFLUENT MONITORING FOR W	HOLE EFFLUENT TOXICITY			
The table provides response space for one whether the table provides response space for one whether tables are tables and tables are tables and tables are	hole effluent toxicity sample. Copy the table to	o report additional test results.		
Test Information				
	Test Number 1	Test Number 2	Test Number 3	
Test species	Ceriodaphnia Dubia	Ceriodaphnia Dubia	Ceriodaphnia Dubia	
Age at initiation of test	< 24 hrs	< 24 hrs	< 24 hrs	
Outfall number	001T	001T	001T	
Date sample collected	09/23/2019	09/25/2019	09/27/2019	
Date test started	09/24/2019	09/26/2019	09/28/2019	
Duration	7 day 3 brood	7 day 3 brood	7 day 3 brood	
Toxicity Test Methods				
Test method number	1000.2	1000.2	1000.2	
Manual title	EPA Chronic Manual	EPA Chronic Manual	EPA Chronic Manual	
Edition number and year of publication	Fourth Edition, 2002	Fourth Edition, 2002	Fourth Edition, 2002	
Page number(s)	141-151	141-151	141-151	
Sample Type				
Check one:	Grab Grab	Grab Grab	Grab Grab	
	✓ 24-hour composite	☑ 24-hour composite	☑ 24-hour composite	
Sample Location				
Check one:	Before Disinfection	Before Disinfection	Before disinfection	
	After Disinfection	After Disinfection	After disinfection	
	After Dechlorination	After Dechlorination	After dechlorination	
Point in Treatment Process				
Describe the point in the treatment process at which the sample was collected for each test.	Immediately following U.V. Disinfection pri to the Cascade Aerator.	or Immediately following U.V. Disinfection prior to the Cascade Aerator.	Immediately following U.V. Disinfection prior to the Cascade Aerator.	
Toxicity Type			1	
Indicate for each test whether the test was	Acute	Acute	Acute	
performed to asses acute or chronic toxicity, or both. (Check one response.)	Chronic	Chronic	Chronic	
	Both	D Both	D Both	

EPA Identification Number NF AL 0020206	PDES Permit Number AL 0020206	Facility Nat Athens W		Outfall Number 001T		Form Approved 03/05/19 OMB No. 2040-0004
TABLE E. EFFLUENT MONITORING FOR W	HOLE EFFLUENT TO	DXICITY	and the second sec			
The table provides response space for one wh	ole effluent toxicity sa	ample. Copy the table to re	port additional test res	sults.		
	Test Nu	umber <u>1</u>	Test Nu	imber 2	Test N	umber <u>3</u>
Test Type			I		I	
Indicate the type of test performed. (Check one	✓ Static		Static		Static	
response.)	Static-renewal		Static-renewal		Static-renewal	
	Flow-through		Flow-through		Flow-through	
Source of Dilution Water	<u></u>			e men en filmet i mente e ditarit e e incensionen an anna de de illimit		
Indicate the source of dilution water. (Check	☑ Laboratory water		Laboratory wate	er	Laboratory wat	er
one response.)	Receiving water		Receiving water		Receiving wate	
If laboratory water, specify type.		MHSF		MHSF		MHSF
If receiving water, specify source.	NA		NA		NA	
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		 Fresh water Salt water (specify) 		Fresh water	
Percentage Effluent Used						
Specify the percentage effluent used for all concentrations in the test series.		100%	00% 100%		100%	
					-	
Parameters Tested						
Check the parameters tested.	pH Salinity Temperature	Ammonia Dissolved oxygen	☐ pH ☐ Salinity ☐ Temperature	Ammonia Dissolved oxygen	□ pH □ Salinity □ Temperature	Ammonia
Acute Test Results		1	remperature	L		
Percent survival in 100% effluent		NA %		NA %		NA %
LC50		NA	NA			NA
95% confidence interval		NA %		NA %		NA %
Control percent survival	NA %		NA %		NA %	

EPA Identification Number AL 0020206	NPDES Permit Number AL 0020206		Facility Name Outfall Number Athens WWTP 001T		Form Apploved 02/06/1 OMB No. 2040-000	
TABLE E. EFFLUENT MONITORING FOR The table provides response space for one			port additional test result	•		
The table provides response space for one t		ber <u>1</u>	Test Number 2		Test Number <u>3</u>	
Acute Test Results Continued			I			
Other (describe)	NA		NA		NA	
Chronic Test Results			L			
NOEC		100 %	100 %		100 %	
IC25		NA %	NA %		NA %	
Control percent survival		100 %	100 %		90 %	
Other (describe)	NA		NA		NA	
Quality Control/Quality Assurance						
Is reference toxicant data available?	✓ Yes	No No	Yes	No No	I Yes	No No
Was reference toxicant test within acceptable bounds?	✓ Yes	D No	Yes	No No	☑ Yes	[] No
What date was reference toxicant test run (MM/DD/YYYY)?	09/18/2019		09/18/2019		09/18/2019	
Other (describe)	9/18 through 9/25/2019		9/18 through 9/25/2019		9/18 through 9/25/2019	

EPA Identification Number N AL 0020206	PDES Permit Number Facility N AL 0020206 Athens W		Form App: word 02/06/19 OMB No. 2040-0004	
TABLE E. EFFLUENT MONITORING FOR W				
The table provides response space for one wh	nole effluent toxicity sample. Copy the table to r	eport additional test results.		
Test Information				
	Test Number 1	Test Number 2	Test Number 3	
Test species	PImephales Promelas	Pimephales Promelas	PImephales Promelas	
Age at initiation of test	< 24 hrs	< 24 hrs	< 24 hrs	
Outfall number	001T	001T	001T	
Date sample collected	09/23/2019	09/25/2019	09/27/2019	
Date test started	09/24/2019	09/26/2019	09/28/2019	
Duration	7 day	7 day	7 day	
Toxicity Test Methods				
Test method number	1000.0	1000.0	1000.0	
Manual title	EPA Chronic Manual	EPA Chronic Manual	EPA Chronic Manual	
Edition number and year of publication	Fourth Edition, 2002	Fourth Edition, 2002	Fourth Edition, 2002	
Page number(s)	141-151	141-151	141-151	
Sample Type				
Check one:	C] Grab	Grab	Grab	
	24-hour composite	☑ 24-hour composite	24-hour composite	
Sample Location				
Check one:	Before Disinfection	Before Disinfection	Before disinfection	
	After Disinfection	After Disinfection	After disinfection	
	After Dechlorination	After Dechlorination	After dechlorination	
Point in Treatment Process				
Describe the point in the treatment process at which the sample was collected for each test.	Immediately following U.V. Disinfection prior to the Cascade Aerator.	Immediately following U.V. Disinfection prior to the Cascade Aerator.	Immediately following U.V. Disinfection prior to the Cascade Aerator.	
Toxicity Type Indicate for each test whether the test was				
performed to asses acute or chronic toxicity,	Acute	Acute	Acute	
or both. (Check one response.)	Chronic	Chronic	Chronic	
	Both	D Both	Both	

EPA Identification Number NF AL 0020206	NPDES Permit Number Facility Nam AL 0020206 Athens WW				Form Approved 03/05/19 OMB No. 2040-0004	
TABLE E. EFFLUENT MONITORING FOR W						
The table provides response space for one wh	ole effluent toxicity sa	mple. Copy the table to re-	port additional test res	sults.		
	Test Nu	umber _1	Test Nu	imber 2	Test N	umber 3
Test Type			I		I	
Indicate the type of test performed. (Check one response.)	Static		Static		Static	
	Static-renewal		Static-renewal		Static-renewal	
Source of Dilution Water			L How-unough		L rion inough	
Indicate the source of dilution water. (Check one response.)			Laboratory water		Laboratory wat	
If laboratory water, specify type.		MHSF		MHSF		MHSF
If receiving water, specify source.	NA		NA		NA	
Type of Dilution Water	1				I	
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.	100% 100%		100%	100%		
Parameters Tested						
Check the parameters tested.	D			Ammonia	🗖 рН	Ammonia
	□ pH □ Salinity □ Temperature	Ammonia	□ pH □ Salinity □ Temperature	Dissolved oxygen	Salinity	Dissolved oxygen
Acute Test Results		1				1
Percent survival in 100% effluent		NA %		NA %		NA 9
LC ₅₀		NA	NA			NA
95% confidence interval		NA %		NA %		NA
Control percent survival	NA %			NA %		NA 9

EPA Identification Number AL 0020206	NPDES Permit Number AL 0020206	Facility Nar Athens WV		Outfall Number 001T		Form Approved 03/05/19 OMB No. 2040-0004	
TABLE E. EFFLUENT MONITORING FOR							
The table provides response space for one	e whole effluent toxicity sample	ple. Copy the table to re	port additional test result	S.			
	Test Num	ber <u>1</u>	Test Num	ber _2	Test Num	ber <u>3</u>	
Acute Test Results Continued			1				
Other (describe)	NA		NA		NA		
Chronic Test Results							
NOEC		100 %	100 %		100 %		
IC ₂₅		NA %	NA %		NA %		
Control percent survival		100 %	100 %		97.5 %		
Other (describe)	N	NA		NA		NA	
Quality Control/Quality Assurance			L				
Is reference toxicant data available?	Yes	No No	✓ Yes	No No	I Yes	No No	
Was reference toxicant test within acceptable bounds?	🗹 Yes	No No	☑ Yes	D No	✓ Yes	🗆 No	
What date was reference toxicant test run (MM/DD/YYYY)?	09/18/20	09/18/2019		09/18/2019		09/18/2019	
Other (describe)	9/18 through 9/25/2019		9/18 through 9/25/2019		9/18 through 9/25/2019		

EPA Identification Number N AL 0020206		Name Outfall Number WWTP 001T	Form Approved 03/05/19 OMB No. 2040-0004	
TABLE E. EFFLUENT MONITORING FOR W				
The table provides response space for one w	hole effluent toxicity sample. Copy the table to	o report additional test results.		
Test Information				
	Test Number 1	Test Number 2	Test Number <u>3</u>	
Test species	Ceriodaphnia Dubia	Ceriodaphnia Dubia	Ceriodaphnia Dubia	
Age at initiation of test	< 24 hrs	< 24 hrs	< 24 hrs	
Outfall number	001T	001T	001T	
Date sample collected	09/30/2019	10/02/2019	10/04/2019	
Date test started	10/01/2019	10/03/2019	10/05/2019	
Duration	7 day 3 brood	7 day 3 brood	7 day 3 brood	
Toxicity Test Methods	· · · · · · · · · · · · · · · · · · ·			
Test method number	1000.2	1000.2	1000.2	
Manual title	EPA Chronic Manual	EPA Chronic Manual	EPA Chronic Manual	
Edition number and year of publication	Fourth Edition, 2002	Fourth Edition, 2002	Fourth Edition, 2002	
Page number(s)	141-151	141-151	141-151	
Sample Type				
Check one:	Grab Grab	Grab Grab	Grab Grab	
100000000000000000000000000000000000000	✓ 24-hour composite	✓ 24-hour composite	✓ 24-hour composite	
Sample Location				
Check one:	Before Disinfection	Before Disinfection	Before disinfection	
	After Disinfection	After Disinfection	After disinfection	
	After Dechlorination	After Dechlorination	After dechlorination	
Point in Treatment Process				
Describe the point in the treatment process at which the sample was collected for each test.	Immediately following U.V. Disinfection proto to the Cascade Aerator.	or Immediately following U.V. Disinfection prior to the Cascade Aerator.	Immediately following U.V. Disinfection prior to the Cascade Aerator.	
Toxicity Type			I	
Indicate for each test whether the test was	Acute	Acute	Acute	
performed to asses acute or chronic toxicity, or both. (Check one response.)	Chronic	Chronic	Chronic	
	D Both	D Both	D Both	

EPA Identification Number Ni AL 0020206	IPDES Permit Number Facility N AL 0020206 Athens W				Form Approved 03/05/19 OMB No. 2040-0004	
TABLE E. EFFLUENT MONITORING FOR W	HOLE EFFLUENT TO	YTINXC				
The table provides response space for one when	ole effluent toxicity sa	ample. Copy the table to re	port additional test res	sults.		
	Test No	umber _1	Test Nu	imber 2	Test N	umber <u>3</u>
Test Type		nin her men an der her her der eine der eine die eine der	I	ky dina ya waka walita wana shakasa wawana wanana aka saka ha	1,	
Indicate the type of test performed. (Check one	Static		Static		Static	
response.)	Static-renewal		Static-renewal		Static-renewal	
	Flow-through		Flow-through		Flow-through	
Source of Dilution Water	La rion anoug.				- rion anough	
Indicate the source of dilution water. (Check	Laboratory wate	er	☑ Laboratory water		Laboratory wat	er
one response.)	Receiving water		Receiving wate		Receiving wate	
If laboratory water, specify type.		MHSF		MHSF		MHSF
If receiving water, specify source.	NA		NA		NA	
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.		100%		100%		100%
Parameters Tested						
Check the parameters tested.	🗆 рН	Ammonia	🗆 рН	Ammonia	🗆 рН	Ammonia
	Salinity	Dissolved oxygen	Salinity	Dissolved oxygen	Salinity	Dissolved oxygen
Acute Test Results	- romportation o		L romporatoro		- romporataro	
Percent survival in 100% effluent		NA %		NA %		NA %
LC50		NA		NA		NA
95% confidence interval		NA %		NA %		NA %
Control percent survival		NA %		NA %		

EPA Identification Number AL 0020206	PDES Permit Number Facility Name Outfall Number AL 0020206 Athens WWTP 001T			Form Approved 02/05/19 OMB No. 2040-0004			
TABLE E. EFFLUENT MONITORING FOR			CARL CALL				
The table provides response space for one v	whole effluent toxicity sam	ple. Copy the table to re	port additional test result	S.			
	Test Num	iber <u>1</u>	Test Num	Test Number 3			
Acute Test Results Continued			And the second	in sellet dink op er syn er som er en sellet er er som			
Other (describe)	NA		NA		NA		
Chronic Test Results					-		
NOEC		100 %		100 %	100 %		
IC25		NA %		NA %	NA %		
Control percent survival		100 %		100 %	90 %		
Other (describe)	N	A	NA		NA		
Quality Control/Quality Assurance							
Is reference toxicant data available?	✓ Yes	No No	✓ Yes	🗆 No	☑ Yes	No No	
Was reference toxicant test within acceptable bounds?	☑ Yes	No	☑ Yes	D No	✓ Yes	No No	
What date was reference toxicant test run (MM/DD/YYYY)?	10/22/20	19	10/22/2019		10/22/2019		
Other (describe)	10/22 through 10/29/2	10/22 through 10/29/2019 10,		10/22 through 10/29/2019		10/22 through 10/29/2019	

EPA Identification Number N AL 0020206	PDES Permit Number Facility Na AL 0020206 Athens W		Form Approved 03/05/19 OMB No. 2040-0004	
TABLE E. EFFLUENT MONITORING FOR W				
The table provides response space for one w	nole effluent toxicity sample. Copy the table to re	eport additional test results.		
Test Information				
	Test Number 1	Test Number 2	Test Number <u>3</u>	
Test species	Pimephalus Promelas	Pimephalus Promelas	Pimephalus Promelas	
Age at initiation of test	< 24 hrs	< 24 hrs	< 24 hrs	
Outfall number	001T	001T	001T	
Date sample collected	09/30/2019	10/02/2019	10/04/2019	
Date test started	10/01/2019	10/03/2019	10/05/2019	
Duration	7 day	7 day	7 day	
Toxicity Test Methods				
Test method number	1000.0	1000.2	1000.0	
Manual title	EPA Chronic Manual	EPA Chronic Manual	EPA Chronic Manual	
Edition number and year of publication	Fourth Edition, 2002	Fourth Edition, 2002	Fourth Edition, 2002	
Page number(s)	141-151	141-151	141-151	
Sample Type				
Check one:	Grab Grab	Grab Grab	Grab Grab	
	24-hour composite	✓ 24-hour composite	✓ 24-hour composite	
Sample Location				
Check one:	Before Disinfection	Before Disinfection	Before disinfection	
	After Disinfection	After Disinfection	After disinfection	
	After Dechlorination	After Dechlorination	After dechlorination	
Point in Treatment Process				
Describe the point in the treatment process at which the sample was collected for each test.	Immediately following U.V. Disinfection prior to the Cascade Aerator.	Immediately following U.V. Disinfection prior to the Cascade Aerator.	Immediately following U.V. Disinfection prio to the Cascade Aerator.	
Toxicity Ty/pe				
Indicate for each test whether the test was performed to asses acute or chronic toxicity,	Acute		Acute	
or both. (Check one response.)	Chronic Chronic	Chronic	Chronic	
, , , , , , , , , , , , , , , , , , , ,	Bcth	Both	Both	

EPA Identification Number NI AL 0020206	PDES Permit Number AL 0020206	AL 0020206 Athens W				Form Approved 03/05/19 OMB No. 2040-0004	
TABLE E. EFFLUENT MONITORING FOR W	HOLE EFFLUENT TO	DXICITY					
The table provides response space for one wh	nole effluent toxicity sa	ample. Copy the table to re	port additional test res	sults.			
	Test Nu	umber 1	Test Nu	imber 2	Test N	umber <u>3</u>	
Test Type			L		1		
Indicate the type of test performed. (Check one	Static		Static		Static		
response.)	Static-renewal		Static-renewal		Static-renewal		
	Flow-through		Flow-through		Flow-through		
Source of Dilution Water	<u></u>						
Indicate the source of dilution water. (Check	Laboratory wate	er	Laboratory water		Laboratory wat	er	
one response.)					Receiving wate		
If laboratory water, specify type.		MHSF	Receiving water	MHSF		MHSF	
If receiving water, specify source.	NA		NA		NA		
Type of Dilution Water			1				
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		100 Percent		Tenter and tenter	L		
Specify the percentage effluent used for all concentrations in the test series.		100%		100%		100%	
Parameters Tested			I		L		
Check the parameters tested.	□ pH □ Salinity □ Temperature	Ammonia	□ pH □ Salinity □ Temperature	Ammonia	□ pH □ Salinity □ Temperature	Ammonia	
Acute Test Results					- Temperature	1	
Percent survival in 100% effluent		NA %		NA %		NA %	
LC ₅₀		NA		NA		NA	
95% confidence interval		NA %		NA %		NA %	
Control percent survival		NA %		NA %	NA %		

EPA Identification Number AL 0020206	NPDES Permit Number AL 0020206	Facility Nar Athens WV		Outfall Number 001T		Form Approved 03/05/19 OMB No. 2040-0004	
TABLE E. EFFLUENT MONITORING FOR							
The table provides response space for one							
	Test Nun	nber	Test Num	ber	Test Num	ber <u>3</u>	
Acute Test Results Continued							
Other (describe)	NA		NA		NA		
Chronic Test Results							
NOEC		100 %		100 %	100 %		
IC25		NA %		NA %		NA %	
Control percent survival		100 %		100 %	90 %		
Other (describe)	,	NA	NA		NA		
Quality Control/Quality Assurance			1				
Is reference toxicant data available?	✓ Yes	No No	☑ Yes	D No	☑ Yes	No No	
Was reference toxicant test within acceptable bounds?	☑ Yes	D No	Yes	D No	Yes	D No	
What date was reference toxicant test run (MM/DD/YYYY)?	10/22/20	019	10/22/201	.9	10/22/2019		
Other (describe)	10/22 through 10/29/	10/22 through 10/29/2019		10/22 through 10/29/2019		10/22 through 10/29/2019	

EPA Identification Number N AL 0020206	PDES Permit Number Facility I AL 0020206 Athens V		Form Approved 03/05/19 OMB No. 2040-0004	
TABLE E. EFFLUENT MONITORING FOR W				
The table provides response space for one w	hole effluent toxicity sample. Copy the table to	report additional test results.		
Test Information				
	Test Number 1	Test Number 2	Test Number <u>3</u>	
Test species	Ceriodaphnia Dubia	Ceriodaphnia Dubia	Ceriodaphnia Dubia	
Age at initiation of test	< 24 hrs	< 24 hrs	< 24 hrs	
Outfall number	001T	001T	001T	
Date sample collected	08/10/2020	08/12/2020	08/14/2020	
Date test started	08/11/2020	08/13/2020	08/15/2020	
Duration	7 day 3 Brood	7 day 3 Brood	7 day 3 Brood	
Toxicity Test Methods				
Test method number	1000.2	1000.2	1000.2	
Manual title	EPA Chronic Manual	EPA Chronic Manual	EPA Chronic Manual	
Edition number and year of publication	Fourth Edition, 2002	Fourth Edition, 2002	Fourth Edition, 2002	
Page number(s)	141-151	141-151	141-151	
Sample Type				
Check one:	Grab Grab	Grab Grab	Grab Grab	
	☑ 24-hour composite	☑ 24-hour composite	☑ 24-hour composite	
Sample Location				
Check one:	Before Disinfection	Before Disinfection	Before disinfection	
	After Disinfection	After Disinfection	After disinfection	
	After Dechlorination	After Dechlorination	After dechlorination	
Point in Treatment Process				
Describe the point in the treatment process at which the sample was collected for each test.	Immediately following U.V. Disinfection pric to the Cascade Aerator.	r Immediately following U.V. Disinfection prior to the Cascade Aerator.	Immediately following U.V. Disinfection prior to the Cascade Aerator.	
Toxicity Type		1		
Indicate for each test whether the test was	Acute	Acute	Acute	
performed to asses acute or chronic toxicity, or both. (Check one response.)	Chronic	Chronic	Chronic	
	D Both	D Both	D Both	

EPA Identification Number NF AL 0020206	IPDES Permit Number Facility N AL 0020206 Athens W				Form Approved 03/05/19 OMB No. 2040-0004	
TABLE E. EFFLUENT MONITORING FOR W						
The table provides response space for one wh	ole effluent toxicity sa	ample. Copy the table to re	port additional test res	sults.		
	Test No	umber <u>1</u>	Test Nu	umber 2	Test N	umber 3
Test Type	L					
Indicate the type of test performed. (Check one response.)	Static		Static		Static	
response.)	Static-renewal		Static-renewal		Static-renewal	
	Flow-through		Flow-through		Flow-through	
Source of Dilution Water			· · · · · ·			
Indicate the source of dilution water. (Check	Laboratory wat	er	Laboratory wate	er	Laboratory wat	ter
one response.)					Receiving wate	
If laboratory water, specify type.		MHSF	Receiving wate	MHSF		MHSF
If receiving water, specify source.	NA		NA		NA	
Type of Dilution Water	I					· · · · · · · · · · · · · · · · · · ·
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.		100%		100%		100%
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		I manage and the second s				1
Percent survival in 100% effluent		NA %		NA %		NA %
LC50		NA		NA	-	NA
95% confidence interval		NA %		NA %		NA %
Control percent survival		NA %		NA %	6 NA 9	

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EPA Identification Number AL 0020206	NPDES Permit Number Facility Name Outfall Number AL 0020206 Athens WWTP 001T			Form Approved 03/05/19 OMB No. 2040-0004			
TABLE E. EFFLUENT MONITORING FOR The table provides response space for one			nort additional test result	c C			
The table provides response space for one		ber <u>1</u>	Test Num		Test Num	ber <u>3</u>	
Acute Test Results Continued					I		
Other (describe)	NA		NA		NA		
Chronic Test Results							
NOEC		100 %		100 %	100 %		
IC ₂₅		NA %		NA %	NA %		
Control percent survival		100 %		100 %		100 %	
Other (describe)	Ν	IA	NA		NA		
Quality Control/Quality Assurance							
Is reference toxicant data available?	Yes	No No	✓ Yes	No No	☑ Yes	D No	
Was reference toxicant test within acceptable bounds?	☑ Yes	No No	☑ Yes	D No	☑ Yes	No No	
What date was reference toxicant test run (MM/DD/YYYY)?	08/18/20	20	08/18/2020		08/18/2020		
Other (describe)	8/18 through 8/25/202	8/18 through 8/25/2020 8		8/18 through 8/25/2020		8/18 through 8/25/2020	

EPA Identification Number N AL 0020206	PDES Permit Number Facility N AL 0020206 Athens W		Form Approved 03/05/19 OMB No. 2040-0004	
TABLE E. EFFLUENT MONITORING FOR W				
The table provides response space for one w	nole effluent toxicity sample. Copy the table to r	eport additional test results.		
Test Information				
	Test Number 1	Test Number 2	Test Number 3	
Test species	Pimephalus Promelas	Pimephalus Promelas	Pimephalus Promelas	
Age at initiation of test	< 24 hrs	< 24 hrs	< 24 hrs	
Outfall number	001T	001T	001T	
Date sample collected	08/10/2020	08/12/2020	08/14/2020	
Date test started	08/11/2020	08/13/2020	08/15/2020	
Duration	7 day	7 day	7 day	
Toxicity Test Methods				
Test method number	1000.0	1000.2	1000.0	
Manual title	EPA Chronic Manual	EPA Chronic Manual	EPA Chronic Manual	
Edition number and year of publication	Fourth Edition, 2002	Fourth Edition, 2002	Fourth Edition, 2002	
Page number(s)	141-151	141-151	141-151	
Sample Type				
Check one:	Grab Grab	Grab Grab	Grab Grab	
	24-hour composite	☑ 24-hour composite	24-hour composite	
Sample Location				
Check one:	Before Disinfection	Before Disinfection	Before disinfection	
	After Disinfection	After Disinfection	After disinfection	
	After Dechlorination	After Dechlorination	After dechlorination	
Point in Treatment Process				
Describe the point in the treatment process at which the sample was collected for each test.	Immediately following U.V. Disinfection prior to the Cascade Aerator.	Immediately following U.V. Disinfection prior to the Cascade Aerator.	Immediately following U.V. Disinfection prior to the Cascade Aerator.	
Toxicity Type	1			
Indicate for each test whether the test was performed to asses acute or chronic toxicity,	Acute	Acute	Acute	
or both. (Check one response.)	Chronic	Chronic Chronic	Chronic	
	Both	Both	D Both	

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EPA Identification Number NF AL 0020206	NPDES Permit Number Facility Na AL 0020206 Athens W				Form Approved 03/05/19 OMB No. 2040-0004		
TABLE E. EFFLUENT MONITORING FOR W							
The table provides response space for one wh	ole effluent toxicity sa	mple. Copy the table to re	port additional test res	sults.			
	Test Nu	umber _1	Test Nu	imber 2	Test N	umber <u>3</u>	
Test Type			1		and a second		
Indicate the type of test performed. (Check one	Static		Static		Static		
response.)	Static-renewal		Static-renewal		Static-renewal		
	Flow-through		Flow-through		Flow-through		
Source of Dilution Water							
Indicate the source of dilution water. (Check	Laboratory wate	er	Laboratory wate	er	Laboratory wat	er	
one response.)		Receiving water		r	Receiving wate	er	
If laboratory water, specify type.		MHSF		MHSF		MHSF	
If receiving water, specify source.	NA		NA		NA		
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.		100%		100%		100%	
Parameters Tested			L				
Check the parameters tested.	D pH Salinity Temperature	E Ammonia E Dissolved oxygen	□ pH □ Salinity □ Temperature	Ammonia Dissolved oxygen	pH Salinity Temperature	Ammonia Dissolved oxygen	
Acute Test Results		1					
Percent survival in 100% effluent		NA %		NA %		NA %	
LC50		NA		NA		NA	
95% confidence interval		NA %		NA %		NA %	
Control percent survival		NA %		NA %	NA %		

EPA Identification Number AL 0020206	NPDES Permit Number AL 0020206				Form Approved 03/05/19 OMB No. 2040-0004		
TABLE E. EFFLUENT MONITORING FO							
The table provides response space for on	e whole effluent toxicity sam	ple. Copy the table to re	port additional test result	S.			
	Test Num	ber <u>1</u>	Test Num	ber_2	Test Num	ber <u>3</u>	
Acute Test Results Continued							
Other (describe)	NA		NA		NA		
Chronic Test Results							
NOEC		100 %		100 %		97.5 %	
IC25		NA %		NA %	NA %		
Control percent survival		100 %		100 %	100 %		
Other (describe)	Ν	A	NA		NA		
Quality Control/Quality Assurance			1				
Is reference toxicant data available?	☑ Yes	No No	☑ Yes	No No	☑ Yes	No No	
Was reference toxicant test within acceptable bounds?	Yes	No No	☑ Yes	No No	Yes	No No	
What date was reference toxicant test run (MM/DD/YYYY)?	08/18/20	20	08/18/2020		08/18/2020		
Other (describe)	8/18 through 8/25/203			8/18 through 8/25/2020		8/18 through 8/25/2020	

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EPA Identification Number AL 0020206	NPDES Permit Number AL 0020206		Facility Name Athens WWTP				Form Approved 03/05/ OMB No. 2040-00		
TABLE F. INDUSTRIAL DISCHARGE INFORMA				3238 3					
Response space is provided for three SIUs. Copy	the table to report informat	tion for additional SIUs							
	SIU	<u>1</u>	SIU			SIU	3		
Name of SIU	American Leakless		Cast Products Incorpo	rated		Federal Mogul			
Mailing address (street or P.O. box)	136 Roy Long Road		18676 North Jeffersor	Street		1500 Freeman Avenue	e		
City, state, and ZIP code	Athens, AL 35611		Athens, AL 35612			Athens, AL 35613			
Description of all industrial processes that affect or contribute to the discharge.	Process wastewaters as coating operations			Process wastewaters associated with aluminum casting operations		Wastewater associated with the manufacture of automotive parts			
List the principal products and raw materials that affect or contribute to the SIU's discharge.	The products that affect stainless and cold-rolled raw materials being coat	steel, which are the	(AL356:1) Ingot Aluminum used for sand mold casting of OEM parts for marine, utility truck, trailer, emergency vehicle, and similar industrie.			Manufacturing of automotive and heavy engine gaskets and seals to include metal finishing and Zinc Phosphate Coating			
Indicate the average daily volume of wastewater discharged by the SIU.		6353 gpd		4924	gpd		62000	gpd	
How much of the average daily volume is attributable to process flow?		3000 gpd		2000	gpd		57000	gpd	
How much of the average daily volume is attributable to non-process flow?		3353 gpd		2924	gpd		5000	gpd	
Is the SIU subject to local limits?	Ves Yes	🗆 No	🗹 Yes	No No		년 Yes	🗆 No		
Is the SIU subject to categorical standards?	⊡ Yes	🗋 No	Ves	□ No		🖌 Yes	🗆 No		

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EPA Identification Number AL 0020206	NPDES Permit Number AL 0020206	Facility Name Athens WWTP	Form Approved 03/05/19 OMB No. 2040-0004
TABLE F. INDUSTRIAL DISCHARGE INFORMAT			and the second
Response space is provided for three SIUs. Copy t	ne table to report information for additional SIUs	<u>.</u>	
	SIU_1	SIU_2	SIU_3
Under what categories and subcategories is the SIU subject?	40 CFR 465 Subpart A – Steel Basis Material Subcategory Pretreatment Standards for New Sources (PSNS)	40 CFR Part 464.16 A - Aluminum Casting Subcategory PSNS	40 CFR Part 433.15 Metal Finishing (PSES)
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 INO
		RECEIVED OCT 3 1 2022 MUNICIPAL SECTION	

EPA Identification Number AL 0020206	NPDES Permit Number AL 0020206	Facility Name Athens WWTP				Form Approved OMB No. 2		
TABLEF INDUSTRIAL DISCHARGEINFORMAT					ζwγ ²			1232
Response space is provided for three SIUs. Copy t	CANCER THE FREE DATASE STOP MAL MAD.	itional SIUs.	and the second sec		19 T 20 1	Maria Mar		
	<u>SIU 4</u>		SIU	5		SIU		an a
Name of SIU	Indorama	ndorama Steelcase						
Mailing address (street or P.O. box)	1764 Wilkinson Street		214 Durham Drive					
City, state, and ZIP code	Athens, AL 35611	and a second	Athens, AL 35611					
Description of all industrial processes that affect or contribute to the discharge.	Process wastewaters associated wi production of polyethelene tereph (PET) flakes and pellets		Industrial wastewater finishing from operatio	-	metal			
List the principal products and raw materials that affect or contribute to the SIU's discharge.	The products that affect the wastewater are plastic chips and settleable plastics from ground drink bottles and etc.		The principle materials are sheet metal and coiled steel. Using more aluminum than in the past but still trying to grow that product line, a little galvanized steel, and mild detergent.		n v that			
Indicate the average daily volume of wastewater discharged by the SIU.	12	28000 gpd	62739 gpd			allana ar an birnean an a	gpd	
How much of the average daily volume is attributable to process flow?	7	74518 gpd		21000	gpd		1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -	gpd
How much of the average daily volume is attributable to non-process flow?	5	3482 gpd		41739	gpd			gpd
is the SIU subject to local limits?	🗹 Yes 🗌 No		✓ Yes	□ No		⊮ Yes	□ No	
s the SIU subject to categorical standards?	Yes IN No		🛛 Yes	□ No		Ves	□ No	
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MUNICIPAL SECTION

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EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
AL 0020206	AL 0020206	Athens WWTP	CIME NO. 2040-0004
TABLE F. INDUSTRIAL DISCHARGE INFORM			
Response space is provided for three SIUs. Co	py the table to report information for additio		
	SIU_4	SIU_5	SIU
Under what categories and subcategories is the SIU subject?	N/A	40 CFR Part 433.15 Metal Finishing F	>SES
Has the POTW experienced problems (e.g., upsets, pass-through interferences) in the past years that are attributable to the SIU?	4.5 🗹 Yes 🗋 No	Yes 🔽 No	Yes 🗍 No
If yes, describe.	We have received small floating plasti particles that pass through our screen systems, get into scum pits at the clari and cause issues with our treatment b so. We also have received settling plastics clog our grit removal systems, premat fill our dumpsters, and make a mess if pass through to the aeration systems.	ing ifiers, by doing s that urely they	
RECEIVED OCT 31 2022 MUNICIPAL SECTION			

June 02, 2022

Tim Norman Athens WWTP PO Box 1089 Athens, AL 35611

We appreciate the opportunity to provide our services to you on this project. Please find attached the data for the sample(s) listed below:

Lab ID	Sample Description	Date Collected	Date Submitted
DC04238-01	Effluent Grab Outfall 0011	05/25/2022	05/25/2022

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If you have any questions or would like more information regarding these analyses, please call our Decatur facility at (256) 280-2567 or our Florence facility at (256) 740-5532.

