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### MUNICIPAL NPDES PERMIT

#### issued to

Permittee:

The Metropolitan District P.O. Box 800 Hartford, Connecticut 06142-0800 **Location Address:** 

East Hartford WPCF 65 Pitkin Street East Hartford, Connecticut 06108

**Permit ID:** CT0100170

**Design Flow Rate: 12.5 MGD** 

Effective Date: November 1, 2016

**Receiving Stream:** Connecticut River

Permit Expires: October 6, 2021

#### **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 Metropolitan District, ("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 (l)(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 \$3,005.00.

#### **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-Monthly" in the context of any sampling frequency, shall mean once every two months including the months of February, April, June, August, October, and December.
  - "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.
- "Domestic Sewage" means sewage that consists of water and human excretions or other water-borne wastes incidental to the occupancy of a residential building or a non-residential building but not including manufacturing process water, cooling water, wastewater from water softening equipment, commercial laundry wastewater, blowdown from heating or cooling equipment, water from cellar or floor drains or surface water from roofs, paved surfaces or yard drains.
- "Geometric Mean" is the "nth" root of the product of "n" observations.
- "Grab Sample Average" means the arithmetic average of all grab sample analyses.
- "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 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 March, June, September, and December.
- "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.
- "Semi-Annual" in the context of any sampling frequency, shall mean the sample must be collected in the months of June and December.

- "Septage" means any water or material withdrawn from a septic tank which is used to treat domestic sewage.
- "Sewage" means human and animal excretions and all domestic and such manufacturing wastes as may tend to be detrimental to the public health. For purposes of this permit, sewage also includes excessive infiltration and inflow.
- "Sludge" means solid, semi-solid or liquid residue generated from municipal, residential, commercial or industrial wastewater treatment processes exclusive of the treated effluent, including water treatment wastewater sludges.
- "Transported" means trucked or hauled wastewater sludge taken to dedicated receiving facilities at the POTW.
- "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 official MDC holidays.

#### SECTION 3: COMMISSIONER'S DECISION

- (A) The Commissioner of Energy and Environmental Protection ("Commissioner") has issued a final decision and found continuance of the existing system to treat the discharge will protect the waters of the state from pollution. The Commissioner's decision is based on application #201002072 for permit reissuance received on April 9, 2010 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(F) included herein.
- (C) The Permittee shall maintain a system of user charges or dedicated taxes or other fees 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 from the permitted facility beyond any zone of influence shall contain or cause in the receiving stream a visible oil sheen, floating solids, visible discoloration, or foaming.
- (F) No discharge from the permitted facility 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 CBODs 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 Permittee' sludge use or disposal practice. A change in the Permittee' 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 of the Commissioner or designee.
- (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 CBOD<sub>5</sub> 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 and approval 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 or by qualified District staff 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.
- 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 beyond the permitted zone of influence.

### 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 G 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 at the final effluent 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.
  - 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, 12.5% effluent, 6.25% effluent).
    - (b) Connecticut 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 Connecticut River, 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 Connecticut River 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, LC<sub>50</sub> 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 effective date of this permit, the Permittee shall begin reporting to the Department electronically using NetDMR, a web-based tool that allows Permittee 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 effective date of this permit, the Permittee and/or the person authorized to sign the Permittee 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 DEEP 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 effective date 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:

Altn: NetDMR Coordinator
Connecticut Department of Energy and Environmental Protection
Water Permitting and Enforcement Division — 2<sup>nd</sup> 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 toxicity, 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 toxicity, 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)(c) 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.
- (C) 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 Enterococci for DSN 001-1 established in Section 5 of this permit, in accordance with the following:
  - On or before 300 days after the effective date of this permit, the Permittee shall submit for the Commissioner's review and written approval a comprehensive and thorough report which describes the actions to be taken by the Permittee necessary to achieve compliance with the requirements in Table A of this permit for Enterococci. Such report shall include a schedule for implementation of such actions not to exceed 730 days after the effective date of this permit.
  - (2) In accordance with the schedule approved in writing by the Commissioner, but in no event later than 730 days after the effective date of this permit, the Permittee shall perform the actions approved in writing by the Commissioner necessary to comply with the requirements in Table A of this permit for Enterococci. Within fifteen days after completing such actions, the Permittee shall certify to the Commissioner in writing that the actions have been completed as approved by the Commissioner.
- (B) 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.
- (C) Dates. 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.
- (D) 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.

