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Affirmative Action/Equal Opportunity Employer

MUNICIPAL NPDES PERMIT

issued to

Permittee:

Town of Seymour Town Hall, 1 First Street Seymour, Connecticut 06483

Facility ID: 124-001

Permit ID: CT0100501

Location Address:

Seymour WPCF 723 Derby Avenue Extension Seymour, Connecticut 06483

Permit Expires: September 3, 2020

Design Flow Rate: 2.93 MGD

Receiving Stream: Naugatuck River

SECTION 1: GENERAL PROVISIONS

- (A) This permit is reissued in accordance with Section 22a-430 of Chapter 446k, Connecticut General Statutes ("CGS"), and Regulations of Connecticut State Agencies ("RCSA") adopted thereunder, as amended, and Section 402(b) of the Clean Water Act, as amended, 33 USC 1251, et.

 Seq., and pursuant to an approval dated September 26, 1973, by the Administrator of the United States Environmental Protection Agency for the State of Connecticut to administer a N.P.D.E.S. permit program.
- (B) The Town of Seymour, ("permittee"), shall comply with all conditions of this permit including the following sections of the RCSA which have been adopted pursuant to Section 22a-430 of the CGS and are hereby incorporated into this permit. Your attention is especially drawn to the notification requirements of subsection (i)(2), (i)(3), (j)(1), (j)(6), (j)(8), (j)(9)(C), (j)(10)(C), (j)(11)(C), (D), (E), and (F), (k)(3) and (4) and (1)(2) of Section 22a-430-3. To the extent this permit imposes conditions more stringent than those found in the regulations, this permit shall apply.

Section 22a-430-3 General Conditions

- (a) Definitions
- (b) General
- (c) Inspection and Entry
- (d) Effect of a Permit
- (e) Duty to Comply
- (f) Proper Operation and Maintenance
- (g) Sludge Disposal
- (h) Duty to Mitigate
- (i) Facility Modifications; Notification
- (j) Monitoring, Records and Reporting Requirements
- (k) Bypass
- (I) Conditions Applicable to POTWs
- (m) Effluent Limitation Violations
- (n) Enforcement
- (o) Resource Conservation
- (p) Spill Prevention and Control
- (q) Instrumentation, Alarms, Flow Recorders
- (r) Equalization

Section 22a-430-4 Procedures and Criteria

(a) Duty to Apply

- (b) Duty to Reapply
- (c) Application Requirements
- (d) Preliminary Review
- (e) Tentative Determination
- (f) Draft Permits, Fact Sheets
- (g) Public Notice, Notice of Hearing
- (h) Public Comments
- (i) Final Determination
- (j) Public Hearings
- (k) Submission of Plans and Specifications. Approval.
- (I) Establishing Effluent Limitations and Conditions
- (m) Case-by-Case Determinations
- (n) Permit Issuance or Renewal
- (o) Permit or Application Transfer
- (p) Permit Revocation, Denial or Modification
- (q) Variances
- (r) Secondary Treatment Requirements
- (s) Treatment Requirements
- (t) Discharges to POTWs Prohibitions
- (C) Violations of any of the terms, conditions, or limitations contained in this permit may subject the permittee to enforcement action including, but not limited to, seeking penalties, injunctions and/or forfeitures pursuant to applicable sections of the CGS and RCSA.
- (D) Any false statement in any information submitted pursuant to this Section of the permit may be punishable as a criminal offense under Section 22a-438 or 22a-131a of the CGS or in accordance with Section 22a-6, under Section 53a-157b of the CGS.
- (E) The permittee shall comply with Section 22a-416-1 through Section 22a-416-10 of the RCSA concerning operator certification.
- (F) No provision of this permit and no action or inaction by the Commissioner shall be construed to constitute an assurance by the Commissioner that the actions taken by the permittee pursuant to this permit will result in compliance or prevent or abate pollution.
- (G) Nothing in this permit shall relieve the permittee of other obligations under applicable federal, state and local law.
- (H) An annual fee shall be paid for each year this permit is in effect as set forth in Section 22a-430-7 of the RCSA. As of October 1, 2009 the annual fee is \$ 2,367.50.

SECTION 2: DEFINITIONS

- (A) The definitions of the terms used in this permit shall be the same as the definitions contained in Section 22a-423 of the CGS and Section 22a-430-3(a) and 22a-430-6 of the RCSA, except for "Composite" and "No Observable Acute Effect Level (NOAEL)" which are redefined below.
- (B) In addition to the above, the following definitions shall apply to this permit:
 - "----" in the limits column on the monitoring tables in Attachment 1 means a limit is not specified but a value must be reported on the DMR, MOR, and/or the ATMR.
 - "Annual" in the context of any sampling frequency, shall mean the sample must be collected in the month of July, August or September.
 - "Average Monthly Limit" means the maximum allowable "Average Monthly Concentration" as defined in Section 22a-430-3(a) of the RCSA when expressed as a concentration (e.g. mg/l); otherwise, it means "Average Monthly Discharge Limitation" as defined in Section 22a-430-3(a) of the RCSA.
 - "Bi-Weekly" in the context of any sampling frequency, shall mean once every two weeks.
 - "Composite" or "(C)" means a sample consisting of a minimum of eight aliquot samples collected at equal intervals of no less than 30 minutes and no more than 60 minutes and combined proportionally to flow over the sampling period provided that during the sampling period the peak hourly flow is experienced.

- "Critical Test Concentration" or "(CTC)" means the specified effluent dilution at which the permittee is to conduct a single-concentration Aquatic Toxicity Test.
- "Daily Composite" or "(DC)" means a composite sample taken over a full operating day consisting of grab samples collected at equal intervals of no more than sixty (60) minutes and combined proportionally to flow; or, a composite sample continuously collected over a full operating day proportionally to flow.
- "Daily Concentration" means the concentration of a substance as measured in a daily composite sample, or, arithmetic average of all grab sample results defining a grab sample average.
- "Daily Quantity" means the quantity of waste discharged during an operating day.
- "Geometric Mean" is the "n"th root of the product of "n" observations.
- "Infiltration" means water other than wastewater that enters a sewer system (including sewer system and foundation drains) from the ground through such means as defective pipes, pipe joints, connections, or manholes. Infiltration does not include, and is distinguished from, inflow.
- "Inflow" means water other than wastewater that enters a sewer system (including sewer service connections) from sources such as, but not limited to, roof leaders, cellar drains, yard drains, area drains, drains from springs and swampy areas, cross connections between storm sewers and sanitary sewers, catch basins, cooling towers, storm waters, surface runoff, street wash waters, or drainage. Inflow does not include, and is distinguished from, infiltration.
- "Instantaneous Limit" means the highest allowable concentration of a substance as measured by a grab sample, or the highest allowable measurement of a parameter as obtained through instantaneous monitoring.
- "In-stream Waste Concentration" or "(IWC)" means the concentration of a discharge in the receiving water after mixing has occurred in the allocated zone of influence.
- "MGD" means million gallons per day.
- "Maximum Daily Limit" means the maximum allowable "Daily Concentration" (defined above) when expressed as a concentration (e.g. mg/l), otherwise, it means the maximum allowable "Daily Quantity" as defined above, unless it is expressed as a flow quantity. If expressed as a flow quantity it means "Maximum Daily Flow" as defined in Section 22a-430-3(a) of the RCSA.
- "Monthly Minimum Removal Efficiency" means the minimum reduction in the pollutant parameter specified when the effluent average monthly concentration for that parameter is compared to the influent average monthly concentration.
- "NA" as a Monitoring Table abbreviation means "not applicable".
- "NR" as a Monitoring Table abbreviation means "not required".
- "No Observable Acute Effect Level" or "(NOAEL)" means any concentration equal to or less than the critical test concentration in a single concentration (pass/fail) toxicity test, conducted pursuant to Section 22a-430-3(j)(7)(A)(i) of the RCSA, demonstrating greater than 50% survival of test organisms in 100% (undiluted) effluent and 90% or greater survival of test organisms at the CTC.
- "Quarterly" in the context of any sampling frequency, shall mean sampling is required in the months of January, April, July, and October.
- "Range During Sampling" or "(RDS)" as a sample type means the maximum and minimum of all values recorded as a result of analyzing each grab sample of; 1) a Composite Sample, or, 2) a Grab Sample Average. For those permittees with pH meters that provide continuous monitoring and recording, Range During Sampling means the maximum and minimum readings recorded with the continuous monitoring device during the Composite or Grab Sample Average sample collection.
- "Range During Month" or "(RDM)" as a sample type means the lowest and the highest values of all of the monitoring data for the reporting month.
- "Sanitary Sewage" means wastewaters from residential, commercial and industrial sources introduced by direct connection to the sewerage collection system tributary to the treatment works including non-excessive inflow/infiltration sources.

- "Twice per Month" in the context of any sampling frequency, mean two samples per calendar month collected no less than 12 days apart.
- "ug/l" means micrograms per liter
- "Work Day" in the context of a sampling frequency means, Monday through Friday excluding holidays.

SECTION 3: COMMISSIONER'S DECISION

- (A) The Commissioner of Energy and Environmental Protection ("Commissioner") has issued a final decision and found modification of the existing system or installation of a new system would protect the waters of the state from pollution. The Commissioner's decision is based on application #200903281 for permit reissuance received on September 10, 2009 and the administrative record established in the processing of that application.
- (B) The Commissioner hereby authorizes the Permittee to discharge in accordance with the provisions of this permit, the above referenced application, and all approvals issued by the Commissioner or his authorized agent for the discharges and/or activities authorized by, or associated with, this permit.
- (C) The Commissioner reserves the right to make appropriate revisions to the permit, if required after Public Notice, in order to establish any appropriate effluent limitations, schedules of compliance, or other provisions which may be authorized under the Federal Clean Water Act or the CGS or regulations adopted thereunder, as amended. The permit as modified or renewed under this paragraph may also contain any other requirements of the Federal Clean Water Act or CGS or regulations adopted thereunder which are then applicable.