& hargant Aiken

Margaret Aiken Project Manager

Reviewed by:

3103 Northington Court Florence, AL 35630 (256) 740-5532 PO Box 487 Florence, AL 35630 (256) 740-5529 Fax 2919 Fairgrounds Road SW Decatur, AL 35603 (256) 280-2567 PO Box 2084 Decatur, AL 35602 (256) 350-0686 Fax



Report Date/Time: 06/02/2022 09:58

'im Norman	nvironmental Testing.
thens WWTP	
O Box 1089	
thens, AL 35611	
thens, AL 35611	

Analyte Name		Result	Units	Qualifer	Regulatory Limit
Sample Point: Effluent Grab Outfall 0	Sample ID: DC04238-01	Collected:	05/25/2022	Submitted:	05/25/2022
Inorganics					
Available Cyanide		< 0.00200	mg/l		

3103 Northington Court	PO Box 487	2919 Fairgrounds Road SW	PO Box 2084
Florence, AL 35630	Florence, AL 35630	Decatur, AL 35603	Decatur, AL 35602
(256) 740-5532	(256) 740-5529 Fax	(256) 280-2567	(256) 350-0686 Fax
The contents of this report apply to the sample(s) analyzed is	n accordance with the chain of custo	dy document. Results are only representative o	f the

T sample(s) received and information supplied by the client may affect the validity of results. No duplication of this report is allowed, except in its entirety.



Report Date/Time: 06/02/2022 09:58

REPORT TO	This report may contain information that is confidential and/or proprietary. This information is intended for the addressee only and may not be copied or disseminated except in full without the written consent of Southern Environmental Testing.
Tim Norman Athens WWTP	
PO Box 1089 Athens, AL 35611	

All calculations are performed prior to rounding per EPA and *Standard Methods* requirements. Calibration data for field analyses conducted by SET or *ENERSOLV* personnel are available upon request.

Data Qualifiers

< Less than reporting limit

Analysis Information

Lab Number	Analysis	Referenced Method	Analyst	SET Facility	Collectio Date/Tin		Analysis Start Date/Time	Analysis End Date/Time (BOD, CBOD, Coliforms)
DC04238-01	Available Cyanide	OIA-1677-09	SH	Decatur	05/25/2022	10:05	05/27/2022 09:30	

3103 Northington Court Florence, AL 35630		2919 Fairgrounds Road SW Decatur, AL 35603	PO Box 2084 Decatur, AL 35602				
(256) 740-5532	(256) 740-5529 Fax	(256) 280-2567	(256) 350-0686 Fax				
The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document. Results are only representative of the							
sample(s) received and information supplied by the client may affect the validity of results. No duplication of this report is allowed, except in its entirety.							

Page 3 of 4



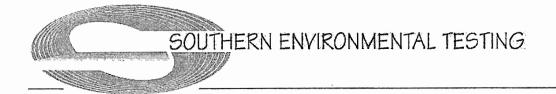
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SOUTHERN ENVIRONMENTAL TESTING ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD 2919 FAIRGROUND ROAD SW, DECATUR, AL 35603 3103 NORTHINGTON COURT, FLORENCE, AL 35630 (255) 250,0946

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PAGE	1	of	1		
Special Testing					

(256) 350-0846 www.setestin	ig.com
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Athens WWTP		1		76776								-		P	FOI	IEST	FD	ANÁ		FS		· .
CLIENT POINT OF CONTACT			IENT PHYS	CALADDRESS			CITY/STA	TE/ZIP														
Tim Norman		P	O Box 10)89	Athens AL 35611																	
CLIENT EMAIL		PI	IONE NUMB	ER OTHER	INFORM	ATION																
tnorman@athens-util	ities.com	2	56-233-8	774																		
SAMPLE COLLECTED BY	Υ				PEDITED REPORT DELIVERY (SURCHARGE)							1										
Virgil White Vingt	1.M.t.			DATE DUE	(REQUI	RED)																
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SAMPLER INFO		500H+B		500-016		+500-0				1		60ml	_ Ambe	r Glas	s NaC	ЭН	_			CN	-A	
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June 15, 2022

Tim Norman Athens WWTP PO Box 1089 Athens, AL 35611

We appreciate the opportunity to provide our services to you on this project. Please find attached the data for the sample(s) listed below:

Lab ID	Sample Description	Date Collected	Date Submitted
DC04651-01	Effluent Grab Outfail 0011	06/08/2022	06/08/2022

This cover page and the attached chain-of-custody record(s) are integral parts of your report. Southern Environmental Testing considers this report your official record. This information shall remain in Southern Environmental Testing's active database for a period of one (1) calendar year before archiving. Any replacement of this information after archiving may result in an administrative fee to cover the cost of retrieval.

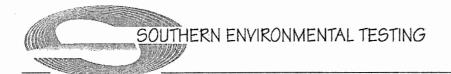
If you have any questions or would like more information regarding these analyses, please call our Decatur facility at (256) 280-2567 or our Florence facility at (256) 740-5532.

Wih

Jimmy Wilson Vice President Lab Operations

Reviewed by:

3103 Northington Court Florence, AL 35630 (256) 740-5532 PO Box 487 Florence, AL 35630 (256) 740-5529 Fax 2919 Fairgrounds Road SW Decatur, AL 35603 (256) 280-2567 PO Box 2084 Decatur, AL 35602 (256) 350-0686 Fax



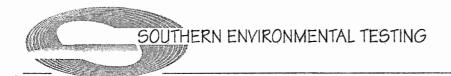
Report Date/Time: 06/15/2022 11:45

REPORT TO	This report may contain information that is confidential and/or proprietary. This information is intended for the addressee only and may not be copied or disseminated except in full without the written consent of Southern
	Environmental Testing.
Tim Norman	
Athens WWTP	
PO Box 1089	
Athens, AL 35611	

Analyte Name		Result	Units	Qualifer	Regulatory Limit
Sample Point: Effluent Grab Outfall 0	Sample ID: DC04651-01	Collected:	06/08/2022	Submitted:	06/08/2022
Inorganics			,		
Available Cyanide		< 0.00200	mg/l		

PO Box 487 2919 Fairgrounds Road SW PO Box 2084 3103 Northington Court Florence, AL 35630 Florence, AL 35630 Decatur, AL 35603 Decatur, AL 35602 (256) 280-2567 (256) 350-0686 Fax (256) 740-5532 (256) 740-5529 Fax The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document. Results are only representative of the

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Report Date/Time: 06/15/2022 11:45

REPOR	тто	This report may contain information that is confidential and/or proprietary. This information is intended for the addressee only and may not be copied or disseminated except in full without the written consent of Southern Environmental Testing.
Tim Norman		
Athens WWTP		
PO Box 1089		
Athens, AL 35611		
	-	

All calculations are performed prior to rounding per EPA and *Standard Methods* requirements. Calibration data for field analyses conducted by SET or *ENERSOLV* personnel are available upon request.

Data Qualifiers

< Less than reporting limit

Analysis Information

Lab Number	Analysis	Referenced Method	Analyst SET Facility		Collection Date/Tim		Analysis Start Date/Time	Analysis End Date/Time (BOD, CBOD, Coliforms)
DC04651-01	Available Cyanide	OIA-1677-09	SH	Decatur	06/08/2022	10:32	06/14/2022 10:40	

3103 Northington Court	PO Box 487	2919 Fairgrounds Road SW	PO Box 2084
Florence, AL 35630	Florence, AL 35630	Decatur, AL 35603	Decatur, AL 35602
(256) 740-5532	(256) 740-5529 Fax	(256) 280-2567	(256) 350-0686 Fax
The contents of this report apply to the sample(s) analyzed in	accordance with the chain of custo	dy document. Results are only representative o	f the

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SOUTHERN ENVIRONMENTAL TESTING ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD 2919 FAIRGROUND ROAD SW, DECATUR, AL 35603 3103 NORTHINGTON COURT, FLORENCE, AL 35630 (25 om

PAGE	1	of	1
Special	Testi	ng	1

) 350-0846	www.setesting.co
T	ENERSOLV PROJE	CT NUMBER

COMPANY/CLIENT NAME		CLIENT P.O. NUMBER			V PROJECT NUMBER	1			r								
Athens WWTP 71677Le						REQUESTED ANALYSES											
CLIENT POINT OF CONTACT		CLIENT PHYSICAL ADDRESS C			CITY/STATE/ZIP					TT		Γ			T	T	
Tim Norman					AL 35611												
CLIENT EMAIL		PHONE NUMBER	OTHER INFORMATIO	N													
tnorman@athens-utiliti																	
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SET LAB NUMBER SAMPLE DESCRIPTION			TRAN	SAMPLE ISFER/GRAB DATE	SAMPLE TRANSFER/GRAB TIME	1	COMP	CN-A									
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Start Date		pH su		TRC mg/l		DO mg/i		Temp deg C							
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June 30, 2022

Tim Norman Athens WWTP PO Box 1089 Athens, AL 35611

We appreciate the opportunity to provide our services to you on this project. Please find attached the data for the sample(s) listed below:

Lab ID	Sample Description	Date Collected	Date Submitted
DC05071-01	Effluent Grab Outfall 0011	06/22/2022	06/22/2022

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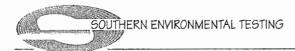
If you have any questions or would like more information regarding these analyses, please call our Decatur facility at (256) 280-2567 or our Florence facility at (256) 740-5532.

& hargan Aiken

Margaret Aiken Project Manager

Reviewed by:

3103 Northington Court Florence, AL 35630 (256) 740-5532 PO Box 487 Florence, AL 35630 (256) 740-5529 Fax 2919 Fairgrounds Road SW Decatur, AL 35603 (256) 280-2567 PO Box 2084 Decatur, AL 35602 (256) 350-0686 Fax



Report Date/Time: 06/30/2022 10:05

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	Environmental Testing.
Tim Norman	
Athens WWTP	
PO Box 1089	
Athens, AL 35611	

Analyte Name		Result	Units	Qualifer	Regulatory Limit
Sample Point: Effluent Grab Outfall 0	Sample ID: DC05071-01	Collected:	06/22/2022	Submitted:	06/22/2022
Inorganics					
Available Cvanide		< 0.00200	mg/l		

mg/l

Available Cyanide

PO Box 487 2919 Fairgrounds Road SW PO Box 2084 **3103 Northington Court** Florence, AL 35630 Decatur, AL 35603 Decatur, AL 35602 Florence, AL 35630 (256) 740-5529 Fax (256) 350-0686 Fax (256) 740-5532 (256) 280-2567 The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document. Results are only representative of the

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Report Date/Time: 06/30/2022 10:05

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Tim Norman Athens WWTP PO Box 1089 Athens, AL 35611	

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Data Qualifiers

M Sample matrix precluded reliable matrix spike/matrix spike duplicate recovery and/or precision. Non-homogeneity of sample or presence of interfering substances may result in spike recoveries outside acceptance limits.

< Less than reporting limit

Analysis Information

Lab Number	Analysis	Referenced Method	Analyst	SET Facility	Collectio Date/Tir		Analysis Start Date/Time	Analysis End Date/Time (BOD, CBOD, Coliforms)
DC05071-01	Available Cvanide	OIA-1677-09	LLW	Decatur	06/22/2022	08:35	06/23/2022 10:30	

3103 Northington Court Florence, AL 35630 (256) 740-5532		Decatur, AL 35603	PO Box 2084 Decatur, AL 35602 (256) 350-0686 Fax					
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SOUTHERN ENVIRONMENTAL TESTING ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD 2919 FAIRGROUND ROAD SW, DECATUR, AL 35603 3103 NORTHINGTON COURT, FLORENCE, AL 35630

PAGE	1	of	1
Special	Testi	ng	

(256) 350-0846 www.setesting.com

COMPANY/CLIENT NAME			CLI	ENT P.O. NU	JMBER	E	NERSOL	/ PROJE	CT NUMBER														
Athens WWTP			767	74										1	REQ	UES	STEI	d Ai	NAL	YSE	ES		
CLIENT POINT OF CONTACT	a da	CLIEI	NT PHYSIC	AL ADDRES	S	CI	ITY/STAT	E/ZIP			·····		T		Τ	1						T	1
Tim Norman			Box 108				thens	AL 35	611														
CLIENT EMAIL		PHONE NUMBER OTHER INFORMATION													1								
tnorman@athens-utilit	ies.com	256	6-233-87																				
SAMPLE COLLECTED BY				EXPEDI	TED REP	ORT DELIVER	RY (SURC	HARGE)															1
Vingil White				DATE D	UE (REQI	JIRED)		-															
SET						SAMPI TRANSFER	R/GRAB	TRANS	MPLE FER/GRAB			CN-A											
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2220 Beltline Road SW Decatur, AL 35601 256.350.0846 www.esclabsciences.com

March 20, 2018

Tim Norman City of Athens WWTP PO Box 1089 Athens, AL 35611

We appreciate the opportunity to provide our services to you on this project. Please find attached the data for the sample(s) listed below:

LabNumber	Sample Description	Date/Time Collected	Date Submitted
1803187-01	Effluent Permit Renewal Comp.	3/8/18 07:08	3/8/18
1803187-02	Effluent Permit Renewal Grab	3/8/18 07:16	3/8/18

ESC-Decatur is accredited to ISO/IEC 17025:2005 by ANSI-ASQ National Accreditation Board (ANAB) and to the TNI 2003 Standard by the Florida Department of Health. Our quality system also meets relevant quality system requirements of ISO 9001:2008. Not all tests performed by ESC-Decatur are covered by these accreditations. Tests within our scope of accreditation are indicated by an asterisk (*) in the Test Result section of this report. Tests not included in the accreditations are performed in accordance with ESC-Decatur's Standard Operating Procedures and the quality control program using, where applicable, USEPA methodology.

This cover page and the attached chain-of-custody record(s) are integral parts of your report. ESC-Decatur considers this report your official record. This information shall remain in ESC-Decatur's active database for a period of one (1) calendar year before archiving. Any replacement of this information after archiving may result in an administrative fee to cover the cost of retrieval.

If you have any questions or would like more information regarding these analyses, please call us at (256) 350-0846.

Chillian D. Kollerman

William D. Hollerman, Ph.D.



Report Date/Time: 03/20/2018 09:41

REPORT TO	STAP ACCHEONE	ESC-Decatur maintains National Environmental Laboratory Accreditation Program (NELAP) accreditation through Florida	
Tim Norman City of Athens WWTP	CTNI .	Department of Health (#E871078). Some tests included in this report may not be covered by this accreditation.	DIIDEAII
PO Box 1089 Athens, AL 35611	NELAP	ESC-Decatur also maintains ISO/IEC 17025 accreditation through ANSI-ASQ Accreditation Board for the specific tests	ADEM Drinking Water
	Florida DOH #E871078	listed in ANAB Certificate #L2239 scope of accreditation.	Certification No. 40160

Tests within the scope of accreditation are indicated by an asterisk (*). This report may contain information that is confidential and/or proprietary. This information is intended for the

addressee only and may not be copied or disseminated except in full without the written consent of ESC-Decatur.

Analyte Name		Result	Units	Qual	Regulatory Limit
Sample Point: Effluent Permit Renewal Comp.	Sar	mple ID: 1803187-01	Collected: 03/08/2	2018 Su	bmitted: 03/08/2018
Anions by IC					
Nitrate plus Nitrite-Nitrogen		3.10	mg/l		
* Nitrate-Nitrogen CAS: 14797-55-8		2.43	mg/l		
* Nitrite-Nitrogen CAS: 14797-65-0		0.665	mg/l		
Inorganics					
Total Dissolved Solids		240	mg/l		
* Total Kjeldahl Nitrogen		1.74	mg/l		
* Total Phosphorus		2.02	mg/l		
Metals by ICP-MS					
Total Hardness		127	mg/l CaCO3		
Sample Point: Effluent Permit Renewal Grab	Sar	nple ID: 1803187-02	Collected: 03/08/2	2018 Su	bmitted: 03/08/2018
Inorganics		0.00.000			
Total Cyanide		0.00608	mg/l		



Report Date/Time: 03/20/2018 09:41

REPORT TO

Tim Norman City of Athens WWTP PO Box 1089 Athens, AL 35611

ESC-Decatur Environmental National Laboratory maintains LABORATORY ACCREDITATION BUREAU Accreditation Program (NELAP) accreditation through Florida Department of Health (#E871078). Some tests included in this SOMEC 17 report may not be covered by this accreditation. Cert# L2239 Testing ESC-Decatur also maintains ISO/IEC 17025 accreditation ADEM through ANSI-ASQ Accreditation Board for the specific tests Drinking Water listed in ANAB Certificate #L2239 scope of accreditation. Certification

Accredited Florida DOH #E871078

NELAP

No. 40160 Tests within the scope of accreditation are indicated by an asterisk (*). This report may contain information that is confidential and/or proprietary. This information is intended for the addressee only and may not be copied or disseminated except in full without the written consent of ESC-Decatur.

All calculations are performed prior to rounding per EPA and Standard Methods requirements.

Data Qualifiers:

1

Less than reporting limit <

Analysis Information

				Analysis	Analysis
Lab Number	Analysis	SpecificMethod	Analyst	Start Date/Time	End Date/Time
)3187-01	Total Hardness	Calculation			
13187-01	Nitrite-Nitrogen	EPA 300.0	LLW	03/08/2018 15:46	
1803187-01	Nitrate-Nitrogen	EPA 300.0	LLW	03/08/2018 15:46	
1803187-01	Nitrate plus Nitrite-Nitrogen	EPA 300.0	LLW	03/08/2018 15:46	
1803187-01	Total Phosphorus	EPA 365.3	JW	03/13/2018 09:30	
1803187-01	Total Dissolved Solids	SM 2540C	JW	03/09/2018 10:25	
1803187-01	Total Kjeldahl Nitrogen	SM 4500-Norg C	RAC	03/09/2018 06:00	
1803187-02	Total Cyanide	ASTM D7511-09	JW	03/15/2018 11:34	

The results contained in this report are only representative of the sample(s) received.



ANALYTICAL REPORT

March 19, 2018



ESC - Decatur Lab

Sample Delivery Group: Samples Received: Project Number: Description: L976338 03/09/2018 1803187 Effluent Permit Renewal Comp

Report To:

Mr. Bill Hollerman 2220 Beltline Road SW Decatur, AL 35601

Entire Report Reviewed By:

Olivia Studebaker Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.

1803187-01 L976338-01 WW			Collected by J Bethig	Collected date/time 03/08/18 07:08	Received date/time 03/09/18 11:40
Mothod	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Metals (ICP) by Method 200.7	WG1082965	1	03/10/18 10:31	03/12/18 15:28	ST
Metals (ICPMS) by Method 200.8	WG1083071	1	03/13/18 09:12	03/14/18 14:01	JPD
Metals (ICPMS) by Method 200.8	WG1084566	1	03/14/18 17:10	03/15/18 14:51	JPD
			Collected by	Collected date/time	Received date/time
1803187-02 L976338-02 WW			J Bethig	03/08/18 07:16	03/09/18 11:40
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 1664A	WG1084787	1	03/15/18 09:40	03/15/18 17:30	ML
Wet Chemistry by Method 420.4	WG1083903	1	03/15/18 08:15	03/15/18 12:07	KK
Volatile Organic Compounds (GC/MS) by Method 624	WG1082946	1	03/10/18 09:26	03/10/18 09:26	BMB
Semi Volatile Organic Compounds (GC/MS) by Method 625	WG1083364	1	03/14/18 08:02	03/15/18 05:45	SR
Semi Volatile Organic Compounds (GC/MS) by Method 625	WG1083364	1	03/14/18 08:02	03/15/18 21:57	SR

AI

Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Olivia Studebaker Technical Service Representative

ACCOUNT: ESC - Decatur Lab PROJECT: 1803187

SDG: L976338 DATE/TIME: 03/19/18 08:07 PAGE: 4 of 30

to.		No. of Lot					
1803187-01 Collected date/time: 03/08/18 07:08		SAMP	SAMPLE RESULTS - 01			ONE LAB. NATIONWIDE.	
Metals (ICP) by N	Aethod 200.7						
1.4. 18 T 12 S	Result	Qualifier	RDL	Dilution	Analysis	Batch	
yte	mg/l		mg/l		date / time		
ium	43.7		1.00	1	03/12/2018 15:28	WG1082965	
Magnesium	4.27		1.00	1	03/12/2018 15:28	WG1082965	
Metals (ICPMS) b	by Method 200.8						
17 M. M. M. M. M. M.	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		
Antimony	0.00225		0.00200	1	03/14/2018 14:01	WG1083071	
Arsenic	ND		0.00100	1	03/14/2018 14:01	WG1083071	
Beryllium	ND		0.00100	1	03/14/2018 14:01	WG1083071	
Cadmium	ND		0.00100	1	03/14/2018 14:01	WG1083071	
Chromium	ND		0.00100	1	02/14/2019 14:01	WC1092071	

0.00100

0.00100

0.00100

0.00100

0.00200

0.00100

0.00100

0.0100

1

1

1

1

1

1

1

03/14/2018 14:01

03/15/2018 14:51

03/15/2018 14:51

03/14/2018 14:01

03/14/2018 14:01

03/14/2018 14:01

03/14/2018 14:01

03/14/2018 14:01

WG1083071

WG1084566

WG1084566

WG1083071

WG1083071

WG1083071

WG1083071

WG1083071

Chromium

Copper

Lead

Nickel

Silver

Zinc

Thallium

Selenium

ND

ND

ND

ND

ND

0.0270

0.00332

0.00190

GI

AI

Sc

1803187-02 Collected date/time: 03/08/18 07:16

SAMPLE RESULTS - 02

ONE LAB. NATIONWIDE.

Ср

Тс

Ss

Cn

Qc

GI

A

Sc

Wet Chemistry by Method 1664A

	Result	Qualifier	RDL	Dilution	Analysis	Batch
/te	mg/l		mg/I		date / time	
Grease (Hexane Extr)	ND		5.88	1	03/15/2018 17:30	WG1084787

Wet Chemistry by Method 420.4

A REAL PROPERTY.	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		
Total Phenol by 4AAP	ND		0.0400	1	03/15/2018 12:07	WG1083903	

Volatile Organic Compounds (GC/MS) by Method 624

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Acrolein	ND		0.0500	1	03/10/2018 09:26	WG1082946
Acrylonitrile	ND		0.0100	1	03/10/2018 09:26	WG1082946
Benzene	ND		0.00100	1	03/10/2018 09:26	WG1082946
Bromodichloromethane	ND		0.00100	011	03/10/2018 09:26	WG1082946
Bromoform	ND		0.00100	1	03/10/2018 09:26	WG1082946
Bromomethane	ND		0.00500	1	03/10/2018 09:26	WG1082946
Carbon tetrachloride	ND		0.00100	1	03/10/2018 09:26	WG1082946
Chlorobenzene	ND		0.00100	1	03/10/2018 09:26	WG1082946
Chlorodibromomethane	ND		0.00100	1	03/10/2018 09:26	WG1082946
Chloroethane	ND		0.00500	1	03/10/2018 09:26	WG1082946
2-Chloroethyl vinyl ether	ND		0.0500	1	03/10/2018 09:26	WG1082946
Chloroform	ND		0.00500	1	03/10/2018 09:26	WG1082946
Chloromethane	ND		0.00250	1	03/10/2018 09:26	WG1082946
1,1-Dichloroethane	ND		0.00100	- 1	03/10/2018 09:26	WG1082946
1 2_Dichloroethane	ND		0.00100	1	03/10/2018 09:26	WG1082946
:hloroethene	ND		0.00100	- 1	03/10/2018 09:26	WG1082946
trans-1,2-Dichloroethene	ND		0.00100	1	03/10/2018 09:26	WG1082946
1,2-Dichloropropane	ND		0.00100	1	03/10/2018 09:26	WG1082946
cis-1,3-Dichloropropene	ND		0.00100	1	03/10/2018 09:26	WG1082946
Ethylbenzene	ND		0.00100	1	03/10/2018 09:26	WG1082946
Methylene Chloride	ND		0.00500	1	03/10/2018 09:26	WG1082946
1,1,2,2-Tetrachloroethane	ND		0.00100	1	03/10/2018 09:26	WG1082946
Tetrachloroethene	ND		0.00100	1	03/10/2018 09:26	WG1082946
Toluene	0.00109		0.00100	1	03/10/2018 09:26	WG1082946
1,1,1-Trichloroethane	ND		0.00100	1	03/10/2018 09:26	WG1082946
1,1,2-Trichloroethane	ND		0.00100	1	03/10/2018 09:26	WG1082946
Trichloroethene	ND		0.00100	1	03/10/2018 09:26	WG1082946
Vinyl chloride	ND		0.00100	1	03/10/2018 09:26	WG1082946
(S) Toluene-d8	108		80.0-120		03/10/2018 09:26	WG1082946
(S) Dibromofluoromethane	96.2		76.0-123		03/10/2018 09:26	WG1082946
(S) a,a,a-Trifluorotoluene	100		80.0-120		03/10/2018 09:26	WG1082946
(S) 4-Bromofluorobenzene	101		80.0-120		03/10/2018 09:26	WG1082946

Semi Volatile Organic Compounds (GC/MS) by Method 625

	Result	Qualifier	RDL	Dilution	Analysis	Batch	-
Analyte	mg/l		mg/l		date / time		
Acenaphthene	ND		0.00100	1	03/15/2018 21:57	WG1083364	
Acenaphthylene	ND		0.00100	1	03/15/2018 21:57	WG1083364	
Anthracene	ND		0.00100	1	03/15/2018 21:57	WG1083364	
Benzidine	ND		0.0100	1	03/15/2018 21:57	WG1083364	
Benzo(a)anthracene	ND		0.00100	1	03/15/2018 21:57	WG1083364	
(b)fluoranthene	ND		0.00100	1	03/15/2018 21:57	WG1083364	
(k)fluoranthene	ND		0.00100	1	03/15/2018 21:57	WG1083364	
Benzo(g,h,i)perylene	ND		0.00100	1	03/15/2018 21:57	WG1083364	

ACCOUNT: ESC - Decatur Lab

PROJECT: 1803187

SDG: L976338 DATE/TIME: 03/19/18 08:07

1803187-02 Collected date/time: 03/08/18 07:16

SAMPLE RESULTS - 02

Ср

Tc

Ss

Cn

Qc

GI

A

Sc

Semi Volatile Organic Compounds (GC/MS) by Method 625

Anabyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch		
-chlorethoxy)methane	ND		0.0100	1	03/15/2018 21:57	WG1083364		
Bis(2-chloroethyl)ether	ND		0.0100	1	03/15/2018 21:57	WG1083364		
Bis(2-chloroisopropyl)ether	ND		0.0100	1	03/15/2018 21:57	WG1083364		
4-Bromophenyl-phenylether	ND		0.0100	1	03/15/2018 21:57	WG1083364		
2-Chloronaphthalene	ND		0.00100	1	03/15/2018 21:57	WG1083364		
4-Chlorophenyl-phenylether	ND		0.0100	1	03/15/2018 21:57	WG1083364		
Chrysene	ND		0.00100	1	03/15/2018 21:57	WG1083364		
Dibenz(a,h)anthracene	ND		0.00100	1	03/15/2018 21:57	WG1083364		
1,2-Dichlorobenzene	ND		0.0100	1	03/15/2018 21:57	WG1083364		
1,3-Dichlorobenzene	ND		0.0100	1	03/15/2018 21:57	WG1083364		
1,4-Dichlorobenzene	ND		0.0100	1	03/15/2018 21:57	WG1083364		
3,3-Dichlorobenzidine	ND		0.0100	1	03/15/2018 21:57	WG1083364		
2,4-Dinitrotoluene	ND		0.0100	1	03/15/2018 21:57	WG1083364		
2,6-Dinitrotoluene	ND		0.0100	1	03/15/2018 21:57	WG1083364		
1,2-Diphenylhydrazine	ND		0.0100	1	03/15/2018 05:45	WG1083364		
Fluoranthene	ND		0.00100	1	03/15/2018 21:57	WG1083364		
Fluorene	ND		0.00100	1	03/15/2018 21:57			
Hexachlorobenzene	ND		0.00100	1	03/15/2018 21:57	WG1083364		
Hexachloro-1,3-butadiene	ND		0.0100	1	03/15/2018 21:57	WG1083364		
Concerning and an and the second second	ND			1		WG1083364		
Hexachlorocyclopentadiene Hexachloroethane			0.0100	1	03/15/2018 21:57	WG1083364		
	ND ND		0.0100	1	03/15/2018 21:57	WG1083364		
Indeno(1,2,3-cd)pyrene			0.00100	4	03/15/2018 21:57	WG1083364		
Isophorone	ND		0.0100	1	03/15/2018 21:57	WG1083364		
Naphthalene	ND		0.00100	1	03/15/2018 21:57	WG1083364		
Nitrobenzene	ND		0.0100	1	03/15/2018 05:45	WG1083364		
n-Nitrosodimethylamine	ND		0.0100	1	03/15/2018 21:57	WG1083364		
osodiphenylamine	ND		0.0100	1	03/15/2018 21:57	WG1083364		
osodi-n-propylamine	ND		0.0100	1 1 1	03/15/2018 21:57	WG1083364		
Phenanthrene	ND		0.00100	1	03/15/2018 21:57	WG1083364		
Benzylbutyl phthalate	ND		0.00300	1	03/15/2018 21:57	WG1083364		
Bis(2-ethylhexyl)phthalate	ND		0.00300	1	03/15/2018 21:57	WG1083364		
Di-n-butyl phthalate	ND		0.00300	1	03/15/2018 21:57	WG1083364		
Di-n-octyl phthalate	ND		0.00300	1	03/15/2018 21:57	WG1083364		
Diethyl phthalate	ND		0.00300	1	03/15/2018 21:57	WG1083364		
Dimethyl phthalate	ND		0.00300	1	03/15/2018 21:57	WG1083364		
Pyrene	ND		0.00100	1	03/15/2018 21:57	WG1083364		
1,2,4-Trichlorobenzene	ND		0.0100	1	03/15/2018 21:57	WG1083364		
2,4,6-Trichlorophenol	ND		0.0100	1	03/15/2018 21:57	WG1083364		
4-Chloro-3-methylphenol	ND		0.0100	1	03/15/2018 21:57	WG1083364		
2-Chlorophenol	ND		0.0100	1	03/15/2018 21:57	WG1083364		
2,4-Dichlorophenol	ND		0.0100	1	03/15/2018 21:57	WG1083364		
2,4-Dimethylphenol	ND		0.0100	1	03/15/2018 21:57	WG1083364		
2,4-Dinitrophenol	ND	<u>13</u>	0.0100	1	03/15/2018 21:57	WG1083364		
2-Nitrophenol	ND		0.0100	1	03/15/2018 21:57	WG1083364		
4,6-Dinitro-2-methylphenol	ND	<u>J3</u>	0.0100	1	03/15/2018 21:57	WG1083364		
4-Nitrophenol	ND		0.0100	1	03/15/2018 21:57	WG1083364		
Pentachlorophenol	ND		0.0100	1	03/15/2018 21:57	WG1083364		
Phenol	ND		0.0100	1	03/15/2018 21:57	WG1083364		
(S) Nitrobenzene-d5	50.2		10.0-126		03/15/2018 21:57	WG1083364		
(S) Nitrobenzene-d5	61.7		10.0-126		03/15/2018 05:45	WG1083364		
(S) 2-Fluorobiphenyl	66.4		22.0-127		03/15/2018 05:45	WG1083364		
(S) 2-Fluorobiphenyl	61.8		22.0-127		03/15/2018 21:57	WG1083364		
/SI n-Terphenyl-d14	62.5		29.0-141		03/15/2018 05:45	WG1083364		
-Terphenyl-d14	66.2		29.0-141		03/15/2018 21:57	WG1083364		
henol-d5 ردر	29.3		10.0-120		03/15/2018 21:57	WG1083364		
(S) Phenol-d5	32.0		10.0-120		03/15/2018 05:45	WG1083364		
ACCOUN	T.		PROJ	ECT.	SDG:		DATE/TIME:	PAGE

SAMPLE RESULTS - 02

Semi Volatile Organic Compounds (GC/MS) by Method 625

	Result	Qualifier	RDL	Dilution	Analysis	Batch	No. of State
Analide	mg/l		mg/l		date / time		
?-Fluorophenol	41.9		10.0-120		03/15/2018 21:57	WG1083364	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
(S) 2-Fluorophenol	44.4		10.0-120		03/15/2018 05:45	WG1083364	
(S) 2,4,6-Tribromophenol	87.4		10.0-153		03/15/2018 05:45	WG1083364	
(S) 2,4,6-Tribromophenol	99.4		10.0-153		03/15/2018 21:57	WG1083364	

Tc Ss Cn Qc GI AI Sc

WG1084787

Wet Chemistry by Method 1664A

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3293635-1 03/15/1	8 17:26	te i stene e Maria	CHE 8.5)	16.11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	
	MB Result	MB Qualifier	MB MDL	MB RDL	
lyte	mg/l		mg/l	mg/l	
Oil & Grease (Hexane Extr)	U		1.16	5.00	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3293635-2 03/15	/18 17:26 • (LCSI	D) R3293635-	-3 03/15/18 17:2	6		和日本代表已经《1004》。	1011 (1997) (1997)	and the second second		Constant and a second second
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%
Oil & Grease (Hexane Extr)	40.0	37.6	37.6	94.0	94.0	78.0-114			0.000	20

ACCOUNT:	PROJECT:	SDG:	DATE/TIME:
ESC - Decatur Lab	1803187	L976338	03/19/18 08:0

WG1083903 Wet Chemistry by Method 420.4

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3293495-1 03/1	5/18 12:02			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/I	mg/l
Total Phenol by 4AAP	0.00957	L	0.00830	0.0400

L976381-04 Original Sample (OS) • Duplicate (DUP)