- (E) Notice to Commissioner of changes. 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.
- (F) Submission of documents. 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:

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

October 7, 2014

This permit is hereby issued on

Betsey Wingfield Bureau Chief

Bureau of Water Protection and Land Reuse

# **ATTACHMENT 1**

Tables A through G

## **TABLE A**

Discharge Serial Number (DSN): 001-1 Monitoring Location: 1 Wastewater Description: Final Effluent Monitoring Location Description: Final Effluent In-stream Waste Concentration (IWC): 2% Allocated Zone of Influence (ZOI): 948 cfs FLOW/TIME BASED MONITORING **INSTANTANEOUS** REPORT Minimum MONITORING **FORM** Level **PARAMETER** Maximum Instantaneous Average Sample Sample Sample Sample Analysis Units Limit or See Freq. Monthly Daily Freq. type Type Section 6 Required Limit Limit Range<sup>3</sup> NA Alkalinity mg/l NA NA NR Monthly Grab MOR 25 50 3/Week Daily Composite NA NR NA DMR/MOR Carbonaceous Biochemical Oxygen Demand (5 day) 1, See mg/l remark E Chlorine, Total Residual May 1st through September 30th NA NA NR Grab 0.27 4/ Work Day mg/l Grab DMR/MOR see remark A below. Colonies NR 3/Week NA NA NA see remarks (B) Grab DMR/MOR Fecal coliform May 1st through September 30th4 per100 ml and (C) below Enterococci <sup>5</sup> see remark (E) below Colonies NA NA NR NA 500 3/Week Grab DMR/MOR per100 ml Flow MGD Continuous<sup>2</sup> Average Daily NA NR NΑ DMR/MOR Flow Nitrogen, Ammonia (total as N) mg/l NA Monthly Daily Composite NA NR NA MOR MOR Nitrogen, Nitrate (total as N) NA Daily Composite mg/l Monthly NA NR NA MOR Nitrogen, Nitrite (total as N) mg/I NA Monthly Daily Composite NA NR. NA MOR Nitrogen, Total Kjeldahl NA Monthly Daily Composite NA NR NA mg/l MOR Nitrogen, Total NA Monthly Daily Composite NA NR NA mg/lMOR Nitrogen, Total lbs/day NA Monthly Daily Composite NA NR NΑ 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	mg/l	NA		Monthly	Daily Composite	NA	NR	NA	MOR
Phosphorus, Total	mg/l	NA		Monthly	Daily Composite	NA	NR	NA	DMR/MOR
Solids, Settleable	ml/l	NA	NA	NR	NA		Work Day	Grab	MOR
Solids, Total Suspended <sup>1</sup> , See remark E	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:

- 1 The discharge shall not exceed an average monthly 25 mg/l or a maximum daily 50 mg/l of the average monthly influent CBOD<sub>5</sub> and 30 mg/l and 15% of the average monthly influent suspended solids for permits with year-round limits.
- <sup>2</sup> 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.
- <sup>3</sup> The instantaneous limits in this column are maximum limits.
- <sup>4</sup> During the period beginning at the effective date of this permit and lasting until implementation of Enterococci monitoring at the Water Pollution control facility, the discharge shall not exceed and shall otherwise conform to the specific terms and conditions listed.
- <sup>5</sup> During the period beginning after the implementation of Enterococci, but no later than 730 days after the effective date of the permit, lasting until expiration, the discharge shall also not exceed and shall otherwise conform to the specific terms and conditions listed.

#### 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 sodium hypochlorite 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 0.27 mg/l. The analytical results shall be reported on the MOR for the months of April and October.
- (B) The geometric mean of the Fecal coliform 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 200 per 100 milliliters.
- (C) The geometric mean of the Fecal coliform bacteria values for the effluent samples collected in a period of a calendar week during the period from May 1st through September 30th shall not exceed 400 per 100 milliliters
- (D) The geometric mean of the Enterococci bacteria values for the effluent samples collected in a period of a calendar month shall not exceed 35 per 100 milliliters.
- (E) The Average Weekly discharge Limitation for CBOD<sub>5</sub> and Total Suspended Solids shall be 1.5 times the Average Monthly Limit listed above.

