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Affirmative Action/Equal Opportunity Employer

MUNICIPAL NPDES PERMIT

issued to

Permittee:

The Metropolitan District
P.O. Box 800
Hartford, Connecticut 06142-0800

Location Address:

Hartford WPCF
240 Brainard Road
Hartford, Connecticut 06114

Facility ID: 064-001

Permit ID: CT0100251

Permit Expires: September 28, 2020

Receiving Stream: Connecticut River

Design Flow Rate: 60 MGD

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 which are 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
- (l) 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.
- (l) 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 \$ 3320.00.

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 June, except in the case of Chronic Toxicity when the samples must be collected in the months 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 .

"**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 "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 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.

"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 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 #201002851 for permit reissuance received on April 27, 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 11(H) 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 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 percent of the average monthly influent concentration for CBOD₅ and Total Suspended Solids. The 15 percent provision will be calculated using data from days where the facility experienced flows below an instantaneous flow rate of 90 MGD and stated as such on the DMR and MOR.
- (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's sludge use or disposal practice. A change in the Permittee's 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 CBOD₅ or TSS loading into the POTW for the previous 180 days exceeds 90% of the design load 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 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 in accordance with the manufacturers' 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 from this permitted source 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 ZOI for thermal impact.

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. **For wet weather storage basin and wet weather disinfection basin bacterial examination samples, a chlorine residual test must be performed 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, Table 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>	<u>Minimum Level</u>
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.
- (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, 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 Sections 5 and 6, 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 by the Department by the 15th day of the month following the month in which samples are collected. Until the Permittee begins reporting to the Department electronically using NetDMR, paper reports are to be submitted to:

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 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 the effective date 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 the 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:

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 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 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: COMBINED SEWER OVERFLOWS

- (A) The Permittee shall continue to maintain the following Best Management Practices (BMPs) to reduce the impact of existing CSO's on the receiving waters. Detailed records of BMP activities shall be kept.
- (1) Within **30 days** of the effective date of the permit the Permittee shall identify an operations and maintenance manager to be in responsible charge of the wastewater collection system and serve as the contact person for department personnel regarding combined sewer discharges. Within ten days after retaining anyone other than the one originally identified, the Permittee shall notify the Commissioner in writing of the identity of such other operations and maintenance manager.
 - (2) The Permittee shall use, to the maximum extent practicable, available sewerage system transportation capabilities for the conveyance of combined sewage to treatment facilities.
 - (3) The Permittee is authorized to discharge combined sewage flows from combined sewer overflow outfalls listed in Attachment 3 in response to wet weather flow, i.e. rainfall or snowmelt conditions, when total available transportation, treatment and storage capabilities are exceeded. Any other discharge from the outfalls listed in Attachment 3 constitutes a bypass and is subject to the requirements of Section 8 of this permit.
 - (4) The locations of outfalls and regulators listed in Attachment 3 are taken from Department records. Any information on the locations of any outfalls and regulators in addition to or in conflict with the information in Attachment 3 shall be submitted to the Commissioner within 30 days of the date of effective date of this permit or the date the Permittee becomes aware of such information, whichever is earlier.
 - (5) When the WWTF influent flows exceed 90 MGD in response to wet weather flow, i.e. rainfall or snowmelt conditions, the Permittee is authorized to treat only those flows above 90 MGD through the equivalent of primary treatment and seasonal disinfection and then may discharge them through outfall serial number 001-1.
 - (6) The discharge from CSO's, shall not contain septage or holding tank waste.
 - (7) Discharges from CSO's, including outfall serial number 001-1, shall not cause violations of State Water Quality Standards.
 - (8) Every calendar year, **on or before February 15th**, the Permittee shall submit a report on a form and in a manner prescribed by the Commissioner including the results of all monitoring from the previous calendar year for treated CSO discharges to outfall serial number 001-1, and the following information:
 - (a) the date and amount of each precipitation event causing treated CSO discharges;
 - (b) the date, duration, estimated quality and volume for each treated CSO discharge event to outfall serial number 001-1 and each untreated CSO discharge event;
 - (9) On or before **December 31, 2015**, the Permittee shall submit a list of all historical CSO structures in the system that were sealed including name/designation, location, size of structure, their receiving waters, and date of sealing;
 - (10) The sewage system shall be inspected and maintained such that deposition of solids and/or other obstructions do not cause restrictions in flow resulting in unnecessary wet weather overflows and to ensure that dry weather discharges are not occurring.
 - (11) The Permittee shall reduce excessive infiltration/inflow to the sewer system.
 - (12) The Permittee shall review its existing Sewer Use Ordinance, to ensure the language required under Section 4 of this permit has been incorporated. A copy of ordinance shall be submitted to the Department for verification. If the ordinance is revised, a copy of the ordinance must be submitted to the Department within **60 days** from the effective date of the change for verification, review and approval. The Sewer Use Ordinance shall:
 - (a) prohibit the construction of new combined sewers except in cases where repair or replacement of the existing system is approved in writing by the Commissioner, and
 - (b) prohibit the introduction of new inflow sources to the existing system.