(OS) L976381-04 03/15	5/18 12:12 • (DUP) R	3293495-6 0)3/15/18 12:	13			
	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits	
Analyte	mg/l	mg/l		%		%	
Total Phenol by 4AAP	ND	0.000	1	0.000		20	

L976453-01 Original Sample (OS) • Duplicate (DUP)

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/l	mg/l		%		%
Total Phenol by 4AAP	ND	0.000	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3293495-2 03/	15/18 12:03 · (LCSI	D) R3293495-	3 03/15/18 12:0)4							
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%	
Total Phenol by 4AAP	0.500	0.532	0.526	106	105	90.0-110			1.13	20	

L976338-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L976338-02 03/15	5/18 12:07 • (MS) R	3293495-4 03	8/15/18 12:08	· (MSD) R32934	95-5 03/15/1	8 12:09							
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%	
Total Phenol by 4AAP	1.00	ND	0.969	0.987	96.1	97.9	1	90.0-110		_	1.83	20	

L976796-02 Original Sample (OS) • Matrix Spike (MS)

12:22 • (MS) R3	3293495-8 03	3/15/18 12:22							
Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier			
mg/l	mig/T	mgA	%		%				1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
1.00	0.0684	1.12	105	1	90.0-110				
	Spike Amount	Spike Amount Original Result mg/l mg/l	and the second of the second o	Spike Amount Original Result MS Result MS Rec. mg/l mg/l mg/l %	Spike Amount Original Result MS Result MS Rec. Dilution mg/l mg/l mg/l %	Spike Amount Original Result MS Result MS Rec. Dilution Rec. Limits mg/l mg/l % % %	Spike Amount Original Result MS Result MS Rec. Dilution Rec. Limits MS Qualifier mg/l mg/l % % % % %	Spike Amount Original Result MS Result MS Rec. Dilution Rec. Limits MS Qualifier mg/l mg/l % % % % %	Spike Amount Original Result MS Result MS Rec. Dilution Rec. Limits MS Qualifier mg/l mg/l % %

	ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	E
*	ESC - Decatur Lab	1803187	L976338	03/19/18 08:07	10 of 30

¹Cp ²Tc ³Ss ⁴Cn ⁵Sr ⁶Qc ⁷GI ⁸AI ⁹Sc

WG1082965

Metals (ICP) by Method 200.7

QUALITY CONTROL SUMMARY

Ср

Tc

Ss

Cn

Sr

ິQc

GI

A

Sc

Method Blank (MB)

(MB) R3292586-1	03/12/18 14:16				1000	100		
Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l				
Calcium	U		0.100	1.00			 	
Magnesium	0.0228	ī	0.0168	1.00				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3292586-2 0	3/12/18 14:18 · (LCSE) R3292586-3	3 03/12/18 14:2	0						1-1-1-1	
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%	
Calcium	10.0	10.0	10.1	100	101	85.0-115			1.11	20	
Magnesium	10.0	10.4	10.5	104	105	85.0-115			1.44	20	

L976330-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L976330-01 03/12/	18 14:23 • (MS) R3	3292586-5 03	/12/18 14:28 •	(MSD) R32925	86-6 03/12/18	3 14:31						a second a s
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Calcium	10.0	274	284	285	105	109	1	70.0-130			0.140	20
Magnesium	10.0	8.45	18.6	18.4	102	99.9	1	70.0-130			0.863	20

L976336-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L976336-01 03	3/12/18 14:33 · (MS) R3	292586-7 03/	12/18 14:36 •	(MSD) R329258	36-8 03/12/18	3 14:38							
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%	
Calcium	10.0	ND	9.87	9.97	98.7	99.7	1	70.0-130			1.01	20	
Magnesium	10.0	ND	10.4	10.4	103	103	1	70.0-130			0.0127	20	



WG1083071

Metals (ICPMS) by Method 200.8

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3293173-1 0	3/14/18 12:06				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/l		mg/l	mg/l	
Antimony	U		0.000754	0.00200	
Arsenic	U		0.000170	0.00100	
Beryllium	U		0.000280	0.00100	
Cadmium	U		0.000220	0.00100	
Chromium	U		0.000320	0.00100	
Nickel	U		0.000320	0.00100	
Selenium	U		0.000320	0.00200	
Silver	U		0.000180	0.00100	
Thallium	U		0.000280	0.00100	
Zinc	U		0.00191	0.0100	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3293173-2 (03/14/18 12:10 · (LCSD)	R3293173-3	03/14/18 12:14				all and a second				
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%	
Antimony	0.0500	0.0497	0.0490	99.3	98.1	85.0-115			1.26	20	
Arsenic	0.0500	0.0487	0.0483	97.4	96.6	85.0-115			0.884	20	
Beryllium	0.0500	0.0467	0.0467	93.4	93.4	85.0-115			0.0181	20	
Cadmium	0.0500	0.0482	0.0479	96.5	95.8	85.0-115			0.722	20	
Chromium	0.0500	0.0487	0.0491	97.4	98.2	85.0-115			0.813	20	
Nickel	0.0500	0.0495	0.0512	98.9	102	85.0-115			3.45	20	
Selenium	0.0500	0.0498	0.0490	99.7	98.1	85.0-115			1.66	20	
Silver	0.0500	0.0501	0.0493	100	98.5	85.0-115			1.63	20	
Thallium	0.0500	0.0491	0.0483	98.1	96.5	85.0-115			1.66	20	
Zinc	0.0500	0.0522	0.0494	104	98.8	85.0-115			5.64	20	

L974833-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

	Spike	Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/l		mg/l	mg/l	mg/l	%	%		%			%	%	
Antimony	0.050	0	ND	0.0509	0.0516	100	101	1	70.0-130			1.27	20	
Arsenic	0.050	0	0.00161	0.0496	0.0509	95.9	98.6	1	70.0-130			2.68	20	
Beryllium	0.050	0	ND	0.0464	0.0461	92.1	91.4	1	70.0-130			0.722	20	
Cadmium	0.050	0	ND	0.0489	0.0498	97.3	99.0	1	70.0-130			1.73	20	
Chromium	0.050	0	ND	0.0481	0.0497	94.6	97.8	1	70.0-130			3.28	20	
Nickel	0.050	0	0.00240	0.0502	0.0512	95.5	97.7	1	70.0-130			2.12	20	
Selenium	0.050	0	ND	0.0516	0.0539	102	106	1	70.0-130			4.34	20	
	ACCOUN	T:			PRO	DJECT:			SDG:		DATE	TIME:		E:
	ESC - Decatu	r Lab			18	03187		L	976338		03/19/18	8 08:07		12 of 30

Cp ²Tc ³Ss ⁴Cn ⁵Sr ⁶Qc ⁷Gl ⁸Al ⁹Sc

WG1083071 Metals (ICPMS) by Method 200.8

QUALITY CONTROL SUMMARY

Ср

Tc

Ss

Cn

Sr

 Ωc

GI

A

Sc

L974833-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L974833-02 03	3/14/18 12:18 · (MS) R3	3293173-5 03/	4/18 12:26 • (MSD) R3293173	-6 03/14/18 1	2:30							
	Spike Amount			MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%	
Silver	0.0500	ND	0.0502	0.0506	99.8	101	1	70.0-130			0.751	20	
Thallium	0.0500	ND	0.0502	0.0504	99.7	100	1	70.0-130			0.282	20	
Zinc	0.0500	0.0169	0.0679	0.0671	102	100	1	70.0-130			1.22	20	

L976448-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Antimony	0.0500	ND	0.0512	0.0525	102	105	1	70.0-130			2.39	20
Arsenic	0.0500	0.00770	0.0560	0.0565	96.7	97.6	1	70.0-130			0.834	20
Beryllium	0.0500	ND	0.0456	0.0449	91.3	89.8	1	70.0-130			1.61	20
Cadmium	0.0500	ND	0.0491	0.0480	97.5	95.3	1	70.0-130			2.33	20
Chromium	0.0500	0.00295	0.0518	0.0524	97.7	98.9	1	70.0-130			1.17	20
Nickel	0.0500	ND	0.0495	0.0505	98.2	100	1	70.0-130			2.10	20
Selenium	0.0500	ND	0.0516	0.0516	102	102	1	70.0-130			0.00481	20
Silver	0.0500	ND	0.0512	0.0515	102	103	1	70.0-130			0.506	20
Thallium	0.0500	ND	0.0494	0.0476	97.9	94.3	1	70.0-130			3.78	20
Zinc	0.0500	ND	0.0511	0.0498	102	99.6	1	70.0-130			2.64	20

ACCOUNT:	
ESC - Decatur Lab	

SDG: L976338 DATE/TIME: 03/19/18 08:07 E: 13 of 30

WG1084566

Metals (ICPMS) by Method 200.8

QUALITY CONTROL SUMMARY

Method Blank (MB)

(MB) R3293605-1	03/15/18 13:22			
	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/l		mg/l	mg/l
Copper	U		0.000270	0.00100
Lead	U		0.000260	0.00100

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

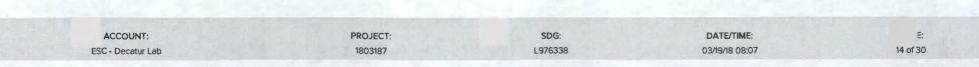
(LCS) R3293605-2 03/15/18 13:26 • (LCSD) R3293605-3 03/15/18 13:30											
	Spike Amount	LCS Result	LCSD Result mg/l	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits %	
Analyte	mg/l	mg/l		%	%	%			%		
Copper	0.0500	0.0508	0.0524	102	105	85.0-115			3.04	20	
Lead	0.0500	0.0488	0.0492	97.5	98.5	85.0-115			0.958	20	

L975957-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L975957-03	03/15/18 13:34 • (MS) R	3293605-5 03	3/15/18 13:42 •	(MSD) R32936	05-6 03/15/1	8 13:46							
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%	
Copper	0.0500	0.00486	0.0541	0.0542	98.5	98.6	1	70.0-130			0.132	20	
Lead	0.0500	ND	0.0491	0.0497	97.3	98.4	. 1	70.0-130			1.17	20	

L977282-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L977282-01 03	3/15/18 13:50 · (MS) R3	3293605-7 03	/15/18 13:54 •	(MSD) R329360	05-8 03/15/18	3 13:57							
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	mg/l	%	%		%	1000		%	%	
Copper	0.0500	0.00340	0.0526	0.0540	98.5	101	1	70.0-130			2.65	20	
Lead	0.0500	0.000538	0.0477	0.0497	94.4	98.4	1	70.0-130			4.13	20	



WG1082946

Method Blank (MB)

2-Chloroethyl vinyl ether

Chloroethane

Chloromethane

1,1-Dichloroethane

1,2-Dichloroethane

1,1-Dichloroethene

1,2-Dichloropropane cis-1,3-Dichloropropene

Methylene Chloride

Tetrachloroethene

1,1,1-Trichloroethane

1,1,2-Trichloroethane

(S) Toluene-d8 (S) Dibromofluoromethane

(S) a,a,a-Trifluorotoluene

(S) 4-Bromofluorobenzene

Trichloroethene

Vinyl chloride

1,1,2,2-Tetrachloroethane

Ethylbenzene

Toluene

trans-1,2-Dichloroethene

Chloroform

Volatile Organic Compounds (GC/MS) by Method 624

U

U

U

U

U

U

U

U

U

U

U

U

U

U

U

UU

U

U

109

94.4

97.2

102

QUALITY CONTROL SUMMARY

L976338-02

(MB) R3292267-3 03/10	0/18 03:18				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/l		mg/l	mg/l	
Acrolein	U		0.00887	0.0500	
Acrylonitrile	U		0.00187	0.0100	
Benzene	U		0.000331	0.00100	
Bromodichloromethane	U		0.000380	0.00100	
Bromoform	U		0.000469	0.00100	
Bromomethane	U		0.000866	0.00500	
Carbon tetrachloride	U		0.000379	0.00100	
Chlorobenzene	U		0.000348	0.00100	
Chlorodibromomethane	U		0.000327	0.00100	

0.00301

0.000453

0.000324

0.000276

0.000259

0.000361

0.000398

0.000396

0.000306

0.000418

0.000384

0.00100

0.000130

0.000372

0.000412

0.000319

0.000383

0.000398

0.000259

0.0500

0.00500

0.00500

0.00250

0.00100

0.00100

0.00100

0.00100

0.00100

0.00100

0.00100

0.00500

0.00100

0.00100

0.00100

0.00100

0.00100

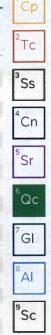
0.00100

0.00100 *80.0-120*

76.0-123

80.0-120

80.0-120



ACCOUNT: ESC - Decatur Lab

PROJECT: 1803187

SDG: L976338 DATE/TIME: 03/19/18 08:07

E:

WG1082946 Volatile Organic Compounds (GC/MS) by Method 624

QUALITY CONTROL SUMMARY

L976338-02

Tc

Ss

Cn

Sr

Qc

GI

AI

Sc

Laboratory Control Sample (LCS)

(LCS) R3292267-1 03/10/	18 02:20	a harden	and the second	a standard and	and the second second	Age of the second	
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier		
Analyte	mg/l	mg/l	%	%	and the second		
Acrolein	0.125	0.127	102	10.0-160	and they also	and the second	
Acrylonitrile	0.125	0.136	109	60.0-142			
Benzene	0.0250	0.0235	94.2	69.0-123			
Bromodichloromethane	0.0250	0.0234	93.7	76.0-120			
Bromoform	0.0250	0.0207	82.9	67.0-132			
Bromomethane	0.0250	0.0184	73.7	18.0-160			
2-Chloroethyl vinyl ether	0.125	0.104	83.2	10.0-160			
Carbon tetrachloride	0.0250	0.0223	89.2	63.0-122			
Chlorobenzene	0.0250	0.0261	104	79.0-121			
Chlorodibromomethane	0.0250	0.0251	101	75.0-125			
Chloroethane	0.0250	0.0244	97.6	47.0-152			
Chloroform	0.0250	0.0231	92.3	72.0-121			
Chloromethane	0.0250	0.0210	83.9	48.0-139			
1,1-Dichloroethane	0.0250	0.0238	95.4	70.0-126			
1,2-Dichloroethane	0.0250	0.0245	98.0	67.0-126			
1,1-Dichloroethene	0.0250	0.0202	80.7	64.0-129			
trans-1,2-Dichloroethene	0.0250	0.0211	84.2	71.0-121			
1,2-Dichloropropane	0.0250	0.0260	104	75.0-125			
cis-1,3-Dichloropropene	0.0250	0.0281	112	79.0-123			
Ethylbenzene	0.0250	0.0265	106	77.0-120			
Methylene Chloride	0.0250	0.0222	88.8	66.0-121			
1,1,2,2-Tetrachloroethane	0.0250	0.0254	102	71.0-122			
Tetrachloroethene	0.0250	0.0236	94.4	70.0-127			
Toluene	0.0250	0.0265	106	77.0-120			
1,1,1-Trichloroethane	0.0250	0.0232	92.8	68.0-122			
1,1,2-Trichloroethane	0.0250	0.0259	104	78.0-120			
Trichloroethene	0.0250	0.0244	97.8	78.0-120			
Vinyl chloride	0.0250	0.0259	103	64.0-133			
(S) Toluene-d8			109	80.0-120			
(S) Dibromofluoromethane			94.2	76.0-123			
(S) a,a,a-Trifluorotoluene			98.0	80.0-120			
(S) 4-Bromofluorobenzene			101	80.0-120			

ACCOUNT:	
ESC - Decatur Lab	

PROJECT: 1803187

SDG: L976338

DATE/TIME: 03/19/18 08:07

16 of 30

WG1083364

Semi Volatile Organic Compounds (GC/MS) by Method 625

QUALITY CONTROL SUMMARY

L976338-02

Ср

TC.

Ss

Cn

Sr

Qc

GI

AI

Sc

Method Blank (MB)

(MB) R3293460-3 03/14/18		Contraction of the second	1200			
	MB Result	MB Qualifier	MB MDL	MB RDL		
Analyte	mg/l		mg/l	mg/l		
Acenaphthene	U		0.000316	0.00100		
Acenaphthylene	U		0.000309	0.00100		
Anthracene	U		0.000291	0.00100		
Benzidine	U		0.00432	0.0100		
Benzo(a)anthracene	U		0.0000975	0.00100		
Benzo(b)fluoranthene	U		0.0000896	0.00100		
Benzo(k)fluoranthene	U		0.000355	0.00100		
Benzo(g,h,i)perylene	U		0.000161	0.00100		
Bis(2-chlorethoxy)methane	U		0.000329	0.0100		
Bis(2-chloroethyl)ether	U		0.00162	0.0100		
Bis(2-chloroisopropyl)ether	U		0.000445	0.0100		
4-Bromophenyl-phenylether	U		0.000335	0.0100		
1,2-Dichlorobenzene	U		0.000340	0.0100		
1,3-Dichlorobenzene	U		0.000365	0.0100		
1,4-Dichlorobenzene	U		0.000322	0.0100		
2-Chloronaphthalene	U		0.000330	0.00100		
4-Chlorophenyl-phenylether	U		0.000303	0.0100		
Chrysene	U		0.000332	0.00100		
Dibenz(a,h)anthracene	U		0.000279	0.00100		
3,3-Dichlorobenzidine	U		0.00202	0.0100		
2,4-Dinitrotoluene	U		0.00165	0.0100		
2,6-Dinitrotoluene	U		0.000279	0.0100		
Fluoranthene	U		0.000310	0.00100		
Fluorene	U		0.000323	0.00100		
Hexachlorobenzene	U		0.000341	0.00100		
Hexachloro-1,3-butadiene	U		0.000329	0.0100		
Hexachlorocyclopentadiene	U		0.00233	0.0100		
Hexachloroethane	U		0.000365	0.0100		
Indeno(1,2,3-cd)pyrene	U		0.000279	0.00100		
Isophorone	U		0.000272	0.0100		
Naphthalene	U		0.000372	0.00100		
Nitrobenzene	U		0.000367	0.0100		
n-Nitrosodimethylamine	U		0.00126	0.0100		
1,2-Diphenylhydrazine	U		0.000318	0.0100		
n-Nitrosodiphenylamine	U		0.000318	0.0100		
	U		0.000304	0.0100		
n-Nitrosodi-n-propylamine Phenanthrene	U		0.000403	0.00100		
Prienantmene Benzylbutyl phthalate						
	U		0.000275	0.00300		
Bis(2-ethylhexyl)phthalate	U		0.000709	0.00300		
Di-n-butyl phthalate	U		0.000266	0.00300		
AC	COUNT:			PROJECT:	SDG:	
	Decatur Lab			1803187	L976338	

WG1083364 Semi Volatile Organic Compounds (GC/MS) by Method 625

QUALITY CONTROL SUMMARY

Tc

Ss

Cn

Sr

Qc

GI

A

Sc

Method Blank (MB)

(MB) R3293460-3 03/14/	18 19:30				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/l		mg/l	mg/l	
Diethyl phthalate	U	Service and the	0.000282	0.00300	
Dimethyl phthalate	U		0.000283	0.00300	
Di-n-octyl phthalate	U		0.000278	0.00300	
Pyrene	U		0.000330	0.00100	
1,2,4-Trichlorobenzene	U		0.000355	0.0100	
4-Chloro-3-methylphenol	U		0.000263	0.0100	
2-Chlorophenol	U		0.000283	0.0100	
2,4-Dichlorophenol	U		0.000284	0.0100	
2,4-Dimethylphenol	U		0.000624	0.0100	
4,6-Dinitro-2-methylphenol	U		0.00262	0.0100	
2,4-Dinitrophenol	U		0.00325	0.0100	
2-Nitrophenol	U		0.000320	0.0100	
4-Nitrophenol	U		0.00201	0.0100	
Pentachlorophenol	U		0.000313	0.0100	
Phenol	U		0.000334	0.0100	
2,4,6-Trichlorophenol	U		0.000297	0.0100	
(S) Nitrobenzene-d5	49.4			10.0-126	
(S) 2-Fluorobiphenyl	55.4			22.0-127	
(S) p-Terphenyl-d14	69.2			29.0-141	
(S) Phenol-d5	18.0			10.0-120	
(S) 2-Fluorophenol	31.2			10.0-120	
(S) 2,4,6-Tribromophenol	115			10.0-153	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%	
Acenaphthene	0.0500	0.0380	0.0397	76.1	79.4	42.0-120			4.30	22	
cenaphthylene	0.0500	0.0383	0.0388	76.7	77.6	43.0-120			1.26	22	
Inthracene	0.0500	0.0348	0.0356	69.5	71.2	44.0-120			2.37	20	
Benzidine	0.0500	0.0148	0.0107	29.6	21.3	1.00-120			32.5	36	
enzo(a)anthracene	0.0500	0.0384	0.0423	76.8	84.6	44.0-120			9.67	20	
enzo(b)fluoranthene	0.0500	0.0378	0.0398	75.6	79.6	40.0-120			5.14	21	
enzo(k)fluoranthene	0.0500	0.0367	0.0397	73.4	79.3	41.0-120			7.73	22	
enzo(g,h,i)perylene	0.0500	0.0403	0.0433	80.6	86.6	45.0-121			7.16	20	
is(2-chlorethoxy)methane	0.0500	0.0301	0.0304	60.1	60.8	36.0-120			1.09	25	
is(2-chloroethyl)ether	0.0500	0.0275	0.0245	55.0	49.1	24.0-120			11.5	29	
lis(2-chloroisopropyl)ether	0.0500	0.0273	0.0246	54.6	49.2	32.0-120			10.3	29	

ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	E:
ESC - Decatur Lab	1803187	L976338	03/19/18 08:07	12 of 20)

WG1083364

QUALITY CONTROL SUMMARY L976338-02

ONE LAB. NATIONWIDE.

Semi Volatile Organic Compounds (GC/MS) by Method 625

. .

LCS) R3293460-1 03/14/18	-											— ([^] Cp
	Spike Amount		LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits		² Tc
Analyte	mg/l	mg/l	mg/l	%	%	%	and a much of the second production of the second statement of the second statement of the second statement of	de Canada a general de la companya d	%	%	алаандар жилдал талаанда каладыктан жаларыкан жаракталары жаракталары жаракталары жаракталары жаракталары жала Калааттар	
4-Bromophenyl-phenylether	0.0500	0.0445	0.0485	89.1	97.0	42.0-121			8.48	21	, 	3
2-Chloronaphthalene	0.0500	0.0364	0.0351	72.9	70.1	37.0-120			3.80	24		ຶSs
4-Chlorophenyl-phenylether	0.0500	0.0416	0.0417	83.3	83.4	44.0-120		· • •	0.156	21	an a	·
l,2-Diphenylhydrazine	0.0500	0.0417	0.0439	83.4	87.8	37.0-125		a	5.21	20	and a state of	°Cn
Chrysene	0.0500	0.0371	0.0401	74.2	80.2	45.0-120	·		7.82	20		
Dibenz(a,h)anthracene	0.0500	0.0399	0.0430	79.9	86.0	44.0-121			7.42	21		
3,3-Dichlorobenzidine	0.0500	0.0447	0.0469	89.4	93.8	29.0-153			4.83	23 -		° Sr
2,4-Dinitrotoluene	0.0500	0.0404	0.0438	80.7	87.6	47.0-127			8.20	21		
2,6-Dinitrotoluene	0.0500	0.0386	0.0408	77.3	81.7	42.0-120	-		5.53	22		6
Fluoranthene	0.0500	0.0399	0.0418	79.8	83.6	46.0 -1 21			4.67	20		່ ໍດ
Fluorene	0.0500	0.0389	0.0400	77.8	80.0	45.0-120			2.80	21 .		==
Hexachiorobenzene	0.0500	0.0499	0.0523	99.8	105	41.0-124			4.77	21		⁷ GI
Hexachloro-1,3-butadiene	0.0500	0.0356	0.0309	71.2	61.9	26.0-120	*	· ·	14.1	31	ы –	
Hexachlorocyclopentadiene	0.0500	0.0329	0.0309	65.7	61.9	10.0-120			6.03	31		8
Hexachloroethane	0.0500	0.0273	0.0235	54.6	46.9	22.0-120			15. 1	34		Γ ĂΙ
ndeno(1,2,3-cd)pyrene	0.0500	0.0416	0.0441	83.3	88.2	45.0-123			5.72	21		
sophorone	0.0500	0.0339	0.0342	67.8	68.5	37.0-120	n e		1.01	24		[°] Sc
Naphthalene	0.0500	0.0291	0.0271	58.2	54.2	33.0-120			7.01	28	- 86 07	130
Nitrobenzene	0.0500	0.0354	0.0330	70.7	66.1	31.0-120			6.81	28		
n-Nitrosodimethylamine	0.0500	0.0204	0.0190	40.8	37.9	10.0-120			7.37	34	· ·· ·	
n-Nitrosodiphenylamine	0.0500	0.0419	0.0443	83.8	88.5	44.0-120			5.42	21	s an s	
I,2-Dichlorobenzene	0.0500	0.0294	0.0248	58.8	49.5	27.0-120			17.1	30	• · · ·	
n-Nitrosodi-n-propylamine	0.0500	0.0373	0.0375	74.6	75.1	29.0-120		A 4	0.652	27		1
1,3-Dichlorobenzene	0.0500	0.0282	0.0245	56.4	49.0	26.0-120		-	14.2	31	•	•
Phenanthrene	0.0500	0.0381	0:0391	76.3	78.2	42.0-120	A. 8		2.44	20	• • • •	
I,4-Dichlorobenzene	0.0500	0.0278	0.0235	55.6	46.9	26.0-120			17.0	30	· · ·	
Benzylbutyl phthalate	0.0500	0.0330	0.0357	65.9	71.4	36.0-123			8.02	22	··· · · ·	
Bis(2-ethylhexyl)phthalate	0.0500	0.0352	0.0381	70.5	76.2	37.0-121			7.83	21	· · · ·	
Di-n-butyl phthalate	0.0500	0.0332	0.0398	75.9	70.2 79.6	43.0-122			4.77	21 21	· •	
	-	-	+		90.2	48.0-123		~ <u>.</u>	5.53		· · · · · ·	
Diethyl phthalate	0.0500	0.0427	0.0451	85.3						20		
Dimethyl phthalate	0.0500	0.0423	0.0446	84.7	89.2	47.0-120			5.22	20	n an air an Bhinn	1.1
Di-n-octyl phthalate	0.0500	0.0372	0.0389	74.4	77.7	38.0-120	· · · · · · · ·	ar 5 k	4.42	22	· · · · · · · ·	
Pyrene	0.0500	0.0365	0.0394	72.9	78.7	43.0-120			7.71	21		
1,2,4-Trichlorobenzene	0.0500	0.0310	0.0281	62.0	56.3	29.0-120	k	a p	9.70	29		
4-Chloro-3-methylphenol	0.0500	0.0343	0.0358	.68.7	71.6	39.0-120			4.20	22		1
2-Chlorophenol	0.0500	0.0305	0.0271	60.9	54.3	28.0-120			11.6	29	· · · · · ·	
2,4-Dichlorophenol	0.0500	0.0351	0.0334	70.3	66.9	37.0-120			4,99	26	· · · · · · · · ·	
2,4-Dimethylphenol	0.0500	0.0367	0.0349	73.5	69.9	35.0-120			4.99	25		
4,6-Dinitro-2-methylphenol	0.0500	0.0428	0.0570	85.5	114	34.0-125		<u>J3</u> J <u>3</u>	28.5	27		1
2,4-Dinitrophenol	0.0500	0.0260	0.0448	52.0	89.6	10.0-120		<u>J3</u>	53.1	40		

ESC - Decatur Lab

1803187

L976338

DATE/TIME: 03/19/18 08:07

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QUALITY CONTROL SUMMARY

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3293460-1 03/14	4/18 18:42 · (LCSE) R3293460-2	2 03/14/18 19:0	6		Sector and			Real Property		14.28 A.C.M.
and the second	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits	
Analyte	mg/l	mg/l	mg/l	%	%	%			%	%	
2-Nitrophenol	0.0500	0.0325	0.0317	64.9	63.3	35.0-120			2.45	28	
4-Nitrophenol	0.0500	0.0143	0.0148	28.7	29.6	10.0-120			3.12	35	
Pentachlorophenol	0.0500	0.0496	0.0534	99.2	107	20.0-126			7.34	32	
Phenol	0.0500	0.0181	0.0171	36.2	34.2	10.0-120			5.75	34	
2,4,6-Trichlorophenol	0.0500	0.0437	0.0446	87.4	89.3	40.0-122			2.15	24	
(S) Nitrobenzene-d5				66.6	65.1	10.0-126					
(S) 2-Fluoroblphenyl				74.8	79.2	22.0-127					
(S) p-Terphenyl-d14				62.8	68.2	29.0-141					
(S) Phenol-d5				31.3	28.9	10.0-120					
(S) 2-Fluorophenol				51.7	45.3	10.0-120					
(S) 2,4,6-Tribromophenol				124	124	10.0-153					

⁴Cn
⁵Sr
⁶ Qc
⁷ GI
⁸ AI
⁹ Sc

Ср

Tc

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			A CONTRACTOR OF THE OWNER OWNE OWNER OWNE OWNER OWNE	
ACCOUNT:	PROJECT:	SDG:	DATE/TIME:	2
ESC - Decatur Lab	1803187	L976338	03/19/18 08:07	20 of 30

GLOSSARY OF TERMS

Tc

Ss

Cn

Sr

Qc

GI

AI

Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
Qualifier	Description
1	The identification of the analyte is acceptable; the reported value is an estimate.
13	The associated batch QC was outside the established quality control range for precision.

ACCREDITATIONS & LOCATIONS

ESC Lab Sciences is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by SEC Lab Sciences.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona:	AZ0612	New Hampshire	2975
Arkansas	88-0469	New JerseyNELAP	TN002
California	2932	New Mexico 1	n/a
Colorado.	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina 1	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ¹⁶	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	Al30792	Tennessee 14	2006
Louisiana 1	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

Third Party Federal Accreditations

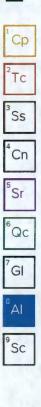
A2LA ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA - ISO 17025 5	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. ESC Lab Sciences performs all testing at our central laboratory.





PAGE:

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SUBCONTRACT ORDER

Sending Laboratory:

ESC - Decatur 2220 Beltline Road SW Decatur, AL 35601 Phone: 256-350-0846 Fax: 256-350-0686

Subcontracted Laboratory:

ESC 12065 Lebanon Road Mount Juliet, TN 37122 Phone: (615) 758-5858 Fax:

3.00-

Work Order: 1803187

Analysis Code **Analysis Description** Due Comments Matrix: Wastewater Sample ID: 1803187-01 Effluent Permit Renewal Comp. Sampled: 03/08/2018 PB ICPMS TR Total Recoverable Lead 03/15/2018 AS ICPMS TR Total Recoverable Arsenic 03/15/2018 BE ICPMS TR Total Recoverable Bervillium 03/15/2018 CA ICP. Total Calcium 03/15/2018 CD ICPMS TR Total Recoverable Cadmium 03/15/2018 Total Recoverable Chromium CR ICPMS TR 03/15/2018 Total Recoverable Copper F16 PMS TR 03/15/2018 Total Recoverable Silver PMS TR 03/15/2018 Total Recoverable Nickel 03/15/2018 NE ICPMS TR SB ICPMS TR Total Recoverable Antimony 03/15/2018 Total Recoverable Selenium 03/15/2018 SE ICPMS TR TL ICPMS TR Total Recoverable Thallium 03/15/2018 Total Recoveable Zinc ZN ICPMS TR 03/15/2018 MG ICP Total Magnesium 03/15/2018 Containers Supplied: Sample ID: 1803187-02 Effluent Permit Renewal Grab. Matrix: Wastewater 02Sampled: 03/08/2018 **8N/AE Semivolatiles** Please see attached for required SV 625-PERMIT RENEWAL 03/15/2018 analytes VOA 624 FORM2A Please see attached for required Volatile Organic Analytes 03/15/2018 analytes 06 HEM (Oil and Grease) 03/15/2018

Containers Supplied; 9

PHENOLICS

The appropriate credentials and accreditations of the subcontract laboratory have been verified for the analyses to be performed on the samples included in this document as of the date samples were shipped to the subcontract laboratory.

Phenolics (4AAP)

3-9-18 Date Received By Released By 11:40 3-9-18 Page 1 of 1 3/9/8 10

03/15/2018

FACILITY NAME AND PERMIT NUMBER:

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Form Approved 1/14/99 OMB Number 2040-0086

Outfail number:									(Complete once for each put/all discharging effluent to waters of the United States.) MAXIMUM DAILY AVERAGE DAILY DISCHARGE									
POLLUTANT	DISCHARGE				1.55		- * * \$ <u>7</u> %		i									
	Conc	Units	Mass	Units	Conc;	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	'MU MDL							
VOLATILE ORGANIC COMPOUNDS.				1		r												
ACRÓLEIN																		
ACRYLONITRILE																		
PEŃZENE																		
BROMOFORM			-															
CARBON TETRACHLORIDE																		
CLORDBENZENE			5 COM						**									
CHLORODIBROMO-METHANE				-														
CHLOROETHANE				·					and a sequence of a									
2 CHEORO ETHYLVINYL																		
WRORORORW																		
DICHLOROBROMO-METHANE																		
1,1-51CHLOROBTHANE					2.23m					4	· · · · · · · · · · · · · · · · · · ·							
1.2-DICHLORDETHANE																		
TRANS-1,2-DICHLORO-ETHYLENE																		
1.1-DICHLOROETHYLENE																		
2-DICHLOROPROPANE																		
1,3-DICHLORO, PROPYLENE																		
ETHYLBENZENE																		
METHYL BROMIDE											1							
Methyl Chloride										7								
METHYLENE CHLORIDE																		
1,2,2-TETRACHLORO-ETHANE																		
ETRACHLORO ETHYLENE											A							
roluene																		

EPA Form 3510-2A (Rev. 1-99); Replaces EPA forms 7550-6 & 7550-22.

Page 11 of 21.

