

ROY COOPER
Governor

MICHAEL S. REGAN
Secretary

LINDA CULPEPPER
Director



NORTH CAROLINA
Environmental Quality

April 30, 2019

Mr. Bryan Thompson, Town Manager
Town of Siler City
P. O. Box 769
Siler City, North Carolina 27344-0769

Subject: NPDES Permit Modification
Permit Number NC0026441
Siler City WWTP
Chatham County
Grade IV Biol. WPCS, SIC 4952

Dear Mr. Thompson:

The Division of Water Resources is forwarding herewith the modified NPDES permit for the Siler City WWTP. This permit renewal is issued pursuant to the requirements of North Carolina General Statute 143-215.1 and the Memorandum of Agreement between North Carolina and the U.S. Environmental Protection Agency dated October 15, 2007 (or as subsequently amended).

A public hearing was held on January 24, 2019, in the Siler City Town Hall Courtroom, seeking public comment on the draft permit. Comments were accepted through January 31, 2019, except that, in light of the furlough of federal employees in January, the U.S. Fish & Wildlife Service staff was allowed an additional week to comment. The Hearing Officer has submitted recommendations regarding changes to the permit and other matters in response to the comments received. I generally support the recommendations, including the addition of the 2023 Total Nitrogen (TN) Load limit, as proposed, but have instructed the staff to make the following additional changes:

- Interim TN Load limit. A TN Load limit has been added to Special Condition A.(1.). The limit is effective from January 1, 2020 through December 31, 2022. It is equivalent to 667 lb/day TN and is meant to ensure the Town's nitrogen load does not exceed historic (2004-2008) levels. This does not affect the 2023 TN Load limit originally proposed.
- Process Optimization. Conditions A.(10.) Compliance Schedule and A.(11.) Treatment Optimization have been removed from the permit. The requirements are no longer necessary, given the addition of the interim TN Load limit. The Town may still pursue optimization in its nitrogen removal efforts, but it no longer needs prior approval from the Division to implement measures found to be effective.

This permit becomes effective May 1, 2019, and, as before, expires on May 31, 2019.



North Carolina Department of Environmental Quality | Division of Water Resources
512 North Salisbury Street | 1617 Mail Service Center | Raleigh, North Carolina 27699-1617
919.707.9000

Issuance of NPDES Permit
Permit Number NC0026441
April 30, 2019

If any parts, measurement frequencies, or sampling requirements contained in this permit are unacceptable to you, you have the right to an adjudicatory hearing upon written request within thirty (30) days following receipt of this letter. This request must be in the form of a written petition, conforming to Chapter 150B of the North Carolina General Statutes, and filed with the office of Administrative Hearings, 6714 Mail Service Center, Raleigh, North Carolina 27699-6714. Unless such a demand is made, this permit shall be final and binding.

Please take notice that this permit is not transferable except after notice to the Division of Water Resources. The Division may require modification or revocation and reissuance of the permit. This permit does not affect the legal requirements to obtain other permits which may be required by the Division of Water Resources, the Division of Land Resources, the Coastal Area Management Act, or any other federal or local governmental permit.

If you have any questions regarding the permit or revisions to the permit, please contact Mike Templeton at 919-707-3603 or mike.templeton@ncdenr.gov.

Sincerely,



Linda Culpepper

Enclosures: Final permit NC0026441
Copies: Central Files
NPDES Files
Raleigh Regional Office, Water Resources
eCopies: US EPA, Region IV

STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF WATER RESOURCES

PERMIT

TO DISCHARGE WASTEWATER UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of North Carolina General Statute 143-215.1, other lawful standards and regulations promulgated and adopted by the North Carolina Environmental Management Commission, and the Federal Water Pollution Control Act, as amended, the

Town of Siler City

is hereby authorized to discharge wastewater from a facility located at the

Town of Siler City WWTP
370 Waste Treatment Plant Road
Chatham County

to receiving waters designated as Loves Creek within the Cape Fear River Basin

in accordance with effluent limitations, monitoring requirements, and other conditions set forth in Parts I, II, III and IV hereof.

This permit shall become effective May 1, 2019.

This permit and authorization to discharge shall expire at midnight May 31, 2019.

Signed this dayApril 30, 2019.