- (13) Semi-annual CSO inspection forms for all CSO structures/regulators, CSO pump station regulators or bypasses and tidegates, which also verify the existence of identification signs for all visible combined sewer outfall structures as required by the Commissioner.

Within 365 days of the effective date of this permit, identification signs shall be located at or near the visible combined sewer outfall structures so that they are easily readable by the public. These signs shall be a minimum of 12 x 18 inches in size, with white lettering against a green background, and shall contain the following information and image:

(PERMITTEE NAME)

WET WEATHER SEWAGE
DISCHARGE OUTFALL (discharge serial number)



Anyone observing a discharge from this outfall during dry weather conditions should call and report it to the Permittee at 860-278-7850 x3600, and to the Department of Energy and Environmental Protection at (860) 424-3704 or 424-3338.

- (B) 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.
- (C) 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:

CSO Coordinator
Department of Energy and Environmental Protection
Bureau of Water Protection and Land Reuse, Planning and Standards Division
Municipal Facilities Section
79 Elm Street
Hartford, Connecticut 06106-5127

- (D) Right-to-know Untreated CSO Discharge Reporting

- (1) Initial CSO Discharge E-Mail Report

The Permittee shall notify the Department of Energy and Environmental Protection, Bureau of Water Protection and Land Reuse, Planning and Standards Division, Municipal Facilities Section (DEEP) **within 2 hours** of the Permittee learning of an untreated combined sewer overflow via e-mail to the following e-mails: deep.cso@ct.gov and ivonne.hall@ct.gov utilizing the e-mail format below. If e-mail is unavailable, then the Permittee shall notify DEEP via telephone during normal business hours (8:30 a.m. to 4:30 p.m. Monday through Friday) at (860) 424-3704 or after hours to DEEP Emergency Response Unit at (860) 424-3338.

The initial e-mail report shall contain:

- (a) the name or designator of regulator location;
(b) the date and time of initiation;

- (c) the names of the surface water bodies potentially impacted by the discharge;

E-mail format:

Report of CSO activation: Regulator (NAME OR DESIGNATION) located in (TOWN/CITY) activated on (DATE) at approximately (TIME). The following are impacted by the discharge: (WATERBODY NAMES).
(YOUR NAME & PHONE)

(2) Follow-Up Untreated CSO Discharge Written Report

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 via email to deep.cso@ct.gov and ivonne.hall@ct.gov or at the address below **within five days** of each occurrence of a combined sewer overflow of untreated sewage ending.

The follow-up written report shall contain:

- (a) the amount of precipitation;
- (b) an estimation of the duration, volume and quality of the discharge; and
- (c) the names of the surface water bodies impacted by the discharge.

Contact addresses:

State of 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

SECTION 10: REGIONAL MUNICIPAL SLUDGE INCINERATOR FACILITIES

- (A) On or before 90 days after the effective date of this permit, the Permittee shall submit to the Commissioner for review and approval either: (i) verification that the previously submitted and approved wastewater sludge screening, monitoring and reporting protocol for acceptance of wastewater sludges generated from outside sources that will be transported to the Permittee POTW for further processing and disposal by means of incineration has not changed or (ii) the new protocol. Such protocol shall address and include, at a minimum, the following elements:
- (1) All Out of State Municipal POTW Sewage Sludge Generators and All Out of State Privately Owned Domestic Sewage Sludge Generators
 - (a) The Permittee shall monitor or cause each generator to monitor the pollutants specified in Table G of this permit at a frequency no less than quarterly. These results shall be included in the annual report described in subparagraph 3.d. below. In the event of an infrequent delivery to the POTW, the generator shall submit monitoring results for all the pollutants listed in Table G from a representative sludge sample generated and collected within the previous three months.
 - (b) Each out of state generator must be analyzed by the Permittee for all the pollutants listed in Table G prior to acceptance at the POTW. The Permittee shall determine that each such source is compatible with all other wastewater sludges accepted for incineration.
 - (c) Each out of state generator shall provide a description of the domestic, commercial and industrial components generating the biological sludge.
 - (2) All (In-state or Out-of-State) Commercial and Industrial (Non-Domestic) Sludges
 - (a) Prior to acceptance of any non-domestic wastewater sludge for incineration, the Permittee shall, as applicable, require the generator of such sludge to: (i) submit to the POTW a copy of its current active individual wastewater discharge permit issued by DEEP under section 22a-430 of the Connecticut General Statutes (CGS); (ii) if eligible under DEEP's general permit program (section 22a-430b CGS), submit to the POTW a copy of that permit and, if required, the associated registration; or (iii) submit to the POTW a copy of any pertinent emergency or temporary authorization issued by the Commissioner pursuant to section 22a-6k CGS.
 - (3) Permittee Actions