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	الاستعاد مرتبه				NUMBER:
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	VIEI I	IT PARE		L C C ANI	

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Form Approved 1/14/99 CMB Number 2040-0055

Outfall number:				Cont in the second						25.)	
POLLUTANT		MAXIMU	JM DAIL	Y	Â	VERAGI	EDAILY	DISCH	ARGE		1
	Conc.		14855	Units.	Canc.	Units	Mass	Units	Number of Semples	ANALYTICAL METHOD	MU MDL
1,1-TRICHLORDETHANE					-						
1.4.2-TRICHLOROETHANE	7										
TRICHLORETHYLENE											
VINŸL CHLORIDE										-	
Use this opace (or o separato sheet	i) to ecovide in	Iomatio	i eu oltiei	valetile or	ganic con	npounds	iedneistat	by the p	ennet whiter,		
ACID EXTRACTABLE COMPOUNI	þ S	1		Y				1			
P-CHEORO-M-CRESOL			1 Course				No				
2-CHLOROPHENOL										19-10	-
2,4-DICHLOROPHENDL											
2.4 DMETHYLPHENOL											
4.6-DINITRO-O-CRESOL										ang a sa ang ang ang ang ang ang ang ang ang an	
2,4-DINITROPHENOL										<u> Managere - presidente de la c</u>	
2-NITROPHENOL			.1			,					
4-NITROPHENOL											
PENTACHLOROPHENOL									ĺ	_	
PHENOL											
z,4,6-TRICHLOROPHENOL					-						
Use this space (or a separate sheet)	to provide in	οπιείζοη	, on other	acid-extra	clable cor	sporuda	requester	l by the p	emil writer.		
BASE-NEUTRAL COMPOUNDS.			T					T	T		
ACENAPHTHENE											
ACENAPHTHYLENE											
INTHRACENE											-
BENZIDINE							·				
BENZO(A)ANTHRACENE											The second se

EPA Form 3510-2A (Rev. 1-99). Replaces EPA forms 7550-5 & 7550-22.

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		f	1		1	1	<u> </u>		1	1	I
BENZO(A)PYRENE											
FACILITY NAME AND PERMIT N	UMBER									Portin App OMB Nutr	rovad 1/14/99 http://2040-0086
Outfall number.									e United Stat	es,)	
POLLUTANT	D	DISC	IM DAIL'		A		EDAILY	-	c		
	Conc.	Units	Mass	Units	.Conc.	Units	Mass.	Units	Number of Samples	ANALYTICAL METHOD	MU MDL
3,4 BENZO-FLUORANTHENE											
BENZOIGHIIPERYLENE											
BENZO(K)FLUORANTHENE											
BIS (2-CHLOROETHOXY) METHANE				5							
BIS (2-CHLOROSTHYL) ETHER											
BIS (2 CHLOROISD PROPYL)											
DIS (2-ETHÝLHĚXÝL) PHTHALATE											
4-BROMOPHENYL PHENYL ETHER											
BUTYL BENZYL PHTHALATE											
2-CHLORONAPHTHALENE											
4-CHLORPHENYL PHENYL ETHER									٢		
CARYSENE				-							
OI-N-BUTYL PHTHALATE											
DI-N-OCTYL PHTHALATE					-r-						
DIBENZO(A,H) ANTHRACENE	-								, in the second s		
1.2-DICHLOROBENZENE											
1.3-DICHLORIDBENZENE											as any any any koptasoos a sec
1,4-DICHLOROBENZENE										u	
3,3-DICHLOROBENZIDINE											
DIETHYL PHTHALATE:											
DIMETHYL PHTHALATA								C. S. PREST		n provinstvo – stati kali za 1970 – stati kali	- Stormer and the stormer and
2,4-DINITROTOLUENE											
2,6-DINITROTOLUENE											

EPA Form 3510-2A (Rev. 1-99). Replaces EPA forms 7550-6 & 7550-22.

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FACILITY NAME AND PERM	TNUMBER					1				Form Appr	vəd 1/14/99 xer 2040-008
i i ar anna	4 '£ ' , , , , , , , , , , , , , , , , ,									OMB Num	xer 2040-000
Outfall number:	(Comple	le once	for each	b liethuo	schargin	g effluer	t to wate	is of the	United State	is.)	
POLLUTANT		AXIML DISCI	IM DAIL	¥.	A	/ERAG	E DAILY	DISCH/	ROE		3 Y
*	Çonic		Mass	Ųnits.	Cono;	Units	Masa	Units	Number of Samples	ANALYTICAL METHOD	MU ME
FLUORANTHENE		,									
FLUORENE											
HEXACHLOROBENZENE											
HEXAÇI-LOROBUTĂDIENE											
HEXACHLOROCYCLO- PENTADIENE											
HEXACHLOROETHANE											
NUENCK1,2.3-DD.PYRENE											
SOPHORONE											
NAPHTHALENE											
NITROBENZENE											
N-NITROSODI-N-PROPYLAMINE											
N-NITROSODI- METHYLAMINE										August	
N-N(TROSODI-PHENYLAMINE					,						
Phenanthrene							,				
RYRENE											
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD 2220 BELTLINE ROAD SW DECATUR, ALABAMA 35601 (256) 350-0846

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD 2220 BELTLINE ROAD SW DECATUR, ALABAMA 35601 (256) 350-0846

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD 2220 BELTLINE ROAD SW DECATUR, ALABAMA 35601 (256) 350-0846

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD 2220 BELTLINE ROAD SW DECATUR, ALABAMA 35601 (256) 350-0846

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Enersolv Form FLD-020-SOP A rev. 5



ANALYTICAL REPORT

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City of Athens WWTP

Sample Delivery Group: Samples Received: Project Number: Description: L1167849 12/06/2019

Permit Renewal

Report To:

Tim Norman PO Box 1089 Athens, AL 35611

Entire Report Reviewed By:

Meri

Kelly Mercer Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

PROJECT:

SDG: L1167849 DATE/TIME: 12/16/19 08:53

PAGE: 1 of 12 Tc

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Sr: Sample Results	5
EFF. P. RENEWAL COMP L1167849-01	5
EFF. P. RENEWAL GRAB L1167849-02	6
GI: Glossary of Terms	9
Al: Accreditations & Locations	10
Sc: Sample Chain of Custody	11

ACCOUNT: City of Athens WWTP

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.

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EFF. P. RENEWAL COMP L1167849-01 WW			Collected by CLIENT	Collected date/time 12/05/19 22:24	Received da 12/06/19 13:0	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
lated Results	WG1392763	1	12/08/19 18:20	12/08/19 18:20	CCE	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 C-2011	WG1393360	1	12/09/19 07:53	12/10/19 07:45	JDR	Decatur, AL
Wet Chemistry by Method 300.0	WG1392123	1	12/06/19 17:26	12/06/19 17:26	LLW	Decatur, AL
Wet Chemistry by Method 4500-Norg C	WG1394002	1	12/10/19 06:15	12/10/19 10:00	BMW	Decatur, AL
Wet Chemistry by Method EPA 365.3	WG1395482	1	12/11/19 09:00	12/11/19 16:30	JTM	Decatur, AL
Metals (ICP) by Method 200.7	WG1392763	1	12/07/19 16:44	12/08/19 18:20	CCE	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG1392770	1	12/08/19 09:35	12/08/19 23:22	LD	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG1392770	1	12/08/19 09:35	12/08/19 23:48	LD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
EFF. P. RENEWAL GRAB L1167849-02 WW			CLIENT	12/05/19 22:24	12/06/19 13:0)5
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 1664A	WG1394456	1	12/11/19 06:38	12/11/19 12:11	AMG	Mt. Juliet, TN
Wet Chemistry by Method 420.4	WG1394072	1	12/10/19 14:17	12/13/19 13:59	SDL	Mt. Juliet, TN
Wet Chemistry by Method ASTM D7511-12	WG1394039	1	12/10/19 14:22	12/10/19 14:22	SDH	Decatur, AL
Volatile Organic Compounds (GC/MS) by Method 624.1	WG1395215	1	12/12/19 09:19	12/12/19 09:19	ADM	Mt. Juliet, TN

WG1394830

12/11/19 17:01

1

12/13/19 15:33

LEA

Mt. Juliet, TN

ACCOUNT: City of Athens WWTP

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

SDG: L1167849 DATE/TIME: 12/16/19 08:53

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CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Aller

Kelly Mercer Project Manager

DATE/TIME: 12/16/19 08:53

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EFF. P. RENEWAL Collected date/time: 12/05/19			SAMP	LE RE	SULTS - 0 849	1	ONE LAB. NATIONWIDE.	-
Calculated Results								F.
te	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch		2
ess (calculated) as CaCO3	147		2.50	1	12/08/2019 18:20	WG1392763		Ť
Gravimetric Analysis b	y Method 2	540 C-20)11			8 2 8 4		³ S
	Result	Qualifier	RDL	Dilution	Analysis	Batch	11 35 CAL	-
Analyte	mg/l		mg/l		date / time			4C
Dissolved Solids	253		1.00	1	12/10/2019 07:45	WG1393360		
Wet Chemistry by Met	hod 300.0							⁵S
	Result	Qualifier	RDL	Dilution	Analysis	Batch		6
Analyte	mg/l		mg/l	4	date / time	WC1202122		G
Nitrate-Nitrite	6.13		0.0600	1	12/06/2019 17:26	WG1392123		7
Wet Chemistry by Met	hod 4500-l	Norg C		60		1 2 1 2 2	111	A
	Result	Qualifier	RDL	Dilution	Analysis	Batch		85
Analyte	mg/l		mg/l		date / time			
Kjeldahl Nitrogen, TKN	ND		1.50	1	12/10/2019 10:00	WG1394002	ter.	
Wet Chemistry by Met	hod EPA 36	65.3						
1.1	Result	Qualifier	RDL	Dilution	Analysis	Batch		
Analyte	mg/l		mg/l		date / time			
Phosphorus	3.19		1.00	1	12/11/2019 16:30	WG1395482		
Metals (ICP) by Method	200.7							
	Result	Qualifier	RDL	Dilution	Analysis	Batch		
e	mg/l	1.11	mg/l		date / time			
Calcium	50.1		1.00	1	12/08/2019 18:20	WG1392763	- CARLE STREET	
Magnesium	5.43		1.00	1	12/08/2019 18:20	WG1392763		
Metals (ICPMS) by Met	hod 200.8							
1.	Result	Qualifier	RDL	Dilution	Analysis	Batch	Confight States	
Analyte	mg/l		mg/l	_	date / time			
Antimony	ND		0.00200	1	12/08/2019 23:22	WG1392770		
Arsenic	ND		0.00100	1	12/08/2019 23:22	WG1392770		
Beryllium	ND		0.00100	1	12/08/2019 23:48	WG1392770		
Cadmium	ND		0.00100	1	12/08/2019 23:22	WG1392770		
Chromium	ND		0.00100	1	12/08/2019 23:22	WG1392770		
Copper	0.00376		0.00100	1	12/08/2019 23:22	WG1392770	ALTER AND AND AND	
Lead	ND		0.00100	1	12/08/2019 23:22	WG1392770		
Nickel	0.00141		0.00100	1	12/08/2019 23:22	WG1392770		
Selenium	ND		0.00200	1	12/08/2019 23:22	WG1392770		
Silver	ND		0.00100	1	12/08/2019 23:22	WG1392770		
Thallium	ND		0.00100	1	12/08/2019 23:22	WG1392770		
Zinc	0.0214		0.0100	1	12/08/2019 23:22	WG1392770		

PROJECT:

SDG: L1167849 DATE/TIME: 12/16/19 08:53

EFF. P. RENEWAL Collected date/time: 12/05/			SAMP	LE RE	SULTS - 0 849	2	ONE LAB. NATIONWIDE.	*
Wet Chemistry by Me	ethod 1664A							1°C
*	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch		
Grease (Hexane Extr)	ND		5.62	1	12/11/2019 12:11	WG1394456		² Tc
Wet Chemistry by Me	athod 420 A							3
wet chemistry by we	Result	Qualifier	RDL	Dilution	Analysis	Batch		Ss
Analyte	mg/l		mg/l		date / time			⁴ Cr
Total Phenol by 4AAP	ND	<u></u>	0.0400	1	12/13/2019 13:59	WG1394072	andus ang panana ang kalang na ang	Ľ
Wet Chemistry by Me	ethod ASTM	D7511-12						⁵ Sr
1.200	Result	Qualifier	RDL	Dilution	Analysis	Batch		6
Analyte	mg/l		mg/l	_	date / time			G
Cyanide	ND		0.00500	1	12/10/2019 14:22	WG1394039		7
Volatile Organic Com	pounds (GC	/MS) by N	lethod 62	4.1				Á
	Result	Qualifier	RDL	Dilution	Analysis	Batch		⁸ Sc
Analyte	mg/l		mg/l		date / time	Starfugeshi		
Acrolein	ND		0.0500	1	12/12/2019 09:19	WG1395215		
Acrylonitrile	ND		0.0100	1	12/12/2019 09:19	WG1395215		
Benzene	ND		0.00100	1	12/12/2019 09:19	WG1395215		
Bromoform	ND		0.00100	1	12/12/2019 09:19	WG1395215		
Carbon tetrachloride	ND		0.00100	1	12/12/2019 09:19	WG1395215		
Chlorobenzene	ND		0.00100	1	12/12/2019 09:19	WG1395215		
Chlorodibromomethane	ND		0.00100	1	12/12/2019 09:19	WG1395215		
Chloroethane	ND		0.00500	1	12/12/2019 09:19	WG1395215		
2-Chloroethyl vinyl ether	ND		0.0500	1	12/12/2019 09:19	WG1395215		
form -	ND		0.00500	1	12/12/2019 09:19	WG1395215		
dichloromethane	ND		0.00100	1	12/12/2019 09:19	WG1395215		
1,1-Dichloroethane	ND		0.00100	1	12/12/2019 09:19	WG1395215		
1,2-Dichloroethane	ND		0.00100	1	12/12/2019 09:19	WG1395215		
1,1-Dichloroethene	ND		0.00100	1	12/12/2019 09:19	WG1395215		
1,2-Dichloropropane	ND		0.00100	1	12/12/2019 09:19	WG1395215		
cis-1,3-Dichloropropene	ND		0.00100	1	12/12/2019 09:19	WG1395215		
trans-1,3-Dichloropropene	ND		0.00100	1	12/12/2019 09:19	WG1395215		
Ethylbenzene	ND		0.00100	- 1 -	12/12/2019 09:19	WG1395215		
Bromomethane	ND		0.00500	1	12/12/2019 09:19	WG1395215		
Chloromethane	ND		0.00250	1	12/12/2019 09:19	WG1395215		
Methylene Chloride	ND		0.00500	1	12/12/2019 09:19	WG1395215		
1,1,2,2-Tetrachloroethane	ND		0.00100	1	12/12/2019 09:19	WG1395215		
Tetrachloroethene	ND		0.00100	1	12/12/2019 09:19	WG1395215		
Toluene	ND		0.00100	1	12/12/2019 09:19	WG1395215		
trans-1,2-Dichloroethene	ND		0.00100	1	12/12/2019 09:19	WG1395215		
1,1,1-Trichloroethane	ND		0.00100	1	12/12/2019 09:19	WG1395215		
1,1,2-Trichloroethane	ND		0.00100	1	12/12/2019 09:19	WG1395215		
Trichloroethene	ND		0.00100	1	12/12/2019 09:19	WG1395215		
Vinyl chloride	ND		0.00100	1	12/12/2019 09:19	WG1395215		
1,2-Dichlorobenzene	ND		0.00100	1	12/12/2019 09:19	WG1395215		
1,3-Dichlorobenzene	ND		0.00100	1	12/12/2019 09:19	WG1395215		
1,4-Dichlorobenzene	ND		0.00100	1	12/12/2019 09:19	WG1395215		
(S) Toluene-d8	106		80.0-120		12/12/2019 09:19	WG1395215		
(S) 4-Bromofluorobenzene	104		80.0-120		12/12/2019 09:19	WG1395215		
(S) 1,2-Dichloroethane-d4	103		70.0-130		12/12/2019 09:19	WG1395215		

PROJECT:

SDG: L1167849 DATE/TIME: 12/16/19 08:53

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EFF. P. RENEWAL GRAB Collected date/time: 12/05/19 22:24

SAMPLE RESULTS - 02

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Semi Volatile Organic Compounds (GC/MS) by Method 625.1

Analita	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
aphthene	ND		0.00100	1	12/13/2019 15:33	WG1394830
aphthylene	ND		0.00100	1	12/13/2019 15:33	WG1394830
Anthracene	ND		0.00100	1	12/13/2019 15:33	WG1394830
Benzidine	ND		0.0100	1	12/13/2019 15:33	WG1394830
Benzo(a)anthracene	ND		0.00100	1	12/13/2019 15:33	WG1394830
Benzo(a)pyrene	ND		0.00100	1	12/13/2019 15:33	WG1394830
Benzo(b)fluoranthene	ND		0.00100	1	12/13/2019 15:33	WG1394830
Benzo(g,h,i)perylene	ND		0.00100	1	12/13/2019 15:33	WG1394830
Benzo(k)fluoranthene	ND		0.00100	1	12/13/2019 15:33	WG1394830
Bis(2-chlorethoxy)methane	ND		0.0100	1	12/13/2019 15:33	WG1394830
Bis(2-chloroethyl)ether	ND		0.0100	1	12/13/2019 15:33	WG1394830
Bis(2-chloroisopropyl)ether	ND		0.0100	1	12/13/2019 15:33	WG1394830
Bis(2-ethylhexyl)phthalate	ND		0.00300	1	12/13/2019 15:33	WG1394830
4-Bromophenyl-phenylether	ND		0.0100	1	12/13/2019 15:33	WG1394830
Benzylbutyl phthalate	ND		0.00300	1	12/13/2019 15:33	WG1394830
2-Chloronaphthalene	ND		0.00100	1	12/13/2019 15:33	WG1394830
4-Chlorophenyl-phenylether	ND		0.0100	1	12/13/2019 15:33	WG1394830
Chrysene	ND		0.00100	1	12/13/2019 15:33	WG1394830
Dibenz(a,h)anthracene	ND		0.00100	1	12/13/2019 15:33	WG1394830
3,3-Dichlorobenzidine	ND		0.0100	1	12/13/2019 15:33	WG1394830
Diethyl phthalate	ND		0.00300	1	12/13/2019 15:33	WG1394830
Dimethyl phthalate	ND		0.00300	1	12/13/2019 15:33	WG1394830
Di-n-butyl phthalate	ND		0.00300	1	12/13/2019 15:33	WG1394830
2,4-Dinitrotoluene	ND		0.0100	1	12/13/2019 15:33	WG1394830
2,6-Dinitrotoluene	ND		0.0100	1	12/13/2019 15:33	WG1394830
Di-n-octyl phthalate	ND		0.00300	1	12/13/2019 15:33	WG1394830
chenylhydrazine	ND		0.0100	1	12/13/2019 15:33	WG1394830
nthene	ND		0.00100	1	12/13/2019 15:33	WG1394830
Fluorene	ND		0.00100	1	12/13/2019 15:33	WG1394830
Hexachlorobenzene	ND		0.00100	1	12/13/2019 15:33	WG1394830
Hexachloro-1,3-butadiene	ND		0.0100	1	12/13/2019 15:33	WG1394830
Hexachloroethane	ND		0.0100	1	12/13/2019 15:33	WG1394830
Indeno(1,2,3-cd)pyrene	ND		0.00100	1	12/13/2019 15:33	WG1394830
Isophorone	ND		0.0100	1	12/13/2019 15:33	WG1394830
Naphthalene	ND		0.00100	1	12/13/2019 15:33	WG1394830
Nitrobenzene	ND		0.0100	1	12/13/2019 15:33	WG1394830
n-Nitrosodimethylamine n-Nitrosodi-n-propylamine	ND ND		0.0100	1	12/13/2019 15:33	WG1394830
n-Nitrosodiphenylamine			0.0100	1	12/13/2019 15:33	WG1394830
Phenanthrene	ND ND		0.0100	1	12/13/2019 15:33	WG1394830
Pyrene	ND		0.00100	1	12/13/2019 15:33	WG1394830
1,2,4-Trichlorobenzene	ND		0.00100	1	12/13/2019 15:33	WG1394830
2-Chlorophenol	ND		0.0100	1	12/13/2019 15:33	WG1394830
2,4-Dichlorophenol	ND		0.0100	1	12/13/2019 15:33 12/13/2019 15:33	WG1394830 WG1394830
2,4-Dimethylphenol	ND		0.0100	1	12/13/2019 15:33	WG1394830 WG1394830
4,6-Dinitro-2-methylphenol	ND		0.0100	1	12/13/2019 15:33	WG1394830 WG1394830
2,4-Dinitrophenol	ND		0.0100	1		
2-Nitrophenol	ND		0.0100	1	12/13/2019 15:33	WG1394830
4-Nitrophenol	ND		0.0100		12/13/2019 15:33	WG1394830
4-Chloro-3-methylphenol	ND		0.0100	1	12/13/2019 15:33 12/13/2019 15:33	WG1394830
Pentachlorophenol	ND		0.0100			WG1394830
Phenol	ND			1	12/13/2019 15:33	WG1394830
2,4,6-Trichlorophenol			0.0100	1	12/13/2019 15:33	WG1394830
and the second se	ND 24.7		0.0100	1	12/13/2019 15:33	WG1394830
-Fluorophenol henol-d5	34.7		10.0-120		12/13/2019 15:33	WG1394830
	22.9		8.00-424		12/13/2019 15:33	WG1394830
(S) Nitrobenzene-d5	51.8		15.0-314		12/13/2019 15:33	WG1394830

ACCOUNT: City of Athens WWTP PROJECT:

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SAMPLE RESULTS - 02

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

The Alexandree States	Result	Qualifier	RDL	Dilution	Analysis	Batch	and the second
Analyte	mg/l		mg/l		date / time		
?-Fluorobiphenyl	57.3		22.0-127	12.13	12/13/2019 15:33	WG1394830	
2,4,6-Tribromophenol	84.5		10.0-153		12/13/2019 15:33	WG1394830	
(S) p-Terphenyl-d14	77.5		29.0-141		12/13/2019 15:33	WG1394830	



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GLOSSARY OF TERMS

Ср

Tc

Ss

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Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
Qualifier	Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

SDG: L1167849

ACCREDITATIONS & LOCATIONS

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turm-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory ace applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska.	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina 1	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia 1	923	North Dakota	R-140
idaho	TN00003	Ohio-VAP	CL0069
Minois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky 16	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Lauislana	Al30792	Tennessee 14	2006
Louisiana 1	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ^s	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

Third Party Federal Accreditations

A2LA - ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA - ISO 17025 5	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Pace Analytical® National Center for Testing & Innovation

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD 2220 BELTLINE ROAD SW DECATUR, ALABAMA 35601 (256) 350-0846

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PAGE	1	of	1
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CLIENT EMAIL		. 1	HONE NUMBER									10	2.	5	W.S.	105	ļ		Ì				
tnorman@athens-uti		2	56-233-87								BEG) N	SBG	ZNG			8			1. · ·			
SAMPLE COLLECTED BY	· · · · · · · · · · · ·		- "	EXPEDITED RI			-	. <i>3</i>			ASG, E	CRG, CUG	NIG, PBG, SI	SEG, TLG, Z	HARDMETALS	CAICP, MGICP	DECNO3NO2	1.2)S	Z			
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LAB NUMBER		SAMPL	E DESCRIF	PTION	IRAN	ISFER/GRA		TME	GRAB	COMP	AGG, CDG, NIG, F SEG, HARD			No.	Ū.	Ш	Ш Ш	Ŭ		· ·			
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INFORMATION	SM 45	500H+B	SM 450	00-CI D	SM 4500	0-0 G	. SM	2550B	1			Poly	Pint	HNC	03			LL Metals					
Start 12/4/19	pH ; SU		TRC mg/l	D	0		Temp deg C		1			Poly	Qrt (Cool	6c						N/N.	TDS	5
Start 22:12 Time 20:17	Date		Date	Da	ite		Date	×.	1			Poly						62			P. ⁻	TKN	
Stop Date 12/5/19	Time		Time	' Tù	ne		Time	4 • x	•										1				
Stop Time 22:24	Analyst	· · · · ·	Analyst	Ana	lyst	,	Analyst																
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Pace Analytical " National Center for Testing & Innovation

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD 2220 BELTLINE ROAD SW DECATUR, ALABAMA 35601 (256) 350-0846

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Tim Norman				erfer Ro			Ather	ns, AL 3	5611																
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Pace Analytical LAB NUMBER	r.	SAMPLE D	ESCRIP	TION		SAM TRANSFE DA	ER/GRAE	TRANSF	1PLE ER/GRAB ME	GRAB	COMP	DECCN	OGHEX	PHT	625.1F2C	V624.1F2C	PICKUP	4		1.			~		
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SAMPLER			F	IELD IN	FORMA	TION				Qt	y			Тур)e						Pr	aram	eter	s	
INFORMATION	SM 450	0H+B	SM 450	0-CI D	St	M 4500-O	G	SM	2550B	1 1		Pol	y Pin	t NA	оно	Cool 6	3C	17	12			CI	N		
Start Date	pH SU	i	RC ng/l		DO mg/i			Temp deg C		2		GL W										0	G		
Start Time	. Date	C	ate		Date			Date		1		Ambe	er Lite	er H2	2804	Coo	ol 6c		L2		F	hen	olics	;	
Stop Date	- Time	Г	ïme		Time			Time		1		Ar	nber	100	ml Co	ool 60	2					62	5		
Stop Time	Analyst	Ar	alyst		Analys	st		Analyst		3		V	OA 4	Oml	Vials	lced						62	.4		
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RELINQUISHED BY: (SIGNATUR	E)	DATE 12/04/2019	TIME 13:0		RELINQUISH	ED BY ISIG	NATURE)		DATE		TIME						: (SIGN		E)		DATE			TIME	
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ANALYTICAL REPORT

July 28, 2020

City of Athens WWTP

Sample Delivery Group: Samples Received: Project Number: Description: L1241468 07/20/2020

Report To:

Tim Norman PO Box 1089 Athens, AL 35611

Entire Report Reviewed By:

Douty P Poberts

Dorothy P Roberts Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTUL-0067 and ENV-SOP-MTUL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

PROJECT:

SDG: L1241468 DATE/TIME: 07/28/20 10:07

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SDG: L1241468 DATE/TIME: 07/28/20 10:07

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.

EFFLUENT PERMIT RENEWAL L1241468-01 WW			Collected by CLIENT	Collected date/time 07/20/20 00:03	Received da 07/20/20 13:	
bit	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Calculated Results	WG1512257	1	07/22/20 08:32	07/22/20 08:32	TRB	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 C-2011	WG1514054	1	07/23/20 12:52	07/27/20 07:11	JDR	Decatur, AL
Net Chemistry by Method 300.0	WG1512042	1	07/20/20 16:36	07/20/20 16:36	LLW	Decatur, AL
Net Chemistry by Method 4500-Norg C	WG1513249	1	07/22/20 08:45	07/22/20 08:45	JDR	Decatur, AL
Net Chemistry by Method EPA 365.3	WG1514836	1	07/24/20 10:25	07/24/20 15:20	JTM	Decatur, AL
Metals (ICP) by Method 200.7	WG1512257	1	07/21/20 16:44	07/22/20 08:32	TRB	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG1512353	1	07/21/20 15:44	07/22/20 02:02	TM	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG1512353	1	07/21/20 15:44	07/22/20 09:36	JPD	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
EFFLUENT PERMIT RENEWAL L1241468-02 WW			CLIENT	07/20/20 08:02	07/20/20 13:	30
Vethod	Batch	Dilution	Preparation	Analysis	Analyst	Location

				•	•	
			date/time	date/time	_	
Wet Chemistry by Method 1664A	WG1513455	1	07/22/20 17:57	07/23/20 09:08	DLH	Mt. Juliet, TN
Wet Chemistry by Method 420.4	WG1513604	1	07/22/20 20:00	07/23/20 15:13	SDL	Mt. Juliet, TN
Wet Chemistry by Method ASTM D7511-12	WG1512308	1	07/21/20 09:13	07/21/20 09:13	JDR	Decatur, AL
Volatile Organic Compounds (GC/MS) by Method 624.1	WG1513239	1	07/22/20 16:40	07/22/20 16:40	ACG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	WG1514147	1	07/24/20 00:41	07/24/20 11:53	AO	Mt. Juliet, TN

ACCOUNT: City of Athens WWTP ¥

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CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Doutly P Poberts

Dorothy P Roberts Project Manager

DATE/TIME: 07/28/20 10:07

PAGE: 4 of 14

EFFLUENT PERMIT RENEWAL Collected date/time: 07/20/20 00:03

SAMPLE RESULTS - 01

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Calculated Results

	Result	Qualifier	RDL	Dilution	Analysis	Batch	
te	mg/l		mg/l		date / time		2
less (calculated) as CaCO3	160		2.50	1	07/22/2020 08:32	WG1512257	2.

Gravimetric Analysis by Method 2540 C-2011

Gravimetric Analy	Gravimetric Analysis by Method 2540 C-2011										
	Result	Qualifier	RDL	Dilution	Analysis	Batch					
Analyte	mg/l		mg/l		date / time		⁴ Cn				
Dissolved Solids	313		1.00	1	07/27/2020 07:11	WG1514054	CI				

Wet Chemistry by Method 300.0

	Result	Qualifier	RDL	Dilution	Analysis	Batch	6
Analyte	mg/l		mg/l		date / time		Ĝ
Nitrate-Nitrite	4.54		0.0600	1	07/20/2020 16:36	WG1512042	

Wet Chemistry by Method 4500-Norg C

All 51 (2016) 82(3566)	Result	Qualifier	RDL	Dilution	Analysis	Batch	8
Analyte	mg/l		mg/l		date / time		SC
Kjeldahl Nitrogen, TKN	3.67		1.50	1	07/22/2020 08:45	WG1513249	1.00

Wet Chemistry by Method EPA 365.3

A P R C	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Phosphorus	ND		1.00	1	07/24/2020 15:20	WG1514836

Metals (ICP) by Method 200.7

	Result	Qualifier	RDL	Dilution	Analysis	Batch	
:e	mg/l		mg/l		date / time		
Calcium	55.2		1.00	1	07/22/2020 08:32	WG1512257	
Magnesium	5.30		1.00	1	07/22/2020 08:32	WG1512257	

Metals (ICPMS) by Method 200.8

	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		
Antimony	ND		0.00500	1	07/22/2020 09:36	WG1512353	
Arsenic	ND		0.00100	1	07/22/2020 02:02	WG1512353	
Beryllium	ND		0.00100	1	07/22/2020 02:02	WG1512353	
Cadmium	ND		0.00100	1	07/22/2020 02:02	WG1512353	
Chromium	ND		0.0200	1	07/22/2020 02:02	WG1512353	
Copper	0.00472		0.00100	1	07/22/2020 02:02	WG1512353	
Lead	ND		0.00200	1	07/22/2020 02:02	WG1512353	
Nickel	0.00332		0.00200	1	07/22/2020 02:02	WG1512353	
Selenium	ND		0.00200	1	07/22/2020 02:02	WG1512353	
Silver	ND		0.00100	1	07/22/2020 02:02	WG1512353	
Thallium	ND		0.00100	1	07/22/2020 02:02	WG1512353	
Zinc	0.0527		0.0200	1	07/22/2020 02:02	WG1512353	

PROJECT:

SDG: L1241468

EFFLUENT PERMIT RENEWAL Collected date/time: 07/20/20 08:02

SAMPLE RESULTS - 02 L1241468

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Wet Chemistry by Method 1664A

	Result	Qualifier	RDL	Dilution	Analysis	Batch	
te	mg/l		mg/l		date / time		
Grease (Hexane Extr)	ND		5.44	1	07/23/2020 09:08	WG1513455	

Wet Chemistry by Method 420.4

	Result	Qualifier	RDL	Dilution	Analysis	Batch	
Analyte	mg/l		mg/l		date / time		
Total Phenol by 4AAP	ND	<u>J6</u>	0.0400	1	07/23/2020 15:13	WG1513604	

Wet Chemistry by Method ASTM D7511-12

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Cyanide	ND		0.00500	1	07/21/2020 09:13	WG1512308

Volatile Organic Compounds (GC/MS) by Method 624.1

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/l		mg/l		date / time	
Acrolein	ND		0.0500	1	07/22/2020 16:40	WG1513239
Acrylonitrile	ND		0.0100	1	07/22/2020 16:40	WG1513239
Benzene	ND		0.00100	1	07/22/2020 16:40	WG1513239
Bromoform	ND		0.00100	1	07/22/2020 16:40	WG1513239
Carbon tetrachloride	ND		0.00100	1	07/22/2020 16:40	WG1513239
Chlorobenzene	ND		0.00100	1	07/22/2020 16:40	WG1513239
Chlorodibromomethane	ND		0.00100	1	07/22/2020 16:40	WG1513239
Chloroethane	ND		0.00500	1	07/22/2020 16:40	WG1513239
2-Chloroethyl vinyl ether	ND		0.0500	1	07/22/2020 16:40	WG1513239
oform	ND		0.00500	1	07/22/2020 16:40	WG1513239
odichloromethane	ND		0.00100	1	07/22/2020 16:40	WG1513239
1,1-Dichloroethane	ND		0.00100	1	07/22/2020 16:40	WG1513239
1,2-Dichloroethane	ND		0.00100	1	07/22/2020 16:40	WG1513239
1,1-Dichloroethene	ND		0.00100	1	07/22/2020 16:40	WG1513239
1,2-Dichloropropane	ND		0.00100	1	07/22/2020 16:40	WG1513239
cis-1,3-Dichloropropene	ND		0.00100	1	07/22/2020 16:40	WG1513239
trans-1,3-Dichloropropene	ND		0.00100	1	07/22/2020 16:40	WG1513239
Ethylbenzene	ND		0.00100	1	07/22/2020 16:40	WG1513239
Bromomethane	ND		0.00500	1	07/22/2020 16:40	WG1513239
Chloromethane	ND		0.00250	1	07/22/2020 16:40	WG1513239
Methylene Chloride	ND		0.00500	1	07/22/2020 16:40	WG1513239
1,1,2,2-Tetrachloroethane	ND		0.00100	1	07/22/2020 16:40	WG1513239
Tetrachloroethene	ND		0.00100	1	07/22/2020 16:40	WG1513239
Toluene	ND		0.00100	1	07/22/2020 16:40	WG1513239
trans-1,2-Dichloroethene	ND		0.00100	1	07/22/2020 16:40	WG1513239
1,1,1-Trichloroethane	ND		0.00100	1	07/22/2020 16:40	WG1513239
1,1,2-Trichloroethane	ND		0.00100	1	07/22/2020 16:40	WG1513239
Trichloroethene	ND		0.00100	1	07/22/2020 16:40	WG1513239
Vinyl chloride	ND		0.00100	1	07/22/2020 16:40	WG1513239
1,2-Dichlorobenzene	ND		0.00100	1	07/22/2020 16:40	WG1513239
1,3-Dichlorobenzene	ND		0.00100	1	07/22/2020 16:40	WG1513239
1,4-Dichlorobenzene	ND		0.00100	1	07/22/2020 16:40	WG1513239
(S) Toluene-d8	111		80.0-120		07/22/2020 16:40	WG1513239
(S) 4-Bromofluorobenzene	110		80.0-120		07/22/2020 16:40	WG1513239
(S) 1,2-Dichloroethane-d4	94.1		70.0-130		07/22/2020 16:40	WG1513239