SECTION 4: GENERAL LIMITATIONS AND OTHER CONDITIONS

- (A) The Permittee shall not accept any new sources of non-domestic wastewater conveyed to its POTW through its sanitary sewerage system or by any means other than its sanitary sewage system unless the generator of such wastewater; (a) is authorized by a permit issued by the Commissioner under Section 22a-430 CGS (individual permit), or, (b) is authorized under Section 22a-430b (general permit), or, (c) has been issued an emergency or temporary authorization by the Commissioner under Section 22a-6k. All such non-domestic wastewaters shall be processed by the POTW via receiving facilities at a location and in a manner prescribed by the permittee which are designed to contain and control any unplanned releases.
- (B) No new discharge of domestic sewage from a single source to the POTW in excess of 50,000 gallons per day shall be allowed by the permittee until the permittee has notified in writing the Municipal Facilities Section of said new discharge. New discharge notifications as described in this section shall be submitted to the staff identified in section 9(H) included herein.
- (C) The permittee shall maintain a system of user charges based sufficient to operate and maintain the POTW (including the collection system) and replace critical components.
- (D) The permittee shall maintain a sewer use ordinance that is consistent with the Model Sewer Ordinance for Connecticut Municipalities prepared by the Department of Energy and Environmental Protection. The Commissioner of Energy and Environmental Protection alone may authorize certain discharges which may not conform to the Model Sewer Ordinance.
- (E) No discharge shall contain or cause in the receiving stream a visible oil sheen, floating solids, visible discoloration, or foaming.
- (F) No discharge shall cause acute or chronic toxicity in the receiving water body beyond any Zone Of Influence (ZOI) specifically allocated to that discharge in this permit.
- (G) The permittee shall maintain an alternate power source adequate to provide full operation of all pump stations in the sewerage collection system and to provide a minimum of primary treatment and disinfection at the water pollution control facility to insure that no discharge of untreated wastewater will occur during a failure of a primary power source.
- (H) The average monthly effluent concentration shall not exceed 15% of the average monthly influent concentration for BODs and Total Suspended Solids for all daily composite samples taken in any calendar month.
- (I) Any new or increased amount of sanitary sewage discharge to the sewer system is prohibited where it will cause a dry weather overflow or exacerbate an existing dry weather overflow.
- (J) Sludge Conditions

- (1) The permittee shall comply with all existing federal and state laws and regulations that apply to sewage sludge use and disposal practices, including but not limited to 40 CFR Part 503.
- (2) If an applicable management practice or numerical limitation for pollutants in sewage sludge more stringent than existing federal and state regulations is promulgated under Section 405(d) of the Clean Water Act (CWA), this permit shall be modified or revoked and reissued to conform to the promulgated regulations.
- (3) The permittee shall give prior notice to the Commissioner of any change(s) planned in the permittees' sludge use or disposal practice. A change in the permittees' sludge use or disposal practice may be a cause for modification of the permit.
- (4) Testing for inorganic pollutants shall follow "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA Publication SW-846 as updated and/or revised.
- (K) This permit becomes effective on the 1st day of the month following the date of signature.
- (L) When the arithmetic mean of the average daily flow from the POTW for the previous 180 days exceeds 90% of the design flow rate, the permittee shall develop and submit within one year, for the review and approval of the Commissioner, a plan to accommodate future increases in flow to the plant. This plan shall include a schedule for completing any recommended improvements and a plan for financing the improvements.
- (M) When the arithmetic mean of the average daily BODs or TSS loading into the POTW for the previous 180 days exceeds 90% of the design load rate, the permittee shall develop and submit for the review of the Commissioner within one year, a plan to accommodate future increases in load to the plant. This plan shall include a schedule for completing any recommended improvements and a plan for financing the improvements.
- (N) On or before July 31st of each calendar year the main flow meter shall be calibrated by an independent contractor in accordance with the manufacturer's specifications. The actual record of the calibration shall be retained onsite and, upon request, the permittee shall submit to the Commissioner a copy of that record.
- (O) The permittee shall operate and maintain all processes as installed in accordance with the approved plans and specifications and as outlined in the associated operation and maintenance manual. This includes but is not limited to all preliminary treatment processes, primary treatment processes, recycle pumping processes, anaerobic treatment processes, anoxic treatment processes, aerobic treatment processes, flocculation processes, effluent filtration processes or any other processes necessary for the optimal removal of pollutants. The permittee shall not bypass or fail to operate any of the aforementioned processes without the written approval of the Commissioner.
- (P) The permittee is hereby authorized to accept septage at the treatment facility, or other locations as approved by the Commissioner.
- (Q) The temperature of any discharge shall not increase the temperature of the receiving stream above 85°F, or, in any case, raise the normal temperature of the receiving stream more than 4°F.

SECTION 5: SPECIFIC EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

- (A) The discharge(s) shall not exceed and shall otherwise conform to the specific terms and conditions listed in this permit. The discharge is restricted by, and shall be monitored in accordance with Tables A through H incorporated in this permit as Attachment 1.
- (B) The Permittee shall monitor the performance of the treatment process in accordance with the Monthly Operating Report (MOR) incorporated in this permit as Attachment 2.

SECTION 6: SAMPLE COLLECTION, HANDLING and ANALYTICAL TECHNIQUES

- (A) Chemical Analysis
 - (1) Chemical analyses to determine compliance with effluent limits and conditions established in this permit shall be performed using the methods approved pursuant to the Code of Federal Regulations, Part 136 of Title 40 (40 CFR 136) unless an alternative method has been approved in writing pursuant to 40 CFR 136.4 or as provided in Section 22a-430-3-(j)(7) of the RCSA. Chemicals which do not have methods of analysis defined in 40 CFR 136 or the RCSA shall be analyzed in accordance with methods specified in this permit.
 - (2) All metals analyses identified in this permit shall refer to analyses for Total Recoverable Metal, as defined in 40 CFR 136 unless

- otherwise specified.
- (3) Grab samples shall be taken during the period of the day when the peak hourly flow is normally experienced.
- (4) Samples collected for bacteriological examination shall be collected between the hours of 11 a.m. and 3 p.m. or at that time of day when the peak hourly flow is normally experienced. A chlorine residual sample must be taken at the same time and the results recorded.
- (5) The Minimum Levels specified below represent the concentrations at which quantification must be achieved and verified during the chemical analyses for the parameters identified in Attachment 1, Tables A and C. Analyses for these parameters must include check standards within ten percent of the specified Minimum Level or calibration points equal to or less than the specified Minimum Level.

<u>Parameter</u>	Minimum Level
Aluminum	0.050 mg/l
Antimony, Total	0.010 mg/l
Arsenic, Total	0.005 mg/l
Beryllium, Total	0.001 mg/l
Cadmium, Total	0.0005 mg/l
Chlorine, Total Residual	0.050 mg/l
Chromium, Total	0.005 mg/l
Chromium, Total Hexavalent	0.010 mg/l
Copper, Total	0.005 mg/l
Cyanide, Total	0.010 mg/l
Iron, Total	0.040 mg/l
Lead, Total	0.005 mg/l
Mercury, Total	0.0002 mg/l
Nickel, Total	0.005 mg/l
Phosphorus, Total	0.10 mg/l
Selenium, Total	0.005 mg/l
Silver, Total	0.002 mg/l
Thallium, Total	0.005 mg/l
Zinc, Total	0.020 mg/l

- (6) The value of each parameter for which monitoring is required under this permit shall be reported to the maximum level of accuracy and precision possible consistent with the requirements of this Section of the permit.
- (7) Effluent analyses for which quantification was verified during the analysis at or below the minimum levels specified in this Section and which indicate that a parameter was not detected shall be reported as "less than x" where 'x' is the numerical value equivalent to the analytical method detection limit for that analysis.
- (8) Results of effluent analyses which indicate that a parameter was not present at a concentration greater than or equal to the Minimum Level specified for that analysis shall be considered equivalent to zero (0.0) for purposes of determining compliance with effluent limitations or conditions specified in this permit.
- (B) Acute Aquatic Toxicity Test
 - (1) Samples for monitoring of Acute Aquatic Toxicity shall be collected and handled as prescribed in "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms" (EPA-821-R-02-012).
 - (a) Composite samples shall be chilled as they are collected. Grab samples shall be chilled immediately following collection. Samples shall be held at 0 6°C until Acute Aquatic Toxicity testing is initiated.
 - (b) Effluent samples shall not be dechlorinated, filtered, or, modified in any way, prior to testing for Acute Aquatic Toxicity unless specifically approved in writing by the Commissioner for monitoring at this facility. Facilities with effluent dechlorination and/or filtration designed as part of the treatment process are not required to obtain approval from the Commissioner.
 - (c) Samples shall be taken after dechlorination for Acute Aquatic Toxicity unless otherwise approved in writing by the Commissioner for monitoring at this facility.
 - (d) Chemical analyses of the parameters identified in Attachment 1, Table C shall be conducted on an aliquot of the same sample

tested for Acute Aquatic Toxicity.