## TABLE B

Discharge Serial Number (DSN): 001-1		Monitor	ing Location: K	<u> </u>	
Wastewater Description: Final Effluent					
Monitoring Location Description: Final Effluent					
Allocated Zone of Influence (ZOI): 948 cfs	In-stream Wast	e Concentration	(IWC): 2 %		
		FLOW/TIMI	REPORT FORM		
PARAMETER	Units	Average Monthly Minimum	Sample Freq.	Sample type	
Carbonaceous Biochemical Oxygen Demand (5 day) Percent Removal <sup>1</sup>	% of Influent	85	3/Week	Calculated <sup>2</sup>	DMR/MOR
Solids, Total Suspended Percent Removal <sup>I</sup>	% of Influent	85	3/Week	Calculated <sup>2</sup>	DMR/MOR

## TABLE B - CONDITIONS

### Footnotes:

<sup>&</sup>lt;sup>1</sup> The discharge shall be less than or equal to 15% of the average monthly influent BOD<sub>5</sub> and total suspended solids (Table E, Monitoring Location G).

 $<sup>^2</sup>$  Calculated based on the average monthly results described in Table A. Removal efficiency =((Inf. CBOD or TSS)) - (Eff. CBOD or TSS)) / (Inf. CBOD or TSS)) X 100

## **TABLE C**

					·	
Discharge Serial Number (DSN): 001-1			donitoring Location:	<u> </u>		
Wastewater Description: Final Effluent						
Monitoring Location Description: Final E	ffluent post de	echlorination				
Allocated Zone of Influence (ZOI): 948 cfs			In-stream Was	ste Concentration (IV	VC): 2%	
PARAMETER	Units	Maximum Daily Limit	Sampling Frequency	Sample Type	Reporting form	Minimum Level Analysis Sec Section 6
Aluminum, Total	mg/l		Quarterly	Daily Composite	ATMR/DMR	*
Antimony, Total	mg/l		Quarterly	Daily Composite	ATMR/DMR	*
NOAEL Static 48Hr Acute D. Pulex 1	% survival		Quarterly	Daily Composite	ATMR/DMR	
NOAEL Static 48Hr Acute Pimephales 1	% survival		Quarterly	Daily Composite	ATMR/DMR	
Arsenic, Total	, mg/l	77	Quarterly	Daily Composite	ATMR/DMR	*
Beryllium, Total	mg/l		Quarterly	Daily Composite	ATMR/DMR	*
BOD₅	mg/l		Quarterly	Daily Composite	ATMR/DMR	_
Cadmium, Total	mg/l		Quarterly	Daily Composite	ATMR/DMR	*
Chromium, Hexavalent	mg/l		Quarterly	Daily Composite	ATMR/DMR	*
Chromium, Total	mg/l		Quarterly	Daily Composite	ATMR/DMR	*
Chlorine, Total Residual	mg/l		Quarterly	Daily Composite	ATMR/DMR	*
Copper, Total	mg/l		Quarterly	Daily Composite	ATMR/DMR	*
Cyanide, Amenable	mg/l		Quarterly	Daily Composite	ATMR/DMR	
Cyanide, Total	mg/l		Quarterly	Daily Composite	ATMR/DMR	*
Iron, Total	mg/l		Quarterly	Daily Composite	ATMR/DMR	*
Lead, Total	mg/l		Quarterly	Daily Composite	ATMR/DMR	*
Mercury, Total	mg/l		Quarterly	Daily Composite	ATMR/DMR	*
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)	mg/l		Quarterly	Daily Composite	ATMR/DMR	
Phosphorus, Total	mg/l		Quarterly	Daily Composite	ATMR/DMR	*
Phenols, Total	mg/l		Quarterly	Daily Composite	ATMR/DMR	
Selenium, Total	mg/l		Quarterly	Daily Composite	ATMR/DMR	*
Silver, Total	mg/l		Quarterly	Daily Composite	ATMR/DMR	*
Suspended Solids, Total	mg/l		Quarterly	Daily Composite	ATMR/DMR	
Thallium, Total	mg/l		Quarterly	Daily Composite	ATMR/DMR	*
Zinc, Total	mg/[		Quarterly	Daily Composite	ATMR/DMR	*

TABLE C - CONDITIONS

Remarks: 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	Monitoring Lo	Monitoring Location: N								
Wastewater Description: Activate	ed Sludge									
Monitoring Location Description:	Each Aeration Unit Effluent									
-	REPORTING FORMAT	FORMAT INSTANTANEOUS MONITORING								
PARAMETER		Sample Frequency	Sample Type	FORM						
Oxygen, Dissolved	High & low for each WorkDay	4/WorkDay	Grab	MOR						
Sludge Volume Index	WorkDay	WorkDay	Grab	MOR						
Mixed Liquor Suspended Solids	WorkDay	WorkDay	Grab	MOR						