- (a) The Permittee shall conduct at its facility monthly monitoring of all the pollutants listed in Table G on a representative sample of dewatered sludge taken prior to incineration.
- (b) The Permittee shall conduct annual monitoring of all the pollutants listed in Table G for each out of state municipal POTW and private sewage sludge generator accepted for incineration.
- (c) The Permittee shall include in its Monthly Operating Report (MOR) a list of all municipal, private and commercial/industrial sludge sources and the quantity of sludge accepted from each source.
- (d) Beginning April 15th of the second year after approval of this protocol and each year after, the Permittee shall submit to the Commissioner an annual report for the previous calendar year which will include the following:
 - (i) A statement certifying that all new out of state generators have been screened for acceptance in accordance with the approved protocol.
 - (ii) A statement certifying that the Permittee has monitored or caused the generator of all out of state municipal POTW sewage sludge and privately owned domestic sewage sludge to monitor its wastewater sludge in accordance with paragraph (1) (a).
 - (iii) A statement certifying that all generators of commercial and industrial (non-domestic) wastewater sludge accepted for incineration have complied with the requirements of paragraph (2) (a).
 - (iv) A copy of the Permittee's most current annual 40CFR 503 report.
 - (v) The individuals responsible for submitting the report shall certify in writing the following: "I certify that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete."

SECTION 11: COMPLIANCE SCHEDULES

(A) CSO Monitoring Plan

Within **180 days** of the effective date of the permit, the Permittee shall submit to the Commissioner in writing a plan to monitor combined sewer discharge(s) at all CSO structures or combined sewer outfalls within the permitted system with a schedule to implement the monitoring plan within one year of DEEP approval.

(B) Annual CSO Monitoring Report

After approval of a CSO Monitoring Plan, annually, on or before February 15th, the Permittee shall submit an Annual CSO Monitoring Report on a form and in a manner prescribed by the Commissioner, including the results of all monitoring from the previous calendar year for each combined sewer outfall.

The Annual CSO Monitoring Report shall include the following information:

- (1) a list of open CSO structures in the system including name/designation, location, size of structure and their receiving waters;
- (2) a list of CSO structures in the system that were sealed since the latest update to the Commissioner including name/designation, location, size of structure, their receiving waters, and the physical method used to seal that CSO which has been approved by the Commissioner;
- (3) the date and amount of each precipitation event causing a CSO discharge;
- (4) the date, and estimation of volume for each discharge event for each CSO structure;
- (5) the semi-annual CSO inspection forms for all CSO structures/regulators, pumping stations and tidegates, which also verify the existence of identification signs for all visible combined sewer outfall structures as required by the Commissioner;
- (6) a list of Best Management Practices (BMPs) that have been used to reduce the impact of existing CSO's on the receiving waters; and

(7) a summary of upcoming mitigation efforts for the next 5 years.

(C) 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:

- (1) 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.

(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) 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.

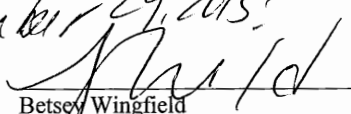
(F) Notification of noncompliance. In the event that the Permittee becomes aware that it did not or may not comply, or did not or may not comply on time, with any requirement of this Section of the permit or of any document required hereunder, the Permittee shall immediately notify the Commissioner and 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) 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.

(H) 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:

Rowland C. Denny, Senior 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

This permit is hereby issued on

September 29, 2015

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										
Allocated Zone of Influence (ZOI): 2422 cfs					In-stream Waste Concentration (IWC): 4.86 %					
PARAMETER	Units	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			REPORT FORM	Minimum Level Analysis See Section 6
		Average Monthly Limit	Maximum Daily Limit	Sample Freq.	Sample type	Instantaneous Limit or Required Range ³	Sample Freq.	Sample Type		
Alkalinity	mg/l	NA	NA	NR	NA	-----	Monthly	Grab	MOR	
Carbonaceous Biochemical Oxygen Demand (5 day) ^{1 & 4} See remark E	mg/l	25	50	3/Week	Daily Composite	NA	NR	NA	DMR/MOR	
Fecal coliform May 1 st through September 30 th ⁵ see remarks A and B below	Colonies per100 ml	NA	NA	NR	NA	see remarks (B) and (C) below	3/Week	Grab	DMR/MOR	
Enterococci May 1 st through September 30 th ⁶ see remark C below	Colonies per100 ml	NA	NA	NR	NA	500	3/Week	Grab	DMR/MOR	
Flow	MGD	-----	-----	Continuous ²	Average Daily Flow	NA	NR	NA	DMR/MOR	
Nitrogen, Ammonia (total as N)	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	-----	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	
pH	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 ^{1 & 4} , See remark D	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	
UV Dose May 1 st through September 30 th	mJ/cm ²	NA	NA	NR	NA	≥30.0	Daily lowest reading	Continuous	DMR/MOR	
UV Transmittance May 1 st through September 30 th	%	NA	NA	NR	NA	-----	Daily lowest reading	Continuous	MOR	