- (i) At a minimum, pH, specific conductance, total alkalinity, total hardness, and total residual chlorine shall be measured in the effluent sample and, during Acute Aquatic Toxicity tests, in the highest concentration of the test and in the dilution (control) water at the beginning of the test and at test termination. If total residual chlorine is not detected at test initiation, it does not need to be measured at test termination. Dissolved oxygen, pH, and temperature shall be measured in the control and all test concentrations at the beginning of the test, daily thereafter, and at test termination.
- (e) Tests for Acute Aquatic Toxicity shall be initiated within 36 hours of sample collection.
- (2) Monitoring for Acute Aquatic Toxicity to determine compliance with the permit condition on Acute Aquatic Toxicity (invertebrate) shall be conducted for 48 hours utilizing neonatal (less than 24 hours old) *Daphnia pulex*.
- (3) Monitoring for Acute Aquatic Toxicity to determine compliance with the permit condition on Acute Aquatic Toxicity (vertebrate) shall be conducted for 48 hours utilizing larval (1 to 14-day old with no more than 24 hours range in age) Pimephales promelas.
- (4) Tests for Acute Aquatic Toxicity shall be conducted as prescribed for static non-renewal acute tests in "Methods for measuring the Acute Aquatic Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms" (EPA/821-R-02-012), except as specified below.
 - (a) For Acute Aquatic Toxicity limits, and for monitoring only conditions, expressed as a NOAEL value, Pass/Fail (single concentration) tests shall be conducted at a specified Critical Test Concentration (CTC) equal to the Aquatic Toxicity limit, (100% in the case of monitoring only conditions), as prescribed in Section 22a-430-3(j)(7)(A)(i) of the RCSA.
 - (b) Organisms shall not be fed during the tests.
 - (c) Synthetic freshwater prepared with deionized water adjusted to a hardness of 50±5 mg/L as CaCO₃ shall be used as dilution water in the tests.
 - (d) Copper nitrate shall be used as the reference toxicant.
- (5) For monitoring only conditions, toxicity shall be demonstrated when the results of a valid pass/fail Acute Aquatic Toxicity indicates less than 90% survival in the effluent at the CTC (100%).
- (C) Chronic Aquatic Toxicity Test for Freshwater Discharges
 - (1) Chronic Aquatic Toxicity testing of the discharge shall be conducted annually during July, August, or September of each year.
 - (2) Chronic Aquatic Toxicity testing shall be performed on the discharge in accordance with the test methodology established in "Short-Term Methods for Estimating The Chronic Toxicity of Effluents and Receiving Water to Freshwater Organisms" (EPA-821-R-02-013) as referenced in 40 CFR 136 for *Ceriodaphnia* survival and reproduction and Fathead minnow larval survival and growth.
 - (a) Chronic Aquatic Toxicity tests shall utilize a minimum of five effluent dilutions prepared using a dilution factor of 0.5 (100% effluent, 50% effluent, 25% effluent, 6.25% effluent).
 - (b) Naugatuck River water collected immediately upstream of the area influenced by the discharge shall be used as control (0% effluent) and dilution water in the toxicity tests.
 - (c) A laboratory water control consisting of synthetic freshwater prepared in accordance with EPA-821-R-02-013 at a hardness of 50±5 mg/l shall be used as an additional control (0% effluent) in the toxicity tests.
 - (d) Daily composite samples of the discharge (final effluent following disinfection) and grab samples of the Naugatuck, for use as site water control and dilution water, shall be collected on day 0 for test solution renewal on day 1 and day 2 of the test; day 2, for test solution renewal on day 3 and day 4 of the test; and day 4, for test solution renewal for the remainder of the test. Samples shall not be pH or hardness adjusted, or chemically altered in any way.
 - (3) All samples of the discharge and Naugatuck water used in the Chronic Aquatic Toxicity test shall, at a minimum, be analyzed and results reported in accordance with the provisions listed in Section 6(A) of this permit for the parameters listed in Attachment 1, Table

C included herein, excluding Acute Aquatic Toxicity organism testing.

SECTION 7: RECORDING AND REPORTING REQUIREMENTS

(A) The results of chemical analyses and any aquatic toxicity test required above in Section 5 and the referenced Attachment 1 shall be entered on the Discharge Monitoring Report (DMR) and reported to the Bureau of Water Protection and Land Reuse. The report shall also include a detailed explanation of any violations of the limitations specified. The DMR must be received at the following address by the 15th day of the month following the month in which samples are collected.

ATTN: Municipal Wastewater Monitoring Coordinator Connecticut Department of Energy and Environmental Protection Bureau of Water Protection and Land Reuse, Planning and Standards Division 79 Elm Street Hartford, Connecticut 06106-5127

- (1) For composite samples, from other than automatic samplers, the instantaneous flow and the time of each aliquot sample collection shall be recorded and maintained at the POTW.
- (B) Complete and accurate test data, including percent survival of test organisms in each replicate test chamber, LC₅₀ values and 95% confidence intervals for definitive test protocols, and all supporting chemical/physical measurements performed in association with any aquatic toxicity test, shall be entered on the Aquatic Toxicity Monitoring Report form (ATMR) and sent to the Bureau of Water Protection and Land Reuse at the address specified above in Section 7 (A) of this permit by the 15th day of the month following the month in which samples are collected.
- (C) The results of the process monitoring required above in Section 5 shall be entered on the Monthly Operating Report (MOR) form, included herein as Attachment 2, and reported to the Bureau of Water Protection and Land Reuse. The MOR report shall also be accompanied by a detailed explanation of any violations of the limitations specified. The MOR, must be received at the address specified above in Section 7 (A) of this permit by the 15th day of the month following the month in which the data and samples are collected.
- (D) A complete and thorough report of the results of the chronic toxicity monitoring outlined in Section 6(C) shall be prepared as outlined in Section 10 of EPA-821-R-02-013 (for freshwater) and submitted to the Department for review on or before December 31 of each calendar year to the address specified above in Section 7 (A) of this permit.
- (E) NetDMR Reporting Requirements -
 - (1) Unless otherwise approved in writing by the Commissioner, no later than one-hundred and twenty (120) days after the issuance of this permit, the Permittee shall begin reporting to the Department electronically using NetDMR, a web-based tool that allows Permittees to electronically submit discharge monitoring reports (DMRs) and other required reports through a secure internet connection. Specific requirements regarding subscription to NetDMR and submittal of data and reports in hard copy form and for submittal using NetDMR are described below:
 - (a) NetDMR Subscriber Agreement

On or before fifteen (15) days after the issuance of this permit, the Permittee and/or the person authorized to sign the Permittee's discharge monitoring reports ("Signatory Authority") as described in RCSA Section 22a-430-3(b)(2) shall contact the Department and initiate the subscription process for electronic submission of Discharge Monitoring Report (DMR) information. On or before ninety (90) days after issuance of this permit the Permittee shall submit a signed and notarized copy of the Connecticut DEP NetDMR Subscriber Agreement to the Department.

(b) Submittal of Reports Using NetDMR

Unless otherwise approved by the Commissioner, on or before one-hundred and twenty (120) days after issuance of this permit, the Permittee and/or the Signatory Authority shall electronically submit DMRs and reports required under this permit to the Department using NetDMR in satisfaction of the DMR submission requirement of this permit. DMRs shall be submitted electronically to the Department no later than the 15th day of the month following the completed reporting period.

(c) Submittal of NetDMR Opt-Out Requests

If the Permittee is able to demonstrate a reasonable basis, such as technical or administrative infeasibility, that precludes the use of NetDMR for electronically submitting DMRs and reports, the Commissioner may approve the submission of DMRs and other

required reports in hard copy form ("opt-out request"). Opt-out requests must be submitted in writing to the Department for written approval on or before fifteen (15) days prior to the date a Permittee would be required under this permit to begin filing DMRs and other reports using NetDMR. This demonstration shall be valid for twelve (12) months from the date of the Department's approval and shall thereupon expire. At such time, DMRs and reports shall be submitted electronically to the Department using NetDMR unless the Permittee submits a renewed opt-out request and such request is approved by the Department.

All opt-out requests and requests for the NetDMR subscriber form should be sent to the following address;

Attn: NetDMR Coordinator
Connecticut Department of Energy and Environmental Protection
Water Permitting and Enforcement Division – 2nd Floor
79 Elm Street
Hartford, CT 06106-5127

SECTION 8: RECORDING AND REPORTING OF VIOLATIONS, ADDITIONAL TESTING REQUIREMENTS, BYPASSES, MECHANICAL FAILURES, AND MONITORING EQUIPMENT FAILURES

- (A) If any Acute Aquatic Toxicity sample analysis indicates that an Aquatic toxicity effluent limitation has been exceeded, or that the test was invalid, an additional sample of the effluent shall be collected and tested for Acute Aquatic Toxicity and associated chemical parameters, as described above in Section 5 and Section 6, and the results reported to the Bureau of Water Protection and Land Reuse (Attn: Aquatic Toxicity) via the ATMR form (see Section 7 (B)) within 30 days of the previous test. These test results shall also be reported on the next month's DMR report pursuant to Section 7 (A). The results of all toxicity tests and associated chemical parameters, valid and invalid, shall be reported.
- (B) If any two consecutive Acute Aquatic Toxicity test results or any three Acute Aquatic Toxicity test results in a twelve month period indicates that the Acute Aquatic Toxicity limit has been exceeded, the permittee shall immediately take all reasonable steps to eliminate toxicity wherever possible and shall submit a report, to the Bureau of Water Protection and Land Reuse (Attn: Aquatic Toxicity), for the review and written approval of the Commissioner in accordance with Section 22a-430-3(j)(10)(e) of the RCSA describing proposed steps to eliminate the toxic impact of the discharge on the receiving water body. Such a report shall include a proposed time schedule to accomplish toxicity reduction and the permittee shall comply with any schedule approved by the Commissioner.
- Section 22a-430-3(k) of the RCSA shall apply in all instances of bypass including a bypass of the treatment plant or a component of the sewage collection system planned during required maintenance. The Department of Energy and Environmental Protection, Bureau of Water Protection and Land Reuse, Planning and Standards Division, Municipal Facilities Section (860) 424-3704, the Department of Public Health, Water Supply Section (860) 509-7333 and Recreation Section (860) 509-7297, and the local Director of Health shall be notified within 2 hours of the permittee learning of the event by telephone during normal business hours. If the discharge or bypass occurs outside normal working hours (8:30 a.m. to 4:30 p.m. Monday through Friday), notification shall be made within 2 hours of the permittee learning of the event to the Emergency Response Unit at (860) 424-3338 and the Department of Public Health at (860) 509-8000. A written report shall be submitted to the Department of Energy and Environmental Protection, Bureau of Water Protection and Land Reuse, Planning and Standards Division, Municipal Facilities Section within five days of the permittee learning of each occurrence, or potential occurrence, of a discharge or bypass of untreated or partially treated sewage.

The written report shall contain:

- (i) The nature and cause of the bypass, permit violation, treatment component failure, and/or equipment failure,
- (ii) the time the incident occurred and the anticipated time which it is expected to continue or, if the condition has been corrected, the duration,
- (iii) the estimated volume of the bypass or discharge of partially treated or raw sewage,
- (iv) the steps being taken to reduce or minimize the effect on the receiving waters, and
- (v) the steps that will be taken to prevent reoccurrence of the condition in the future.
- (D) Section 22a-430-3(j) 11 (D) of the RCSA shall apply in the event of any noncompliance with a maximum daily limit and/or any noncompliance that is greater than two times any permit limit. The permittee shall notify in the same manner as in paragraph C of this Section, the Department of Energy and Environmental Protection, Bureau of Water Protection and Land Reuse Planning and Standards Division, Municipal Facilities Section except, if the noncompliance occurs outside normal working hours (8:30 a.m. to 4:30 p.m. Monday)

through Friday) the permittee may wait to make the verbal report until 10:30 am of the next business day after learning of the noncompliance.