## TABLE E

Discharge Serial Number: 001-1			Monitoring	Monitoring Location: G								
Wastewater Description: Sanitary Sew	age		<u> </u>									
Monitoring Location Description: Influ	ent after pr	eliminary treatment										
PARAMETER	Units	DMR REPORTING FORMAT		IME BASED ITORING	INSTANTA MONITO		REPORTING FORM					
(ARCHIELE)	Canas		Sample Frequency	Sample Type	Sample Frequency	Sample Type						
Carbonaceous 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					
pH	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	NĄ	Work Day	Grab	MOR					

## TABLE F

Discharge Serial Number: 001-1			Monito	Monitoring Location: P								
Wastewater Description: Primary Eff	fluent			·								
Monitoring Location Description: Print	mary Settlin	g Tank Effluent										
PARAMETER	Units	REPORTING FORMAT		OW BASED FORING	INSTANT MONIT	REPORTING FORM						
			Sample Frequency	Sample Type	Sample Frequency	Sample type						
Alkalinity, Total	mg/l		NA	NA	Monthly	Grab	MOR					
Carbonaceous Biochemical Oxygen Demand (5 day)	mg/l	Monthly average	Weekly	Composite	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 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: SL Wastewater Description: Primary and Waste Activated Sludge Monitoring Location Description: Primary Sludge Pumps and Waste Activated Sludge Pumps REPORTING FORM INSTANTANEOUS MONITORING PARAMETER Units Grab Sample Freq. Bi-monthly DMR Arsenic, Total mg/kg Bi-monthly **DMR** Beryllium, Total mg/kg Bi-monthly DMR Cadmium, Total mg/kg Bi-monthly DMR Chromium, Total mg/kg Copper, Total Bi-monthly DMR. mg/kg Bi-monthly DMR Lead, Total mg/kg Mercury, Total Bi-monthly DMR mg/kg Bi-monthly DMR Nickel, Total mg/kg Polychlorinated Biphenyls Bi-monthly DMR mg/kg Solids, Fixed DMR % Bi-monthly % DMR Solids, Total Bi-monthly DMR Solids, Volatile % Bi-monthly DMR Zinc, Total mg/kg Bi-monthly

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

## **ATTACHMENT 2**

## MONTHLY OPERATING REPORT FORM

## DATA TRACKING AND TECHNICAL FACT SHEET

Permittee: Metropolitan District Commission

PERMIT, ADDRESS, AND FACILITY DATA

PERMIT #: CT0100170	<b>APPLICATION #: 201002072</b>	FACILITY ID.	<u>043-001</u>
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Mailing Address:	Location Address:
Street: P.O. Box 800	Street: 65 Pitkin Street
City: Hartford ST: CT Zip: 06142	City: East Hartford ST: CT Zip: 06108
Contact Name: Thomas A. Tyler	Contact Name: James Miller
Phone No.: (860) 278-7850 ext. 3511	Phone No.: (860) 278-7850 ext.3483
	DMR Contact email address: jmiller@themdc.com
PERMIT INFORMATION DURATION 5 YEAR X 10 YEAR	30 YEAR
TYPE New Reissuance X Mod	lification
CATEGORIZATION POINT (X) NON-POINT	
NPDES (X) PRETREAT () GROUND WA	ATER(UIC) ( ) GROUND WATER (OTHER) ( )
NPDES MAJOR(MA) X NPDES SIGNIFICANT MINOR or PRETREANPLES or PRETREATMENT MINOR (MI)	
COMPLIANCE SCHEDULE YES X	NO
POLLUTION PREVENTION TREATMENT REC	QUIREMENT_
WATER QUALITY REQUIREMENT X OTHER	<del></del> .
OWNERSHIP CODE Private Federal State Municipal (town of	only) X Other public
DEP STAFF ENGINEER Catharine Chu DAT	FE DRAFTED: July 8, 2016
PERMIT FEES	
Discharge Code DSN Number Annual Fee	
111000f 001-0 \$3,005.00	
FOR NPDES DISCHARGES	