Linda Culpepper, Director
Division of Water Resources
By Authority of the Environmental Management Commission

SUPPLEMENT TO PERMIT COVER SHEET

All previous NPDES Permits issued to this facility, whether for operation or discharge are hereby revoked. As of this permit issuance, any previously issued permit bearing this number is no longer effective. Therefore, the exclusive authority to operate and discharge from this facility arises under the permit conditions, requirements, terms, and provisions included herein.

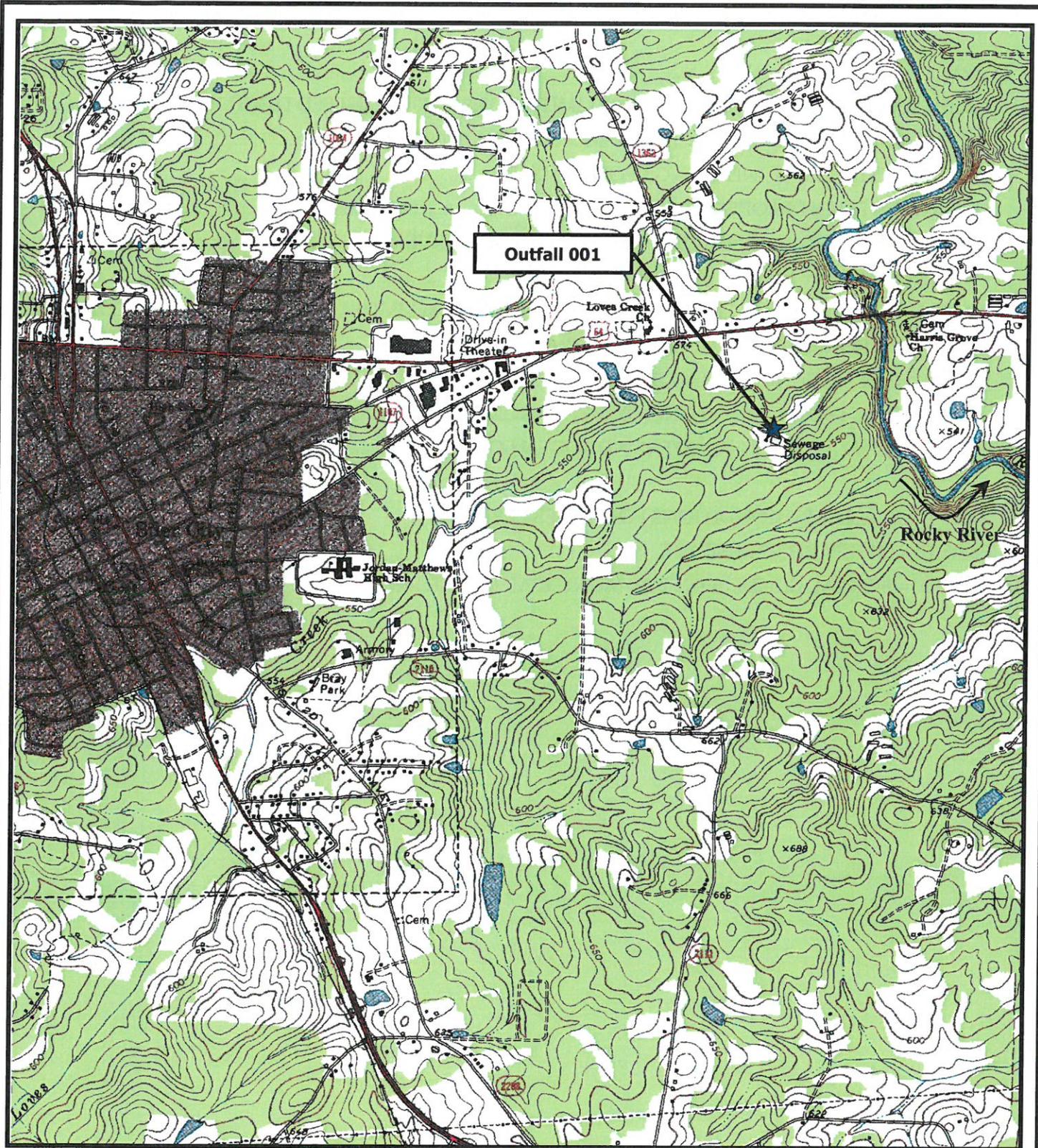
The Town of Siler City

is hereby authorized to:

1. Continue to operate and discharge from the Siler City WWTP, a 4.0 MGD wastewater treatment facility consisting of:
 - Automatic and manual bar screens
 - Grit collection unit
 - Influent pump station
 - Influent Equalization Basin (Zone 2)
 - Dual oxidation ditches with surface jet aeration
 - Flow Splitter Box
 - Alum feed station
 - Lime feed station
 - Dual secondary clarifiers
 - Dual Aerobic digesters
 - Return Activated Sludge
 - Sludge Transfer Station
 - Dissolved Air Flotation Unit (Used as needed)
 - Sludge Thickener Basin
 - Influent equalization or Sludge Storage Basins (Zone 3 A & B used as needed)
 - Four (4) tertiary filters
 - Filter Backwash Basin
 - Gaseous Chlorine Disinfection
 - Chlorine contact chamber
 - Gaseous Sulfur dioxide Dechlorination
 - Step-Aeration

and located at 370 Waste Treatment Plant Road near Siler City in Chatham County;

2. Upon receipt of an Authorization to Construct from the Division of Water Resources, construct and operate improvements that, at a minimum, add nutrient removal capabilities; and
3. Discharge treated process and domestic wastewater from said treatment works through Outfall 001 at the location specified on the attached map into Loves Creek, which is classified as C waters in the Cape Fear River Basin.



Town of Siler City WWTP

Latitude:	35° 43' 45" N	State Grid/Quad:	E 21 NW / Siler City, NC
Longitude:	79° 25' 42" W	Permitted Flow:	4.0 MGD
Receiving Stream:	Loves Creek	Drainage Basin:	Cape Fear River Basin
Stream Class:	C	Sub-Basin:	03-06-12
		HUC:	030300030503



North

Facility
Location
not to scale



NPDES Permit No. NC0026441
Chatham County

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PART I - MONITORING, CONTROLS, AND LIMITATIONS FOR PERMITTED DISCHARGES

A.(1.) EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

[15A NCAC 02B .0400 et seq., 02B .0500 et seq.] Grade IV Biological WPCS [15A NCAC 08G .0302]

- a. During the period beginning with the effective date and lasting until expiration, the Permittee is authorized to discharge treated wastewater through Outfall 001. Such discharges shall be limited and monitored by the Permittee as specified below:

PARAMETERS	EFFLUENT LIMITS			MONITORING REQUIREMENTS		
	Monthly Average	Weekly Average	Daily Maximum	Measurement Frequency	Sample Type	Sample Location
Flow	4.0 MGD			Continuous	Recording	Influent or Effluent
Total Monthly Flow (MG)	Monitor and Report			Monthly	Recording or Calculated	Influent or Effluent
BOD, 5 day, 20°C ¹ (April 1 thru October 31)	5.0 mg/L	7.5 mg/L		2/Week ²	Composite	Influent and Effluent
BOD, 5 day, 20°C ¹ (November 1 thru March 31)	10.0 mg/L	15.0 mg/L		2/Week ²	Composite	Influent and Effluent
Total Suspended Solids ¹	30.0 mg/L	45.0 mg/L		2/Week ²	Composite	Influent and Effluent
NH ₃ as N (April 1 thru October 31)	1.0 mg/L	3.0 mg/L		Daily	Composite	Effluent
NH ₃ as N (November 1 thru March 31)	2.0 mg/L	6.0 mg/L		Daily	Composite	Effluent
Fecal Coliform (geometric mean)	200/ 100 mL	400/ 100 mL		2/Week ²	Grab	Effluent
Total Residual Chlorine (TRC) ³			17 µg/L	Daily	Grab	Effluent
Temperature (°C)				Daily	Grab	Effluent
Dissolved Oxygen	Daily average ≥ 6.0 mg/L			Daily	Grab	Effluent
pH	≥ 6.0 and ≤ 9.0 standard units			Daily	Grab	Effluent
NO ₃ -N + NO ₂ -N (mg/L)				Weekly	Composite	Effluent
TKN (mg/L)				Weekly	Composite	Effluent
Total Nitrogen ⁴				Weekly	Calculated	Effluent
TN Load ^{5,6}	Monitor and Report (lb/mo) ⁵ 243,455 lb/yr (eff. 1/1/2020-12/31/2022) 73,058 lb/yr (eff. 1/1/2023)			Monthly Annually Annually	Calculated	Effluent
Total Phosphorus ⁶ (April 1 thru September 30)	0.5 mg/L (quarterly average)			Weekly	Composite	Effluent
Total Phosphorus ⁶ (October 1 through March 31)	2.0 mg/L (quarterly average)			Weekly	Composite	Effluent
Total Cadmium	2.1 µg/ L		15.5 µg/ L	Monthly ⁷	Composite	Effluent
Total Copper				Quarterly ⁷	Composite	Effluent
Total Zinc				Quarterly ⁷	Composite	Effluent
Chloride				Quarterly ⁷	Composite	Effluent
Chronic Toxicity ⁸	P/F at 90%			Quarterly	Composite	Effluent
Effluent Pollutant Scan ⁹	Monitor and Report			Footnote 9	Footnote 9	Effluent