- (E) Section 22a-430-3(j) 8 of the RCSA shall apply in all instances of monitoring equipment failures that prevent meeting the requirements in this permit. In the event of any such failure of the monitoring equipment including, but not limited to, loss of refrigeration for an auto-sampler or lab refrigerator or loss of flow proportion sampling ability, the permittee shall notify in the same manner as in paragraph C of this Section, the Department of Energy and Environmental Protection, Bureau of Water Protection and Land Reuse, Planning and Standards Division, Municipal Facilities Section except, if the failure occurs outside normal working hours (8:30 a.m. to 4:30 p.m. Monday through Friday) the permittee may wait to make the verbal report until 10:30 am of the next business day after learning of the failure.
- (F) In addition to the reporting requirements contained in Section 22a-430-3(i), (j), and (k) of the Regulations of Connecticut State Agencies, the permittee shall notify in the same manner as in paragraph C of this Section, the Department of Energy and Environmental Protection, Bureau of Water Protection and Land Reuse, Planning and Standards Division, Municipal Facilities Section concerning the failure of any major component of the treatment facilities which the permittee may have reason to believe would result in an effluent violation.

SECTION 9: COMPLIANCE SCHEDULES

- (A) The permittee shall achieve the final water quality-based effluent limits for phosphorus for DSN 001-1 established in Section 5 of this permit, in accordance with the following:
 - (1) On or before 120 days after the date of issuance of this permit the permittee shall retain one or more qualified consultants acceptable to the Commissioner to prepare the documents and implement or oversee the actions required by this permit and shall, by that date, notify the Commissioner in writing of the identity of such consultant(s). The municipality shall retain one or more qualified consultants acceptable to the Commissioner until this permit is fully complied with, and, within ten days after retaining any consultant other than the one originally identified under this paragraph, the municipality shall notify the Commissioner in writing of the identity of such other consultant. The consultant(s) retained shall be a qualified professional engineer licensed to practice in Connecticut. The permittee shall submit to the Commissioner a description of a consultant's education, experience and training which is relevant to the work required by this permit within ten days after a request for such a description. Nothing in this paragraph shall preclude the Commissioner from finding a previously acceptable consultant unacceptable.
 - (2) On or before <u>270 days</u> after the date of issuance of this permit, the permittee shall submit for the Commissioner's review and written approval a comprehensive and thorough engineering report which describes and evaluates alternative actions which may be taken by permittee to achieve compliance with the Phosphorus limitations in Section 5 of this permit. Such report shall:
 - (a) List all permits and approvals required for each alternative, including but not limited to any permits required under Sections 22a-32, 22a-42a, 22a-342, 22a-361, 22a-368 or 22a-430 of the CGS,
 - (b) Propose a preferred alternative or combination of alternatives with supporting justification therefore,
 - (c) State in detail the most expeditious schedule for performing each alternative, and
 - (d) Propose a detailed program and schedule to perform all actions required to implement the preferred alternative, including but not limited to a schedule for submission of engineering plans and specifications for any new equipment, the start and completion of any construction activities and applying for and obtaining all permits and approvals required for such actions.
 - (3) Unless another deadline is specified in writing by the Commissioner, on or before 150 days after approval of the engineering report, the permittee shall (1) submit for the Commissioner's review and written approval, contract plans and specifications for the approved remedial actions, a revised list of all permits and approvals required for such actions and a revised schedule for applying for and obtaining such permits and approvals; and (2) submit applications for all permits and approvals required under Sections 22a-430 and 22a-416 of the CGS. The permittee shall obtain all required permits and approvals.
- (B) The permittee shall submit to the Commissioner semi-annual status reports beginning sixty days after the date of approval of the report referenced in paragraphs A and B of this Section. Status reports shall include, but not be limited to a detailed description of progress made by the permittee in performing actions required by this Section of the permit in accordance with the approved schedule including, but not limited to, development of engineering plans and specifications, construction activity, contract bidding, operational changes, preparation and submittal of permit applications, and any other required under paragraph A and B of this Section.
- (C) The permittee shall perform the approved actions in accordance with the approved schedule(s), but in no event shall the approved actions be completed later than 1095 days after the date of issuance of this permit for compliance with the phosphorus limits. Within fifteen days after completing such actions, the permittee shall certify to the Commissioner in writing that the actions have been completed as approved.

- (D) The permittee shall use best efforts to submit to the Commissioner all documents required by this Section of the permit in a complete and approvable form. If the Commissioner notified the permittee that any document or other action is deficient, and does not approve it with conditions or modifications, it is deemed disapproved, and the permittee shall correct the deficiencies and resubmit it within the time specified by the Commissioner or, if no time is specified by the Commissioner, within thirty days of the Commissioner's notice of deficiencies. In approving any document or other action under this Compliance Schedule, the Commissioner may approve the document or other action as submitted or performed or with such conditions or modifications as the Commissioner deems necessary to carry out the purposes of this Section of the permit. Nothing in this paragraph shall excuse noncompliance or delay.
- (E) <u>Dates</u>. The date of submission to the Commissioner of any document required by this section of the permit shall be the date such document is received by the Commissioner. The date of any notice by the Commissioner under this section of the permit, including but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is personally delivered or the date three days after it is mailed by the Commissioner, whichever is earlier. Except as otherwise specified in this permit, the word "day" as used in this Section of the permit means calendar day. Any document or action which is required by this Section only of the permit, to be submitted, or performed, by a date which falls on, Saturday, Sunday, or, a Connecticut or federal holiday, shall be submitted or performed on or before the next day which is not a Saturday, Sunday, or Connecticut or federal holiday.
- (F) Notification of noncompliance. In the event that the permittee becomes aware that it did not or may not comply, or did not or may not comply on time, with any requirement of this Section of the permit or of any document required hereunder, the permittee shall immediately notify the Commissioner and shall take all reasonable steps to ensure that any noncompliance or delay is avoided or, if unavoidable, is minimized to the greatest extent possible. In so notifying the Commissioner, the permittee shall state in writing the reasons for the noncompliance or delay and propose, for the review and written approval of the Commissioner, dates by which compliance will be achieved, and the permittee shall comply with any dates which may be approved in writing by the Commissioner. Notification by the permittee shall not excuse noncompliance or delay, and the Commissioner's approval of any compliance dates proposed shall not excuse noncompliance or delay unless specifically so stated by the Commissioner in writing.
- (G) <u>Notice to Commissioner of changes</u>. Within fifteen days of the date the permittee becomes aware of a change in any information submitted to the Commissioner under this Section of the permit, or that any such information was inaccurate or misleading or that any relevant information was omitted, the permittee shall submit the correct or omitted information to the Commissioner.
- (H) <u>Submission of documents</u>. Any document, other than a DMR, ATMR or MOR required to be submitted to the Commissioner under this Section of the permit shall, unless otherwise specified in writing by the Commissioner, be directed to:

Stela Marusin, Sanitary Engineer 3
Department of Energy and Environmental Protection
Bureau of Water Protection and Land Reuse, Planning and Standards Division
79 Elm Street
Hartford, Connecticut 06106-5127

Syllinger

This permit is hereby issued or

Betsey/Wingfield

Bureat/Chief

Bureau of Water Protection and Land Reuse

ATTACHMENT 1

Tables A through H

TABLE A

Discharge Serial Number (DSN): 001-1					Monitoring Locat	tion: 1		-		
Wastewater Description: Sanitary Sewage									· · · · · · · · · · · · · · · · · · ·	
Monitoring Location Description: Final Efflu	ent			,						
Allocated Zone of Influence (ZOI): 19.40 cfs	·		<u> </u>	In-stream W	aste Concentrati	ion (IWC): 18	.95 %			
		FLOW	//TIME BA	SED MONIT	TORING		NTANEOU NITORING	S	REPORT FORM	Minimum Level
PARAMETER	Units	Average Monthly Limit	Maximum Daily Limit	Sample Freq.	Sample type	Instantaneous Limit or Required Range ³	Sample Freq.	Sample Type		Analysis See Section 6
Alkalinity	mg/l	NA	NA	NR	NA		Monthly	Grab	MOR	T
Biochemical Oxygen Demand (5 day) ¹ , See remark (C) below	mg/I	30	50	3/Week	Daily Composite	NA	NR	NA	DMR/MOR	
Chlorine, Total Residual (May 1st through September 30th) see remark (A) below.	mg/l	0.054	0.104	4/ Work Day	Grab	0.20	4/ Work Day	Grab	DMR/MOR	*
Escherichia coli May 1st through September 30th see remark (B) below	Colonies per100 ml	NA ·	NA	NR	NA	410	3/Week	Grab	DMR/MOR	
Flow	MGD			Continuous ²	Average Daily Flow	NA	NR	NA	DMR/MOR	
Nitrogen, Ammonia (total as N) (June 1st through October 31th)	mg/l	15	22.5	Weekly	Daily Composite	NA	NR	NA	DMR/MOR	
Nitrogen, Ammonia (total as N) (November 1st through May 31th)	mg/l	NA		Monthly	Daily Composite	NA	NR	NA	MOR	
Nitrogen, Nitrate (total as N)	mg/l	NA		Monthly	Daily Composite	NA	NR	NA	MOR	
Nitrogen, Nitrite (total as N)	mg/l	NA ,		Monthly	Daily Composite	NA	NR	NA	MOR	
Nitrogen, Total Kjeldahl	mg/l	NA	<u> </u>	Monthly	Daily Composite	NA	NR	NA	MOR	
Nitrogen, Total	mg/l	NA		Monthly	Daily Composite	NA	NR	NA	MOR	
Nitrogen, Total	lbs/day	NA		Monthly	Daily Composite	NA	NR	NA	MOR	
Oxygen, Dissolved	mg/l	NA	NA	NR	NA		Work Day	Grab	MOR	
pН	S.U.	NA	NA	NR	NA	6-9	Work Day	Grab	DMR/MOR	
Phosphate, Ortho ⁵	mg/l	NA		Monthly	Daily Composite	NA	NR	NA	MOR	