Drainage Basin Code: 4000

Water Quality Classification Goal: SB

Segment: Connecticut River -03

## NATURE OF BUSINESS GENERATING DISCHARGE

Municipal Sanitary Sewage Treatment

## PROCESS AND TREATMENT DESCRIPTION (by DSN)

001-1 Secondary biological treatment and seasonal chlorination with dechlorination

RESOURCES USED TO DRAFT PERMIT

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

#### **GENERAL COMMENTS**

The Metropolitan District Commission (MDC) operates a municipal water pollution control facility ("the facility") located at 65 Pitkin Street, East Hartford, CT 06108. The facility is designed to treat and discharge up to 12.5 million gallons a day of effluent into the Connecticut River. The facility currently uses secondary treatment with chlorine disinfection to treat effluent before being discharged. Pursuant to Conn. Gen. Stat. § 22a-430, the Department of Energy and Environmental Protection has issued the MDC a permit for the discharge from this facility. The MDC has submitted an application to renew its permit. The Department has made a tentative determination to approve MDC'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. enterococci), the addition of chronic aquatic toxicity monitoring to meet CT WQS, 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. Fecal coliform will no longer be tested following implementation of enterococci testing since the discharge has no impact on shellfish beds.

#### 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

<u>Toxics Control</u> (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.