Footnotes:

1. The monthly average effluent BOD₅ and Total Suspended Solids concentrations shall not exceed 15% of the respective influent value (i.e., 85% removal is required).
2. Sampling must occur on any two non-consecutive days during the calendar week (Sunday through Saturday).

(Footnotes continue on next page)

A.(1.) EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)Footnotes (continued):

3. TRC limits and monitoring requirements apply only if chlorine or chlorine derivatives are used for disinfection. The Permittee shall report all effluent TRC values reported by a NC-certified laboratory [including field-certified]. Effluent values below 50 µg/L will be treated as zero for compliance purposes.
4. Total Nitrogen (TN) is defined as NO₃-N + NO₂-N + TKN, where NO₃-N is nitrate nitrogen, NO₂-N is nitrite nitrogen, and TKN is total Kjeldahl nitrogen.
5. See Condition A.(10.), Calculation of Total Nitrogen Loads.
6. Compliance with the Total Phosphorus limits shall be based on a calendar-quarter average of weekly samples.
7. Sample Quarterly in conjunction with Chronic Toxicity Test.
8. Chronic Toxicity (*Ceriodaphnia dubia*) Pass/Fail at 90%; quarterly testing during March, June, September, December [see Condition A.(7.)].
9. The permittee shall perform three Effluent Pollutant Scans during the term of this permit [see Condition A.(8.)].

- b. Effluent shall contain no floating solids or foam visible in other than trace amounts.

A.(2.) INSTREAM MONITORING REQUIREMENTS

[15A NCAC 02B .0500 et seq.]

During the period beginning on the effective date of the permit and lasting until expiration, the Permittee shall conduct instream monitoring as specified below:

PARAMETER	SAMPLE TYPE	LOCATION ¹	MEASUREMENT FREQUENCY ²
Dissolved Oxygen	Grab	LCU, LCD, RRU, RRD	3/Week (June – September), 1/Week (October-May)
Temperature	Grab	LCU, LCD, RRU, RRD	3/Week (June – September), 1/Week (October-May)
Total Phosphorus	Grab	LCU, LCD, RRU, RRD	Monthly
TKN	Grab	LCU, LCD, RRU, RRD	Monthly
NO ₃ -N + NO ₂ -N	Grab	LCU, LCD, RRU, RRD	Monthly

Footnotes:

1. LCU - Loves Creek, upstream of the discharge; LCD - Loves Creek, downstream of the discharge and above the confluence with the Rocky River; RRU - Rocky River, upstream of the confluence with Loves Creek; RRD - Rocky River, downstream of the confluence with Loves Creek.
2. All monitoring is required to be performed at the above-mentioned monitoring locations. Instream Monitoring may be performed by the Upper Cape Fear River Basin Association as outlined in the Memorandum of Agreement (MOA) between the association and the permittee. If so, the data is to be collected and submitted to DWR in accordance to the terms of the MOA. Should membership in this association terminate for any reason, the permittee shall immediately notify the Division's NPDES Unit in writing and resume responsibility to monitor and report the above parameters as specified in this permit.

A.(3.) NUTRIENT REOPENER

[G.S. 143-215.1(b)]

In the event that Permittee proposes to accept future industrial process wastewater, in addition to that from Mountaire Farms Phase 2, and that wastewater is expected to contain concentrations of Total Nitrogen (TN) and/ or Total Phosphorus (TP) greater than typical domestic wastewater concentration (i.e. greater than 40.0 mg/L TN or greater than 5.0 mg/L TP), the Permittee shall notify the NPDES Complex Permitting Unit of the Division at 1617 Mail Service Center, Raleigh, NC 27699 and the Raleigh Regional Office at 3800 Barrett Drive, Raleigh, NC 27609 within 30 days of knowledge that the town is considering accepting new industrial process wastewater containing excess nutrients. The notification shall contain information regarding the proposed discharge flow, composition and treatability in the Siler City WWTP. Changes in effluent characteristics may require a permit modification, so notification should be at least 180 days prior to the start of the proposed discharge.