Phosphorus, Total 5	mg/l	V		Monthly	Daily Composite	NA	NR	NA	MOR .	*
Phosphate, Ortho ⁶	mg/l			 	Daily Composite	NA	NR	NA	MOR	
(April 1st through October 31st)		NA		Weekly)					
(November 1st through March 31st)		NA		Monthly	1					
Phosphorus, Total ⁶ (April 1st through October 31st) (November 1st through March 31st)	mg/l	1.09	2.18	Weekly Monthly	Daily Composite	NA.	NR	NA	DMR/MOR	*
Phosphorus, Total April 1st through October 31st	lbs/day			Weekly	Daily Composite	NA	NA	NA	MOR	
Phosphorus, Total ⁷ (Average Seasonal Load Cap) October	lbs/day		NA	Weekly	Calculated	NA	NA	NA	DMR/MOR	
Solids, Settleable	mI/l	NA	NA	NR	NA		Work Day	Grab	MOR	
Solids, Total Suspended ¹ , See remark (C).	mg/l	30	50	3/Week	Daily Composite	NA	NA	NA	DMR/MOR	
Temperature	°F	NA	NA	NR	NA		Work Day	Grab	MOR	
Turbidity	NTU	NA	NA	NR	NA		Work Day	Grab	MOR	

TABLE A - CONDITIONS

Footnotes:

Remarks:

(A) The use of chlorine for disinfection and sodium bisulfite for dechlorination shall be discontinued from October 1st through April 30th except that chlorination and dechlorination equipment may be started and tested no earlier than April 15th, and any residual chlorine gas or liquid and sodium bisulfite may be used up until, but no later than, October 15th. During these times in April and October the total residual chlorine of the effluent shall not be greater than 0.2 mg/l, as an instantaneous limit, and 0.1 mg/l, as a maximum daily limit. The analytical results shall be reported on the MOR for the months of April and October.

¹ The discharge shall not exceed an average monthly 30 mg/l or a maximum daily 50 mg/l.

² The permittee shall record and report on the monthly operating report the minimum, maximum and total flow for each day of discharge and the average daily flow for each sampling month. The permittee shall report, on the discharge monitoring report, the average daily flow and maximum daily flow for each sampling month.

³ The instantaneous limits in this column are maximum limits.

⁴ The Maximum Daily Concentration to be reported shall be determined by mathematically averaging the results of the four grab samples required above. The Average Monthly Concentration shall be determined by mathematically averaging the results of the Maximum Daily Concentrations required above.

⁵ Beginning on the date of issuance of this permit and lasting until the phosphorus limits included herein take effect, the permitee shall monitor this parameter on a monthly basis.

⁶ During the period beginning after the implementation of phosphorus removal but no later than 1095 days after permit issuance, lasting until expiration, the discharge shall also not exceed and shall otherwise conform to the specific terms and conditions listed.

During the period beginning after the implementation of phosphorus removal but no later than 1095 days after permit issuance, lasting until expiration, the discharge shall not exceed the total phosphorus Average Seasonal Load by adding all sample results during each April 1st through October 31st season in pounds per day and dividing by the total number of those samples in that season.

Remarks (Continued)

(B) The geometric mean of the Escherichia coli bacteria values for the effluent samples collected in a period of a calendar month during the period from May 1st through September 30th shall not exceed 126 per 100 milliliters.

(C) The Average Weekly discharge Limitation for BOD₅ and Total Suspended Solids shall be 1.5 times the Average Monthly Limit listed above.

Table B

Discharge Serial Number (DSN): 001-1		Monitoring Location: K							
Wastewater Description: Sanitary Sewage									
Monitoring Location Description: Final Effluent				- 					
Allocated Zone of Influence (ZOI): 19.4 cfs		In-stream Waste	e Concentration (TWC): 18.9	5 %				
р д р далгенеро		FLOW/TIME	E BASED MONI	TORING	REPORT FORM				
PARAMETER	Units	Average Monthly Minimum	Sample Freq.	Sample type					
Biochemical Oxygen Demand (5 day) Percent Removal ¹	% of Influent	85	3/Week	Calculated ²	DMR/MOR				
Solids, Total Suspended Percent Removal ¹	% of Influent	85	3/Week	Calculated ²	DMR/MOR				

TABLE B - CONDITIONS

Footnotes

¹ The discharge shall be less than or equal to 15% of the average monthly influent BOD₅ and total suspended solids (Table E, Monitoring Location G).

² Calculated based on the average monthly results described in Table A. Removal efficiency = Inf. BOD or TSS - Effluent BOD or TSS X 100

TABLE C

Discharge Serial Number (DSN): 001-1 Monitoring Location: T Wastewater Description: Sanitary Sewage Monitoring Location Description: Final Effluent after dechlorination facilities Allocated Zone of Influence (ZOI): 19.40 cfs In-stream Waste Concentration (IWC): 18.95 % Maximum Sampling Minimum Units Sample Reporting **PARAMETER** Frequency form Daily Level Analysis Type Limit See Section 6 Daily Composite ATMR/DMR * Aluminum, Total mg/l ____ Quarterly Antimony, Total mg/l Quarterly Daily Composite ATMR/DMR % Quarterly Daily Composite ATMR/DMR NOAEL Static 48Hr Acute D. Pulex 1 survival Daily Composite % Quarterly ATMR/DMR NOAEL Static 48Hr Acute Pimephales¹ survival Arsenic, Total Quarterly Daily Composite ATMR/DMR * mg/l Beryllium, Total mg/l Quarterly Daily Composite ATMR/DMR BOD₅ mg/l Quarterly Daily Composite ATMR/DMR * Cadmium, Total Quarterly Daily Composite ATMR/DMR mg/l Chromium, Hexavalent mg/l Quarterly Daily Composite ATMR/DMR Daily Composite Chromium, Total mg/l Quarterly ATMR/DMR Chlorine, Total Residual mg/l ----Quarterly Daily Composite ATMR/DMR Copper, Total Daily Composite ATMR/DMR mg/l Quarterly Cyanide, Amenable mg/l ____ Quarterly Daily Composite ATMR/DMR Cyanide, Total mg/l Quarterly Daily Composite ATMR/DMR Iron, Total Daily Composite ATMR/DMR mg/l -----Quarterly Lead, Total **Daily Composite** ATMR/DMR mg/l Quarterly Mercury, Total Daily Composite ATMR/DMR mg/l Quarterly Nickel, Total mg/l Quarterly Daily Composite ATMR/DMR * Nitrogen, Ammonia (total as N) mg/l Quarterly Daily Composite ATMR/DMR Nitrogen, Nitrate, (total as N) mg/l Quarterly Daily Composite ATMR/DMR Nitrogen, Nitrite, (total as N) Quarterly Daily Composite ATMR/DMR mg/l Phosphorus, Total mg/l Quarterly Daily Composite ATMR/DMR Phenols, Total Daily Composite mg/l Quarterly ATMR/DMR Selenium, Total mg/l Quarterly Daily Composite ATMR/DMR Daily Composite Silver, Total mg/l Quarterly ATMR/DMR Suspended Solids, Total mg/l -----Quarterly Daily Composite ATMR/DMR Quarterly Daily Composite ATMR/DMR Thallium, Total mg/l Zinc, Total mg/l-Quarterly Daily Composite ATMR/DMR

TABLE C - CONDITIONS

Remarks: 1 The results of the Toxicity Tests are recorded in % survival. The permittee shall report % survival on the DMR based on criteria in Section 6(B) of this permit.

ATMR - Aquatic Toxicity Monitoring Report

TABLE D

Discharge Serial Number: 001-1	Monitoria	Monitoring Location: N								
Wastewater Description: Activate	ed Sludge									
Monitoring Location Description:	Each Aeration Unit									
PARAMETER	REPORTING FORMA	T INSTANTANE	OUS MONITORING	REPORTING						
		Sample Frequency**	Sample Type	FORM						
Oxygen, Dissolved	High & low for each Workl	Day 4/WorkDay	Grab	MOR						
Sludge Volume Index	WorkDay	WorkDay	Grab	MOR						
Mixed Liquor Suspended Solids	WorkDay	WorkDay	Grab	MOR						

^{**} A sample frequency of 4/Work Day means a sample shall be taken at least four times a day at no less than one and a half (1 ½) hours apart; therefore an eight (8) hour working day shall have four evenly spread out samples to show representation and compliance throughout the work day.

TABLE E

Discharge Serial Number: 001-1			Monitoring	Location: G			
Wastewater Description: Sanitary Sewa	ge						
Monitoring Location Description: Influe	nt						
PARAMETER	Units	DMR REPORTING FORMAT		IME BASED ITORING	INSTANTA MONITO	-	REPORTING FORM
			Sample Frequency	Sample Type	Sample Frequency	Sample Type	
Biochemical Oxygen Demand (5 day)	mg/l	Monthly average	3/Week	Daily Composite	NA	NA	DMR/MOR
Nitrogen, Ammonia (total as N)	mg/l		Monthly	Daily Composite	NA	NA	MOR
Nitrogen, Nitrate (total as N)	mg/l		Monthly	Daily Composite	NA	NA	MOR
Nitrogen, Nitrite (total as N)	mg/l		Monthly	Daily Composite	NA	NA	MOR
Nitrogen, Total Kjeldahl	mg/l		Monthly	Daily Composite	NA	NA	MOR
Nitrogen, Total	mg/l		Monthly	Daily Composite	NA	NA	MOR
Phosphate, Ortho	mg/l		Monthly	Daily Composite	NA	NA	MOR
Phosphorus, Total	mg/l		Monthly	Daily Composite	NA	NA	MOR
pΗ	S.U.		NA	NA	Work Day	Grab	MOR
Solids, Total Suspended	mg/l	Monthly average	3/Week	Daily Composite	NA	NA	DMR/MOR
Temperature	°F		NA	NA	Work Day	Grab	MOR