WATER QUALITY LIMIT CALCULATIONS

See attached

## Effluent Chemistry: **EAST HARTFORD WPCF**

as of Thursday, March 24, 2016

Design Flow 12.5 MGD

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

Receiving Waterbody: Connecticut River

Allocated ZOI: 948 cfs
Database IWC: 2%

Date	BOD	TSS	NH3	NO2	NO3		CNt	CNa	Ве	As	Cd	Cr6	Cr3	Cu	Pb	Th	Νi	Ag	Zn	Sb	Se	Phen	Hg
3/7/2011	35,00	38,00	3,57	0.376	2.22	< '	10.0	< 10.0	< 10.0	< 5.0	< 0,5	< 10.0	< 5,0	18.0	17.0	< 10.0	19.0	2.0	58.0	6.0	< 5.0	< 50.0	< 0.:
6/6/2011	4.00	3.00	9.10	0.123	0.25	<	10.0	< 10.0	< 10.0	< 1.0	< 0.5	< 10.0	< 5.0	6,3	3.0	< 10.0	< 5.0 <	1.0	48.8	< 5.0	< 1.0	< 50.0	< 0.
9/22/2011	1.00	< 1.00	0.15	0.267	2.08	<	10.0	< 10.0	< 10,0	< 1.0	< 0.5	< 10.0	< 5.0	5.7	17.5	< 10.0	< 5.0 <	1.0	41.0	< 5.0	< 1.0	< 50.0	< 0.
12/7/2011	5.00	3.00	0,37	< 0.050	3,57	< '	10.0	< 10.0	< 10.0	< 1.0	< 0.5	< 10.0	< 5.0	9.0	3.0	< 10,0	< 5,0 <	< 1.0	49,0	< 5.0	< 1.0	< 5.0	< 0.
3/9/2012	8.00	7.00	5.05	0.669	2.25	<	10.0	< 10.0	< 10.0	< 5.0	< 0.5	< 10.0	< 5.0	12.2	5.0	< 10.0	< 5.0 <	2.0	57.1	< 10.0	< 5.0	< 50.0	< 0.
6/4/2012	6.00	2.00	0.11	0.068	3,53	۲ .	10.0	< 10.0	< 10.0	< 5.0	< 0.5	< 10.0	< 5.0	11.3	5.0	< 10.0	< 5.0	2.0	55.0	< 10.0	< 5.0	< 50.0	< 0.
9/5/2012	18.00	1.00	5.64	< 0.050	< 0.05	< '	10.0	< 10.0	< 10.0	< 5.0	< 0.5	< 10.0	< 5.0	8.4	5.0	< 10.0	< 5.0 <	2.0	61.8	< 10.0	< 5.0	< 50.0	< 0.
12/3/2012	9.00	11.30	9.97	0.061	2,16	<	10.0	< 10.0	< 10.0	< 5.0	< 0.5	< 10.0	< 5.0	12.0	5.0	< 10.0	< 5.0	2.0	56.5	< 10.0	< 5.0	< 50.0	< 0.
3/4/2013	52.00	12.00	5.93	1.960	< 0.05	<	10.0	< 10.0	< 10.0	< 5.0	< 0.5	< 10.0	< 5,0	< 5.0	5,0	< 10.0	< 5.0	2.0	54.1	< 10.0	< 5.0	< 50.0	< 0.
6/3/2013	6.00	4,00	13.60	0.267	0.12	<	10.0	< 10.0	< 1.0	< 5.0	< 0.5	< 10.0	< 5.0	11.9	5.0	< 10.0	< 5.0 <	2,0	61,6	< 10.0	< 5.0	< 50.0	< 0.
9/18/2013	7.00	< 4.00	9.53	0.650	2.17	<	10.0	< . 10.0	< 1.0	< 5.0	< 0.5	< 10.0	< 5.0	14.2	5.0	< 10.0	9.9	2.0	58.9	< 10.0	< 5.0	< 60.0	< 0
12/2/2013	30.00	8.80	6.98	0,385	0.66	<	10.0	< 10.0	< 1.0	< 5.0	< 0.5	< 10.0	< 5.0	17.1	5.0	< 10.0	9.6	2.0	61.0	< 10.0	< 5.0	< 50.0	< 0
3/3/2014	15.00	4.60	6.70	0.748	3.43	<	10.0	< 10.0	< 1.0	< 5.0	< 0.5	< 10.0	< 5.0	21.0	5.0	< 10.0	< 5.0 •	< 2.0	61.0	< 10.0	< 5.0	< 50.0	< 0
6/2/2014	27,00	5,20	10,50	0,503	< 0.05	<	10.0	< 10.0	< 1.0	< 5.0	< 0.5	< 10.0	< 5.0	5,5	5,0	< 10.0	< 5.0 <	< 2.0	103.0	< 10.0	< 5.0	< 50.0	< 0.
9/8/2014	4.00	< 10.00	2.51	0.467	3.04	<	10.0	< 10.0	< 1.0	< 5.0	< 0.5	< 10.0	< 5.0	7.4	5.0	< 10.0	< 5.0 <	< 2.0	56.2	< 10,0	< 5.0	< 50.0	< 0.
12/7/2014	9.00	4.80	0.31	0,352	5.76	<	10.0	< 10.0	< 1.0	< 5.0	< 0.5	< 10,0	< 5,0	13,8	< 5,0	< 10.0	< 5.0	< 2.0	46.9	< 10.0	< 5.0	< 50.0	< 0.
3/2/2015	3.00	< 4.00	0.34	0.581	4,72	<	10.0	< 10.0	< 1.0	< 5.0	< 0.5	< 10.0	< 5.0	9.8	5.0	< 10.0	45.1	< 2.0	53.0	< 10.0	< 5.0	50.0	< 0
6/9/2015	4.00	6.00	0.57	0.050	3.37	<	10.0	< 10.0	< 1.0	< 5.0	< 0.5	< 10.0	< 5.0	7.0	< 5.0	< 10.0	< 5.0 <	< 2.0	34.0	< 10.0	< 5.0	< 15.0	< 0.
	BOD	TSS	инз	NO2	NO3	3	CNt	CNa	Вe	As	Cd	<b>01</b> 0	Cr3	Cu	Pb	Th	Ni	Ag	Zn	Sb	Se	Phen	H
Count	18	18	18	18	18	3	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	
# Detected	15	14	18	16	15		0	0	0	0	٥	0	0	17	16	0	4	0	18	1	0	1	
Average	13.50	7.21	5.05	0.424	2.19	)	10.0	10.0	<b>5</b> .5	4.3	0.5	10.0	5,0	10.9	6,1	10.0	8.5	1.8	56.5	8.9	4,3	46.1	(
Maximum	52,00	38,00	13.60	1.960	5.76	\$	10.0	10.0	10.0	5.0	0.5	10.0	5.0	21,0	17.5	10.0	45.1	2.0	103.0	10.0	5.0	60.0	C
cv	1.0	1.2	0.9	1.1	0.8	3	0.0	0.0	0,8	0.4	0,0	0,0	0,0	0.4	0.7	0.0	1.1	0.2	0,2	0.2	0.4	0.3	(
Bold => mg/L	Norm	al => ug	1/L														•						
Doig - ingle																							