Based on information provided by the Town regarding a potential new industrial process wastewater with high nutrient concentration, and pursuant to N.C. General Statute Section 143-215.1 and the implementing rules found in Title 15A of the North Carolina Administrative Code, Subchapter 2H, specifically, 15A NCAC 2H.0112(b) (1) and 2H.0114(a), and Part II, Sections B-12 and B-13 of this permit, the Director of DWR may then reopen this permit to require supplemental nutrient limits for Total Nitrogen and/ or Total Phosphorus in accordance with the current Basin Plan for the Cape Fear River Basin.

A.(4.) NUTRIENT WATER QUALITY MODELING REOPENER

[G.S. 143-215.1(b)]

Pursuant to N.C. General Statutes Section 143-215.1 and the implementing rules found in the North Carolina Administrative Code at 15A NCAC 2H.0112 (b) (1) and 2H.0114 (a) and Part II sections B-12 and B-13 of this permit, the Director of DWR may reopen this permit to require supplemental nutrient monitoring of the discharge. The purpose of the additional monitoring will be to support water quality modeling efforts within the Cape Fear River Basin and shall be consistent with a monitoring plan developed jointly by the Division and affected stakeholders. In addition, the results of water quality modeling may require that limits for total nitrogen and total phosphorus be imposed or modified in this permit upon renewal.

A.(5.) MERCURY MINIMIZATION PLAN (MMP)

[G.S. 143-215.1(b)]

The permittee shall develop and implement a mercury minimization plan (MMP) during this permit term. The MMP shall be developed by December 1, 2014, and shall be available for inspection on-site. A sample MMP was developed through a stakeholder review process and has been placed on the Division website for guidance (<http://portal.ncdenr.org/web/wq/swp/ps/npdes>, under Model Mercury Minimization Plan). The MMP should place emphasis on identification of mercury contributors and goals for reduction. Results shall be summarized and submitted with the next permit renewal.

A.(6.) COMPLIANCE SCHEDULE FOR TOTAL CADMIUM LIMITS

[G.S. 143-215.1(b)]

The effluent limits for Total Cadmium shall become effective on December 1, 2015. Monitoring shall begin on the permit effective date. Effluent limits and monitoring may be deleted in the future upon written notification of the Division, if the Permittee provides updated effluent data that shows no reasonable potential to exceed applicable State water quality standards. Specifically, if 12 monthly data points for cadmium are all less than 2.0 µg/ L, then the Permittee may petition the Division for removal of Total Cadmium limits and monitoring from the permit.

A.(7.) CHRONIC TOXICITY PERMIT LIMIT (Quarterly)

[15A NCAC 02B .0500 et seq.]

The effluent discharge shall at no time exhibit observable inhibition of reproduction or significant mortality to at an effluent concentration of 90%.

The permit holder shall perform at a minimum, *quarterly* monitoring using test procedures outlined in the "North Carolina *Ceriodaphnia* Chronic Effluent Bioassay Procedure," Revised December 2010, or subsequent versions or "North Carolina Phase II Chronic Whole Effluent Toxicity Test Procedure" (Revised- December 2010) or subsequent versions. The tests will be performed **during the months of March, June, September and December**. These months signify the first month of each three month toxicity testing quarter assigned to the facility. Effluent sampling for this testing must be obtained during representative effluent discharge and shall be performed at the NPDES permitted final effluent discharge below all treatment processes.

If the test procedure performed as the first test of any single quarter results in a failure or ChV below the permit limit, then multiple-concentration testing shall be performed at a minimum, in each of the two following months as described in "North Carolina Phase II Chronic Whole Effluent Toxicity Test Procedure" (Revised-December 2010) or subsequent versions.

All toxicity testing results required as part of this permit condition will be entered on the Effluent Discharge Monitoring Form (MR-1) for the months in which tests were performed, using the parameter code **TGP3B** for the pass/fail results and **THP3B** for the Chronic Value. Additionally, DWQ Form AT-3 (original) is to be sent to the following address:

Attention: North Carolina Division of Water Resources
Environmental Sciences Section
1621 Mail Service Center
Raleigh, North Carolina 27699-1621

Completed Aquatic Toxicity Test Forms shall be filed with the Environmental Sciences Section no later than 30 days after the end of the reporting period for which the report is made.