SDG: L1241468

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Semi Volatile Organic Compounds (GC/MS) by Method 625.1

*' te	Result Quali mg/l	fier RDL mg/l	Dilution	Analysis date / time	Batch	
aphthene	ND	0.00100	1	07/24/2020 11:53	WG1514147	<u>, , , , , , , , , , , , , , , , , , , </u>
Acenaphthylene	ND	0.00100	1	07/24/2020 11:53	WG1514147 WG1514147	
Anthracene	ND	0.00100	1	07/24/2020 11:53	WG1514147	
Benzidine	ND	0.0100	1	07/24/2020 11:53	WG1514147	
lenzo(a)anthracene	ND	0.00100	1	07/24/2020 11:53	WG1514147	
Senzo(a)pyrene	ND	0.00100	1	07/24/2020 11:53	WG1514147	
enzo(b)fluoranthene	ND	0.00100	1	07/24/2020 11:53	WG1514147	
enzo(g,h,i)perylene	ND	0.00100	1	07/24/2020 11:53	WG1514147	
enzo(k)fluoranthene	ND	0.00100	1	07/24/2020 11:53	WG1514147	
lis(2-chlorethoxy)methane	ND	0.0100	1	07/24/2020 11:53	WG1514147	
is(2-chloroethyl)ether	ND	0.0100	1	07/24/2020 11:53	WG1514147	
,2-Oxybis(1-Chloropropane)	ND	0.0100	1	07/24/2020 11:53	WG1514147	
is(2-ethylhexyl)phthalate	ND	0.00300	1	07/24/2020 11:53	WG1514147	
-Bromophenyl-phenylether	ND	0.0100	1	07/24/2020 11:53	WG1514147	
enzylbutyl phthalate	ND	0.00300	1	07/24/2020 11:53	WG1514147	
-Chloronaphthalene	ND	0.00100	1	07/24/2020 11:53	WG1514147	
-Chlorophenyl-phenylether	ND	0.0100	1	07/24/2020 11:53	WG1514147	
hrysene	ND	0.00100	1	07/24/2020 11:53	WG1514147	
ibenz(a,h)anthracene	ND	0.00100	1	07/24/2020 11:53	WG1514147	
3-Dichlorobenzidine	ND	0.0100	1	07/24/2020 11:53	WG1514147	
iethyl phthalate	ND	0.00300	1	07/24/2020 11:53	WG1514147	
imethyl phthalate	ND	0.00300	1	07/24/2020 11:53	WG1514147	
i-n-butyl phthalate	ND	0.00300	1	07/24/2020 11:53	WG1514147	
4-Dinitrotoluene	ND	0.0100	1	07/24/2020 11:53	WG1514147	
6-Dinitrotoluene	ND	0.0100	1	07/24/2020 11:53	WG1514147	
-n-octyl phthalate	ND	0.00300	1	07/24/2020 11:53	WG1514147	
phenylhydrazine	ND	0.0100	1	07/24/2020 11:53	WG1514147	
nthene	ND	0.00100	1	07/24/2020 11:53	WG1514147	
uorene	ND	0.00100	1	07/24/2020 11:53	WG1514147	
exachlorobenzene	ND	0.00100	1	07/24/2020 11:53	WG1514147	
exachloro-1,3-butadiene	ND	0.0100	1	07/24/2020 11:53	WG1514147	
exachloroethane	ND	0.0100	1	07/24/2020 11:53	WG1514147	
deno(1,2,3-cd)pyrene	ND	0.00100	1	07/24/2020 11:53	WG1514147	
ophorone	ND	0.0100	1	07/24/2020 11:53	WG1514147	
aphthalene	ND	0.00100	1	07/24/2020 11:53	WG1514147	
itrobenzene	ND	0.0100	1	07/24/2020 11:53	WG1514147	
Nitrosodimethylamine	ND	0.0100	1	07/24/2020 11:53	WG1514147	
Nitrosodi-n-propylamine	ND	0.0100	1	07/24/2020 11:53	WG1514147	
Nitrosodiphenylamine	ND	0.0100	1	07/24/2020 11:53	WG1514147	
henanthrene	ND	0.00100	1	07/24/2020 11:53	WG1514147	
rene	ND	0.00100	1	07/24/2020 11:53	WG1514147	
2,4-Trichlorobenzene	ND	0.0100	1	07/24/2020 11:53	WG1514147	
Chlorophenol	ND	0.0100	1	07/24/2020 11:53	WG1514147	
4-Dichlorophenol	ND	0.0100	1	07/24/2020 11:53	WG1514147	
4-Dimethylphenol	ND	0.0100	1	07/24/2020 11:53	WG1514147	
6-Dinitro-2-methylphenol	ND	0.0100	1	07/24/2020 11:53	WG1514147	
4-Dinitrophenol	ND	0.0100	1	07/24/2020 11:53	WG1514147	
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Nitrophenol	ND	0.0100	1	07/24/2020 11:53	WG1514147	
Chloro-3-methylphenol	ND	0.0100	1	07/24/2020 11:53	WG1514147	
entachlorophenol	ND	0.0100	1	07/24/2020 11:53	WG1514147	
nenol	ND	0.0100	1	07/24/2020 11:53	WG1514147	
▲ ← Trichlorophenol	ND	0.0100	1	07/24/2020 11:53	WG1514147	
-Fluorophenol	20.5	10.0-120		07/24/2020 11:53	WG1514147	
(S) rhenol-d5	15.6	8.00-424		07/24/2020 11:53	WG1514147	
(S) Nitrobenzene-d5	32.0	15.0-314		07/24/2020 11:53	WG1514147	
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City of Athens WWTP

SDG: L1241468

07/28/20 10:07

SAMPLE RESULTS - 02

Semi Volatile Organic Compounds (GC/MS) by Method 625.1

	Decult	Qualifiar	DDI	Dilution	Analysis	Batch
	Result	Qualifier	RDL	Dilution	Analysis	Balch
^'rte	mg/l		mg/l		date / time	
2-Fluorobiphenyl	39.5		22.0-127		07/24/2020 11:53	WG1514147
(S) 2,4,6-Tribromophenol	61.7		10.0-153		07/24/2020 11:53	WG1514147
(S) p-Terphenyl-d14	62.2		29.0-141		07/24/2020 11:53	WG1514147

GLOSSARY OF TERMS

Ср

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Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
Qualifier	Description
16	The sample matrix interfered with the ability to make any accurate determination; spike value is low

J6

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

SDG: L1241468

DATE/TIME: 07/28/20 10:07

ACCREDITATIONS & LOCATIONS

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE. * Not all certifications held by the laboratory are applicable to the results reported in the attached report. * Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-0S-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico 1	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina 1	DW21704
Georgia	NELAP	North Carolina ⁹	41
Georgia ¹	923	North Dakota	R-140
ldaho	TN00003	Ohlo-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ¹⁶	90010	South Carolina	84004
Kentucký ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee 14	2006
Louisiana 1	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginla	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	AZLA

Third Party Federal Accreditations

A2LA - ISO 17025	1461.01	AIHA-LAP.LLC EMLAP	100789
A2LA - ISO 17025 5	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.





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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD 2220 BELTLINE ROAD SW DECATUR, ALABAMA 35601 (256) 350-0846

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD 2220 BELTLINE ROAD SW DECATUR, ALABAMA 35601 (256) 350-0846

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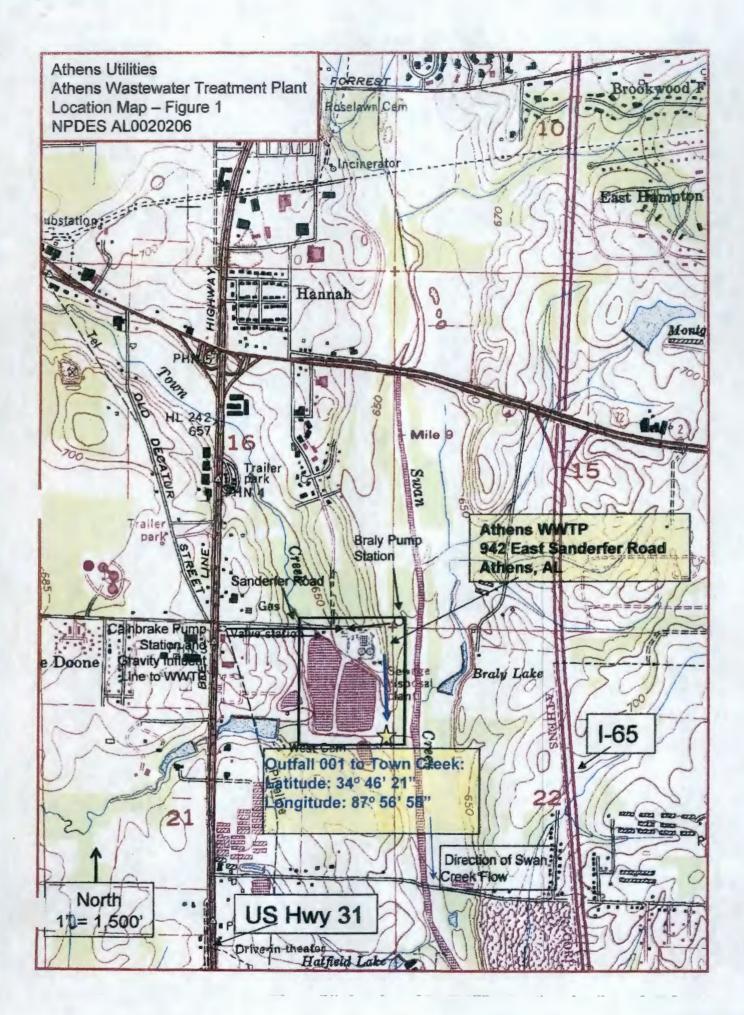
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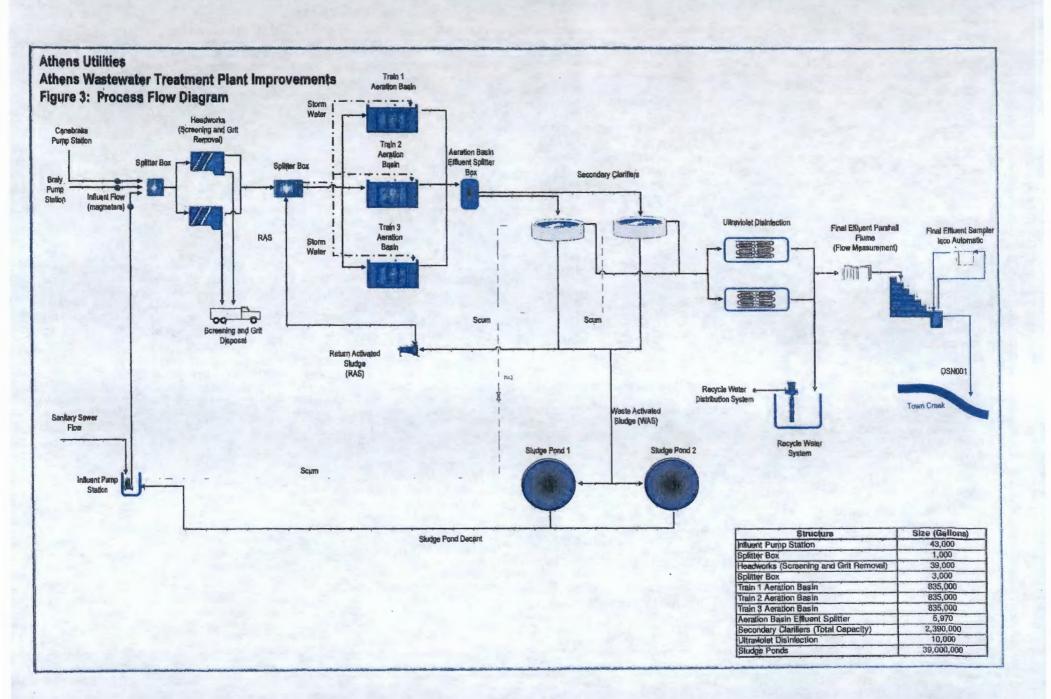


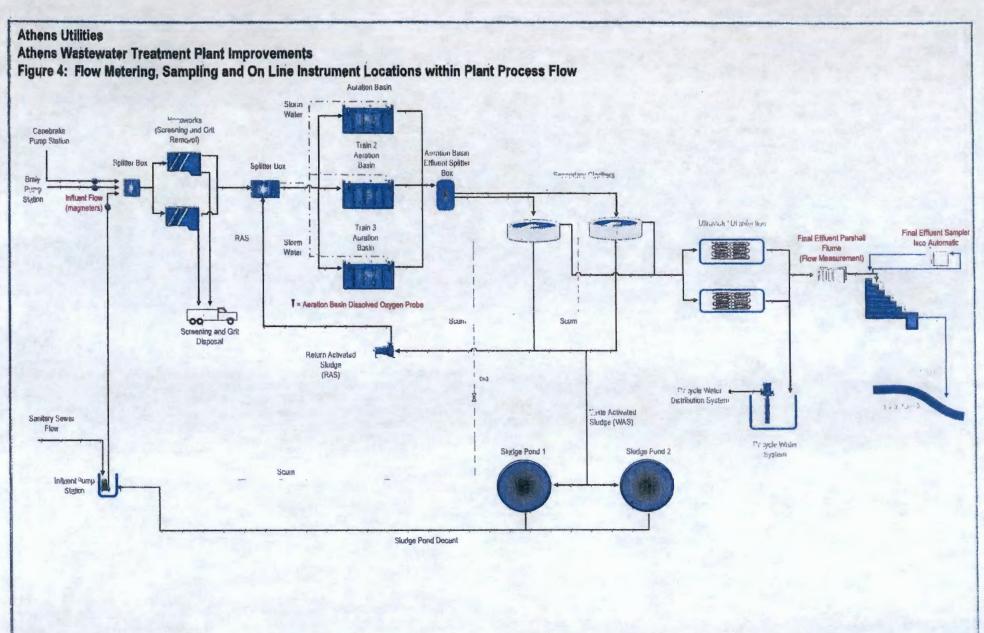
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www.pacenational.co

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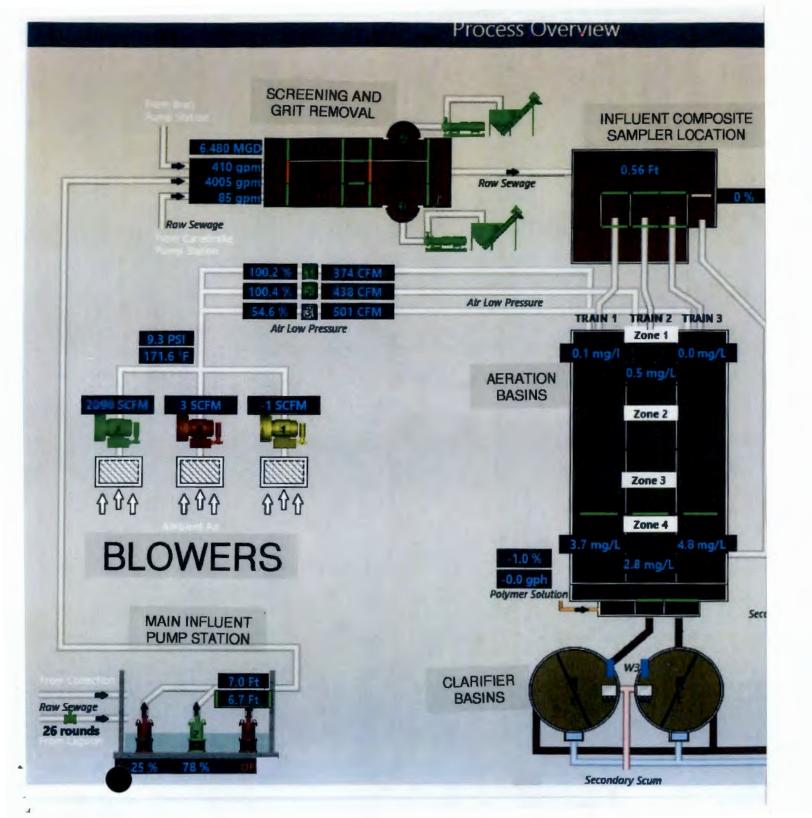






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ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM) NPDES INDIVIDUAL PERMIT APPLICATION

SUPPLEMENTARY INFORMATION FOR PUBLICLY-OWNED TREATMENT WORKS (POTW), OTHER TREATMENT WORKS TREATING DOMESTIC SEWAGE (TWTDS), AND PUBLIC WATER SUPPLY TREATMENT PLANTS

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

	ADEM-Water Division Municipal Section	RECEIVED
	P O Box 301463 Montgomery, AL 36130-1463	MAR 0 1 2021
	PURPOSE OF THIS APPLICATION	MUNICIPAL SECTION
	Initial Permit Application for New Facility* Initial Permit Application for Existing Facility* Modification of Existing Permit Reissuance of Existing Permit Revocation & Reissuance of Existing Permit * An application for participation in the ADEM's Electronic submitted to allow permittee to electronically submit report	Environmental (E2) Reporting must be
SEC	CTION A - GENERAL INFORMATION	· · · · · · · ·
[.] 1.	Facility Name: Athens Wastewater Treatment Plant Facility County	Limestone
	a. Operator Name: City of Athens Utilities	
	b. Is the operator identified in A.1.a, the owner of the facility? ⊠Yes □No	• •
	If No, provide the following information:	
	Operator Name: <u>NA</u>	· .
	Operator Address (Street or PO Box): NA	
	City: NA NA	Zip: <u>NA</u>
	Phone Number: NA Email Address: NA	
	Operator Status: Public-federal Public-state X Public-other (please specify): <u>Municipal</u> Private Other (please specify): NA	· · ·
	Describe the operator's scope of responsibility for the facility:	
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	c. Name of Permittee* if different than Operator: NA	
	*Permittee will be responsible for compliance with the conditions of the permit	
2.	NPDES Permit Number: <u>AL 0020206</u> (Not applicable if initial per	mit application)
3.	Facility Location (Front Gate): Latitude: 34° 46' 28" Longitude: 86° 57' 9'	,
4.	Responsible Official (as described on last page of this application):	
	Name and Title: Jimmy Junkin, Water Services Department Manager	
	Address: 1806 Wilkinson Street (PO Box 1089)	
	City: Athens State: AL	Zip: 35612
	Phone Number: 256-232-1440 Email Address: jjunkin@athens-utilities.com	

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5.	Designated Facil	ity/DMR Contact:					
	Name: Virgil White	e		Title: Wast	ewater Tre	atment Plant Superir	itendent
	Phone Number:	256-497-7451	Email A	Address: <u>vwh</u>	ite@athens	s-utilities.com	
3.	Designated Emer	rgency Contact:					
	Name: Jimmy Jun	ıkin	-	Title: Wate	er Services	Department Manage	r
	Phone Number:	256-232-1440	Email A	Address: jjuni	in@athens	s-utilities.com	
7.		this section if the A al not listed in A.4.	Applicant's business e	entity is a P	roprietors	hip or Limited Lia	bility Company (LLC) with
	Name: NA			Title: <u>NA</u>			
	Address: NA			•			
	City: NA		State				p:_NA
	Phone Number:						
3.	concerning water		rmit violations, if any a				onsent Decrees, or Litigatio labama in the past five year
	<u>Facilit</u>	t <u>y Name</u>	<u>Permit</u> Number	-	Type of	f Action	Date of Action
	Athens Wastewater	Treatment Plant	AL0020206	TSS Excursion	 on	•••	March 2017
	Athens Wastewater	Treatment Plant	AL0020206	Ecoli Max Da	ily Excursi	on	June 2017
	Athens Wastewater	Treatment Plant	AL0020206	Ecoli Max Da	ily Excursi	on	July 2018
	Athens Wastewater	Treatment Plant	AL0020206	Consent Ord	er		November, 2019
1. 2.	Attach a process fi Do you share an o For each shared o		treatment process, inc cility? □ Yes ⊠ No	o (If no, cont	inue to B.	3)	d sample collection locations
	Applicant's Outfall No.	Name of Other	Permittee/Facility	NPD Permit			s sample collected / Applicant?
	NA	NA		NA		NA	
	NA	NA		NA		NA	
	NA	<u>NA</u>		NA		NA	
3.	Do you have, or pl	an to have, automatio	c sampling equipment	or continuou	s wastewa	ater flow metering	equipment at this facility?
		Current:	Flow Metering Sampling Equipmer	X Yes	□ No □ No	□ N/A □ N/A	
		Planned:	Flow Metering Sampling Equipmer	X Yes	N₀ N₀	□ N/A ⊠ N/A	
	If so, please attac describe the equi				_	_	of this equipment and
	Annual State Contraction of the Annual State and State and State and State and State and State and State and St						

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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)?

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

New lift stations are currently planned or proposed at Huntsville-Brownsferry Road, Hatfield Lake Road, Nature's Cove, Lindsay Lane Christian Academy, Lucas Ferry Farms, Brookhill Landing/Cottage, Pepper Road, and Athens Preserve. Total expected flow of about 0.3 to 1.0 MGD.

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
Wasted Activated Sludge	East Sludge Storage Lagoon on WWTP grounds
Wasted Activated Sludge	West Sludge Storage Lagoon on WWTP grounds
	-

*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)		ct to SID rmit?
American Leakless	Process wastewaters associated with coll coating operations	Existing	0.003	📓 Yes	No
Cast Products Incorporated	Process wastewaters associated with aluminum casting operations	Existing	0.002	🖬 Yes	No
Federal Mogul	Wastewater associated with the manufacture of automotive parts	Existing	0.062	🚺 Yes	□No
Steelcase	Industrial wastewater resulting from metal finishing from operations	Existing	0.021	🕅 Yes	No
Indorama	Process wastewaters associated with the production of polyethelene terephathalate (PET) flakes and pellets	Existing	0.075	🔛 Yes	ΠNO
				🗌 Yes	Mo
				🗌 Yes	No
				🗌 Yes	ΠNο
				🗌 Yes	ΠNο

2. Are industrial wastewater contributions regulated via a locally approved sewer use ordinance?

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If yes, please attach a copy of the ordinance.

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MUNICIPAL SECTION

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:

		res	NO	
1.	Does the project require new construction?			
2.	Will the project be a source of new air emissions?			
3.	Does the project involve dredging and/or filling of a wetland area or water way?			
	If Yes, has the Corps of Engineers (COE) permit been received? COE Project No			
4.	Does the project involve wetlands and/or submersed grassbeds?			
5.	Are oyster reefs located near the project site?			
	If Yes, include a map showing project and discharge location with respect to oyster reefs			
6.	Does the project involve the site developement, construction and operation of an energy facility as defined in ADEM Admin. Code r. 335-8-102(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.

NA

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 <u>each_treatment</u> 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?

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

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

 NA

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

 NA

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

 NA

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

 NA

SECTION G – EPA Application Forms

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

- 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 - RECEIVING WATERS

Outfall No. 001	Receiving Water(s) Town Creek - approx 100 yds before Swan Creek which is on 303(d)	303(d) Segment?		Included in TMDL?*	
		Yes	[INo	Yes	No
		Yes	No	Ves Ves	No
		Yes	No	Ves	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:	Climmo timbri.	Date Signed: 8/25/22
Name: Jimmy Junkin	Title: Water Se	ervices Department Manager

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

Mailing Address: 1806 Wilkinson Street (PO Box 1089)

City: Athens	State: Alabama	_Zip:	35612
Phone Number: 256-232-1440	Email Address; junkin@athens-utilities.com		

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.

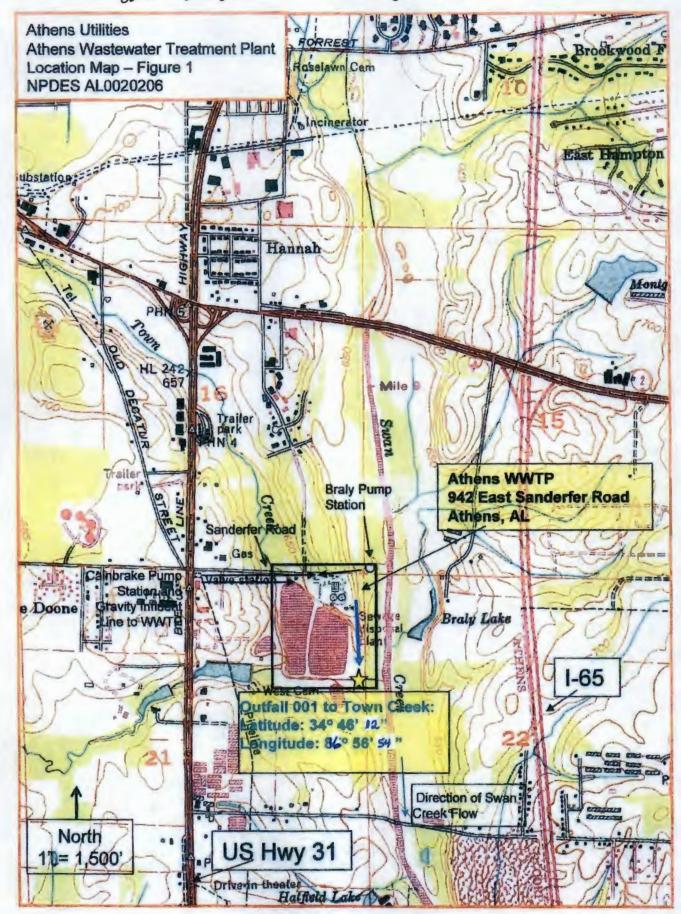
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ADEM Form 188 m4 04/2020

Outtail GHS Coordinates corrected August 2022.

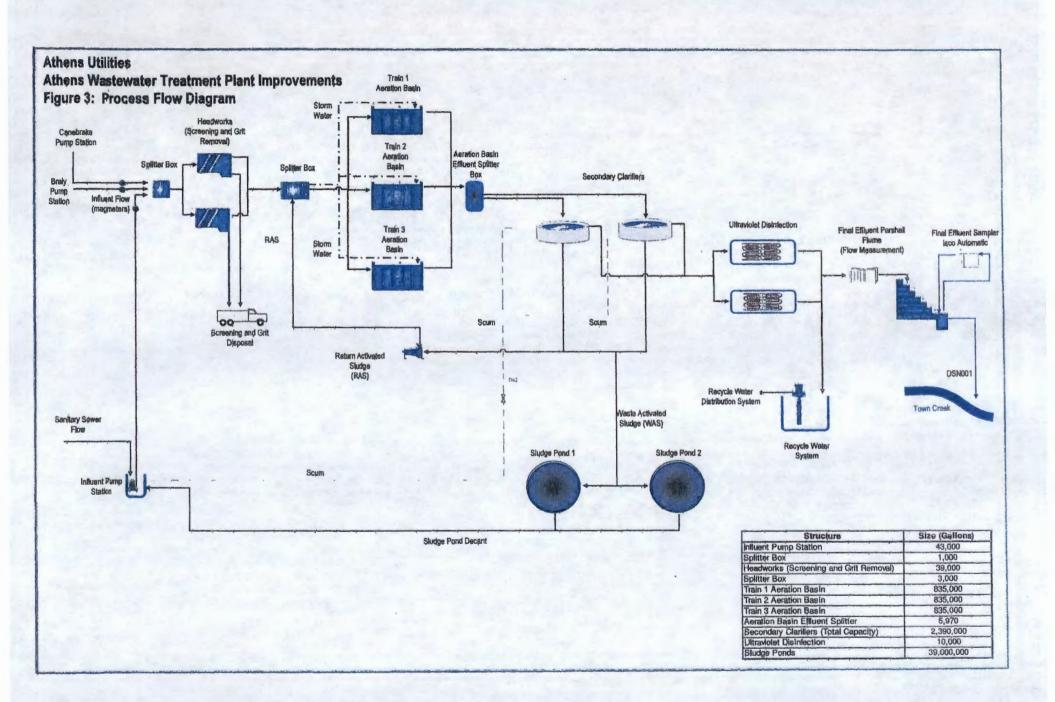


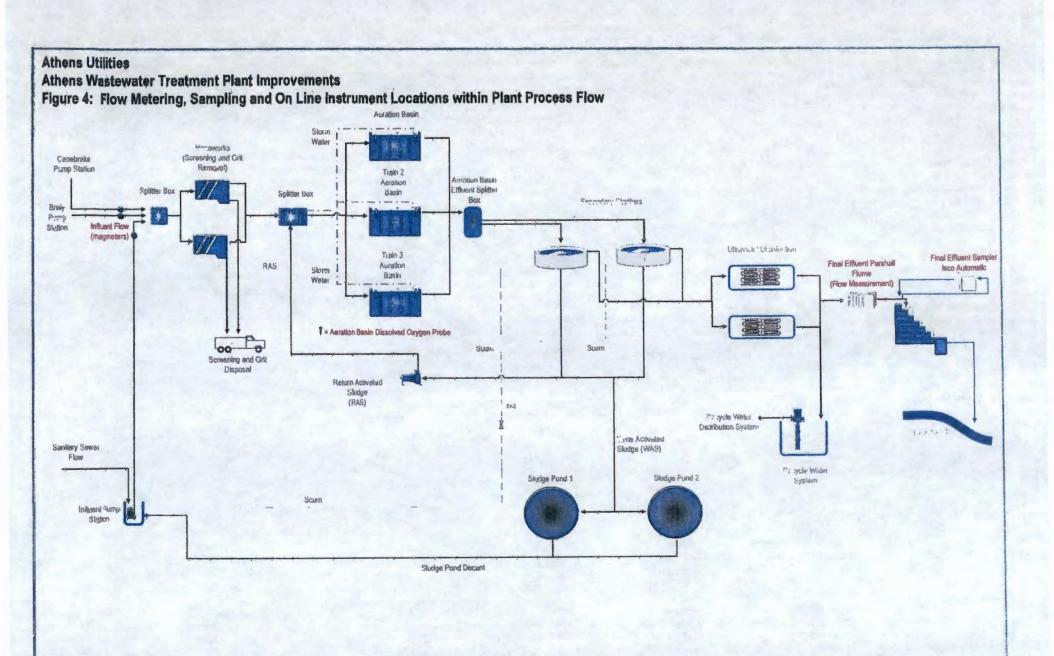
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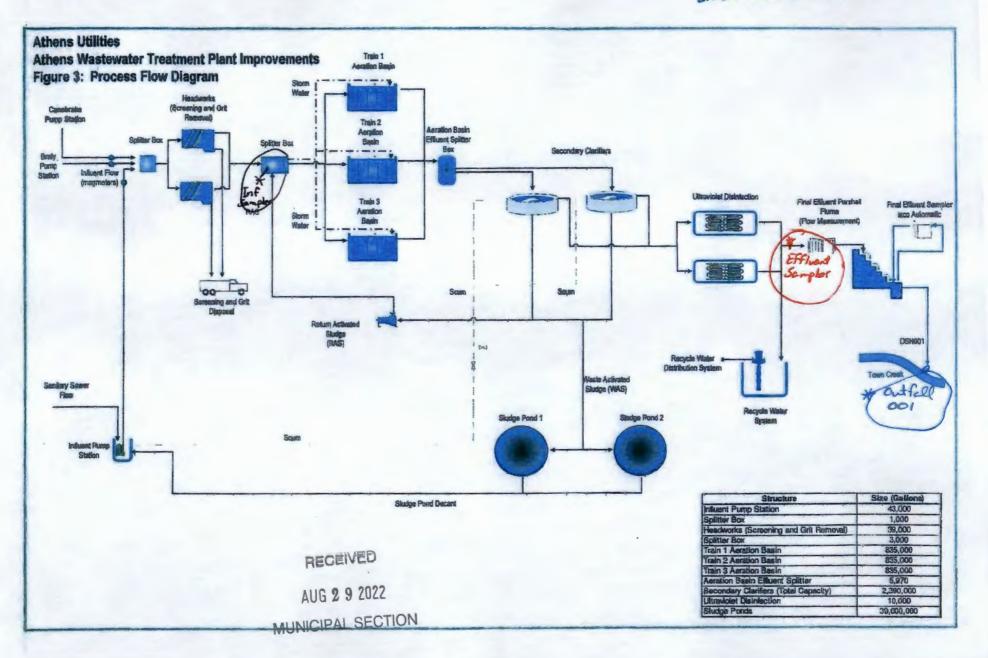




* Influent Composite Sounder 34° 46' 28" N 86° 56' 58' W

* Effluent Composite Sompler. 34° 46' 26' N 86° 57' 19" W

Houtfall 001 Location 34" 46' 12" N 86° 56' 54" W Enters Town Creek before Swan Creek



Athens Utilities Athens Wastewater Treatment Plant Improvements Figure 4: Flow Metering, Sampling and On Line Instrument Locations within Plant Process Flow Acceler Batin Storm **Water** disidents. Flow Rate per C Push (Screi/ibs and Gill Canabraka 2.02 UV SYSTEM DESIGN CRITERIA Flow Rate (mpl Renoval Punt Station Train 2 A. Provide a system to distribute the efflorest from the Athens. AL Unities manifered washwater treatment plant with the following characteristics: Aeration Easin (mail) Inflorent Man Lapson Flore Aeraboo International and a second secon C'hant Spatter Splitter Bru Barin Solthe Bor 3.0 mpl 5.9 mpl Bes Correctory Chaitings Braiv 9.0 mgs Pm 17.1 mgd 20.0 mgd and Dive Station 28.6 mg5 USLands: Durchalber Texas 3 Final Elihoutt Sample **Final Ellivent Parahal** RAS Aurabion. Isco Automatic Stern Famo 858in Writer Flow Means • 111 - Agtation Basis Dissolved Oxygen Probe 00-0 Scum Sam Screening and Grit Dispocal Robert Activated Shelge Splitter Box/Aeration 7/2 2009 (845) 1+2 design flows 112 tycle Wellor Disarbution System Dariga Flees Then (mpl) LIVEN CHES Condition CalevacA str. 28.8 Sentery Saww Peak Hour How (7919) Sladge (NULS) 17.1 Maxamen Day Flow (MDF) Flow 14.3 Maxmmm Wock Flow (MWF) 90 Maximum Month Average Day Flow (MMADF) 5.9 T2 cycle Waler Annual Average Daily Flow (AADF) Skirke Pond 1 Skelpt Pund Z Minimum Month Anenage Day (MiniMADE) 3.5 Flor Sitten Scan Infumi Pump Station 15 Shatge Pond Decani The screen and grit section of the plant is designed for 28 MGD max flow at 14 MGD per screen and grit channel.