TABLE F

Discharge Serial Number: 001-1		· · · · · · · · · · · · · · · · · · ·	Monito	ring Location: P			
Wastewater Description: Primary Effl	ue n t						
Monitoring Location Description: Prim	ary Sedim	entation Basin Efflue	nt		. ——		· · ·
PARAMETER	Units	REPORTING FORMAT		OW BASED CORING	INSTANT MONIT	REPORTING FORM	
			Sample Frequency	Sample Type	Sample Frequency	Sample type	
Alkalinity, Total	mg/l		NA	NA	Monthly	Grab	MOR
Biochemical Oxygen Demand (5 day)	mg/l	Monthly average	Weekly	Composite	NA	NA NA	MOR
Nitrogen, Ammonia (total as N)	mg/l		Monthly	Composite	NA	NA	MOR
Nitrogen, Nitrate (total as N)	mg/l		Monthly	Composite	NA	NA	MOR
Nitrogen, Nitrite (total as N)	mg/l		Monthly	Composite	NA	NA	MOR
Nitrogen, Total Kjeldahl	mg/l		Monthly	Composite	NA	NA	MOR
Nitrogen, Total	mg/l		Monthly	Composite	NA	NA	MOR
pH	S.U.		NA	NA	Monthly	Grab	MOR
Solids, Total Suspended	mg/l	Monthly average	Weekly	Composite	NA	NA	MOR

TABLE G

Discharge Serial Number: 001-1	Monitoring Location: S	L	
Wastewater Description: dewatered sludg	ge		
Monitoring Location Description: dewater	red sludge		
PARAMETER	INSTANTAN	EOUS MONITORING	REPORTING FORM
	Units	Grab Sample Freq.	7
Arsenic, Total	mg/kg	Quarterly	DMR
Beryllium, Total	mg/kg	Quarterly	· DMR
Cadmium, Total	mg/kg	Quarterly	DMR
Chromium, Total	mg/kg	Quarterly	DMR
Copper, Total	mg/kg	Quarterly	DMR
Lead, Total	mg/kg	Quarterly	DMR
Mercury, Total	mg/kg	Quarterly	DMR
Nickel, Total	mg/kg	Quarterly	DMR
Nitrogen, Ammonia *	mg/kg	Quarterly	DMR*
Nitrogen, Nitrate (total as N) *	mg/kg	Quarterly	DMR*
Nitrogen, Organic *	mg/kg	Quarterly	DMR*
Nitrogen, Nitrite (total as N) *	mg/kg	Quarterly	DMR*
Nitrogen, Total *	mg/kg	Quarterly	DMR*
pH *	S.U.	Quarterly	DMR*
Polychlorinated Biphenyls	mg/kg	Quarterly	DMR
Solids, Fixed	%	Quarterly	DMR
Solids, Total	%	Quarterly	DMR
Solids, Volatile	%	Quarterly	DMR
Zinc, Total	mg/kg	Quarterly	DMR

^(*) required for composting or land application only

Testing for inorganic pollutants shall follow "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA Publication SW-846 as updated and/or revised.

TABLE H

Discharge Serial Number: 001-1	Monitoring Location: L						
Wastewater Description: Digested slu	ıdge						
Monitoring Location Description: Eac	ch Anaerobic Digestion Unit						
D. D. LANDOUN	INSTANTANEOU	REPORTING FORM					
PARAMETER	Sample Frequency	Sample Type	}				
Temperature	Weekly	Grab	MOR				
Alkalinity	Weekly	Grab	MOR				
Volatile Acids	Weekly	Grab	MOR				
рН	Weekly	Grab	MOR				

ATTACHMENT 2

MONTHLY OPERATING REPORT FORM

	Flow	Flow	Flow	Primary	Pri Sig	Primary	Anoxic	Anovic	Anoxic Eff		Apratio	n Basir	1	:	Aeratio	n Basin	2	DO	DO
	Max	Min	Avg	Sludge	Solids	Sludge	DO HI	DO LO	Nitrates	MLSS	SVI	I во ні	DO LO	MISS			_ DO LO		Low
Date	MGD	MGD	MGD	GPD	MG/L	Lbs	MG/L	MG/L	MG/L				MG/L					MG/L	MG/L
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- W	RAS	RAS	RAS	WAS	WAS	o	BOD		* · · ·	TSS		Effluent	Effluent	Chlorine	Chlorine
	Flow	Flow % of		Flow		Influent		Effluent	Influent	Pri. Eff	Effluent	Set. Sol	Turbidity	Dose	Dose
Date	MGD	influent	MG/L	GAL	Lbs	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	ML/L	NTU	Lbs	MG/L
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Date	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	
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	-							Municipal Facilities
								79 Elm Street
			,					Hartford, CT 06106-5127
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_	-							Statement of Acknowledgement
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								I certify under penalty of law that this document
· · ·				 		1		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
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	 	+	 	+		1		belief, true, accurate, and complete. I am aware
	 	 						that there are significant penalties for submitting
	 		 	 				false information including the possibility of fine
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DATA TRACKING AND TECHNICAL FACT SHEET

Permittee: Town of Seymour

PERMIT, ADDRESS, AND FACILITY DATA

PERMIT #: <u>CT0100501</u> APPLICATION #: 2009032	281 FACILITY ID. 124-001
Mailing Address:	Location Address:
Street: Town Hall, 1 First Street	Street: 723 Derby Avenue Extension
City: Seymour ST: CT Zip: 06483	City: Seymour ST: CT Zip: 06483
Contact Name: Carey Strout	Contact Name: Carey Strout
Phone No.: 203-735-0288	Phone No.: 203-735-0288
	DMR Contact email address: Carey.strout@veolia.com
PERMIT INFORMATION DURATION 5 YEAR X 10 YEAR	30 YEAR
TYPE New Reissuance X Modi	fication
CATEGORIZATION POINT (X) NON-POINT	**
NPDES (X) PRETREAT () GROUND WAT	ER(UIC) () GROUND WATER (OTHER) ()
NPDES MAJOR(MA) <u>X</u> NPDES SIGNIFICANT MINOR <u>or</u> PRETREA NPDES <u>or</u> PRETREATMENT MINOR (MI) _	
COMPLIANCE SCHEDULE YES X NO_ POLLUTION PREVENTIONTREATMENT REQUIREMENT X OTHER_	
OWNERSHIP CODE	•
Private Federal State Municipal (town or	aly) X Other public
DEP STAFF ENGINEER Stela Marusin DAT	E DRAFTED: 5/8/2015
PERMIT FEES	1
Discharge Code DSN Number Annual Fee	
111000d 001-1 \$2,367.50	
FOR NPDES DISCHARGES Drainage Basin Code: 6900 Water Quality Classific NATURE OF BUSINESS GENERATING DISCHARGE	ation Goal: B Segment: Naugatuck River
TOTAL OF DUDINESS GENERALING DISCHARGE	

PROCESS AND TREATMENT DESCRIPTION (by DSN)

Municipal Sanitary Sewage Treatment

Advanced Biological Treatment with Denitrification and Seasonal chlorination/dechlorination.

	S USED TO DRAFT PERMIT Federal Effluent Limitation Guideline_40CFR 133Secondary Treatment Category.
	Pederal Efficient Elimination Guideline 40C/R 155 Secondary Treatment Category
	Performance Standards
_	Federal Development Document
<u>X</u>	name of category Department File Information
<u>X</u>	Connecticut Water Quality Standards
<u>X</u>	Anti-degradation Policy
_	Coastal Management Consistency Review Form
. —	Other - Explain
BASIS FOR	LIMITATIONS, STANDARDS OR CONDITIONS
-	Secondary Treatment (Section 22a-430-4(r) of the Regulations of Connecticut State Agencies)
<u>X</u>	Case-by-Case Determination (See Other Comments)
X	In order to meet in-stream water quality (See General Comments)
_	Anti-degradation policy

GENERAL COMMENTS

The Town of Seymour ("Seymour") operates a municipal water pollution control facility ("the facility") located at 723 Derby Avenue Extension, Seymour. The facility is designed to treat and discharge up to 2.93 million gallons a day of effluent into the Naugatuck River. The facility currently uses secondary treatment with and chlorine disinfection to treat effluent before being discharged. Pursuant to Conn. Gen. Stat. § 22a-430, the Department of Energy and Environmental Protection has issued Seymour a permit for the discharge from this facility. Seymour has submitted an application to renew its permit. The Department has made a tentative determination to approve Seymour's application and has prepared a draft permit consistent with that determination.

The most significant changes from the current permit are the inclusion of revised bacteria monitoring requirements (e.g. e. coli), Aluminum monitoring to be consistent with the most recent CT Water Quality Standards and Iron monitoring to be consistent with EPA's National Recommended Water Quality Criteria.

SPECIFIC REQUIREMENTS OR REVISIONS

The Department reviewed the application for consistency with Connecticut's Water Quality Standards and determined that with the limits in the draft permit, including those discussed below, that the draft permit is consistent with maintenance and protection of water quality in accordance with the Tier I Anti-degradation Evaluation and Implementation Review provisions of such Standards.

The need for inclusion of water quality based discharge limitations in this permit was evaluated consistent with Connecticut Water Quality Standards and criteria, pursuant to 40 CFR 122.44(d). Discharge monitoring data was evaluated for consistency with the available aquatic life criteria (acute and chronic) and human health (fish consumption only) criteria, considering the zone of influence allocated to the facility where appropriate. In addition to this review, the statistical procedures outlined in the EPA Technical Support Document for Water Quality-based Toxics Control (EPA/505/2-90-001) were employed to calculate the need for such limits. Comparison of the attached monitoring data and its inherent variability with the calculated water quality based limits indicates a low statistical probability of exceeding

such limits. Therefore, no water quality based limits were included in the permit at this time.

A compliance schedule is included for the reduction of phosphorus in the effluent:

Phosphorus Permitting Approach

Phosphorus is a naturally occurring element that is essential to support plant growth. When present in excessive amounts, phosphorus can impair both aquatic life and recreational use of Connecticut's water resources. Excess nutrient enrichment is a serious threat to water quality in Connecticut. Excessive loading of phosphorus to surface waters as a result of discharges from wastewater treatment plants or non point sources such as runoff from urban and agricultural lands, can lead to algal blooms, including blooms of noxious blue green algae, reduction in water clarity, and in extreme cases depletion of oxygen, fish kills, and other impairments to aquatic life. Currently, 21 water body segments have been identified on Connecticut's List of Waters Not Meeting Water Quality Standards where nutrient enrichment is a contributing cause of the impairment.