Test data shall be complete, accurate, include all supporting chemical/physical measurements and all concentration/response data, and be certified by laboratory supervisor and ORC or approved designate signature. Total residual chlorine of the effluent toxicity sample must be measured and reported if chlorine is employed for disinfection of the waste stream.

Should there be no discharge of flow from the facility during a month in which toxicity monitoring is required, the permittee will complete the information located at the top of the aquatic toxicity (AT) test form indicating the facility name, permit number, pipe number, county, and the month/year of the report with the notation of "No Flow" in the comment area of the form. The report shall be submitted to the Environmental Sciences Section at the address cited above.

Should the permittee fail to monitor during a month in which toxicity monitoring is required, monitoring will be required during the following month. Assessment of toxicity compliance is based on the toxicity testing quarter, which is the three month time interval that begins on the first day of the month in which toxicity testing is required by this permit and continues until the final day of the third month.

Should any test data from this monitoring requirement or tests performed by the North Carolina Division of Water Resources indicate potential impacts to the receiving stream, this permit may be re-opened and modified to include alternate monitoring requirements or limits.

If the Permittee monitors any pollutant more frequently than required by this permit, the results of such monitoring shall be included in the calculation & reporting of the data submitted on the DMR & all AT Form submitted.

NOTE: Failure to achieve test conditions as specified in the cited document, such as minimum control organism survival, minimum control organism reproduction, and appropriate environmental controls, shall constitute an invalid test and will require immediate follow-up testing to be completed no later than the last day of the month following the month of the initial monitoring.

A.(8.) EFFLUENT POLLUTANT SCAN

[G.S. 143-215.1(b)]

- a. The Permittee shall perform a total of three (3) Effluent Pollutant Scans for all parameters listed below. One scan must be performed in each of the following years: **2016, 2017, and 2018**. Analytical methods shall be in accordance with 40 CFR Part 136 and shall be sufficiently sensitive to determine whether parameters are present in concentrations greater than applicable standards and criteria. Samples should be collected with one quarterly toxicity test each year, and must represent seasonal variation [i.e., do not sample in the same quarter every year]. Unless otherwise indicated, metals shall be analyzed as “total recoverable.”

Ammonia (as N)	Trans-1,2-dichloroethylene	Bis (2-chloroethyl) ether
Chlorine (total residual, TRC)	1,1-dichloroethylene	Bis (2-chloroisopropyl) ether
Dissolved oxygen	1,2-dichloropropane	Bis (2-ethylhexyl) phthalate
Nitrate/Nitrite	1,3-dichloropropylene	4-bromophenyl phenyl ether
Kjeldahl nitrogen	Ethylbenzene	Butyl benzyl phthalate
Oil and grease	Methyl bromide	2-chloronaphthalene
Phosphorus	Methyl chloride	4-chlorophenyl phenyl ether
Total dissolved solids	Methylene chloride	Chrysene
Hardness	1,1,2,2-tetrachloroethane	Di-n-butyl phthalate
Antimony	Tetrachloroethylene	Di-n-octyl phthalate
Arsenic	Toluene	Dibenzo(a,h)anthracene
Beryllium	1,1,1-trichloroethane	1,2-dichlorobenzene
Cadmium	1,1,2-trichloroethane	1,3-dichlorobenzene
Chromium	Trichloroethylene	1,4-dichlorobenzene
Copper	Vinyl chloride	3,3-dichlorobenzidine
Lead	<u>Acid-extractable compounds:</u>	Diethyl phthalate
Mercury (EPA Method 1631E)	P-chloro-m-cresol	Dimethyl phthalate
Nickel	2-chlorophenol	2,4-dinitrotoluene
Selenium	2,4-dichlorophenol	2,6-dinitrotoluene
Silver	2,4-dimethylphenol	1,2-diphenylhydrazine
Thallium	4,6-dinitro-o-cresol	Fluoranthene
Zinc	2,4-dinitrophenol	Fluorene
Cyanide	2-nitrophenol	Hexachlorobenzene
Total phenolic compounds	4-nitrophenol	Hexachlorobutadiene
<u>Volatile organic compounds:</u>	Pentachlorophenol	Hexachlorocyclo-pentadiene
Acrolein	Phenol	Hexachloroethane
Acrylonitrile	2,4,6-trichlorophenol	Indeno(1,2,3-cd)pyrene
Benzene	<u>Base-neutral compounds:</u>	Isophorone
Bromoform	Acenaphthene	Naphthalene
Carbon tetrachloride	Acenaphthylene	Nitrobenzene
Chlorobenzene	Anthracene	N-nitrosodi-n-propylamine
Chlorodibromomethane	Benzidine	N-nitrosodimethylamine
Chloroethane	Benzo(a)anthracene	N-nitrosodiphenylamine
2-chloroethylvinyl ether	Benzo(a)pyrene	Phenanthrene
Chloroform	3,4 benzofluoranthene	Pyrene
Dichlorobromomethane	Benzo(ghi)perylene	1,2,4-trichlorobenzene
1,1-dichloroethane	Benzo(k)fluoranthene	
1,2-dichloroethane	Bis (2-chloroethoxy) methane	