SCHEMATIC DESIGN PHASE Athens WWTP Improvements

Narrative Description No. 1 Introduction and Process Facilities Overview

PREPARED FOR:	Athens Utilities Athens, Alabama		
DATE:	April 2007		
CH2M HILL PN:	349135		

Introduction

On various occasions from March 2002 to November 2003, the Athens Wastewater Treatment Plant experienced excursions above the plant's National Pollutant Discharge Elimination System (NPDES) permit limitations. The exceeded parameters included fecal coliform, dissolved oxygen (DO), ammonia-nitrogen (NH₃-N), and total suspended solids (TSS). As a result of these permit excursions, Athens Utilities entered into a Consent Decree with ADEM in March 2006. An engineering report and compliance plan was prepared and submitted to ADEM in accordance with the requirements of the Consent Decree. A facility plan, *Athens Wastewater Treatment Facility Plan* (CH2M HILL 2006) was prepared with options and a recommendation for necessary process improvements to comply with the NDPES permit and Consent Decree stipulations.

The Athens WWTP Improvements Project is based on providing a plant capacity rating of 9.0 million gallons per day (mgd) at the current NPDES effluent requirements. The Site layout utilizes the available area on higher ground with room for future plant expansions to be constructed in the areas vacated after the abandonment of existing facilities.

The major improvements proposed for the Athens WWTP are:

- New headworks facility with influent screening and grit removal.
- New aeration basin with fine-bubble diffused aeration.
- New disinfection system using ultraviolet light.
- New cascade aeration and a new outfall.
- Two new secondary clarifiers.
- New RAS/WAS pump station.
- New operations building.
- New maintenance building.
- New entrance road from the North.
- New security cameras and gates at the entrances on both new and existing roads and connect the security fencing around the site.
- Modification of the existing secondary clarifiers for flood protection and for use during wet weather flows.
- Modification of the existing sludge pump station facility for use with the existing clarifiers during wet weather flows.

- Miscellaneous sitework, yard piping, and electrical to support the above elements.
- Demolition of certain existing plant components including the Orbal unit.
- Repair the bank erosion of the existing sludge treatment ponds and the east sludge pond distribution piping valve area.
- Reclaim the portion of the lagoons around the existing Orbal.

This report is organized in the following sections.

Process Facilities Overview

The proposed treatment process will consist of screening, grit removal, activated sludge treatment, secondary clarification, disinfection, and effluent discharge. The process flow diagram for the overall treatment process is shown in the attached figure in the Drawings section. Detailed descriptions of improvements, including process flow diagrams (PFDs), layouts, design criteria, and process control narratives, are included in the subsequent sections.

Screening and Grit Removal

Raw sewage will be pumped from the WWTP influent pump station, Canebrake Pump Station and the Braly Pump Station in separate lines to the headworks facility, where it will be screened and degritted. Screening will be accomplished by two new mechanically cleaned screens operating in parallel with one manual bypass channel. Grit removal will be accomplished with two vortex-type grit chambers in parallel. Screenings and grit will be discharged to a dumpster for disposal. A flow splitter box will be provided at the end of the headworks to route peak wastewater flows above a set point to the last zone of the aeration basin and to distribute baseload flow to online aeration basin trains.

Activated Sludge

The aeration basin will be rectangular, with three parallel activated sludge process trains. Each process train consists of four aereated zones separated by baffle walls. The basin will normally treat wastewater flows through each of the 4 zones for oxidation of CBOD5 and NH-3-N nitrification. During a storm event, peak wastewater above a set point, normally twice the AADF or 11.8 mgd will be routed to the last zone for treatment and oxidation of CBOD5. RAS will be split with weirs and routed to the first zone of each parallel train. Effluent mixed liquor from the aeration basin will flow to a channel with two fixed weirs to split flow between the new North clarifiers and one downward-acting weir gate to route flow to the South Clarifers. Piping between the aeration basin and new North clarifiers will be sized to allow the full peak flow and associated RAS (Peak flow + RAS = 29 mgd) to flow to the north clarifiers if needed.

Secondary Clarification

Mixed liquor from the aeration basin will be settled in the secondary clarifiers. The two new North clarifiers will be center feed circular clarifiers. The clarifiers are served by three vertical dry-pit centrifugal RAS pumps (firm 9 mgd capacity). WAS is accomplished by gravity flow using an automated valve with flow meter control.

The existing South clarifiers will be used for peak wastewater flow. The existing South RAS/WAS Pump Station will be converted to a RAS/WAS/Effluent Pump Station. Two new pumps will be provided to pump RAS from the South clarifiers to the RAS headbox at the aeration basin. Three new effluent pumps with 8.2 mgd capacity will be provided to pump South Clarifier effluent flow to the new UV disinfection system where it will mix with the effluent from the two North clarifiers.

Disinfection

Flow from the North and South clarifiers will combine and flow to the UV Disinfection system. The UV system will be low pressure/high intensity system with two channels. Each channel will have 2 banks of horizontally-oriented lamps and will be capable of treating the MMADF of 9.0 mgd, and hydraulically passing a PWF of 14.3 mgd. Disinfected effluent will flow through the UV disinfection channel to a Parshall flume.

Effluent Discharge

After the Parshall flume, treated effluent will flow down the steps of the cascade aerator and into a 36-inch diameter outfall leading to Swan Creek.

United States Environmental Protection Agency

Office of Water Washington, D.C.

EPA Form 3510-2F Revised March 2019

Water Permits Division

€PA

Application Form 2F Stormwater Discharges Associated with Industrial Activity

NPDES Permitting Program

Note: Complete this form *and* Form 1 if you are a new or existing facility whose discharge is composed entirely of stormwater associated with industrial activity, excluding discharges from construction activity under 40 CFR 122.26(b)(14)(x) or (b)(15). If your discharge is composed of stormwater *and* non-stormwater, you must complete Forms 1 and 2F, *and* you must complete Form 2C, 2D, or 2E, as appropriate. See the "Instructions" inside for further details.

	entification		NPDES Permit N AL 002020		Facility I Athens \				roved 03/05/ No. 2040-000
orm 2F		EPA			ronmental Pi	rotection Ag			
PDES			STORMW	ATER DISCHARG	ES ASSOCI		H INDUSTRI	AL ACTIVII	Y
CTION	1. OUT		N (40 CFR 122.21(
<u>ir net</u> r	1.1		ation on each of the	facility's outfalls in t	he table belov	V		The second second	india waava
		Outfall Number	Receiving Water Na		Latitude		angen and and and a second sec	Longitude	
<u>.</u>		0025	Town Creek	34°	46 [′] 18	3″N	86°	56′5!	5″W
Outfall Location				· · · · ·	,	"	•	,	"
Outfal				· · ·	,	"	•	,.	n
					,	n	0	,	"
					1	"	•	,	"
	2.1	upgrading, or of affect the disch		federal, state, or loc er treatment equipme this application?	ent or practice	s or any othe	er environmen	tal programs	
13.41	2.2	Yes Yes			\checkmark	No → SK	IP to Section	3	
		Brief Ider	ntification and ion of Project	ject in the table belo Affected Outfalls (list outfall numbers)	A CLASSING PRODUCT	rce(s) of Dis	charge	Final Comp Required	liance Da
en el Calendar			<u> </u>			<u> </u>		- -	
nts		<u></u>		• •					
mprovemen				· ·				· ·	
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							· ·		
	2.3			ing any additional wa nat you now have un N	derway or pla			environmenta	al project
		<u>ا ــــــــــــــــــــــــــــــــــــ</u>		•					

	EPA Identification Number AL 0020206		NPDES Permit Number AL 0020206	Facility M Athens V		Form Approved 03/05/ OMB No. 2040-00					
ECTION	3 SITI		MAP (40 CFR 122.26(c)(1)(i)(A))								
Drainage Map	3.1		tached a site drainage map conta	ining all required inform	nation to this application?	(See instructions for					
			RCES (40 CFR 122.26(c)(1)(i)(E								
ECTION	4. POL	Provide information on the facility's pollutant sources in the table below.									
		Outfall	Impervious Surface			rea Drained					
		Number	(within a mile radius of the		Total Surface Area Drained (within a mile radius of the facility)						
		0025	one	specify units acre	five	specify unit acres					
				specify units	1.1.1.1.1	specify uni					
				specify units	1.1.1	specify unit					
	3			specify units		specify unit					
			1	specify units		specify unit					
				specify units		specify uni					
Pollutant Sources	4.3	cover (i.e., i	ored, or dispensed in a manner to not exposed to stormwater) or ar process and is not al location and a description of exist	e designed so that stor lowed to exit the site v	mwater enters and assin ia the stormwater outfal	nilates into the treatmen I.					
		stormwater	runoff. (See instructions for specif								
				Stormwater Treatme	nt						
		Outfall Number		Control Measures and T	reatment	Codes from Exhibi 2F-1 (list)					
		0025	Majority of flow to outfall 002	S is overland flow.		4-A					
	7										

	dentificatio		NPDES Permit Number AL 0020206	Facility Athens		Form Approved 03/05/1 OMB No. 2040-000		
			ER DISCHARGES (40 CFR 122.26(c	V(1)(i)(C))				
CTIO	5.1	I certify under presence of discharges an	or penalty of law that the outfall(s)	application have been tested or evaluated for the outfalls identified as having non-stormwat 2C, 2D, or 2E application. Official title				
		Jimmy Junkin		Water Services Depar	tment Manager			
8		Signature	ing Junkin	Date signed $8/25/22$				
urge	5.2	Provide the te	esting information requested in the ta					
Non-Stormwater Discharges		Outfall Number	Description of Testing Met	hod Used	Date(s) of Testing	Onsite Drainage Point Directly Observed During Test		
		0025	e-CFR Wastewater methods for	required testing	02/28/2017	Yes		
Non-Sto		0025	e-CFR Wastewater methods for	required testing	2/22/2018	Yes		
-		0025	e-CFR Wastewater methods for	required testing	5/9/2019	Yes		
		002S	e-CFR Wastewater methods for	required testing	1/23/2020	Yes		
Significant Leaks or Spills	N 6. SIG 6.1	Describe any	KS OR SPILLS (40 CFR 122.26(c)) significant leaks or spills of toxic or l t leaks or spills of toxic or hazardous	nazardous poliutar				
ECTIO	N 7. DIS	CHARGE INFO	DRMATION (40 CFR 122.26(c)(1)(i)(E))				
uo			o determine the pollutants and param icants need to complete each table.	eters you are requ	ired to monitor and, in tur	m, the tables you must		
Discharge Information	7.1	Is this a new	 source or new discharge? See instructions regarding submissated data. 		No -> See instructions re actual data.	egarding submission of		
arge	Table	A, B, C, and E						
sch	7.2	Have you co	mpleted Table A for each outfall?		and the second second second second second second second second second second second second second second second			
Di		V Yes			No			
					RECEIVED			

EPA Form 3510-2F (Revised 3-19)

MUNICIPAL SECTION

AUG 2 9 2022

EPA	EPA Identification Number		NPDES Permit Number	Fac	ility Name	Form Approved 03/05/19			
	AL 00202	206	AL 0020206	Athe	ns WWTP	OMB No. 2040-0004			
	7.3	Is the facility wastewater	y subject to an effluent limitation guide ?	line (ELG) or efi	fluent limitations in a	n NPDES permit for its process			
		Ves Yes			No 🗲 SKIP to Iter	m 7.5.			
	7.4		ompleted Table B by providing quantita an ELG and/or (2) subject to effluent I						
		D Yes		\checkmark	No				
	7.5	Do you kno	w or have reason to believe any polluta	ants in Exhibit 2	vit 2F-2 are present in the discharge?				
		Yes		\checkmark	No ➔ SKIP to Iter	m 7.7.			
	7.6		sted all pollutants in Exhibit 2F–2 that y antitative data or an explanation for th			are present in the discharge and			
		🛛 Yes			No				
	7.7	Do you qua	lify for a small business exemption unc	der the criteria s	pecified in the Instru	ctions?			
		Yes	→SKIP to Item 7.18.	\checkmark	No				
	7.8	Do you kno	w or have reason to believe any polluta	ants in Exhibit 2	F–3 are present in th	ne discharge?			
		Yes Yes			No	n 7.10.			
tinued	7.9	Have you lis Table C?	sted all pollutants in Exhibit 2F–3 that y	you know or hav	ve reason to believe	are present in the discharge in			
Cont		🔲 Yes			No				
tion	7.10	of 10 ppb or greater?							
orma		T Yes		\checkmark	No ➔ SKIP to Iter	m 7.12.			
Discharge Information Continued	7.11		rovided quantitative data in Table C for ons of 10 ppb or greater?	r those pollutant	s in Exhibit 2F–3 tha	t you expect to be discharged in			
scha		🛛 Yes			No				
ā	7.12	Do you expo of 100 ppb o	ect acrolein, acrylonitrile, 2,4-dinitrophe or greater?	enol, or 2-methy	1-4,6-dinitrophenol to	be discharged in concentrations			
		🛛 Yes		\checkmark	No 🗲 SKIP to Iter	n 7.14.			
	7.13		rovided quantitative data in Table C for in concentrations of 100 ppb or greate		dentified in Item 7.12	that you expect to be			
5		🔲 Yes			No				
	7.14		rovided quantitative data or an explana t concentrations less than 10 ppb (or le						
		🔲 Yes		\checkmark	No				
	7.15	Do you know	w or have reason to believe any polluta	ants in Exhibit 2	F-4 are present in th	e discharge?			
		🛛 Yes		\checkmark	No ➔ SKIP to Iter	n 7.17.			
	7.16	Have you lis explanation	ted pollutants in Exhibit 2F-4 that you in Table C?	know or believe	e to be present in the	discharge and provided an			
		🛛 Yes			No				
	7.17	Have you pr	ovided information for the storm event	(s) sampled in T	Table D?				
		🛛 Yes		\checkmark	No				

• • • •

A Identifica		NPDES Permit Number AL 0020206	Facility Name Athens WWTP	Form Approved 03/0 OMB No. 2040-0
Used	or Manufactured To:	xics		
7.18	Is any pollutant list	ed on Exhibits 2F–2 through 2F– in intermediate or final product or	byproduct?	t of a substance used or P to Section 8.
7.19	List the pollutants	below, including TCDD if applicat	ble.	
	1.	4.		7.
	2.	5.	Trip	8.
	3.	6.		9.
8.1	Do you have any l any of your discha	arges or on a receiving water in re	hat any biological test for acute elation to your discharge within	or chronic toxicity has been made the last three years? IP to Section 9.
8.2	THE ACTOR	nd their purposes below.	Submitted to M	IPDES Date Submitted
	Test(s)	Purpose of Te	Permitting Aut	hority? Date Submitted
				No
			Yes	No
			- 100 .	
ON 9. CO 9.1		SINFORMATION (40 CFR 122.2 nalyses reported in Section 7 (on	1(g)(12))	□ No
9.1	Were any of the ar consulting firm?	nalyses reported in Section 7 (on	Yes (g)(12)) Tables A through C) performe No → SK	
	Were any of the ar consulting firm?	nalyses reported in Section 7 (on	Yes (g)(12)) Tables A through C) performer No → SK consulting firm below.	No No No No No No No No No No No No No
9.1	Were any of the ar consulting firm?	nalyses reported in Section 7 (on n for each contract laboratory or o Laboratory Num	I(g)(12)) Tables A through C) performed No → SK consulting firm below. uber 1 Laboratory N	No No No No No No No No No No No No No
9.1	Were any of the ar consulting firm?	nalyses reported in Section 7 (on n for each contract laboratory or o Laboratory Num y/firm Pace Analytical, Deca	I(g)(12)) Tables A through C) performed No → SK consulting firm below. Iber 1 Laboratory N Intur	No No No No No No No No No No No No No
9.1	Were any of the ar consulting firm? Yes Provide information Name of laboratory	n for each contract laboratory or on Laboratory Num y/firm Pace Analytical, Deca S 220 Beltline Road, SV	I(g)(12)) Tables A through C) performed No → SK consulting firm below. Iber 1 Laboratory N Intur	No No No No No No No No No No No No No

	ation Number 20206	NPDES Permit Number AL 0020206	Facility Name Athens WWTP	Form Approved 03/05/1 OMB No. 2040-000					
ECTION 10. 10.	1 In Column 1 below, m each section, specify	FICATION STATEMENT (40 C ark the sections of Form 2F th n Column 2 any attachments ired to complete all sections of	at you have completed and are that you are enclosing to alert the transmission of transmission of transmission	submitting with your application. For a permitting authority. Note that no					
	Column 1 Column 2								
	Section 1	w/ attachments (e.g., responses for additional outfalls)							
	Section 2	w/ attachments							
	Section 3	w/ site drainag	e map						
	Section 4	w/ attachments							
	Section 5	w/ attachments							
ŧ	Section 6	w/ attachments							
Checklist and Certification Statement	Section 7	 Table A Table B Table C 		as exemption request ults as an attachment					
Certi	Section 8	w/attachments							
st and	Section 9	w/attachments	(e.g., responses for additional of	contact laboratories or firms)					
heckli	Section 10	0							
10.	I certify under penalty accordance with a sy submitted. Based on for gathering the info	of law that this document and stem designed to assure that my inquiry of the person or per mation, the information subm that there are significant pen	t qualified personnel properly rsons who manage the system itted is, to the best of my know	l under my direction or supervision gather and evaluate the informatio or those persons directly responsib ledge and belief, true, accurate, ar ation, including the possibility of fir					
	Name (print or type fin	st and last name)	Official title						
	Jimmy Junkin		Water Services Dep	artment Manager					
	Signature	m Junkin	Date signed	12021					

	Erra identification Number AL 0020206	NPDES Permit Number AL 0020206	Facility warm Athens WW		Outfall Number 002S	Form Approved (OMB No. 20	
TAE	BLE A. CONVENTIONAL AND NON I must provide the results of at least of	CONVENTIONAL PARAMETE	RS (40 CFR 122.26(c in this table, Complete)(1)(i)(E)(3)) ¹ one table for each outfall.	See instructions for a	ditional details and requ	irements.
			ily Discharge	Average Daily (specify	Discharge	Number of Storm	Source of
	Pollutant or Parameter	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Events Sampled	(new source/new dischargers only; use codes in instructions)
1.	Dil and grease 7.14 mg/L			< 6.07 mg/L		4	
2.	Biochemical oxygen demand (BOL	05) CBOID 8.3 mg/L		6.4 mg/L	1.	4	
3.	Chemical oxygen demand (COD)						12 5 - 1
4.	Total suspended solids (TSS)	418 mg/L	1.	175 mg/L		4	
5.	Total phosphorus	3.46 mg/L		1.6 mg/L		4	
6.	Total Kjeldahl nitrogen (TKN)	4.6 mg/L	11.00	3.4 mg/L		4	
7.	Total nitrogen (as N)	0.63 mg/L		0.43 mg/L		4	1.1.2
0	pH (minimum)	6.9 S.U.		7.5 S.U.		4	
8.	pH (maximum)	8.5 S.U.		7.5 S.U.		4	

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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Erra ιcentification Number AL 0020206		S Permit Number L 0020206	Facility Nam Athens WW		Outfall Number 0025		Form Approved 03/05/19 OMB No. 2040-0004
TABLE B. CERTAIN CONVENTION List each pollutant that is limited in a facility is operating under an existing	n effluent lim	nitation guideline (ELG) I	that the facility is subje	ect to or any pollutant liste	ed in the facility's NPDES	S permit for its process v	wastewater (if the
		Maximum Dai (specify		Average Dai (specifi	y Discharge		Source of Information
Pollutant and CAS Number (if a	vailable)	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Number of Storm Events Sampled	(new source/new dischargers only; use codes in instructions)
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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 AL 0020206		S Permit Number L 0020206	Facility Nam Athens WW		Outfall Number 002S		Form Approved 03/05/19 OMB No. 2040-0004		
TABLE C. TOXIC POLLUTANTS, CE	RTAIN HA	ZARDOUS SUBSTANC	ES, AND ASBESTO	S (40 CFR 122.26(c)(1)(i)	(E)(4) and 40 CFR 12	2.21(g)(7)(vi)(B) and (vi	i)) ¹		
List each pollutant shown in Exhibits 2 details and requirements.	F-2, 2F-3,	and 2F-4 that you know	v or have reason to be	elieve is present. Complete	e one table for each o	utfall. See the instruction	s for additional		
		Maximum Dail (specify		Average Daily (specify		- Number of Storm	Source of Information		
Pollutant and CAS Number (if ava	ailable)	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Events Sampled	(new source/new dischargers only; use codes in instructions)		
			_						
	-								

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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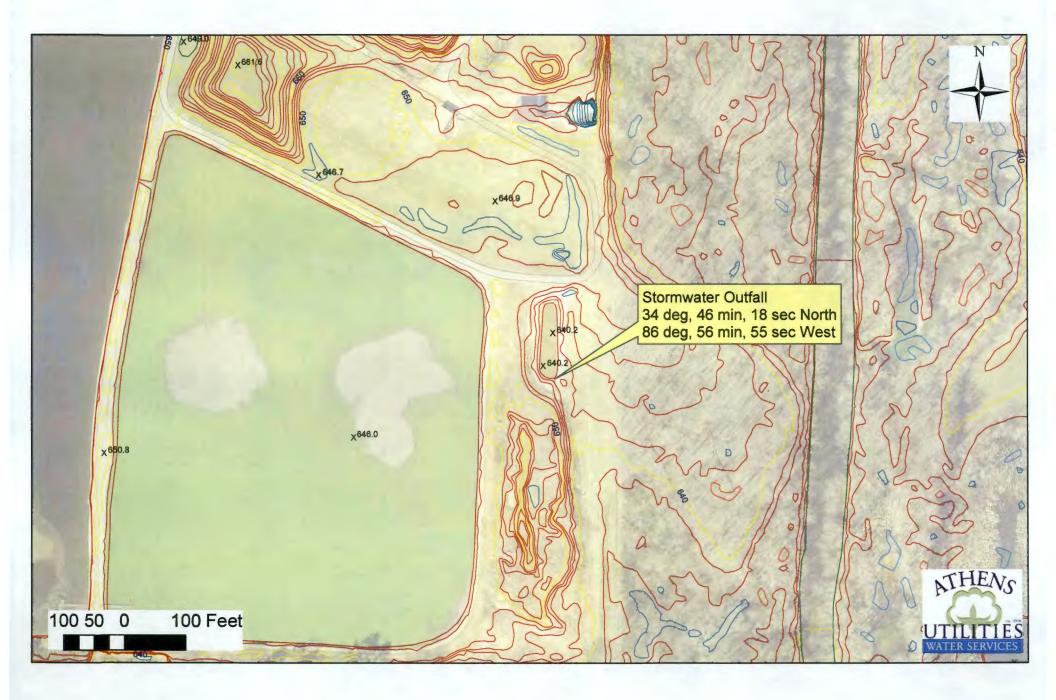
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					Form Approved 03/05/ OMB No. 2040-000
T INFORMATION (40 CFR 12)	2.26(¢)(1)(i)(E)(6))				
n event(s) that resulted in the m	aximum daily discharges for t	the flow-weighted comp	oosite sample.		
Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Beginning of Stor End of Previous M	m Measured and leasurable Rain	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
	AL 00202 T INFORMATION (40 CFR 122 n event(s) that resulted in the main Duration of Storm Event	AL 0020206 Att AT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6)) In event(s) that resulted in the maximum daily discharges for Duration of Storm Event (in hours) Total Rainfall During Storm Event	AL 0020206 Athens WWTP NT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6)) Image: Comparison of the flow-weighted comparison of the maximum daily discharges for the flow-weighted comparison of the maximum daily discharges for the flow-weighted comparison of the maximum daily discharges for the flow-weighted comparison of the maximum daily discharges for the flow-weighted comparison of the maximum daily discharges for the flow-weighted comparison of the maximum daily discharges for the flow-weighted comparison of the maximum daily discharges for the flow-weighted comparison of the maximum daily discharges for the flow-weighted comparison of the maximum daily discharges for the flow-weighted comparison of the maximum daily discharges for the flow-weighted comparison of the maximum daily discharges for the flow-weighted comparison of the flow-weighted	AL 0020206 Athens WWTP 002 AT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6)) Image: Composite state in the maximum daily discharges for the flow-weighted composite sample. Duration of Storm Event (in hours) Total Rainfall During Storm Event	AL 0020206 Athens WWTP 0025 AT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6)) Image: Composite stample Image: Composite stample In event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample. Image: Composite stample Image: Composite stample In event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample. Image: Composite stample Image: Composite stample In or Storm Event (in hours) Image: Composite stample Image: Composite stample Image: Composite stample Image: Composite stample Image: Composite stample Image: Composite stample Image: Composite stample Image: Composite stample Image: Composite stample Image: Composite stample Image: Composite stample Image: Composite stample Image: Composite stample Image: Composite stample Image: Composite stample Image: Composite stample Image: Composite stample Image: Composite stample Image: Composite stample Image: Composite stample Image: Composite stample Image: Composite stample Image: Composite stample Image: Composite stample Image: Composite stample Image: Composite stample Image: Composite stample Image: Composite stample Image: Composite stample Image: Composite stample Image: Composite stample Image: Composite stample Image: Composit

Provide a description of the method of flow measurement or estimate.

Our permit only requires grab samples for stormwater discharge analyses and doesn't require composite stormwater samples.



Form 2S PDES U.S Environmental Protection Agency Application for NPDES Permit for Sewage Sludge Manager NEW AND EXISTING TREATMENT WORKS TREATING DOMESTIC NEW AND EXISTING TREATMENT WORKS TREATING DOMESTIC RELIMINARY INFORMATION oes your facility currently have an effective NPDES permit or have you been directed by your NPDES permitting a fill Form 2S permit application? Yes → Complete Part 2 of application package (begins p. 7). No → Complete Part 1 of application No → Complete Part 1 of application PART 1 LIMITED BACKGROUND INFORMATION (40 CFR 122.21(c)(omplete this part only if you are a "sludge-only" facility (i.e., a facility that does not currently have, and is not apply ermit for a direct discharge to a surface body of water). ART 1, SECTION 1. FACILITY INFORMATION (40 CFR 122.21(c)(2)(ii)(A)) 1.1 Facility name Mailing address (street or P.O. box)	C SEWAGE authority to submit a ion package (below). (2)(ii)) ying for, an NPDES						
NEW AND EXISTING TREATMENT WORKS TREATING DOMESTIC RELIMINARY INFORMATION Dees your facility currently have an effective NPDES permit or have you been directed by your NPDES permitting a I Form 2S permit application?] Yes → Complete Part 2 of application package (begins p. 7).	authority to submit a ion package (below). (2)(ii)) ying for, an NPDES						
es your facility currently have an effective NPDES permit or have you been directed by your NPDES permitting a Form 2S permit application? Yes → Complete Part 2 of application package (begins p. 7). No → Complete Part 1 of application PART 1 LIMITED BACKGROUND INFORMATION (40 CFR 122.21(c)(mplete this part only if you are a "sludge-only" facility (i.e., a facility that does not currently have, and is not apply mit for a direct discharge to a surface body of water). RT 1, SECTION 1. FACILITY INFORMATION (40 CFR 122.21(c)(2)(ii)(A))	ion package (below). (2)(ii)) ying for, an NPDES						
PART 1 LIMITED BACKGROUND INFORMATION (40 CFR 122.21(c)(implete this part only if you are a "sludge-only" facility (i.e., a facility that does not currently have, and is not apply imit for a direct discharge to a surface body of water). IRT 1, SECTION 1. FACILITY INFORMATION (40 CFR 122.21(c)(2)(ii)(A))	(2)(ii)) ying for, an NPDES						
mplete this part only if you are a "sludge-only" facility (i.e., a facility that does not currently have, and is not apply mit for a direct discharge to a surface body of water). RT 1, SECTION 1. FACILITY INFORMATION (40 CFR 122.21(c)(2)(ii)(A))	ying for, an NPDES						
rmit for a direct discharge to a surface body of water). RT 1, SECTION 1. FACILITY INFORMATION (40 CFR 122.21(c)(2)(ii)(A))							
	-UEN/						
Mailing address (street or P.O. box)							
Mailing address (street or P.O. box)	MAROT						
	MAR 0 1 202 MUNICIPAL SECT						
5 City or town State ZIP cod	ie SEC						
Contact name (first and last) Title Phone number Email a Location address (street, route number, or other specific identifier) I Same City or town State ZIP contact	address						
Location address (street, route number, or other specific identifier)	ne as mailing address						
City or town State ZIP co	ode						
1.2 Ownership Status							
Public—federal Public—state Other public (specify)							
Private Other (specify)							
ART 1, SECTION 2. APPLICANT INFORMATION (40 CFR 122.21(c)(2)(ii)(B))							
2.1 Is applicant different from entity listed under Item 1.1 above? □ Yes □ Yes □ No → SKIP to Item 2.3 (Page 1)	art 1, Section 2).						
2.2 Applicant name							
Applicant address (street or P.O. box)	Applicant address (street or P.O. box)						
City or town State ZIP cc	ode						
City or town State ZIP co Contact name (first and last) Title Phone number Email 2.3 Is the applicant the facility's owner, operator, or both? (Check only one response.)	address						
2.3 Is the applicant the facility's owner, operator, or both? (Check only one response.) Owner Operator Both							
2.4 To which entity should the NPDES permitting authority send correspondence? (Check only or							
	and applicant one and the same)						
they are the	Provide the total dry metric tons per the latest 365-day period of sewage sludge generated, treated, used, and disposed of:						
Image: RT 1, SECTION 3. SEWAGE SLUDGE AMOUNT (40 CFR 122.21(c)(2)(ii)(D)) 3.1 Provide the total dry metric tons per the latest 365-day period of sewage sludge generated, traditional disposed of:	reated, used, and						
Image: RT 1, SECTION 3. SEWAGE SLUDGE AMOUNT (40 CFR 122.21(c)(2)(ii)(D)) 3.1 Provide the total dry metric tons per the latest 365-day period of sewage sludge generated, traditional disposed of:	reated, used, and ry Metric Tons per 365-Dav Period						
Image: RT 1, SECTION 3. SEWAGE SLUDGE AMOUNT (40 CFR 122.21(c)(2)(ii)(D)) 3.1 Provide the total dry metric tons per the latest 365-day period of sewage sludge generated, traditional of the sewage sludge generated sludge generated of the sewage sludge generated sludge generated sludge generated sludge generated sludge generated sludge generated sludge generated sludge generated sludge generated sludge generated sludge generated sludge generated sludge gene	ry Metric Tons per						
Image: Applicant Image: Applicant <td< td=""><td>ry Metric Tons per</td></td<>	ry Metric Tons per						
Image: Section of the section of th	ry Metric Tons per						

EPA	Identifica	tion Number	NPDES Permit Number				Facility Name	· · · · · ·	Form Approved 03/05/19 OMB No. 2040-0004		
			AL 00	20206		At	thens WWTP				
	PAR							TION (40 CFR			
		rt if you have an e								ty to submit a full	
		n. In other words,								s on your facility's	
		se or disposal pra									
		ON 1. GENERAL									
		t 2 applicants mus									
	Facilit	y Information									
	1.1	Facility name City of Athens W	sility name of Athens Wastewater Treatment Plant								
		Mailing address P.O. Box 1089	(street or P.O.	box)							
		City or town Athens						ZIP code 35612		Phone number (256) 233-8774	
		Contact name (Virgil White			Title Superint			Email addr vwhite@atl	ess hens-util	ities.com	
		942 East Sanderfer Road								me as mailing address	
		City or town Athens			State AL			ZIP code 35611			
	1.2	Is this facility a	Class I sludge n	nanage	ment facil	•					
		🔲 Yes				[No No				
ion	1.3	Facility Design	Flow Rate			9.0 million gallons per day (mgd)					
General Information	1.4	Total Population	on Served						250	00 to 30000	
lfor	1.5	Ownership Sta	itus								
al		Public-fed	eral		Public-	state	\checkmark	Other public	(specify	Municipal	
enei		Private	* -		Other (sp	ecify)					
Ō	Applic	ant Information									
	1.6	Is applicant diffe	erent from entity	listed	under Iten	1.1 above	?				
		✓ Yes						lo →SKIP to I	tem 1.8	(Part 2, Section 1).	
	1.7	Applicant name Ctiy of Athens U	tilities								
		Applicant mailin PO Box 1089	ig address (stre	et or P.	O. box)						
		City or town					State	• -		P code	
		Athens Contact name (first and lost)	Title		<u> </u>	AL Phone num	abor		612 mail address	
		Jimmy Junkin		Wate		Manager	(256) 232-1	440		nkin@athens-utilities.co	
· •	1.8	Is the applicant	the facility's ow	ner, op	erator, or	both? (Che	ck only one r	esponse.)			
		Operat	tor			Owner			Bo	oth	
	1.9	To which entity	should the NPI	DES per	rmitting au	thority send	d correspond	ence? (Check	only one	e response.)	
		Facility	/, ·			Applicant		V		cility and applicant ey are one and the same)	