	A	·B	C	D	Е	F	G ]						
1	WQB LIMITS:												
2	,,, &2 =11.112.												
3	Discharger:	East Hart WPC	CF			y: ChuCa, 3/28/	2016, 12:27						
4	Receiving Water:			CURRENT COM	NDITIONS		į						
5	Design Flow:			Avg. Flow:		MGD							
6	Allocated ZOI:			Max. Flow:		MGD							
7	·												
8	WQB Limits - Freshwater												
9	WQB Limits - Fresny	water 				<del>-</del>							
10			AML	MDL	AML	MDL	LIMIT?						
11	Compound	C.V.	ug/l	ug/l	kg/d	kg/d	ML?						
12				4 25-102	0.067.00	0.000.00							
·—	Aluminum		4.35E+03	4.35E+03	2.06E+02	2.06E+02 3.20E+03							
	Ammonia	0.9	2.80E+04 8.88E+03	6.76E+04 1.18E+04	1.33E+03 4.20E+02	5.57E+02	}						
	Antimony Arsenic	0.4	2.10E-02	3.52E-02	9.94E-04	1.67E-03	ML						
	Beryllium	0.4	1.39E+02	3.17E+02	6.56E+00	1.50E+01	1111						
	Cadmium	0.0	6.25E+00	6.25E+00	2.96E-01	2.96E-01							
	Chlorine	0.6	3.07E+02	6.16E+02	1.45E+01	2.92E+01							
	Chromium (hex)	0.0	5.50E+02	5.50E+02	2.61E+01	2.61E+01							
	Chromium (tri)	0.0	2.10E+03	2.10E+03	9.95E+01	9.95E+01							
	Copper	0.4	1.55E+02	2.60E+02	7.34E+00	1.23E+01							
23	Cyanide (amen)	0.0	5.00E+01	5.00E+01	2.37E+00	2.37E+00	ML						
24	Lead	0.7	4.76E+01	1.03E+02	2.25E+00	4.86E+00	1						
25	Mercury	0.0	2.55E+00	2.55E+00	1.21E-01	1.21E-01							
	Nickel	1.1	2.89E+02	7.56E+02	1.37E+01	3.58E+01	·						
2.7	Phenol	0.3	7.23E+03	1.08E+04	3.42E+02	5.13E+02	17						
	Selenium	0.4	2.19E+02	3.66E+02	1.03E+01	1.73E+01							
	Silver	0.2	3.85E+01	5.10E+01	1.82E+00	2.42E+00							
	Thallium	0.0	2.40E+01	2.40E+01	1.14E+00	1.14E+00	100						
31	Zinc	0.2	2.45E+03	3.25 <u>E</u> +03	1.16E+02	1.54E+02	!						
36	Current Conditions												
37	Current Conditions		AMC	MMĈ	AMM	MMM	•						
38	Compound	# DETECTS	ug/l	ug/l	kg/d	kg/d							
39	Compound	" BEIEGIG	<u> </u>		113.4		-						
	Aluminum			* .	0.00E+00	0.00E+00							
ĺ	Ammonia	18	5.05E+03	1.36E+04	1.04E+02	4.22E+02							
	Antimony	1	8.90E+00	1.00E+02	1.83E-01	3.11E+00	į						
	Arsenic	0	4.30E+00	5.00E+00	8.82E-02	1.55E-01	-						
	Beryllium	0	5.50E+00	1.00E+02	1.13E-01	3.11E+00							
	Cadmium	0	5.00E-01	5.00E+00	1.03E-02	1.55E-01							
46	Chlorine	1.3/19/19/19/19/19/19/19/19/19/19/19/19/19/		THAN BEEN	HARASHAR.	SHANNAK K	į.						
47	Chromium (hex)	0	1.00E+01	1.00E+02	2.05E-01	3.11E+00	!						
	Chromium (tri)	. 0	5.00E+00	5.00E+00	1.03E-01	1.55E-01							
		17	1.09E+01	2.10E+01	2.24E-01	6.52E-01							
	Cyanide (amen)	0	1.00E+01	1.00E+02	2.05E-01	3.11E+00							
	Lead	16	6.10E+00	1.75E+01	1.25E-01	5.44E-01							
	Mercury	0	2.00E-01	2.00E-01	4.10E-03	6.21E-03							
	Nickel Phenol	4	8.50E+00	4.51E+01	1.74E-01 9.46E-01	1.40E+00 1.86E+00							
	i Henoi	1	4.61E+01 4.30E+00	6.00E+01 5.00E+00	9.46E-01 8.82E-02	1.86E+00 1.55E-01							
_	Selenium Silver	0	1.80E+00	2.00E+00	3.69E-02	6.21E-02							
	Thallium	0	1.00E+01	1.00E+01	2.05E-01	3.11E-01							
	Zinc	18	5.65E+01	1.03E+02	1.16E+00	3.20E+00							
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ver. 006xlsFresh last mod: 3/11/11