TABLE A – CONDITIONS

Footnotes:

¹ The discharge shall not exceed an average monthly 25 mg/l CBOD₅ and 30 mg/l suspended solids. The Maximum Daily Limit of 50.0 mg/l CBOD₅ and 50.0 mg/l Total Suspended Solids are waived during periods when the facility is treating dilute influent due to storm runoff collected by the Combined Sewer System (generally when the influent flow to the wastewater treatment plant exceeds an instantaneous rate of 90 MGD) and the permittee shall report the maximum daily discharge concentration for BOD₅ and TSS when the permittee is not treating dilute influent due to storm runoff collected by the Combined Sewer System causing influent flows to exceed 90 MGD. The Permittee shall state on the monthly Discharge Monitoring Reports and MOR's when exceedance is due to storm induced flows.

² The Permittee shall record and report on the monthly operating report the minimum instantaneous rate, maximum instantaneous rate 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 the maximum daily flow for each sampling month.

³ The instantaneous limits in this column are maximum limits except for UV Dose which is a minimum limit.

⁴ During Wet Weather Storage Basin (or, upon completion, Dual Use Primary Clarifier) overflow events exceeding one hour (generally when influent flow to the wastewater treatment plant exceeds an instantaneous rate of 90 MGD), these parameters shall be sampled daily during the event in accordance with the normal daily composite sample period employed by this facility. The requirement to sample these parameters during overflow events shall supplant any internal analytical schedule. The Permittee may opt to drop a sample from the normal schedule for the remainder of that week but must comply with the sample frequency for these parameters. Analysis for these parameters shall comply with the normal working schedule of the Facility's Laboratory and holding times per the most recently approved version of Standard Methods. Samples collected outside of the normal working schedule of the Facility's Laboratory and holding time requirements per the most recently approved version of Standard Methods will not be analyzed. During short duration overflow events (less than one hour in duration) or during intermittent overflow events (with no one overflow exceeding one hour), this sampling requirement is waived. For overflow events exceeding one hour and terminating prior to midnight of that same day, a daily composite will be analyzed that encompasses the overflow period according to the measurement frequency specified and according to the facility's normal sampling schedule. If an overflow event covers more than one daily composite sample period, daily composites will be sampled and analyzed for all calendar days in which the overflow occurs excluding time periods mentioned above due to working hours or holding times. Samples shall be flow proportional.

⁵ During the period beginning at the effective date of this permit and lasting until the implementation of Enterococci monitoring at the Water Pollution Control Facility, the discharge shall not exceed and shall otherwise conform to specific terms and conditions listed.

⁶ During the period beginning after the implementation of Enterococci monitoring, but no later than 730 days after the effective date permit, lasting until expiration, the discharge shall also not exceed and shall otherwise conform to the specific terms and conditions listed.

Remarks:

(A) 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.

(B) 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.

(C) 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.

(D) The Average Weekly discharge Limitation for CBOD₅ and Total Suspended Solids shall be 1.5 times the Average Monthly Limit listed above.

TABLE A-1

Discharge Serial Number: 001-1 (B)			Monitoring Location: 8						
Wastewater Description: Primary treated, seasonally chlorinated excess combined sewer wastewater									
Monitoring Location Description: Wet Weather Storage Basin Effluent or Wet Weather Disinfection Effluent upon completion of Dual Use Primary Clarifier facilities									
PARAMETER	Units	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			
		Average Monthly Limit	Maximum Daily Limit	Sample Frequency	Sample Type	Instantaneous Limit or Required Range	Sample Frequency	Sample Type	Reporting form
CBOD (5 day)	mg/l	NA	-----	Daily/event ^{1, 3}	Daily Composite	NA	NA	NA	DMR/MOR
Chlorine, Total Residual, (May 1st through September 30 th)	mg/l	NA	NA	NR	NA	-----	Daily/event ^{1, 3}	Grab	DMR/MOR
Event Duration	Hours	NA	-----	Continuous ²	Time	NA	NA	NA	DMR/MOR
Fecal Coliform, May 1 st through September 30 th ⁴	per 100 ml	NA	NA	NR	NA	-----	Daily/event ^{1, 3}	Grab	DMR/MOR
Enterococci, May 1 st through September 30 th ⁵	per 100 ml	NA	NA	NR	NA	-----	Daily/event ^{1, 3}	Grab	DMR/MOR
Flow	MGD	NA	-----	Continuous ²	Daily Flow	NA	NA	NA	DMR/MOR
Solids, Total Suspended	mg/l	NA	-----	Daily/event ^{1, 3}	Daily Composite	NA	NA	NA	DMR/MOR

TABLE A-1 - CONDITIONS

Footnotes:

- ¹ Sampling shall be performed each calendar day of the overflow event according to the measurement frequency specified. For composite samples, sampling shall be initiated in the first hour of the overflow event and end at the completion of the overflow event or until midnight of that calendar day. For overflow events that last into the next calendar day(s), sampling shall be terminated at midnight of the first day (labeled as Day 1), re-initiated and continued until the end of the overflow event or midnight of the next calendar day (labeled as Day 2) and so on until the end of the overflow event. Samples shall be flow proportional. Analysis for these parameters shall comply with the normal working schedule of the Facility's Laboratory and holding times per the most recently approved version of Standard Methods. For grab samples, sampling shall occur once per calendar day during the overflow event. Analysis for these parameters shall comply with the normal working schedule of the Facility's Laboratory and holding times per the most recently approved version of Standard Methods.
- ² During overflow events (generally when influent flow to the wastewater treatment plant exceeds an instantaneous rate of 90 MGD due to storm runoff collected by the Combined Sewer System) the Permittee is authorized to discharge those flows above 90 MGD from outfall serial number 001-1 as seasonally disinfected primary clarified combined sewer wastewater.
- ³ During short duration overflow events (less than one hour in duration) or during intermittent overflow events (with no one overflow exceeding one hour), this sampling requirement is waived.
- ⁴ During the period beginning at the effective date of this permit and lasting until the implementation of Enterococci monitoring at the Water Pollution Control Facility, the discharge shall not exceed and shall otherwise conform to specific terms and conditions listed.
- ⁵ During the period beginning after the implementation of Enterococci monitoring, but no later than 730 days after the effective date permit, lasting until expiration, the discharge shall also not exceed and shall otherwise conform to the specific terms and conditions listed.

Remarks - Apply to all of Table A-1:

- (a) The Permittee is required to calculate combined effluent characteristics for CBOD₅ and TSS using the overflow event Wet Weather Storage Basin effluent (or Wet Weather Disinfection effluent upon completion of Dual Use Primary Clarifier facilities) sampling data and the secondary effluent sampling data collected during the day(s) of the overflow when the data is available. Calculations for composite samples shall be flow weighted using total daily flows. Permit compliance for the average weekly discharge limitation in accordance with Table A will be based upon the results of these calculations and the supporting data from Table A and Table A-1. This data shall be submitted as an addendum to the DMR and MOR.
- (b) The Permittee shall make reasonable efforts to maximize the amount of flow receiving final secondary treatment consistent with achieving NPDES effluent limits at the final secondary effluent discharge as described in the Permit.
- (c) There is no reporting required under Section 8(C) of this permit for discharges during these events.
- (d) The use of chlorine for disinfection shall be discontinued from October 1st through April 30th except that chlorination equipment may be started and tested no earlier than April 15th, and any residual chlorine gas or liquid 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 1.5 mg/l, as an instantaneous limit, and 1.5mg/l, as a maximum daily limit. The analytical results shall be reported on the MOR for the months of April and October.
- (e) Total Residual Chlorine Limits are 0.2 - 1.5 mg/l.
- (f) For any month with no overflow events, the Permittee shall enter on the DMR a No Data Indicator ("NODI") code "9" for Discharge Serial Number 001-1 (B).

TABLE B

Discharge Serial Number (DSN): 001-1			Monitoring Location: K		
Wastewater Description: Final Effluent					
Monitoring Location Description: Final Effluent					
Allocated Zone of Influence (ZOI): 2422 cfs			In-stream Waste Concentration (IWC): 4.86%		
PARAMETER	Units	FLOW/TIME BASED MONITORING			REPORT FORM
		Average Monthly Minimum	Sample Freq.	Sample type	
Carbonaceous Biochemical Oxygen Demand (5 day) Percent Removal ^{1 & 3}	% of Influent	85	3/Week	Calculated ²	DMR/MOR
Solids, Total Suspended Percent Removal ^{1 & 3}	% 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). The 15% provision is waived during periods when the facility is treating dilute influent due to storm runoff collected by the Combined Sewer System causing instantaneous influent flows to exceed 90 MGD. The Permittee shall enter on the DMR a No Data Indicator ("NODP") code "9" for BOD₅ and TSS average monthly minimum and state on the monthly Discharge Monitoring Reports and MOR's when exceedance of the 15% provision is due to storm induced flows.

² Calculated based on the average monthly results described in Table A. Removal efficiency =
$$\frac{\text{Inf. BOD or TSS} - \text{Effluent BOD or TSS}}{\text{Inf. BOD or TSS}} \times 100$$