RECEIVED

AUG 2 9 2022 MUNICIPAL SECTION

1.10 Facility's NPDES permit number	Identifica		ermit Number 020206			Form Approved 03/05 OMB No. 2040-0				
Check here if you do not have an NPDES permit but are otherwise required to submit Part 2 of Form 2S. AL 0020206 1.11 Indicated all other federal, state, and local permits or construction approvals received or applied for that regulate facility's sewage sludge management practices below. NESHAPS (CAA) Implementation Implementation NeshaPs (CAA) NESHAPS (CAA) Implementation Dredge or fill (CWA Section 404) Other (specify) Implementation Docean dumping (MPRSA) UIC (underground injection of fluids) Other (specify) 1.12 Docean dumping (MPRSA) UIC (underground injection of fluids) Other (specify) 1.13 Provide a description of the generation, treatment, storage, land application, or disposal of sewage sludge from this facility occurited accurs. Topographic Map 1.14 Have you attached a topographic map containing all required information to this application? (See instructions specific requirements.) No Implementation No Contractors have any operational or maintenance responsibilities related to sewage sludge generation, treatment, storage. 1.14 Have you attached a line drawing and/or a marrative description that identifies all sewage sludge generation? (See instruct specific requirements.) Implementation No Contractor Information No 1.15	2									
1.11 Indicate all other federal, state, and local permits or construction approvals received or applied for that regulate facility's sewage sludge management practices below. RCRA (hazardous wastes) Nonattainment program (CAA) NESHAPs (CAA) PSD (air emissions) Dredge or fill (CWA Section 404) Ocean dumping (MPRSA) UIC (underground injection of fluids) Indian Country No → SKIP to ltem 1.14 (Part 2, Section 1 below. 1.12 Does any generation, treatment, storage, application to land, or disposal of sewage sludge from this facility oct Indian Country? 1.13 Provide a description of the generation, treatment, storage, land application, or disposal of sewage sludge that occurs. 1.13 Provide a description of the generation, treatment, storage, land application? (See instructions specific requirements.) No 2 Yes No No Interments.) No No 2 Yes No 1.16 Have you attached a line drawing and/or a narrative description that identifies all sewage sludge generation? (See instructions specific requirements.) 2 Yes No Contractor Information No 1.16 Do contractors have any operational or	1.10	Check here if you do no	t have an NPDES	permit but are otherv	vise required	AL 0020206				
□ PSD (air emissions) □ Dredge or fill (CWA Section 404) □ Other (specify) □ Ocean dumping (MPRSA) □ UIC (underground injection of fluids) □ □ Indian Country 1.12 Does any generation, treatment, storage, application to land, or disposal of sewage sludge from this facility occurs indian Country? □ No → SKIP to Item 1.14 (Part 2, Section 1 below. 1.13 Provide a description of the generation, treatment, storage, land application, or disposal of sewage sludge that occurs. □ No → SKIP to Item 1.14 (Part 2, Section 1 below. 1.13 Provide a description of the generation, treatment, storage, land application, or disposal of sewage sludge that occurs. □ No Topographic Map 1.14 Have you attached a topographic map containing all required information to this application? (See instructions specific requirements.) □ No □ Yes □ No No Contractor Information 1.16 Have you attached a line drawing and/or a narrative description that identifies all sewage sludge practices that employed during the term of the permit containing all the required information to this application? (See instruct specific requirements.) □ Yes □ No Contractor Information 1.18 (1.11	Indicate all other federal, state, facility's sewage sludge manag	and local permits of ement practices be	or construction appro elow.	ovals received or ap	plied for that regulate t				
Indian Country 404) □ Ocean dumping (MPRSA) □ UIC (underground injection of fluids) 1.12 Does any generation, treatment, storage, application to land, or disposal of sewage sludge from this facility occurding and country? □ Yes □ Yes Indian Country? No → SKIP to litem 1.14 (Part 2, Section 1 below. 1.13 Provide a description of the generation, treatment, storage, land application, or disposal of sewage sludge that occurs. Topographic Map Image: Section 1 below. 1.14 Have you attached a topographic map containing all required information to this application? (See instructions specific requirements.) □ Yes No Line Drawing No 1.15 Have you attached a line drawing and/or a narrative description that identifies all sewage sludge practices that employed during the term of the permit containing all the required information to this application? (See instruct specific requirements.) □ Yes No Contractor Information No 1.16 Do contractors have any operational or maintenance responsibilities related to sewage sludge generation, treat use, or disposal at the facility? Yes No → SKIP to item 1.18 (Part 2, Section 1 below. 1.17 Prov		RCRA (hazardous wastes) 🗌 Non	attainment program		SHAPs (CAA)				
Indian Country 1.12 Does any generation, treatment, storage, application to land, or disposal of sewage sludge from this facility occ Indian Country?		PSD (air emissions)		-	ion D Othe	er (specify)				
1.12 Does any generation, treatment, storage, application to land, or disposal of sewage sludge from this facility occludian Country? Image: Provide a description of the generation, treatment, storage, land application, or disposal of sewage sludge that occurs. Topographic Map 1.13 Provide a description of the generation, treatment, storage, land application, or disposal of sewage sludge that occurs. Topographic Map 1.14 Have you attached a topographic map containing all required information to this application? (See instructions specific requirements.) Image: Provide a description of the permit containing all the required information to this application? (See instructions specific requirements.) Image: Provide the following information or maintenance responsibilities related to sewage sludge generation, treat use, or disposal at the facility? Image: Provide the following information for each contractor. Image: No		Ocean dumping (MPRSA)			on of					
1.12 Does any generation, treatment, storage, application to land, or disposal of sewage sludge from this facility occludian Country? Image: Provide a description of the generation, treatment, storage, land application, or disposal of sewage sludge that occurs. Topographic Map 1.13 Provide a description of the generation, treatment, storage, land application, or disposal of sewage sludge that occurs. Topographic Map 1.14 Have you attached a topographic map containing all required information to this application? (See instructions specific requirements.) Image: Provide a description of the permit containing all the required information to this application? (See instructions specific requirements.) Image: Provide the following information or maintenance responsibilities related to sewage sludge generation, treat use, or disposal at the facility? Image: Provide the following information for each contractor. Image: No	Indian	Country		74 1 1 1 1 1 1 1						
1.13 Provide a description of the generation, treatment, storage, land application, or disposal of sewage sludge that occurs. Topographic Map 1.14 Have you attached a topographic map containing all required information to this application? (See instructions specific requirements.) Image: Imag	1.12	Indian Country?	t, storage, applicat		→ SKIP to Item 1.					
1.14 Have you attached a topographic map containing all required information to this application? (See instructions specific requirements.) ✓ Yes No Line Drawing No 1.15 Have you attached a line drawing and/or a narrative description that identifies all sewage sludge practices that employed during the term of the permit containing all the required information to this application? (See instruct specific requirements.) ✓ Yes No Contractor Information No 1.16 Do contractors have any operational or maintenance responsibilities related to sewage sludge generation, treat use, or disposal at the facility? ✓ Yes No → SKIP to Item 1.18 (Part 2, Section 1 below. 1.17 Provide the following information for each contractor. No → SKIP to Item 1.18 (Part 2, Section 1 below. 1.17 Provide the following information for each contractor. No ✓ Contractor 1 Contractor 2 Contractor company name Image: Contractor 2 Contractor Mailing address (street or P.O. box) Pro. box) Image: Contract name (first and last) Image: Contract name (first and last) Telephone number Image: Contract name (first and last) Image: Contract name (first and last) Image: Contract name (first and last) Image: Contr	1.13		neration, treatment			f sewage sludge that				
1.14 Have you attached a topographic map containing all required information to this application? (See instructions specific requirements.) ✓ Yes No Line Drawing No 1.15 Have you attached a line drawing and/or a narrative description that identifies all sewage sludge practices that employed during the term of the permit containing all the required information to this application? (See instruct specific requirements.) ✓ Yes No Contractor Information No 1.16 Do contractors have any operational or maintenance responsibilities related to sewage sludge generation, treat use, or disposal at the facility? ✓ Yes No → SKIP to Item 1.18 (Part 2, Section 1 below. 1.17 Provide the following information for each contractor. No → SKIP to Item 1.18 (Part 2, Section 1 below. 1.17 Provide the following information for each contractor. No ✓ Contractor 1 Contractor 2 Contractor company name Image: Contractor 2 Contractor Mailing address (street or P.O. box) Pro. box) Image: Contract name (first and last) Image: Contract name (first and last) Telephone number Image: Contract name (first and last) Image: Contract name (first and last) Image: Contract name (first and last) Image: Contr	Topoc	raphic Map	$(r_n - 0) = dr^{-1} - \dots$							
Line Drawing 1.15 Have you attached a line drawing and/or a narrative description that identifies all sewage sludge practices that employed during the term of the permit containing all the required information to this application? (See instruct specific requirements.) ☑ Yes No Contractor Information No 1.16 Do contractors have any operational or maintenance responsibilities related to sewage sludge generation, treat use, or disposal at the facility? ☐ Yes ✓ No No 1.17 Provide the following information for each contractor. ☐ Check here if you have attached additional sheets to the application package. 1.17 Provide the following normation for each contractor. ☐ Check here if you have attached additional sheets to the application package. 1.17 Contractor company name Mailing address (street or P.O. box)		Have you attached a topograph specific requirements.)	nic map containing	_		n? (See instructions for				
1.15 Have you attached a line drawing and/or a narrative description that identifies all sewage sludge practices that employed during the term of the permit containing all the required information to this application? (See instruct specific requirements.))					
✓ Yes No Contractor Information 1.16 Do contractors have any operational or maintenance responsibilities related to sewage sludge generation, treatuse, or disposal at the facility? ☐ Yes ✓ No → SKIP to Item 1.18 (Part 2, Section 1 below. 1.17 Provide the following information for each contractor. ☐ Check here if you have attached additional sheets to the application package. ✓ Contractor company name ✓ Contractor 2 Mailing address (street or P.O. box) ✓ City, state, and ZIP code ✓ Contact name (first and last) ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓		Have you attached a line drawi employed during the term of the								
1.16 Do contractors have any operational or maintenance responsibilities related to sewage sludge generation, treat use, or disposal at the facility? Yes Image: No → SKIP to Item 1.18 (Part 2, Section 1) below. 1.17 Provide the following information for each contractor. Check here if you have attached additional sheets to the application package. Image: Contractor company name Mailing address (street or P.O. box) City, state, and ZIP code Contract name (first and last) Telephone number		✓ Yes)					
1.16 Do contractors have any operational or maintenance responsibilities related to sewage sludge generation, treat use, or disposal at the facility? Yes Image: No → SKIP to Item 1.18 (Part 2, Section 1) below. 1.17 Provide the following information for each contractor. Check here if you have attached additional sheets to the application package. Image: Contractor company name Mailing address (street or P.O. box) City, state, and ZIP code Contract name (first and last) Telephone number	Contra	actor Information								
Image: Decomposition of the section	1.16	use, or disposal at the facility?	tional or maintenar	N/						
Check here if you have attached additional sheets to the application package. Contractor 1 Contractor 2 Contractor Contractor company name				De	low.					
Contractor 1 Contractor 2 Contractor Contractor company name	1.17									
Contractor company name						Contractor				
Mailing address (street or P.O. box) Post of the street or City, state, and ZIP code Contact name (first and last) Post of the street of the		Contractor company name	Contra		Contractor 2					
City, state, and ZIP code Contact name (first and last) Telephone number		Mailing address (street or								
Telephone number										
		Contact name (first and last)				1000				
Email address		Telephone number								
		Email address								

		AL 002020	6 Ath	ens WWTP		OMB No. 2040-00				
1.17			Contractor 1	Contracto	or 2	Contractor 3				
cont.	Responsibilitie	s of contractor								
Polluta	nt Concentrations									
			ent, provide sewage sludg	e monitoring data fr	r the pollut	ants for which limits				
sewage based o	e sludge have bee on three or more	en established in 40 (samples taken at leas	CFR 503 for this facility's a st one month apart and m	expected use or dispust be no more than	posal practi	ces. All data must h				
	Check here if y	you have attached ad	ditional sheets to the app	lication package.						
1.18	Po	ollutant	Average Monthly Concentration (mg/kg dry weight)	Analytical I	Vethod	Detection Lev				
	Arsenic		NA							
	Cadmium		NA							
	Chromium		NA							
	Copper		NA							
	Lead		NA							
	Mercury		NA							
	Molybdenum		NA							
	Nickel		NA							
	Selenium		NA							
	Zinc ist and Certifica		NA							
1.19	application. Fo	enclosing. I	submitting with you Note that not all the Instructions. Column 2							
	Section		ttachments							
	Section	2 (Generation of Seid from Sewage Sludg	_	ttachments						
	Section	3 (Land Application	w/ attachments							
	Section	4 (Surface Disposal))		🗆 w/a	ttachments				
	Section	Section 5 (Incineration)								
1.20	Certification S				1	ttachments				
	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 per directly responsible for gathering the information, the information submitted is, to the best of my knowledge an belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information for knowing violations.									
	directly respon belief, true, act including the p	curate, and complete ossibility of fine and i	. I am aware that there an mprisonment for knowing	e significant penaltie violations. Official title	9	itting false informat				
	directly respon belief, true, act including the p Name (print or	curate, and complete ossibility of fine and i type first and last na	. I am aware that there an mprisonment for knowing	e significant penaltie violations. Official title	e vices Depar					

Identifica	ation Number	NPDES Permit Number AL 0020206		Facility Name Athens WWTP			Form Approved 03/05/19 OMB No. 2040-0004		
		OF SEWAGE	and the second second			RIAL DEP	RIVED FROM SEWAGE		
1	R 122.21(q)(8) THR								
2.1	_	enerate sewage	e sludge or derive a ma						
	✓ Yes No → SKIP to Part 2, Section 3.								
2.2	nt Generated Onsite		eriod generated at you	r facility			1		
2.2	rotar ary mound ton		onou gonoratou at you	in reconcy.			1585		
	nt Received from O					2.15	10		
2.3		eceive sewage s	sludge from another fac	_					
2.4	Yes	mbor of facilitia	s from which you recei				2.7 (Part 2, Section 2) below		
2.4	treatment, use, or o		is from which you recei	ve sewaų	je sludge lor				
Provid	e the following inform	ation for each o	of the facilities from whi	ich vou re	eceive sewad	ne sludae.			
	-		ditional sheets to the a			je olauge.			
2.5	Name of facility				1 0				
	Mailing address (st	reet or P.O. hov)	-	-	-			
			1						
	City or town						ZIP code		
	Contact name (first	and last) Tit	le	Phone	e number		Email address		
	Location address //	tract route pup	abor or other apositio i	dontifier)			Como oo moiling adda		
	Location address (s	Sueet, route nun	nber, or other specific in	uenuner)	1.1.1.1	-	□ Same as mailing addr		
	City or town			State			ZIP code		
	County			Count	y code	-	🗆 Not availa		
2.6	Indicate the amount of sewage sludge received, the applicable pathogen class and reduction alternative, and the								
	applicable vector reduction option provided at the offsite Amount Pathogen Cla				aduction	Vac	tor Attraction Reduction		
	(dry met			rnative	eduction	Option			
			□ Not applicable			Not applicable			
			Class A, Alterr				Option 1 Option 2		
			Class A, Alterr						
				Class A, Alternative 4			on 4		
			Class A, Alterr				Option 5 Option 6		
			Class B, Alterr						
			Class B, Alterr		C 1	D Optio			
			Class B, Alterr		10.0				
			Class B, Alterr		adjustment	Optic Optic			
2.7	Identify the treatme	nt process(es) t	hat are known to occur						
	treatment to reduce	pathogens or v	ector attraction propert	ties. (Che	eck all that ap	oply.)			
	Preliminary operations (e.g., sludge grinding and degritting)				Thickening	(concent	tration)		
	Stabilization			Anaerobic digestion					
	Stabilization								
-	StabilizationComposting				Conditionin	ng			
	Composting	(e.g., beta ray in asteurization)	radiation, gamma ray		Conditionin Dewatering	g (e.g., ce	ntrifugation, sludge drying s)		
	Composting		radiation, gamma ray		Conditionin	g (e.g., ce ge lagoon			

EPA Form 3510-2S (Revised 3-19)

	ation Number	NPDES Permit Nu AL 0020206		Facility Athens		Form Approved 03/05/ OMB No. 2040-00		
Troate	ment Provided at \		·	Athens				
2.8			sal practice indicate	the ann	licable natho	gen class and reduction alternative		
2.0						tach additional pages, as necessa		
		posal Practice	Pathogen Class			Vector Attraction Reductio		
		eck one)		native	Option			
-		on of bulk sewage	☑ Not applicable			Not applicable		
C	Land applicati		Class A, Altern	ative 1		Option 1		
	(bulk)		Class A, Altern			Option 2		
	Land applicati	on of biosolids	Class A, Altern			Option 3		
	(bags)		Class A, Altern			Option 4		
	□ Surface dispos	sal in a landfill	Class A, Altern			Option 5		
	□ Other surface		Class A, Altern			Option 6		
	□ Incineration		Class B, Alterna			Option 7		
			Class B, Altern			Option 8		
			Class B, Altern			Option 9		
			Class B, Altern	ative 4		Option 10		
			Domestic septa	ge, pH	adjustment	Option 11		
2.9	Identify the treatr	nent process(es) use				ewage sludge or reduce the vecto		
	attraction propert	ties of sewage sludge	? (Check all that app	ly.)				
	Preliminar	ry operations (e.g., slu	udge grinding and		Thislastic	(ana contration)		
	degritting)				Inickening	g (concentration)		
	Stabilizatio	on			Anaerobic	digestion		
	Compostin	ng			Conditioni	ng		
	Disinfection	on (e.g., beta ray irrad	liation, gamma ray		Dewaterin	g (e.g., centrifugation, sludge dryin		
	irradiation	, pasteurization)			beds, slud	ge lagoons)		
	Heat dryin	Ig			Thermal re	eduction		
		or biogas capture and	recovery	ecovery				
	-							
2.10		er sewage sludge tre	atment or blending a	ctivities	not identified	in Items 2.8 and 2.9 (Part 2, Sect		
	2) above.							
	Check here if you have attached the description to the application package.							
	Our sludge is wasted to and stored in two sludge storage lagoons where it is allowed to naturally breakdown bene							
	the surface of the water while the supernatant water flows back into the main influent pump station of the treatm							
	the surface of the		ernatant water flows	s back ir	nto the main	influent pump station of the treat		
					nto the main	influent pump station of the treat		
		een our practice for a			to the main	influent pump station of the treat		
					to the main	influent pump station of the treat		
					nto the main	influent pump station of the treat		
					nto the main	influent pump station of the treat		
					nto the main	influent pump station of the treat		
	plant. This has be ration of Sewage	een our practice for a Sludge Meeting Cei	t least the past 16 ye	ears.				
One o	plant. This has be ration of Sewage of Vector Attraction	een our practice for a Sludge Meeting Ceil n Reduction Option:	t least the past 16 ye ling and Pollutant C s 1 to 8	ears.	trations, Cla	ss A Pathogen Requirements, a		
	plant. This has be ration of Sewage of Vector Attraction Does the sewage	een our practice for a Sludge Meeting Ceil n Reduction Options sludge from your fac	t least the past 16 ye ling and Pollutant C s 1 to 8 ility meet the ceiling	ears.	trations, Cla	ss A Pathogen Requirements, and ble 1 of 40 CFR 503.13, the pollute		
One o	plant. This has be ration of Sewage of Vector Attraction Does the sewage concentrations in	een our practice for a Sludge Meeting Ceil n Reduction Options sludge from your fac Table 3 of 40 CFR 50	t least the past 16 ye ling and Pollutant C s 1 to 8 lity meet the ceiling 03.13, Class A patho	concent concent gen red	trations, Cla rations in Ta uction requir	ss A Pathogen Requirements, a ble 1 of 40 CFR 503.13, the polluta ements at 40 CFR 503.32(a), and		
One o	plant. This has be ration of Sewage of Vector Attraction Does the sewage concentrations in	een our practice for a Sludge Meeting Ceil n Reduction Options sludge from your fac	t least the past 16 ye ling and Pollutant C s 1 to 8 lity meet the ceiling 03.13, Class A patho	concent gen red 03.33(b)	rations, Cla rations in Ta uction requir)(1)–(8) and	ss A Pathogen Requirements, and ble 1 of 40 CFR 503.13, the polluta ements at 40 CFR 503.32(a), and s it land applied?		
One o	plant. This has be ration of Sewage of Vector Attraction Does the sewage concentrations in of the vector attra	een our practice for a Sludge Meeting Ceil n Reduction Options sludge from your fac Table 3 of 40 CFR 50	t least the past 16 ye ling and Pollutant C s 1 to 8 lity meet the ceiling 03.13, Class A patho	concent concent gen red	trations, Cla rations in Ta uction requir)(1)–(8) and No → SKIF	ss A Pathogen Requirements, and ble 1 of 40 CFR 503.13, the polluta ements at 40 CFR 503.32(a), and		
One o 2.11	plant. This has be ration of Sewage of Vector Attraction Does the sewage concentrations in of the vector attra Yes	een our practice for a Sludge Meeting Ceil n Reduction Options sludge from your fac Table 3 of 40 CFR 50 iction reduction requir	t least the past 16 ye ling and Pollutant C s 1 to 8 ility meet the ceiling 03.13, Class A patho ements at 40 CFR 5	concent concent gen red 03.33(b)	trations, Cla rations in Ta uction requir)(1)–(8) and No → SKIF below.	ss A Pathogen Requirements, and ble 1 of 40 CFR 503.13, the polluta ements at 40 CFR 503.32(a), and o is it land applied?		
One o	plant. This has be ration of Sewage of Vector Attraction Does the sewage concentrations in of the vector attra Pes Total dry metric to	een our practice for a Sludge Meeting Ceil n Reduction Options sludge from your fac Table 3 of 40 CFR 50 action reduction requir	t least the past 16 ye ling and Pollutant C s 1 to 8 ility meet the ceiling 03.13, Class A patho ements at 40 CFR 5	concent concent gen red 03.33(b)	trations, Cla rations in Ta uction requir)(1)–(8) and No → SKIF below.	ss A Pathogen Requirements, and ble 1 of 40 CFR 503.13, the polluta ements at 40 CFR 503.32(a), and s it land applied?		
One o 2.11	plant. This has be ration of Sewage of Vector Attraction Does the sewage concentrations in of the vector attra Pes Total dry metric to	een our practice for a Sludge Meeting Ceil n Reduction Options sludge from your fac Table 3 of 40 CFR 50 iction reduction requir	t least the past 16 ye ling and Pollutant C s 1 to 8 ility meet the ceiling 03.13, Class A patho ements at 40 CFR 5	concent concent gen red 03.33(b)	trations, Cla rations in Ta uction requir)(1)–(8) and No → SKIF below.	ss A Pathogen Requirements, and ble 1 of 40 CFR 503.13, the polluta ements at 40 CFR 503.32(a), and o is it land applied?		
One o 2.11	plant. This has be ration of Sewage of Vector Attraction Does the sewage concentrations in of the vector attra Q Yes Total dry metric to subsection that is	Sludge Meeting Ceil n Reduction Options sludge from your fac Table 3 of 40 CFR 50 oction reduction requir	t least the past 16 ye ling and Pollutant C s 1 to 8 lity meet the ceiling 03.13, Class A patho rements at 40 CFR 5 d of sewage sludge	concent gen red 03.33(b) v subject	trations, Cla rations in Ta uction requir)(1)–(8) and i No → SKIF below. to this	ss A Pathogen Requirements, and ble 1 of 40 CFR 503.13, the polluta ements at 40 CFR 503.32(a), and is it land applied? P to Item 2.14 (Part 2, Section 2)		
One o 2.11 2.12	plant. This has be ration of Sewage of Vector Attraction Does the sewage concentrations in of the vector attra Q Yes Total dry metric to subsection that is	Sludge Meeting Ceil n Reduction Options sludge from your fac Table 3 of 40 CFR 50 oction reduction requir	t least the past 16 ye ling and Pollutant C s 1 to 8 lity meet the ceiling 03.13, Class A patho rements at 40 CFR 5 d of sewage sludge	concent gen red 03.33(b) v subject	trations, Cla rations in Ta uction requir)(1)–(8) and i No → SKIF below. to this	ss A Pathogen Requirements, and ble 1 of 40 CFR 503.13, the polluta ements at 40 CFR 503.32(a), and is it land applied? P to Item 2.14 (Part 2, Section 2)		
One o 2.11 2.12	plant. This has be ration of Sewage of Vector Attraction Does the sewage concentrations in of the vector attra Des Total dry metric to subsection that is Is sewage sludge	Sludge Meeting Ceil n Reduction Options sludge from your fac Table 3 of 40 CFR 50 oction reduction requir	t least the past 16 ye ling and Pollutant C s 1 to 8 lity meet the ceiling 03.13, Class A patho rements at 40 CFR 5 d of sewage sludge	concent gen red 03.33(b) v subject	trations, Cla rations in Ta uction requir)(1)–(8) and i No → SKIF below. to this	ss A Pathogen Requirements, and ble 1 of 40 CFR 503.13, the polluta ements at 40 CFR 503.32(a), and s it land applied?		

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EPA Ide	ntification Number	NPDES Permi	Number	Facilit	Name	Form Approved 03/05/ OMB No. 2040-000
		AL 0020	206	Athens	WWTP	OIMB NO. 2040-000
Sa	le or Give-Away in	a Bag or Other Co	ntainer for Appl	ication to the	Land	n in an ann an
2.	4 Do you place se	ewage sludge in a b	ag or other conta	ainer for sale o	r give-away for lan	d application?
÷.	Yes				No 🗲 SKIP to It	em 2.17 (Part 2, Section 2)
			•		below.	
2.		tons per 365-day p				•
	other container	at your facility for sa	ile or give-away	for application	to the land:	
2.1				y the sewage s	sludge being sold o	or given away in a bag or othe
2	· · ·	plication to the land				
	Check h	ere to indicate that	you have attache	ed all labels or	notices to this app	lication package.
	Check hore enco		ltomo 2 14 to 2 1	6 than - Cl/	ID to Dort 2. Contin	n 0. Ham 0.20
	Check here once ye					MI Z, ILEIII Z.JZ.
	ipment Off Site for			<u>a (jatrus</u>		
2.1		ge sent directly to a				(This question does not pertai
		Je sem unecuy to a	and application		•	em 2.32 (Part 2, Section 2)
ages 2 M	Yes		· '	\checkmark	below.	om 2.02 (1 art 2, 000.01 2)
2.	8 Indicate the tota	al number of facilities	s that provide tre	atment or blen		r's
	sewage sludge.	Provide the information				
и. х -	for each facility.					
r a ^r A	Check h	ere if you have atta	ched additional s	sheets to the a	pplication package	
2.1	9 Name of receivi	ng facility				
	Mailing addross	(street or B.O. boy)				
. Te		(street or P.O. box)	• •			
L St 2. 2. 2. 2. 2. 2. 2. 2. 2.	City or town			State		ZIP code
	Contact name (f	first and last)	Title	Dhono	number	Email address
ina. Na		list and last		FIIONE	number	
	Location addres	s (street, route num	ber, or other spe	cific identifier)		□ Same as mailing add
	Oite on town					
	City or town			State		ZIP code
2.2	0 Total dry metric	tons per 365-day pe	eriod of sewage	sludae provide	d to receiving	
)	facility:		, iou oi comago (a to roooining	
2.2		ing facility provide a	dditional treatme	nt to roduco n	othogona in cowar	e sludge from your facility or
) _	reduce the vector	or attraction properti	es of sewade sli	Idae from vour	facilitv?	le sludge nom your lacility of
	☐ Yes				•	Item 2.24 (Part 2, Section 2)
: . ·			· ·		below.	
2.2		logen class and red	uction alternative	e and the vector	or attraction reduct	ion option met for the sewage
	sludge at the red					
	□ Not applicabl	Class and Reduc	tion Alternative			tion Reduction Option
	Class A, Alter				ot applicable otion 1	
	Class A, Alte				otion 2	
* # 	Class A, Alter		-		otion 3	•
	Class A, Alte		•		otion 4	
	Class A, Alter				otion 5	
	Class A, Alter		-		otion 6	
7 	Class B, Alter				otion 7	
	Class B, Alter				otion 8	· ·
	I LI GIASS D. AILEI					
	Class B, Alter					
		rnative 3			otion 9 otion 10	

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A Identification Number		NPDES Permit Number AL 0020206		y Name WWTP	Form Approved 03/05/1 OMB No. 2040-000
2.23		process(es) are used at the receiving fa properties of sewage sludge from your f	cility to re	educe pathogens in	
		operations (e.g., sludge grinding and		Thickening (conce	
	Stabilizatio	n		Anaerobic digestic	on
	Compostin			Conditioning	
		n (e.g., beta ray irradiation, gamma ray pasteurization)		Dewatering (e.g., beds, sludge lago	centrifugation, sludge drying ons)
	Heat drying			Thermal reduction	1
-	Methane o	r biogas capture and recovery		Other (specify)	
2.24	information" requ	any information you provide the receivin rement of 40 CFR 503.12(g). are to indicate that you have attached m		to comply with the "	notice and necessary
2.25	Does the receivin	g facility place sewage sludge from you		n a bag or other cor	ntainer for sale or give-away fo
-	application to the Yes			No → SKIP to I below.	tem 2.32 (Part 2, Section 2)
2.26		all labels or notices that accompany the to indicate that you have attached m			away.
	neck here once you	have completed Items 2.17 to 2.26 (Pa	art 2, Sect	tion 2), then \rightarrow SKI	P to Item 2.32 (Part 2, Section
	and a second sec	lk Sewage Sludge			
2.27	Is sewage sludge	from your facility applied to the land?		No → SKIP to I below.	tem 2.32 (Part 2, Section 2)
2.28	Total dry metric to application sites:	ons per 365-day period of sewage sludg	e applied		
2.29	Did you identify a	Il land application sites in Part 2, Sectio	n 3 of this	application?	
	Yes			No -> Submit a with your applic	copy of the land application pation.
2.30	Are any land app material from sev	ication sites located in states other than vage sludge?	the state	e where you genera	te sewage sludge or derive a
	Yes			No → SKIP to I below.	tem 2.32 (Part 2, Section 2)
2.31	Attach a copy of t				application sites are located.
		e if you have attached the explanation t e if you have attached the notification to			
Surfa	ce Disposal				
2.32	Is sewage sludge	from your facility placed on a surface d	isposal si	No → SKIP to I	tem 2.39 (Part 2, Section 2)
2.33		ons of sewage sludge from your facility		below. all surface	
2.34		erate all surface disposal sites to which	you send	d sewage sludge for	r disposal?
	□ Yes → S below.	KIP to Item 2.39 (Part 2, Section 2)		No	
2.35	Indicate the total sludge.	number of surface disposal sites to whic mation in Items 2.36 to 2.38 of Part 2, S			
	-	you have attached additional sheets to			

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A Identific	cation Number		Permit Number 0020206	Facility Name Athens WWTP		Form Approved 03/05/ OMB No. 2040-000			
2.36	Site name or nu			do not own or operate					
	Mailing address	(street or P.O	. DOX)						
	City or Town			State		ZIP Code			
	Contact Name (first and last)	Title	Phone Number		Email Address			
2.37	Site Contact (Ch	neck all that ap	oply.)						
	Owner			Operator	r				
2.38	Total dry metric disposal site per			facility placed on this surface	e				
Incine	eration				1				
2.39	Is sewage sludg	e from your fa	cility fired in a sewa	ge sludge incinerator?					
	Yes					2.46 (Part 2, Section 2)			
2.40		Total dry metric tons of sewage sludge from your facility fired in all sewage sludge incinerators per 365-day period:							
2.41									
	Yes → SKIP to Item 2.46 (Part 2, Section 2) No No								
2.42	 Indicate the total number of sewage sludge incinerators used that you do not own or operate. (Provide the information in Items 2.43 to 2.45 directly below for each facility.) Check here if you have attached additional sheets to the application package. 								
2.43	Incinerator name or number								
	Mailing address (street or P.O. box)								
	City or town			State		ZIP code			
	Contact name (f	first and last)	Title	Phone number		Email address			
	Location address (street, route number, or other specific identifier)								
	City or town			State		ZIP code			
2.44	Contact (check	all that apply)							
	Incinera	tor owner			tor operator				
2.45	Total dry metric sludge incinerat			facility fired in this sewage					
Dispo	sal in a Municip	al Solid Wast	e Landfill						
2.46			and the second product of the second s	unicipal solid waste landfill?					
	Yes				KIP to Part	2, Section 3.			
2.47	information in It	ems 2.48 to 2.	52 directly below for						
	Di Check here package.	If you have al	tached additional sh	eets to the application					

EP.	EPA Identification Number			ermit Number 020206	Facility Name Athens WWTP	Form Approved 03/05/19 OMB No. 2040-0004		
1010	2.48	Name of landfill						
		Mailing address (str	eet or P.O. I	New Street				
		City or town		1	State	ZIP code		
		Contact name (first	and last)	Title	Phone number	Email address		
-		Location address (s	treet, route i	number, or ot	er specific identifier)	Same as mailing address		
		County		10.1	County code	Not available		
		City or town			State	ZIP code		
nea	2.49	Total dry metric ton municipal solid was						
Collininan	2.50	List the numbers of all other federal, state, and local permits that regulate the operation of this municipal solid waste landfill.						
		Permit Number			Type of Permit			
Continued	2.51	disposal of sewage	sludge in a l	municipal soli	ine whether the sewage sludge me waste landfill (e.g., results of paint hed the requested information.			
	0.50					10.050.0500		
	2.52	Does the municipal solid waste landfill comply with applicable criteria set forth in 40 CFR 258? Yes No						