- b. **Reporting.** Test results shall be reported on DWR Form-A MR-PPA1 (or in a form approved by the Director) by December 31st of each designated sampling year. The report shall be submitted to the Division at the following address:

North Carolina Division of Water Resources
 Central Files
 1617 Mail Service Center
 Raleigh, North Carolina 27699-1617

- c. **Additional Toxicity Testing Requirements for Municipal Permit Renewal.** Please note that Municipal facilities that are subject to the Effluent Pollutant Scan requirements listed above are also subject to additional toxicity testing requirements specified in Federal Regulation 40 CFR 122.21(j)(5). The US EPA requires four (4) toxicity tests for a test organism other than the test species currently required in this permit. The multiple species tests should be conducted either quarterly for a 12-month period prior to submittal of the permit renewal application, or four tests performed at least annually in the four and one half year period prior to the application. These tests shall be performed for acute or chronic toxicity, whichever is specified in this permit. The multiple species toxicity test results shall be filed with the Aquatic Toxicology Branch at the following address:
- North Carolina Division of Water Resources
 Water Sciences Section/ Aquatic Toxicology Branch
 1621 Mail Service Center
 Raleigh, North Carolina 27699-1621
- d. Contact the Division's Aquatic Toxicology Branch at 919-743-8401 for guidance on conducting the additional toxicity tests and reporting requirements. Results should also be summarized in Part E (Toxicity Testing Data) of EPA Municipal Application Form 2A, when submitting the permit renewal application to the NPDES Permitting Unit.

A.(9.) ELECTRONIC REPORTING OF DISCHARGE MONITORING REPORTS

[G.S. 143-215.1(b)]

Federal regulations require electronic submittal of all discharge monitoring reports (DMRs) and program reports. The final NPDES Electronic Reporting Rule was adopted and became effective on December 21, 2015.

NOTE: This special condition supplements or supersedes the following sections within Part II of this permit (*Standard Conditions for NPDES Permits*):

- Section B. (11.) Signatory Requirements
- Section D. (2.) Reporting
- Section D. (6.) Records Retention
- Section E. (5.) Monitoring Reports

1. Reporting Requirements [Supersedes Part II, Section D. (2.) and Section E. (5.)(a)]

The permittee shall report discharge monitoring data electronically using the NC DWR's Electronic Discharge Monitoring Report (eDMR) internet application.

Monitoring results obtained during the previous month(s) shall be summarized for each month and submitted electronically using eDMR. The eDMR system allows permitted facilities to enter monitoring data and submit DMRs electronically using the internet. Until such time that the state's eDMR application is compliant with EPA's Cross-Media Electronic Reporting Regulation (CROMERR), permittees will be required to submit all discharge monitoring data to the state electronically using eDMR and will be required to complete the eDMR submission by printing, signing, and submitting one signed original and a copy of the computer printed eDMR to the following address:

NC DEQ / Division of Water Resources / Water Quality Permitting Section
 ATTENTION: Central Files
 1617 Mail Service Center
 Raleigh, North Carolina 27699-1617

A.(9.) ELECTRONIC REPORTING OF DISCHARGE MONITORING REPORTS (cont.)

If a permittee is unable to use the eDMR system due to a demonstrated hardship or due to the facility being physically located in an area where less than 10 percent of the households have broadband access, then a temporary waiver from the NPDES electronic reporting requirements may be granted and discharge monitoring data may be submitted on paper DMR forms (MR 1, 1.1, 2, 3) or alternative forms approved by the Director. Duplicate signed copies shall be submitted to the mailing address above. See “How to Request a Waiver from Electronic Reporting” section below.

Regardless of the submission method, the first DMR is due on the last day of the month following the issuance of the permit or in the case of a new facility, on the last day of the month following the commencement of discharge.