³ During Wet Weather Storage Basin overflow events exceeding one hour (generally when influent flow to the wastewater treatment plant exceeds an instantaneous rate of 90 MGD), these parameters shall be sampled daily during the event in accordance with the normal daily composite sample period employed by this facility. The requirement to sample these parameters during overflow events shall supplant any internal analytical schedule. The Permittee may opt to drop a sample from the normal schedule for the remainder of that week but must comply with the sample frequency for these parameters. Analysis for these parameters shall comply with the normal working schedule of the Facility's Laboratory and holding times per the most recently approved version of Standard Methods. Samples collected outside of the normal working schedule of the Facility's Laboratory and holding time requirements per the most recently approved version of Standard Methods will not be analyzed. During short duration overflow events (less than one hour in duration) or during intermittent overflow events (with no one overflow exceeding one hour), this sampling requirement is waived. For overflow events exceeding one hour and terminating prior to midnight of that same day, a daily composite will be analyzed that encompasses the overflow period according to the measurement frequency specified and according to the facility's normal sampling schedule. If an overflow event covers more than one daily composite sample period, daily composites will be sampled and analyzed for all calendar days in which the overflow occurs excluding time periods mentioned above due to working hours or holding times. Samples shall be flow proportional.

TABLE C

Discharge Serial Number (DSN): 001-1			Monitoring Location: T			
Wastewater Description: Final Effluent						
Monitoring Location Description: Final Effluent						
Allocated Zone of Influence (ZOI): 2422 cfs			In-stream Waste Concentration (IWC): 4.86%			
PARAMETER	Units	Maximum Daily Limit	Sampling Frequency	Sample Type	Reporting form	Minimum Level Analysis See Section 6
Aluminum, Total	mg/l	-----	Quarterly	Daily Composite	ATMR/DMR	*
Antimony, Total	mg/l	-----	Quarterly	Daily Composite	ATMR/DMR	*
NOAEL Static 48Hr Acute Daphnia Pulex ¹	% survival	-----	Quarterly	Daily Composite	ATMR/DMR	
NOAEL Static 48Hr Acute Pimephales Promelas ¹	% survival	-----	Quarterly	Daily Composite	ATMR/DMR	
Arsenic, Total	mg/l	-----	Quarterly	Daily Composite	ATMR/DMR	*
Beryllium, Total	mg/l	-----	Quarterly	Daily Composite	ATMR/DMR	*
BOD ₅	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/l	-----	Quarterly	Daily Composite	ATMR/DMR	*

TABLE C - CONDITIONS

Remarks:¹The 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 Location: N		
Wastewater Description: Activated Sludge				
Monitoring Location Description: Each Aeration Tank Effluent				
PARAMETER	REPORTING FORMAT	INSTANTANEOUS MONITORING		REPORTING FORM
		Sample Frequency	Sample Type	
Oxygen, Dissolved	High & low for each WorkDay for each aerobic and anoxic zone	Continuous	Continuous	On request
Sludge Volume Index	WorkDay	WorkDay	Grab	On request
Mixed Liquor Suspended Solids	WorkDay	WorkDay	Grab	On request

TABLE E

Discharge Serial Number: 001-1			Monitoring Location: G				
Wastewater Description: Sewage							
Monitoring Location Description: Influent							
PARAMETER	Units	DMR REPORTING FORMAT	FLOW/TIME BASED MONITORING		INSTANTANEOUS MONITORING		REPORTING FORM
			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	NA	Work Day	Grab	MOR

TABLE F

Discharge Serial Number: 001-1				Monitoring Location: P			
Wastewater Description: Primary Effluent							
Monitoring Location Description: Primary Settling Tank Effluent							
PARAMETER	Units	REPORTING FORMAT	TIME/FLOW BASED MONITORING		INSTANTANEOUS MONITORING		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	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			
PARAMETER	INSTANTANEOUS MONITORING		REPORTING FORM
	Units	Grab Sample Freq.	
Arsenic, Total	mg/kg	monthly	DMR
Beryllium, Total	mg/kg	monthly	DMR
Cadmium, Total	mg/kg	monthly	DMR
Chromium, Total	mg/kg	monthly	DMR
Copper, Total	mg/kg	monthly	DMR
Lead, Total	mg/kg	monthly	DMR
Mercury, Total	mg/kg	monthly	DMR
Nickel, Total	mg/kg	monthly	DMR
Polychlorinated Biphenyls	mg/kg	monthly	DMR
Solids, Fixed	%	monthly	DMR
Solids, Total	%	monthly	DMR
Solids, Volatile	%	monthly	DMR
Zinc, Total	mg/kg	monthly	DMR
A grab sample of primary sludge and waste activated sludge will be combined flow proportionally. 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

[illegible]

Ash disposal location:

Please return forms to:

DEEP - Water Bureau

ATTN: Municipal Wastewater Monitoring Coordinator

Municipal Facilities

79 Elm Street

Hartford, CT 06106-5127

Statement of Acknowledgement

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

Authorized Official:

Title:

Signature: _____

Date:

ATTACHMENT 3

CSO REGULATORS AND DISCHARGE POINTS

The Metropolitan District - Hartford WPCF
Attachment O - Part A.8.
CSO REGULATORS AND NPDES DISCHARGE POINTS