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EPA Identi	fication Number	NPDES Permit Number Fa		Facili	ty Name	Form Approved 03/05/19 OMB No. 2040-0004					
		AL 0020	206	Athen	s WWTP	UMB NO. 2040-0004					
	TION 3 LAND APP	LICATION OF B	ULK SEWAGE SI	UDGE (40	CFR 122.21(q)(9))						
3.1	Does your facility	apply sewage slu	idge to land?								
	Yes			1	✓ No → SKIP to Part 2, Section 4.						
3.2	Do any of the foll	owing conditions	apply?								
	Table 3 of 4 attraction re- • The sewage	0 CFR 503.13, Cl duction requirements sludge is sold or	ass A pathogen re ents at 40 CFR 50	eduction requ 3.33(b)(1)(8 ag or other o	irements at 40 CFR 3); container for applicat	12, the pollutant concentrations i 503.32(a), and one of the vecto tion to the land; or					
	□ Yes →	SKIP to Part 2, Se	ection 4.		No						
3.3	Complete Section	Complete Section 3 for every site on which the sewage sludge is applied.									
	Check here i	Check here if you have attached sheets to the application package for one or more land application sites.									
Iden	tification of Land A	ication of Land Application Site									
3.4	Site name or number										
	Location address	(street, route nur	nber, or other spe	cific identifie	r)	Same as mailing addres					
		(ou cord route nur	inder, of other ope								
	County				County code	Not available					
de	City or town		State		ZI	P code					
pnis	Latituda/Langitu	ide of land Appl	ication Site (see	instructions							
ige	Latitude/Longitt	Latitude	ication Site (See			Longitude					
Dewa		o /	"		٥	, "					
	Mathed of Data	Method of Determination									
0											
	USGS map Field survey Other (specify)										
2.5 3.6 2.5 3.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2	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.										
own	er Information										
e 3.6	Are you the owned ☐ Yes →		Part 2, Section 3)	below.	No						
3.7	Owner name				47						
	Mailing address (street or P.O. box	;)	1							
1	City or town				State	ZIP code					
	Contact name (fin	rst and last)	Title		Phone number	Email address					
Арр	lier Information	and the second sec		-		the state in the second					
3.8			who is responsib (Part 2, Section 3		tion of, sewage sluc	Ige to this land application site?					
3.9	Applier's name										
	Mailing address (street or P.O. box	()								
	City or town				State	ZIP code					
	Contact name (fir	rst and last)	Title		Phone number	Email address					
	1										

A Identification Number	ation Number	NPDES Pe	rmit Number	Facility I	Name	Form Approved 03/05/19				
		AL 00	20206	Athens \	WWTP OMB No. 2040-0					
Site T	vpe									
3.10	Type of land appl	lication:								
	Agricultu	ural land								
	Reclama	ation site			Public contact	site				
	=	escribe)		_						
Cron	or Other Vegetatio	-	ita							
3.11		and the second data and the se	ation is grown on	this site?						
3.12	What is the nitrog	gen requiremen	t for this crop or v	egetation?						
Vecto	r Attraction Redu	ction		-						
3.13	T	and any construction of the state of the	on requirements a	t 40 CFR 503.33(b)(9) and (b)(10)	met when sewage sludge is				
	applied to the lan	d application si	te?							
	T Yes					Item 3.16 (Part 2, Section 3)				
244	Indicate which ye	ates attraction .	aduation antion is	mat (Chack and	below.					
3.14			eduction option is			reportion into anil within 6 hours				
			w land surface)			prporation 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.									
	and a second secon									
3.16	Is the sewage slu (CPLRs) in 40 CF			y 20, 1993, subje	ct to the cumulati	ve pollutant loading rates				
		-R 505.15(D)(2)	11			Part O. Castion A				
	Yes				No → SKIP to F					
3.17	Have you contacted the NPDES permitting authority in the state where the bulk sewage sludge subject to CPLRs wi be applied to ascertain whether bulk sewage sludge subject to CPLRs has been applied to this site on or since July 20, 1993? No → Sewage sludge subject to CPLRs may									
	T Yes					e sludge subject to CPLRs may applied to this site. SKIP to Part				
	Yes									
3.18	Section 4									
	NPDES permittin									
	Contact person	<u> </u>								
	Telephone numb	er								
	Email address					1. (A. (A. (A. (A. (A. (A. (A. (A. (A. (A				
3.19		quiry has bulk	sewage sludge si	biect to CPI Rs h	een applied to th	is site since July 20, 1993?				
0.10	Yes	qui j, nuo buix	contago cladgo ca			-				
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)									
	Mailing address (street or P.O. b	ox)							
	Mailing address (City or town	street or P.O. b	oox)	S	tate	ZIP code				

1	,	v	5	1	,	
EPA lde						

AL 0020206 Athens WWIP PART 2. SECTION 4 SURFACE DISPOSAL (40 CFR 122.21(q)(10)) 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	EF	EPA Identification Number		NPDES Permit Nun	nber		Facility Name	;	Form Approved 03/05/19		
4.1 Do you own or operate a surface disposal site? No → SKIP to Part 2, Section 5. 4.2 Complete al liams 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 4.3 Unit name or number State ZIP code Contact name (first and last) Title Phone number Email address Location address (street or P.O. box) County code Not available City or town State ZIP code County County code Not available City or town State ZIP code Latitude/Longitude of Active Sewage Sludge Unit (see instructions) Longitude dir """"""""""""""""""""""""""""""""""""							thens WW	TP	OMB No. 2040-0004		
Image: Section 4. Image: 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. 1.1 Information on Active Sewage Studge Units 4.3 Unit name or number Mailing address (street or P.O. box) State City or town State Location address (street, route number, or other specific identifier) Image: State Location address (street, route number, or other specific identifier) Image: State City or town State Location address (street, route number, or other specific identifier) Image: State Location address (street, route number, or other specific identifier) Image: State County County code Into available City or town State ZIP code Latitude/Longitude of Active Sewage Studge Unit (see instructions) Latitude Latitude Longitude Image: State USGS map Field survey Other (specify) 4.4 Provide a topographic map (or other appropriate map if a topographic map. Total dry metric tons of sewage sludge placed on the active sewage sludge unit per 365 day period.	PART 2	((10 <u>)</u>)					
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) Isame as mailing address County code INot available City or town State ZIP code Latitude Longitude Latitude/Longitude of Active Sewage Sludge Unit (see instructions) Latitude Longitude Latitude r r m Method of Determination UsSGS 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. Second	4 ¹	4.1	· ·	erate a surface dispo	sal site?		-				
Information on Active Sewage Sludge Units 4.3 Unit name or number 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) Is ame as mailing address County County code Into available City or town State ZIP code Is ame as mailing address County code Into available City or town State ZIP code Is ame as mailing address Latitude/Longitude of Active Sewage Sludge Unit (see instructions) Latitude Longitude Latitude intra-intr											
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 Latitude Longitude """"""""""""""""""""""""""""""""""""	l	4.2				-	-	-			
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) Isame as mailing address County code Not available City or town State ZIP code Intitude/Longitude of Active Sewage Sludge Unit (see instructions) Latitude Latitude/Longitude of Active Sewage Sludge Unit (see instructions) Latitude Longitude " USGS map Field survey Other (specify)					nave attacl	hed materia	al to the app	blication package	e for one or more active		
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 code □ Not available County County code □ Not available County code □ Not available City or town State ZIP code Latitude/Longitude of Active Sewage Studge Unit (see instructions) Longitude Latitude Longitude Longitude * * * Method of Determination		Inform									
Image: 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 Latitude Longitude					*						
Image: state sta			Mailing address (
Image: state of the second system and the method used for leachate disposal. No ⇒ SKIP to item 4.11 (Part 2, Section 4.11 (Part 2	н. 1		City or town					State	ZIP code		
Image: state County County code □ Not available City or town State ZIP code Latitude/Longitude of Active Sewage Sludge Unit (see instructions) Longitude Latitude Longitude 0 ' " Method of Determination			Contact name (fi	rst and last)	Title	1		Phone number	r Email address		
Image: state ZIP code Latitude/Longitude of Active Sewage Sludge Unit (see instructions) Longitude Latitude/Longitude of Active Sewage Sludge Unit (see instructions) 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. Other (specify) 4.5 Total dry metric tons of sewage sludge placed on the active sewage sludge unit per 365-day period: No SkIP to Item 4.9 (Part 2, Section 4) below. 4.8 Describe the liner. No → SkIP to Item 4.9 (Part 2, Section 4) below. No → SkIP to Item 4.11 (Part 2, Section 4) below. 4.9 Does the active sewage sludge unit have a leachate collection system? 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.			Location address	(street, route numbe	r, or other	specific ide	entifier)		□ Same as mailing address		
Image: State of the served state o			County			County code	□ Not available				
Image: second secon			City or town			State	ZIP code				
Image: state of the set			Latitude/Longitude of Active Sewage Sludge Unit (see instructions)								
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.				Latitude				Lo	ongitude		
Inceation. □ 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 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 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.	sal		o / // // o / //								
Inceation. □ 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 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 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.	spo		Method of Determination								
Inceation. □ 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 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 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.	ice Di		USGS map	<u>+-</u>	□ Field	survey			ther (specify)		
 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. 	Surfa	4.4		aphic map (or other a	ppropriate	map if a to	pographic r	nap is unavailab	ole) that shows the site		
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)? Image: Pres No → SKIP to Item 4.9 (Part 2, Section 4) below. 4.8 Describe the liner. Image: 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? Image: Pres 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 h	nave comp	leted and a	attached a to	opographic map).		
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? □ 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.		4.5			placed or	the active	sewage slu	udge unit			
(cm/sec)? □ 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 □ Yes 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.		4.6			placed or	the active	sewage slu	idge unit			
Image: Pres No → SKIP to Item 4.9 (Part 2, Section 4) below. 4.8 Describe the liner. Image: Describe the liner. Image: Describe the liner. Image: Describe the liner. Image: Describe the liner. Image: Describe the liner. Image: Describe the liner. Image: Describe the liner. Image: Describe the liner. Image: Describe the liner. Image: Describe the liner. Image: Describe the liner. Image: Describe the liner. Image: Describe the liner. Image: Describe the leachate collection system? Image: 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.		4.7		ewage sludge unit ha	ve a liner	with a maxi	imum perm	eability of 1 × 10	D-7 centimeters per second		
 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 Yes A: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. 	· .						۵		IP to Item 4.9 (Part 2, Section		
 4.9 Does the active sewage sludge unit have a leachate collection system? ☐ Yes ☐ Yes ☐ Albelow. 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. 	- 	4.8	Describe the line				-				
 4.9 Does the active sewage sludge unit have a leachate collection system? ☐ Yes ☐ Yes ☐ Albelow. 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 h	ave attach	ned a desci	ription to the	e application pac	ckage.		
Image: Yes Image: 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.				·					C .		
 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. 		4.9	Does the active s	ewage sludge unit ha	ve a leach	ate collecti	on system?)			
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.			Yes				Γ		P to Item 4.11 (Part 2, Section		
		4.10					ed for leach		d provide the numbers of any		
				,	•		scription to t	he application p	backage.		

	ters: age sludge unit in dry met	□ No → SK Section 4)	IP to Item 4.13 (Part 2,
vide the actual distance in met naining capacity of active sew cipated closure date for active ch a copy of any closure plan	age sludge unit in dry met	Section 4)	below.
naining capacity of active sew cipated closure date for active ch a copy of any closure plan	age sludge unit in dry met	ric tons:	meters
cipated closure date for active ch a copy of any closure plan		tric tons:	
ch a copy of any closure plan	sewage sludge unit if kn		dry metric tons
	sowage sludge unit, it kit	iown (MM/DD/YYYY):	
Check here to indicate that			
	you have attached a copy	of the closure plan to the a	pplication package.
dge from Other Facilities			
wage sludge sent to this activ	ve sewage sludge unit from		
Yes		□ No → SK 4) below.	IP to Item 4.21 (Part 2, Section
ge to this active sewage slude w for each such facility.)	ge unit. (Complete Items 4	y) that send sewage 4.18 to 4.20 directly	
Check here to indicate that y the application package.	ou have attached response	ses for each facility to	
lity name			
ing address (street or P.O. bo)x)		
or town	00	State	ZIP code
tact name (first and last)	Title	Phone number	Email address
		ne vector attraction reductio	n option met for the sewage
		Vector Attr	action Reduction Option
lot applicable		□ Not applicable	
class A, Alternative 1		Option 1	
Class B, Alternative 2		D Option 8	
Class B, Alternative 3		Option 9	
Class B, Alternative 4		Option 10	
	, sludge grinning and degi	-	(concentration)
Stabilization		Anaerobic	digestion
Composting		Conditionin	ng
Disinfection (e.g., beta ray in irradiation, pasteurization)	rradiation, gamma ray		g (e.g., centrifugation, sludge s, sludge lagoons)
Heat drying		Thermal re	
	and recovery	and the second se	
	Check here to indicate that dge from Other Facilities wage sludge sent to this active Yes cate the total number of faciliti ge to this active sewage sludge w for each such facility.) Check here to indicate that y the application package. lity name ing address (street or P.O. bo or town tact name (first and last) cate the pathogen class and re ge before leaving the other fa Pathogen Class and re ge before leaving the other fa Pathogen Class and F lot applicable class A, Alternative 1 class A, Alternative 2 class A, Alternative 2 class A, Alternative 3 class A, Alternative 4 class B, Alternative 5 class B, Alternative 5 class B, Alternative 1 class B, Alternative 2 class B, Alternative 3 class B, Alternative 4 bomestic septage, pH adjustm ch treatment process(es) are fully point of the treatment process (es) are fully point of t	Check here to indicate that you have attached a copy dge from Other Facilities wage sludge sent to this active sewage sludge unit from Yes rate the total number of facilities (other than your facility ge to this active sewage sludge unit. (Complete Items 4 w for each such facility.) Check here to indicate that you have attached response the application package. lity name ing address (street or P.O. box) or town tact name (first and last) Title cate the pathogen class and reduction alternative and the ge before leaving the other facility. Pathogen Class and Reduction Alternative tot applicable class A, Alternative 1 class A, Alternative 2 class A, Alternative 3 class A, Alternative 4 class B, Alternative 4 comestic septage, pH adjustment ch treatment process(es) are used at the other facility to ction properties of sewage sludge before leaving the other Preliminary operations (e.g., sludge grinding and degi Stabilization Composting Disinfection (e.g., beta ray irradiation, gamma ray irradiation, pasteurization)	wage sludge sent to this active sewage sludge unit from any facilities other than y No → SK Yes No → SK ate the total number of facilities (other than your facility) that send sewage Image: State ate the total number of facilities (other than your facility) that send sewage Image: State Check here to indicate that you have attached responses for each facility to the application package. Image: State lity name Image: State Image: State ing address (street or P.O. box) Title Phone number or town State Image: State Image: State tact name (first and last) Title Phone number Image: State value the pathogen class and reduction alternative and the vector attraction reduction ge before leaving the other facility. Vector Attr Pathogen Class and Reduction Alternative Image: State Image: State Idass A, Alternative 1 Image: State Image: State Idass A, Alternative 2 Image: State Image: State Idass A, Alternative 3 Image: State Image: State Idass A, Alternative 4 Image: State Image: State Idass A, Alternative 4 Image: State Image: State Idass B, Al

	ation Number	NPDES Permit Number	Facility Name		Form Approved 03/05/ OMB No. 2040-00
		AL 0020206	Athens WWTF		
	r Attraction Red				ad an this pative severe shuder
4.21	Which vector at unit?	traction reduction option, if any, is	met when sewage slud	ge is plac	ed on this active sewage sludge
			-	Option	n 11 (Covering active sewage
	Option S	9 (Injection below and surface)			e unit daily)
	Option '	10 (Incorporation into soil within 6 I	hours)	None	
4.22	Describe any tr sewage sludge	eatment processes used at the ac	tive sewage sludge unit	to reduce	e vector attraction properties of
	Check he	ere if you have attached your descr	ription to the application	package.	1.1.1
	idwater Monitor				
4.23		monitoring currently conducted at able for this active sewage sludge			
	Yes	1.10050750125124			SKIP to Item 4.26 (Part 2, on 4) below.
4.24	Provide a copy	of available groundwater monitoring	ng data.		
4.25		here to indicate you have attached ell locations, the approximate dept		ne around	lwater monitoring procedures us
4.25	Describe the we	ell locations, the approximate dept	h to groundwater, and the		
	Describe the we to obtain these	ell locations, the approximate dept data. here if you have attached your des	h to groundwater, and the cription to the application	n packag	e.
4.25	Describe the we to obtain these Check I Has a groundw Yes	ell locations, the approximate dept data. here if you have attached your des ater monitoring program been prej	h to groundwater, and the cription to the application pared for this active sew	n packag age sludo No → Sectio	e.
	Describe the we to obtain these Check I Has a groundw Yes	ell locations, the approximate dept data. here if you have attached your des	h to groundwater, and the cription to the application pared for this active sew	n packag age sludo No → Sectio	ge unit? ▶ SKIP to Item 4.28 (Part 2,
4.26	Describe the we to obtain these Check I Has a groundw Has a groundw Yes Submit a copy of	ell locations, the approximate dept data. here if you have attached your des ater monitoring program been prej	h to groundwater, and the cription to the application pared for this active sew	age sludg No → Section	ge unit? ▶ SKIP to Item 4.28 (Part 2,
4.26	Describe the we to obtain these Check I Has a groundw Yes Submit a copy Check I Have you obtai	ell locations, the approximate dept data. here if you have attached your des ater monitoring program been prep of the groundwater monitoring prog	h to groundwater, and the cription to the application pared for this active sew gram with this permit ap the monitoring program	age sludg No → Sectio plication.	e. ge unit? ▶ SKIP to Item 4.28 (Part 2, on 4) below.
4.26	Describe the we to obtain these Check I Has a groundw Yes Submit a copy Check I Have you obtai	ell locations, the approximate dept data. here if you have attached your des ater monitoring program been prep of the groundwater monitoring prog- here to indicate you have attached ned a certification from a qualified	h to groundwater, and the cription to the application pared for this active sew gram with this permit ap the monitoring program	age sludg No → Section plication. hat the aq	e. ge unit? ▶ SKIP to Item 4.28 (Part 2, on 4) below.
4.26	Describe the we to obtain these Check I Has a groundw Yes Submit a copy Check I Have you obtai sludge unit has Yes	ell locations, the approximate dept data. here if you have attached your des ater monitoring program been prep of the groundwater monitoring prog- here to indicate you have attached ned a certification from a qualified	h to groundwater, and the cription to the application pared for this active sew gram with this permit ap the monitoring program groundwater scientist the	age sludg No → Section plication. hat the aq	e. ge unit? SKIP to Item 4.28 (Part 2, on 4) below. uifer below the active sewage SKIP to Item 4.30 (Part 2,
4.26 4.27 4.28	Describe the we to obtain these Check I Has a groundw Yes Submit a copy of Check f Have you obtai sludge unit has Yes Submit a copy of	ell locations, the approximate dept data. here if you have attached your des ater monitoring program been prep of the groundwater monitoring prog here to indicate you have attached ned a certification from a qualified not been contaminated?	h to groundwater, and the cription to the application pared for this active sew gram with this permit ap the monitoring program groundwater scientist the papplication.	age sludg No → Section plication.	e. ge unit? SKIP to Item 4.28 (Part 2, on 4) below. uifer below the active sewage SKIP to Item 4.30 (Part 2, on 4) below.
4.26 4.27 4.28 4.29	Describe the we to obtain these Check I Has a groundw Yes Submit a copy Check r Have you obtai sludge unit has Yes Submit a copy Check r	ell locations, the approximate dept data. here if you have attached your des ater monitoring program been prep of the groundwater monitoring prog- here to indicate you have attached ned a certification from a qualified not been contaminated?	h to groundwater, and the cription to the application pared for this active sew gram with this permit ap the monitoring program groundwater scientist the papplication.	age sludg No → Section plication.	e. ge unit? SKIP to Item 4.28 (Part 2, on 4) below. uifer below the active sewage SKIP to Item 4.30 (Part 2, on 4) below.
4.26 4.27 4.28 4.29	Describe the we to obtain these Check I Has a groundw Yes Submit a copy of Check r Have you obtai sludge unit has Yes Submit a copy of Check r Pecific Limits	ell locations, the approximate dept data. here if you have attached your des ater monitoring program been prep of the groundwater monitoring prog- here to indicate you have attached ned a certification from a qualified not been contaminated?	h to groundwater, and the cription to the application pared for this active sew pared for this active sew gram with this permit ap the monitoring program groundwater scientist the poplication. the certification to the a	age sludg No → Section plication. No → Section	e. ge unit? SKIP to Item 4.28 (Part 2, on 4) below. uifer below the active sewage SKIP to Item 4.30 (Part 2, on 4) below. package.
4.26 4.27 4.28 4.29 Site-S	Describe the we to obtain these Check I Has a groundw Yes Submit a copy of Check r Have you obtai sludge unit has Yes Submit a copy of Check r Pecific Limits	ell locations, the approximate dept data. here if you have attached your des ater monitoring program been prep of the groundwater monitoring prog- here to indicate you have attached ned a certification from a qualified not been contaminated?	h to groundwater, and the cription to the application pared for this active sew pared for this active sew gram with this permit ap the monitoring program groundwater scientist the poplication. the certification to the a	age sludg No → Section plication. No → Section pplication	e. ge unit? SKIP to Item 4.28 (Part 2, on 4) below. uifer below the active sewage SKIP to Item 4.30 (Part 2, on 4) below. package.
4.26 4.27 4.28 4.29 Site-S	Describe the we to obtain these Check I Has a groundw Yes Submit a copy Check I Have you obtai sludge unit has Yes Submit a copy Check I Pecific Limits Are you seeking Yes	ell locations, the approximate dept data. here if you have attached your des ater monitoring program been prep of the groundwater monitoring prog- here to indicate you have attached ned a certification from a qualified not been contaminated?	h to groundwater, and the cription to the application of this active sew the monitoring program groundwater scientist the certification. The certification to the application to the application.	age slud No → Section plication. No → Section pplication d on the a No →	e. ge unit? SKIP to Item 4.28 (Part 2, on 4) below. uifer below the active sewage SKIP to Item 4.30 (Part 2, on 4) below. package. ctive sewage sludge unit? SKIP to Part 2, Section 5.

EPA Identif	ication Number	NPDES Permit Number AL 0020206		WWTP	Form Approved 03/05/ OMB No. 2040-00
T 2 SECT	ION 5 INCINERA	TION (40 CFR 122.21(q)(11))			
	erator Information				
5.1		ge sludge in a sewage sludge inc	inerator?		
	Yes			No -> SKIP to END).
5.2	of Section 5 for e	number of incinerators used at yeach such incinerator.) to indicate that you have attache			er
1	incinerators				
5.3	Incinerator name	or number			
	Location address	s (street, route number, or other s	necific identifier	.)	
	Location address		peoine recruiter	,	
	County			County code	Not available
	City or town			State	ZIP code
	Latituda/Langit	ude of Incinerator (see instruction			
	Latitude/Longit	Latitude		L	ongitude
		o <i>j 11</i>		0	1 11
	Mathe d of Date				
	Method of Dete				
11	USGS map	☐ Field s	survey		Other (specify)
	unt Fired				
5.4	Dry metric tons p incinerator:	per 365-day period of sewage sluc	dge fired in the	sewage sludge	
Berv	llium NESHAP				
Bery 5.5	Submit informati incinerated is be	on, test data, and a description of ryllium-containing waste and will re to indicate that you have attach	continue to rem	ain as such.	
5.6		udge fired in this incinerator "bery			
5.0		auge med in this momenator bery			
	Yes				1 5.8 (Part 2, Section 5) below
5.7	ongoing incinera will continue to b		ng that the NES	HAP emission rate	
		e to indicate that you have attach	ned this informa	tion.	
	ury NESHAP	th the moreury NECHAD hairs de	monstrated via	stack tosting?	
5.8	Is compliance wi	th the mercury NESHAP being de		-	5.11 (Part 2, Section 5) below
5.9		te report of stack testing and doc			
5.9	that the incinerat	or has met and will continue to m	eet the mercury	NESHAP emission	
	Check he	e to indicate that you have attach	ned this informa	tion.	
5.10	Provide copies of	f mercury emission rate tests for	the two most re	cent years in which	testing was conducted.
	Check he	e to indicate that you have attach	ed this informa	tion.	
5.11	Do you demonst	rate compliance with the mercury	NESHAP by se	wage sludge samp	ling?
	Yes				em 5.13 (Part 2, Section 5)
5.12		te report of sewage sludge samp e incinerator has met and will con			
	Check he	e to indicate that you have attach	ed this information	tion.	

1 FS .

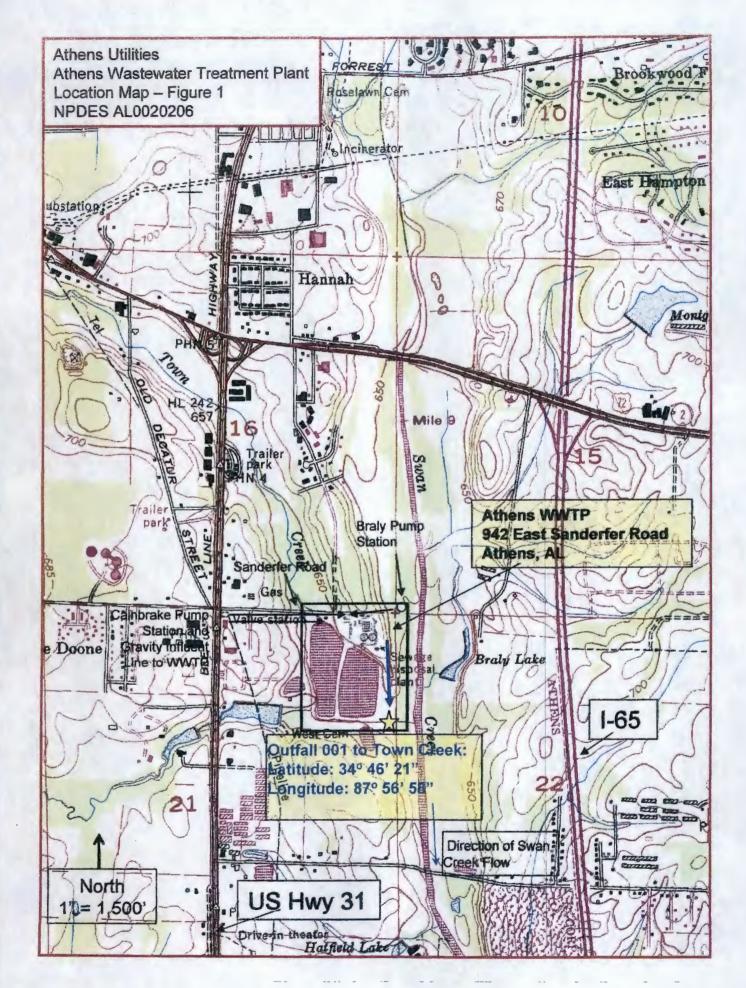
EP	A Identific	ation Number	NPDES Permit Number AL 0020206		ity Name s WWTP	Form Approved 03/05/19 OMB No. 2040-0004
	Dispe	rsion Factor				
	5.13		r in micrograms/cubic meter per gi	ram/second:		
	5.14	Name and type of	of dispersion model:	· · · · · · · · · · · · · · · · · · ·		
	5.15		the modeling results and support te to indicate that you have attache			
			e lo indicale linal you nave allacin		auon.	
-	5.16	DI Efficiency	rol efficiency, in hundredths, for ea	och of the pollu	stanta listad bolow	
	5.10	Provide the cont	Pollutant		Control Efficiency,	in Hundredths
		Arsenic	· ····			In Handroutio
		Cadmium		1122.18		1.
		Chromium			2	
		Lead		-	-	
		Nickel				
ŀ	5.17		the results or performance testing	and supportin	a documentation (in	cluding testing dates)
	0.17		e to indicate that you have attache			endering tooling dateo/
-	D' 1 0					ler er ble fan it is de schlans mer fannande dene mande maan de senere sterene sterene sterene sterene sterene
-	5.18		ation for Chromium	for abromium	in .	
	5.10	micrograms per	specific concentration (RSC) used	for chromium	in	
F	5.19		termined via Table 2 in 40 CFR 50	03.43?		
		□ Yes		Π		n 5.21 (Part 2, Section 5) below
-	5.20		of invincentor word on the basis			
	5.20		of incinerator used as the basis.	-	Others to reason with su	at any hit of
			bed with wet scrubber		Other types with w	
			bed with wet scrubber and wet lic precipitator		precipitator	et scrubber and wet electrostat
	5.21		termined via Table 6 in 40 CFR 50	03.43 (site-spe)
						m 5.23 (Part 2, Section 5)
		L Yes			below.	
	5.22		nal fraction of hexavalent chromiu	m concentration	on to total	1.77 C
-	5.00		ntration in stack exit gas:			1. C
	5.23	any test(s), with	s of incinerator stack tests for hexa	avalent and to	tai chromium concen	trations, including the date(s) o
1				ad this isfama		Net en liechle
-			e to indicate that you have attache	ed unis informa		Not applicable
-	5.24	Parameters	otal hydrocarbons (THC) in the ex	it gas of the se	awaga aludaa inainar	ntar?
	J.24		otal hydrocarbons (THC) in the ex			ator
		Yes			No	
	5.25	Do you monitor o	arbon monoxide (CO) in the exit g	as of the sewa	age sludge incinerate	?rc
		Yes			No	
	5.26	Indicate the type	of sewage sludge incinerator.			
	5.27	Incinerator stack	height in meters:			
	5.28	Indicate whether	the volue submitted in Item E 07 :	o lohook only		
	0.20		the value submitted in Item 5.27 is		1 1	
		Actual stat	JA HEIQIII		Creditable stack he	adul

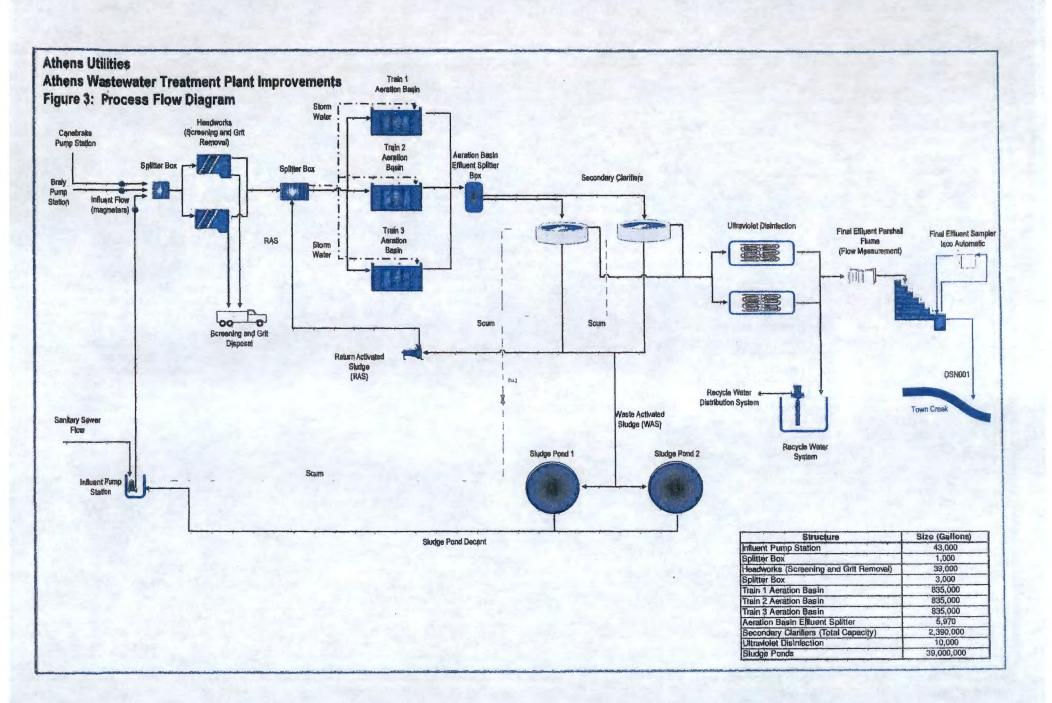
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END of PART 2

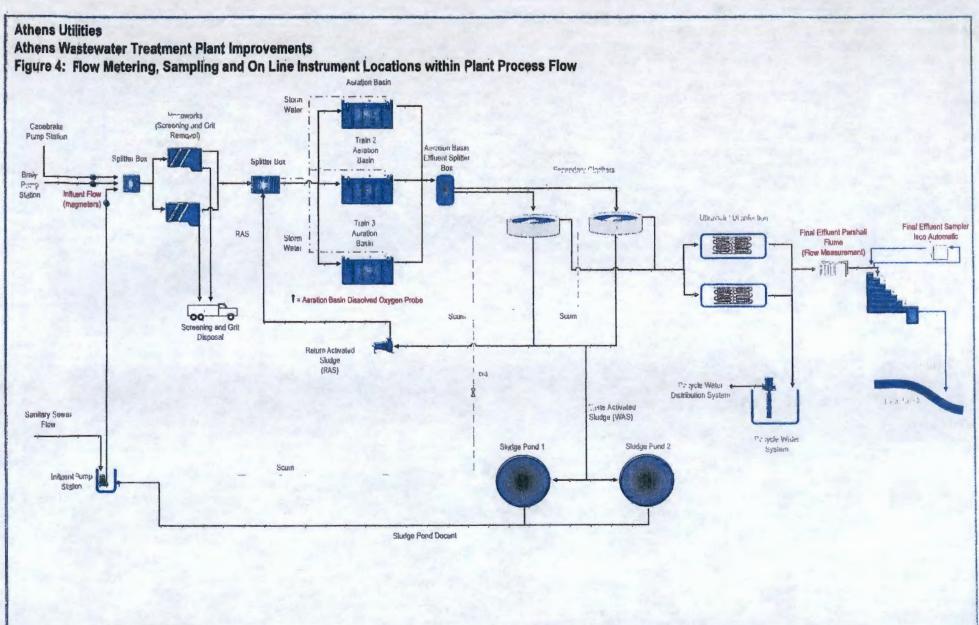
Submit completed application package to your NPDES permitting authority.

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