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60	Final WQB Limits							·		
61		AML (kg/d)	MDL (kg/d)	•						
62			<del></del>							
63										
64										
65	Interim WQB Limits									
66		AML (kg/d)	MDL (kg/d)	•						
67			<u></u>							
68										
69		•								
70	Minimum Levels									
71	_ <del></del> _	<del></del> _	-	•						
72	Arsenic	0.005 mg/L								
73	Cyanide (amen)	0.010 mg/L								
74										
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(Facility)

Facility ID:

Permit expiration date:

Chief Plant Operator:

Sampl	e mont	th/year:	•							for permit											Phone:					
	Da	aily Flow		Prim	ary Slu	dge	Aera	ation Ta	nk #1	,	Aeratio	n Tank	#2		Aeratio	n Tank :	#3		Return	n sludge	Waste	Was			OD (5-da	
- }		=	$\perp$	1		Π.			hìgh	low		SVI	high	low	MLSS		high	low	A	%solids	sludge	accept	ed	lnf.	Prim. Eff.	Final
Units	Max.	Min. To	tal 1		% solids	wt.	MLSS	SVI	D.O. mg/		MLSS	SVI	D.O.	D.O.	MLSS	501	mg		%TIOW	%solids	lbs	septic gai	indust gal		j ⊨π. j mg/l	Eff.
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Sugnal	nded Solid	le	Settleable	Turbidib		hlorine	Ch	lorine	Chlorine	Fecal	Enteroccoci	Ammonia			$\Box$	Nitrite		Nitrate			_	TKN			Total N		Total N
Inf.	Prim.	Final	Solids		ı	<u>Do</u> se		sidual	Residual	Coliform	Lineroccool	Inf.	Prim.	Final	Inf.	Prim.	Final	Inf.	Prim.	Finai	Inf.	Prim.	Fina!	Inf.	Prim.	Final	Totalii
	Eff.	Eff.	Eff.	Eff.			high	low	average			1	Eff.	Eff.		Eff.	Eff.		Eff.	Eff.		Eff.	Eff.		Eff.	Eff.	Eff.
	mg/l		ml/l	NTU	lbs	mg/l	mg/l		mg/l	#/100 ml	#/1 <u>00</u> ml		mg/l			mg/I			mg/l			mg/l			mg/l		lb/d
			work	work		Daily	4/	work	4/work	'	Ì	1	Mont	hly	)	Month	y '	М	lonthly	′ Ì		Monthly	, I		Monthly	/ j	monthly
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### Page 3 of MOR for permit #

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D.O.					Final		Inf.	Prim.	Final					
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mg/l	S.U.			mg/l		lb/d		mg/l		°ا				Please return forms to:
4 per	work	day	ı	/Ionth	-	April -		Monthly	1	work	day			DEEP - Water Bureau
workday			Apr	il-Octo	ber	October		_				<u> </u>	_	ATTN: Municipal Wastewater Monitoring Coordinator
			<u> </u>							ļ				Municipal Facilities
	_									1				79 Elm Street
														Hartford, CT 06106-5127
			l					<u> </u>						
			Γ											Statement of Acknowledgement
														1
-														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
	]		<u> </u>			<u></u>					ļ		ļ	personnel properly gather and evaluate the
			<u> </u>							<u> </u>	ļ.,			information submitted. Based on my inquiry
	<u> </u>		1											of the person or persons who manage the
			<u> </u>					ļ				ļ		system, or those persons directly responsible
L	ļ. <u>.</u>											<u> </u>	ļ	for gathering the information, the information
	<u> </u>		<u> </u>											submitted is, to the best of my knowledge and
			<u> </u>	<u>L</u> .	<u> </u>					<u> </u>	<u> </u>			belief, true, accurate, and complete. I am aware
			<u> </u>					ļ			<u> </u>			that there are significant penalties for submitting
												<u> </u>	ļ <u>-</u>	false information including the possibility of fine
			ļ <u>.</u>					<u> </u>						and imprisonment for knowing violations.
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