The Connecticut Water Quality Standards (WQS) do not include numeric criteria for nutrients but rather incorporate narrative standards and criteria for nutrients. These narrative policy statements direct the Connecticut Department of Environmental Protection to impose discharge limitations or other reasonable controls on point and non point sources to support maintenance or attainment of designated uses. In the absence of numeric criteria for phosphorus, the Department has developed an interim nutrient management strategy for freshwater non-tidal streams based on the narrative policy statements in the WQS to meet the pressing need to issue NPDES permits and be protective of the environment. The strategy includes methods that focus on phosphorus because it is the primary limiting nutrient in freshwater systems. These methods were approved by the United States Environmental Protection (EPA) in their letter dated October 26, 2010 as an interim strategy to establish water quality based phosphorus limits in non-tidal freshwater for industrial and municipal water pollution control facilities (WPCFs) national pollutant discharge elimination system (NPDES) permits.

The method in the interim strategy uses best available science to identify phosphorus enrichment levels in waste receiving rivers and streams that adequately support aquatic life uses. The methodology focuses on algal communities as the key aquatic life nutrient response variable and phosphorus enrichment factors that represent significant changes in communities based on data collected statewide. Ongoing work is currently being conducted to refine the approach through additional data collection and by expanding the methodology to include non-waste receiving streams. It is expected that the ongoing work will lead to numeric nutrient criteria for all freshwater rivers and streams in the next WQS review cycle. The current approach provides for a major statewide advancement in the level of phosphorus control that is expected to meet all freshwater designated uses. The adaptive nature of Connecticut's strategy allows for revisions to permit limits in future permit cycles without delaying action that we know needs to be taken today.

The current approach follows a watershed based framework incorporating many of the elements from the U.S. EPA Watershed—Based National Pollutant Discharge Elimination System (NPDES) Permitting Technical Guidance (2007). Consistent with the 2007 Guidance, the approach "explicitly considers the impact of multiple pollutant sources and stressors, including nonpoint source contributions, when developing point source permits". Expected current conditions are based on the probability of excess phosphorus export from land cover and municipal and industrial facilities in the upstream drainage basin. Connecticut's policy for phosphorus management is translated into a numeric expression through geospatial and statistical analyses that determines the maximum acceptable seasonal phosphorus mass load per unit area of watershed contributing flow to the point of assessment.

The goal of the interim strategy is to achieve or maintain an enrichment factor (EF) of 8.4 or below throughout a watershed. An EF is representative of the amount of anthropogenic phosphorus loading to river and streams. It is calculated by dividing the current total seasonal phosphorus load by a modeled total phosphorus load under complete forested conditions at a particular point along the river. An enrichment factor is representative of the amount of anthropogenic phosphorus loading to rivers and streams. The goal of an 8.4 enrichment factor represents a threshold at which a significant change is seen

in the algal communities indicating highly enriched conditions and impacts to aquatic life uses.

The analysis was conducted using benthic algae collected in rivers and streams throughout CT under varying enrichment conditions. The approach targets the critical 'growing' season (April through October) when phosphorus is more likely to be taken up by sediment and biomass because of low flow and warmer conditions. During winter months aquatic plants are dormant and flows are higher providing constant flushing of phosphorus through aquatic systems with a less likely chance that it will settle out into the sediment. Limiting the phosphorus export from industrial and municipal facilities offers a targeted management strategy for achieving aquatic life designated uses within a waterbody. The export of some phosphorus from facilities and other land sources is considered normal use of the land recognizing that humans are part of the environment.

A seasonal load was established by the Department for each facility discharging to non-tidal waters based on the current degree of enrichment of the receiving water body at the point of discharge and the facilities contribution to the total watershed enrichment at the point of discharge.

Seymour Permit Requirements

A nutrient watershed analysis was conducted for the Naugatuck River watershed below facilities discharging phosphorus into the river. The facilities discharging to the river include: Torrington WPCF, Thomaston WPCF, Waterbury WPCF, Naugatuck WPCF, Beacon Falls WPCF, Seymour WPCF and Ansonia WPCF. The seasonal (April 1st through October 31st) nutrient loading from each facility discharging to the watershed was reduced to achieve an enrichment factor of 8.4 or lower throughout the river.

The current enrichment factor at the Seymour WPCF discharge is 45.4. The final proposed seasonal load allocation for Seymour is 7.54 lbs/day. This load equates to a proposed treatment performance limit of 0.7 mg/L multiplied by the current seasonal average flow of 1.29 MGD. When this strategy is fully implemented by combining reductions at all facilities located in the same watershed, the NPDES load in the Naugatuck River will be reduced by 77.81%.

Federal regulations at 40 CFR 122.44(d) indicate that permit issuers are required to determine whether a given point source discharge causes, has the reasonable potential to cause, or contributes to an in-stream excursion above a narrative or numeric criteria within a State water quality standard after consideration of existing controls on point and non-point sources of pollution. If a discharge is found to cause an excursion of a numeric or narrative state water quality criterion, NPDES regulations implementing section 301(b)(1)(C) of the Clean Water Act provide that a permit must contain effluent limits as necessary to achieve state water quality standards. The limit in the permit and the strategy are consistent with the narrative policy statements in the CT WQS and are expected to result in the attainment and maintenance of all designated uses for the water body when the strategy is fully implemented. If the Department develops numeric criteria in the future, or it is found that the current limit under the strategy is not sufficient to achieve designated uses, the goal will be modified and the WPCF will be expected to meet the more stringent water quality goal.

Translating the average performance level of 7.54 lbs/day into enforceable permit limits requires consideration of effluent variability and frequency of monitoring in order to comply with federal permitting regulations. The procedure used is as follows:

- 1. Consider the permit performance level (0.7 mg/L) to be equivalent to the Long Term Average (LTA)
- 2. Calculate the Maximum Daily Limit by multiplying the LTA by the 99th percentile LTA Multiplier appearing in Table 5-2 of the Technical Support Document (page 103 of EPA/505/2-90-001) corresponding to a CV of 0.6% to account for effluent variability:

Maximum Daily Limit: 0.7 mg/L * 3.11 = 2.18 mg/L

Calculate the Average Monthly Limit by multiplying the LTA by the 95th percentile LTA Multiplier

appearing in Table 5-2 of the Technical Support Document corresponding to a CV of 0.6% to account for effluent variability and either n=4 samples/month or n=10 samples/month as appropriate for the facility to account for the precision of estimating the true monthly average based on an average for the days the effluent was sampled:

Average Monthly Limit= 0.7 mg/l X 1.55 = 1.09 mg/l

Summary of Limits for Seymour:

Average Daily Load = 7.54 lbs/day

Total Seasonal Load = (7.54 lbs/day * 214 Days/Season) = 1,613.6 lbs/season

Maximum Daily Limit = 2.18 mg/L

Average Monthly Limit = 1.09 mg/L

With respect to the foregoing summary of limits, it should be noted that compliance with the Maximum Daily Limit or the Average Monthly Limit during the time the seasonal load limit is calculated will not ensure compliance with the Total Seasonal Load limit. For example, if the Permittee discharged phosphorus at the maximum permitted by either the Maximum Daily Limit or the Average Monthly Limit throughout the time that the seasonal load is calculated, the Permittee would exceed the Total Seasonal Load limit. For this reason, the Permittee must monitor compliance with the Total Seasonal Load limit independent of its compliance with the Maximum Daily Limit and the Average Monthly Limit.

WATER QUALITY LIMIT CALCULATIONS
See attached

WQB LIMITS:

Discharger: SEYMOUR

by: EsguerraC, 6/11/2015, 12:38

Receiving Water: Naugatuck

Design Flow: 2.930 MGD **CURRENT CONDITIONS**

Avg. Flow:

1.260 MGD

2014

Allocated ZOI: Samples/Month: 19.40 CFS 4

Max. Flow: IWC: 2.260 MGD 18.95 %

2014

WQB Limits - Site Specific

	4	AML	MDL	AML	MDL	LIMIT?
Compound	_ C.V	ug/l	ug/l	kg/d	kg/d	ML?
Aluminum	0.0	4.59E+02	4.59E+02	5.10E+00	5.10E+00	ļ
Ammonia	1.4	4.91E+03	1.39E+04	5.45E+01	1.54E+02	LIMIT/ML
Antimony	0.0	1.00E+03	1.00E+03	1.11E+01	1.11E+01	ĺ
Arsenic	0.0	2.10E-02	2.10E-02	2.33E-04	2.33E-04	ML
Beryllium	0.5	1.61E+01	2.97E+01	1.78E-01	3.29E-01	İ
Cadmium	0.9	4.93E-01	1.19E+00	5.47E-03	1.32E-02	ML
Chlorine	0.6	4.76E+01	9.54E+01	5.28E-01	1.06E+00	}
Chromium (hex)	0.0	5.81E+01	5.81E+01	6.45E-01	6.45E-01	ļ
Chromium (tri)	0.0	2.22E+02	2.22E+02	2.46E+00	2.46E+00	i
Copper	0.5	9.56E+01	1.76E+02	1.06E+00	1.96E+00	ì
Cyanide (amen)	0.0	2.75E+01	2.75E+01	3.05E-01	3.05E-01	1
Lead	0.0	6.34E+00	6.34E+00	7.03E-02	7.03E-02	İ
Mercury	0.0	2.69E-01	2.69E-01	2.99E-03	2.99E-03	
Nickel	0.3	1.38E+02	2.07E+02	1.53E+00	2.29E+00	
Phenol	0.0	8.45E+02	8.45E+02	9.37E+00	9.37E+00	
Selenium	0.2	2.47E+01	3.27E+01	2.74E-01	3.63E-01	
Silver	0.0	5.38E+00	5.38E+00	5.98E-02	5.98E-02	ł
Thallium	0.1	2.53E+00	2.93E+00	2.81E-02	3.25E-02]
Zinc	0.2	2.59E+02	3.43E+02	2.87E+00	3.81E+00	1