Starting on **December 21, 2020**, the permittee must electronically report the following compliance monitoring data and reports, when applicable:

- Sewer Overflow/Bypass Event Reports;
- Pretreatment Program Annual Reports; and
- Clean Water Act (CWA) Section 316(b) Annual Reports.

The permittee may seek an electronic reporting waiver from the Division (see “How to Request a Waiver from Electronic Reporting” section below).

2. Electronic Submissions

In accordance with 40 CFR 122.41(l)(9), the permittee must identify the initial recipient at the time of each electronic submission. The permittee should use the EPA’s website resources to identify the initial recipient for the electronic submission.

Initial recipient of electronic NPDES information from NPDES-regulated facilities means the entity (EPA or the state authorized by EPA to implement the NPDES program) that is the designated entity for receiving electronic NPDES data [see 40 CFR 127.2(b)].

EPA plans to establish a website that will also link to the appropriate electronic reporting tool for each type of electronic submission and for each state. Instructions on how to access and use the appropriate electronic reporting tool will be available as well. Information on EPA’s NPDES Electronic Reporting Rule is found at: <https://www.federalregister.gov/documents/2015/10/22/2015-24954/national-pollutant-discharge-elimination-system-npdes-electronic-reporting-rule>

Electronic submissions must start by the dates listed in the “Reporting Requirements” section above.

3. How to Request a Waiver from Electronic Reporting

The permittee may seek a temporary electronic reporting waiver from the Division. To obtain an electronic reporting waiver, a permittee must first submit an electronic reporting waiver request to the Division. Requests for temporary electronic reporting waivers must be submitted in writing to the Division for written approval at least sixty (60) days prior to the date the facility would be required under this permit to begin submitting monitoring data and reports. The duration of a temporary waiver shall not exceed 5 years and shall thereupon expire. At such time, monitoring data and reports shall be submitted electronically to the Division unless the permittee re-applies for and is granted a new temporary electronic reporting waiver by the Division. Approved electronic reporting waivers are not transferrable. Only permittees with an approved reporting waiver request may submit monitoring data and reports on paper to the Division for the period that the approved reporting waiver request is effective.

Information on eDMR and the application for a temporary electronic reporting waiver are found on the following web page: <http://deq.nc.gov/about/divisions/water-resources/edmr>

A.(9.) ELECTRONIC REPORTING OF DISCHARGE MONITORING REPORTS (cont.)**4. Signatory Requirements [Supplements Part II, Section B. (11.)(b) and Supersedes Section B. (11.)(d)]**

All eDMRs submitted to the permit issuing authority shall be signed by a person described in Part II, Section B. (11.)(a) or by a duly authorized representative of that person as described in Part II, Section B. (11.)(b). A person, and not a position, must be delegated signatory authority for eDMR reporting purposes.

For eDMR submissions, the person signing and submitting the DMR must obtain an eDMR user account and login credentials to access the eDMR system. For more information on North Carolina's eDMR system, registering for eDMR and obtaining an eDMR user account, please visit the following web page: <http://deq.nc.gov/about/divisions/water-resources/edmr>

Certification. Any person submitting an electronic DMR using the state's eDMR system shall make the following certification [40 CFR 122.22]. NO OTHER STATEMENTS OF CERTIFICATION WILL BE ACCEPTED:

"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 fines and imprisonment for knowing violations."

5. Records Retention [Supplements Part II, Section D. (6.)]

The permittee shall retain records of all Discharge Monitoring Reports, including eDMR submissions. These records or copies shall be maintained for a period of at least 3 years from the date of the report. This period may be extended by request of the Director at any time [40 CFR 122.41].

A.(10.) CALCULATION OF TOTAL NITROGEN LOADS

a. The Permittee shall calculate monthly and annual TN Loads as follows:

i. Monthly TN Load (lb/mo) = TN x TMF x 8.34

where: TN = the average Total Nitrogen concentration (mg/L) of the composite samples collected during the month

TMF = the Total Monthly Flow of wastewater discharged during the month (MG/mo)

8.34 = conversion factor, from (mg/L x MG) to pounds

ii. Annual TN Load (lb/yr) = Sum of the 12 Monthly TN Loads for the calendar year

b. The Permittee shall report monthly Total Nitrogen results (mg/L and lb/mo) in the appropriate discharge monitoring report for each month and shall report each year's results (lb/yr) with the December report for that year.