NPDES DISCHARGE NUMBER	MDC REGULATOR NUMBER	REGULATOR LOCATION	RECEIVING WATER
002	N-2	Granby St. @ Pembroke St.	North Branch Park River
003	N-4	Granby St. South of Cornwall St.	North Branch Park River
005	N-10	Girard Ave. North of Elizabeth St.	North Branch Park River
006	N-9	Asylum Ave. Regulator Chamber	North Branch Park River
007	N-12	Oxford St. @ Cone St.	NBPR Conduit via Tremont St. Conduit North of Farmington Ave.
	N-14	Farmington Ave. @ Tremont St.	NBPR Conduit via Tremont St. Conduit North of Farmington Ave.
008	N-22	Farmington Ave. West of Woodland St.	No. Br. Park River Conduit
009	N-23	South Whitney @ Warrenton Ave.	No. Br. Park River Conduit via Tremont St. Conduit So.
	N-24	Warrenton Ave. West of So. Whitney St.	No. Br. Park River Conduit via Tremont St. Conduit So.
010	N-25	Hawthorne St. @ So. Marshall St.	No. Br. Park River Conduit
012	N-28A	Park St. @ Orange St.	So. Br. Park River Conduit via 66" High Level Drain
	N-28B	Park Street @ Francis Street	So. Br. Park River Conduit via 66" High Level Drain
046	N-29	Bartholomew Ave. @ Park St.	No. Br. Park River Conduit via 80" Low Level Drain
014	S-3	Hamilton Street @ Brookfield St.	South Branch Park River
016	S-8	New Park Ave.	Kane Brook
017	S-10	Brookfield St. @ Saybrooke St.	South Branch Park River
018	S-12	Brookfield St. @ Ward Place Ext.	South Branch Park River
	S-13	Wilson St. between Zion & Hillside	South Branch Park River
019	S-15	Flatbush Ave. West of Chandler St.	Cemetery Brook Conduit
020	S-14	Flatbush Ave. East of Chandler St.	Cemetery Brook Conduit
	S-16	Flatbush Ave. West of Chandler St.	Cemetery Brook Conduit
022	S-19	Arlington St. @ Stone St.	South Branch Park River
	S-21	Natick St. @ Arlington St.	South Branch Park River
024	S-23	Giddings St. @ New Britain Ave.	SBPR via 48" Outfall from New Britain Avenue Storm Drain
	S-24	Nepaug St. @ New Britain Ave.	SBPR via 48" Outfall from New Britain Avenue Storm Drain
	S-25	Wilbur St. @ New Britain Ave.	SBPR via 48" Outfall from New Britain Avenue Storm Drain
	S-26	Goshen St. @ New Britain Ave.	SBPR via 48" Outfall from New Britain Avenue Storm Drain
	S-27	Montrose St. @ New Britain Ave.	SBPR via 48" Outfall from New Britain Avenue Storm Drain
	S-28	Grant St. @ New Britain Ave.	SBPR via 48" Outfall from New Britain Avenue Storm Drain
	S-29	Roslyn St. @ New Britain Ave.	SBPR via 48" Outfall from New Britain Avenue Storm Drain
	S-30	New Britain Ave. @ Roslyn St.	SBPR via 48" Outfall from New Britain Avenue Storm Drain
025	G-20	Spruce St. @ Church St.	Gully Brook Conduit
	G-2	Westland St.	Gully Brook Conduit
	G-8	Rockville Street	Gully Brook Conduit
	G-9	Capen St. West of Gully Brook	Gully Brook Conduit
	G-10	Capen St. East of Gully Brook	Gully Brook Conduit
	G-11	Mansfield Street (East)	Gully Brook Conduit
	G-12	Enfield Street	Gully Brook Conduit
	G-13W	Albany Ave. West of Brook St.	Gully Brook Conduit
	G-13E	Albany Ave. West of Brook St.	Gully Brook Conduit
	G-15	Brook St. North of Liberty St.	Gully Brook Conduit
	G-17A	Walnut St. Between Garden & Williams	Gully Brook Conduit
	G-17B	Walnut Street @ Chestnut	Gully Brook Conduit
	G-19	High St. @ Walnut St.	Gully Brook Conduit
	G-21	Asylum St. @ Garden St.	Gully Brook Conduit
	G-23	Vine St. @ Mansfield St.	Gully Brook Conduit

The Metropolitan District - Hartford WPCF
Attachment O - Part A.8.
CSO REGULATORS AND NPDES DISCHARGE POINTS