Current Conditions

		AMC	MMC	AMM	MMM
Compound	# DETECTS	ug/l	ug/l	kg/d	kg/d
Aluminum	0	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ammonia	21	3.23E+03	7.71E+03	1.54E+01	6.60E+01
Antimony	1	5.00E+00	5.00E+00	2.39E-02	4.28E-02
Arsenic	0	4.00E+00	4.00E+00	1.91E-02	3.42E-02
Beryllium	0	8.00E+00	1.00E+01	3.82E-02	8.56E-02
Cadmium	0	3.00E-01	1.00E+00	1.43E-03	8.56E-03
Chlorine				//8/888A88///	V/18/18/84/14/8/8/1//
Chromium (hex)	0	1.00E+01	1.00E+01	4.77E-02	8.56E-02
Chromium (tri)	1	1.00E+00	1.00E+00	4.77E-03	8.56E-03
Copper	62	1.63E+01	3.90E+01	7.78E-02	3.34E-01
Cyanide (amen)	0	1.00E+01	1.00E+01	4.77E-02	8.56E-02
Lead	5	1.20E+00	2.00E+00	5.73E-03	1.71E-02
Mercury	2	2.00E-01	2.00E-01	9.55E-04	1.71E-03
Nickel	21	3.00E+00	6.00E+00	1.43E-02	5.14E-02
Phenol	4	1.50E+01	1.50E+01	7.16E-02	1.28E-01
Selenium	3	9.70E+00	1.10E+01	4.63E-02	9.42E-02
Silver	1	1.00E+00	1.00E+00	4.77E-03	8.56E-03
Thallium	1	2.00E+00	2.00E+00	9.55E-03	1.71E-02
Zinc	21	5.86E+01	7.70E+01	2.80E-01	6.59E-01

ver. 006xlsSiteSpecific last mod: 3/11/11 Final WQB Limits

MDL (kg/d) AML (kg/d)

Ammonia

54.503

154.361

Interim WQB Limits

AML (kg/d) MDL (kg/d)

Minimum Levels

Ammonia

Arsenic

Cadmium

0.005 mg/L 0.0005 mg/L

ver. 006xlsSiteSpecific

Effluent Chemistry: **SEYMOUR WPCF**

as of Thursday, April 23, 2015

Design Flow 2.93 MGD

Avg. Monthly Flow '11: 1.66 MGD Max. Monthly Flow '11: 2.92 MGD

Receiving Waterbody: Naugatuck River

Allocated ZOI: 19.4 cfs

Database IWC: 18.9%

Site Specific

Date	BOD	TSS	NH3	NO2	NO3	CNt	CNa	Be	As	Cd	Cr6	Cr3	Сп	Pb	Τh	Ni	Ag	Zn	Sb	Se	Phen	Hg
1/8/2008	6,00	7.00	0.52	< 0.010	2.40	< 10.0	< 10.0	< 10.0	< 4.0	< 0.2	< 10.0	< 1.0	9.0	< 1.0	< 2.0	4.0 <	: 1.0	71.0	< 5.0	< 10.0	< 15.0	< 0.2
4/10/2008	4.00	< 5.00	6.60	0.160	1.40	< 10.0	< 10.0	< 10.0	< 4.0	< 0.2	< 10.0	< 1.0	7.0	< 1.0	< 2.0	6.0	1.0	49.0	< 5.0	< 10.0	< 15.0	< 0,2
7/9/2008	4.00	< 5.00	0.18	< 0.010	2.50	< 10.0	< 10.0	< 10.0	< 4.0	< 1.0	< 10.0	< 1.0	9.0	< 1.0	< 2.0	2.0 <	1.0	59.0	< 5.0	< 10,0	< 15.0	< 0.2
1/14/2009	7.10	7.00	6.20	0,120	1.20	< 10.0	< 10.0	< 10.0	< 4.0	< 0.2	< 10,0	< 1.0	9.0	< 1.0	< 2.0	< 3.0 <	1.0	47.0	< 5.0	< 10.0	< 15.0	< 0.2
4/9/2009	14.00	6.00	3,30	0.950	1.50	< 10.0	< 10.0	< 10.0	< 4.0	< 0.2	< 10.0	< 1.0	12.0	< 1.0	< 2.0	3.0 <	1.0	50.0	< 5.0	< 10.0	< 15.0	< 0.2
7/8/2009	7.40	< 5.00	3,00	< 0,010	2.60	< 10.0	< 10.0	< 10.0	< 4.0	< 0.2	< 10.0	< 1.0	10.0	< .1.0	< 20	3.0	1.0	47.0	< 5.0	< 2.0	< 15.0	< 0.2
1/6/2010	9.70	< 5.00	0.69	0.050	0.37	< 10.0	< 10.0	< 10.0	< 4.0	< 0.2	< 10.0	< 1.0	16.0	2.0	< 2.0	4.0 <	1.0	56.0	< 5.0	< 10.0	< 15.0	< 0.2
4/7/2010	4.20	< 5.00	0.48	< 0.010	1.10	< 10.0	< 10.0	< 10.0	< 4.0	< 0.2	< 10.0	< 1.0	10.0	< 1.0	< 2.0	4.0	1.0	51.0	< 5.0	< 10.0	< 15.0	< 0.2
7/6/2011	4.20	< 5.00	0,79	< 0.010	3.00	< 10,0	< 10.0	< 10.0	< 4.0	< 0.2	< 10.0	< 1.0	6.0	< 1.0	< 2.0	3.0 <	1.0	62.0	< 5.0	11.0	< 15.0	< 0.2
10/5/2011	4.00	< 5.00	0.23	< 0.010	4.10	< 10.0	< 10.0	< 10.0	< 4.0	< 0.2	< 10.0	< 1.0	10.0	< 1.0	< 2.0	3.0 <	1.0	40.0	< 5.0	< 10.0	< 15.0	< 0.2
1/5/2012	4.00	< 5.00	0,31	< 0.010	3,69	< 10.0	< 10.0	< 10.0	< 4,0	< 0.2	< 10.0	< 1.0	9.0	< 1.0	< 2.0	2.0	1.0	49.0	< 5.0	< 10.0	< 15.0	< 0.2
1/13/2012	9.60	5.50	1.52	0.250	4.17	< 10.0	< 10.0	< 10.0	< 4.0	< 0.2	< 10.0	< 1.0	18.0	< 1.0	< 2.0	3.0	1.0	67.0	< 5.0	< 10.0	< 15.0	< 0.2
4/12/2012	6.10	< 5.00	0.50	0.160	3.14	< 10.0	< 10.0	< 10.0	< 4.0	< 0.2	< 10.0	1.0	14.0	< 1.0	< 2.0	2.0	1.0	< 77.0	< 5.0	10.0	15.0	0.2
7/12/2012	4,00	< 5.00	0.28	< 0.010	4.02	< 10.0	< 10,0	< 10.0	< 4.0	< 0.2	< 10,0	< 1.0	14.0	1.0	< 2.0	2.0	1.0	64.0	< 5.0	< 10.0	< 15.0	< 0.2
10/4/2012	4.00	< 5.00	0.12	< 0.010	6.05	< 10.0	< 10.0	< 10.0	< 4.0	< 0.2	< 10.0	< 1.0	23.0	< 1.0	< 2.0	2.0	1.0	50.0	< 5.0	< 10.0	< 15.0	< 0.2
4/3/2013	5.50	< 5.00	0.45	0.290	7.71	< 10.0	< 10,0	< 10.0	< 4.0	< 1.0	< 10.0	< 1.0	17.0	< 2.0	< 20	3.0	: 1.0	73.0	< 5.0	< 10.0	< 15.0	< 0.2
7/10/2013	4.00	< 5.00	0.21	< 0.010	< 5.50	< 10.0	< 10.0	< 1.0	< 4.0	< 0.2	< 10.0	< 1.0	18.0	1.0	2.0	3.0	1.0	59.0	5.0	10.0	15.0	0.2
10/2/2013	4.00	8.50	0.25	< 0.010	4.13	< 10.0	< 10.0	< 1.0	< 4.0	< 0.2	< 10.0	< 1.0	28.0	< 1.0	< 2.0	2.0	1.0	76.0	< 5.0	< 10.0	15.0	< 0.2
12/2/2013	4.00	8.50	0.25	< 0.010	4.13	< 10.0	< 10.0	< 10.0	< 4.0	< 0.2	< 10.0	< 1.0	28.0	< 1.0	< 2.0	2.0	1.0	76.0	< 5.0	< 10.0	15.0	< 0.2
1/9/2014	4.10	5.50	0.34	0.060	4.54	< 10.0	< 10.0	< 1.0	< 4.0	< 0.2	< 10.0	< 1.0	17.0	< 2.0	< 2.0	4.0	: 1.0	64.0	< 5.0	< 10.0	< 15.0	< 0.2
4/2/2014	7.00	< 5.00	6,78	0.280	1,13	< 10.0	< 10,0	< 1.0	< 4.0	< 0.2	< 10.0	< 1.0	7.0	1.0	< 2.0	4.0	1.0	44.0	< 5,0	< 10.0	< 15.0	< 0.2
1/8/2015	14.00	8.00	2.37	0.280	2.74	< 10.0	< 10.0	< 1.0	< 4.0	< 1.0	< 10.0	< 1.0	15.0	2.0	< 1.0	3.0	1.0	59,0	< 5.0	< 10.0	< 15.0	< 0.2

	Date	BOD	TSS	NH3	NO2	NO3	CNt	CNa	Be	As	Cd	Cr6	Cr3	Cu	Pb	Th —	Ni.	Ag	Zn	Sb	Se	Phen	Hg
		BOD	TSS	NH3	NO2	NO3	CNt	CNa	Ве	As	Cd	Cr6	Cr3	Çu	Pb	Th	Ni	Ag	Zn	Sb	Se	Phen	Hg
	Count	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
#[Detected	13	8	22	10	21	٥	٥	0	0	0	0	1	22	5	1	21	1 .	21	1	3	4	2
	Average	6.13	5.73	1.61	0.124	3.23	10.0	10.0	8.0	4.0	0.3	10.0	1.0	13.9	1.2	2.0	3,0	1.0	58.6	5.0	9.7	15.0	0,2
N	laximum	14.00	8.50	6.78	0.950	7.71	10.0	10.0	10.0	4.0	1.0	10.0	1.0	28.0	2.0	2.0	6.0	1.0	77.0	5.0	11.0	15.0	0.2
	cv	0,5	0.2	1.4	1.7	0,6	0,0	0.0	0.5	0.0	0.9	0.0	0.0	0.5	0.3	0.1	6,0	0.0	0,2	0.0	0.2	0.0	0.0

Bold => mg/L Normal => ug/L