NPDES DISCHARGE NUMBER	MDC REGULATOR NUMBER	REGULATOR LOCATION	RECEIVING WATER
027	P-1	Commerce St. @ Sheldon St.	Park River Conduit
028	P-2	Main St. @ Sheldon St.	Park River Conduit
029	P-3	Main St. @ Arch St.	Park River Conduit
030	P-4	Pulaski Circle	Park River Conduit
031	P-5	Wells Street	Park River Conduit via Park River Storm Drain
	P-9	Jewell St. @ Ann St.	Park River Conduit via Park River Storm Drain
	P-10	Asylum St. @ High St.	Park River Conduit via Park River Storm Drain
	P-11A	Asylum St. @ Bushnell Park	
	P-12	Asylum St. @ Gully Brook (North)	Park River Conduit via Park River Storm Drain
	P-13	Asylum St. @ Gully Brook (South)	Park River Conduit via Park River Storm Drain
032	P-14	Capitol Ave. west of Hungerford St.	Park River Conduit
033	P-15	Broad St. South of Capitol Ave.	Park River Conduit
034	P-15A	Broad St. Capitol Ave.	Park River Conduit
	P-19	Capitol Ave. @ Flower St.	Park River Conduit via Southeast Storm Drain
	P-23	Capitol Ave. East of Columbia St.	Park River Conduit via Southeast Storm Drain
	P-24	Capitol Ave. @ Park Terrace	Park River Conduit via Southeast Storm Drain
035	P-16	Park St. and Broad St.	Park River Aux. Conduit
	P-16A	Park St. West of Broad St.	Park River Aux. Conduit
036	P-18	Flower St. North of Capitol Ave.	Park River Conduit via Southeast Storm Drain
038	P-26	Main St. @ Buckingham St.	Park River Conduit
047	P-29	Capitol Ave. @ Sigourney St.	Park River Conduit
039	F-26	Private lands opposite Tredeau St.	Folly Brook Conduit via Franklin Ave. Storm Drain
	F-27	Franklin Ave. @ Cromwell St.	Folly Brook Conduit via Franklin Ave. Storm Drain
	F-28	Franklin Ave. @ Hamner St.	Folly Brook Conduit via Franklin Ave. Storm Drain
	F-29	Franklin Ave. @ Brown St.	Folly Brook Conduit via Franklin Ave. Storm Drain or Folly Brook via South Meadows Pressure Conduit
	F-30	Franklin Ave. @ Bodwell St.	Folly Brook Conduit via Franklin Ave. Storm Drain or Folly Brook via South Meadows Pressure Conduit
	F-31	South St. @ Hubbard Rd.	Folly Brook Conduit via Franklin Ave. Storm Drain or Folly Brook via South Meadows Pressure Conduit
	F-32	Franklin Ave. @ Adelaide St.	Folly Brook Conduit via Franklin Ave. Storm Drain or Folly Brook via South Meadows Pressure Conduit
	F-33	West Preston @ Broad St.	Folly Brook Conduit via Franklin Ave. Storm Drain or Folly Brook via South Meadows Pressure Conduit
040	During certain river flood stages, flow from regulators F-29, F-30, F-31, F-32 and F-33 may discharge at this DSN.		
041	NM-2	Tower Ave. @ Main St.	No. Meadows Storage Pond via Tower Brook Conduit
	NM-3	Main St. @ Tower Ave.	No. Meadows Storage Pond via Tower Brook Conduit
	NM-4	Main St. South of Fishfry St.	No. Meadows Storage Pond via Tower Brook Conduit
042(a)	NM-5	Windsor St. @ Sanford St.	Connecticut River via Northeast Storm Drain
	NM-6	Bellevue St. @ Sanford St.	Connecticut River via Northeast Storm Drain
	NM-7	Sanford St. @ Main St.	Connecticut River via Northeast Storm Drain
043	NM-10	Market St. @ Trumbull St.	Connecticut River via East Side Storm Drain, south of Grove St.
	NM-14	State St. East of Market St.	Connecticut River via East Side Storm Drain, south of Grove St.
043A(b)	NM-10	Market St. @ Trumbull St.	Connecticut River via East Side Storm Drain
044	SM-2	Masseek St. @ Van Block Ave.	Connecticut River

NOTES :

- (a) If the flow from NM-5, 6 and 7 is large, it may also discharge from DSN 041.
(b) Under low flow conditions NM10 will discharge via 043; high flow conditions, 043A.

DATA TRACKING AND TECHNICAL FACT SHEET

PERMIT, ADDRESS, AND FACILITY DATA

Permittee: The Metropolitan District

PERMIT #: CT0100251 APPLICATION #: 201002851 FACILITY ID. 064-001

Mailing Address: Street: PO Box 800 City: Hartford ST: CT Zip: Contact Name: Jeff Bowers Phone No.: 860-278-7850 X3548	Location Address: Street: 240 Brainard Rd City: Hartford ST: CT Zip: 06114 Contact Name: Jeff Bowers Phone No.: 860-278-7850 X3548 DMR Contact email address: JBowers@themdc.com
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PERMIT INFORMATION

DURATION 5 YEAR X 10 YEAR ___ 30 YEAR ___

TYPE New ___ Reissuance X Modification ___

CATEGORIZATION POINT (X) NON-POINT () GIS #

NPDES (X) PRETREAT () GROUND WATER(UIC) () GROUND WATER (OTHER) ()

NPDES MAJOR (MA) X

COMPLIANCE SCHEDULE YES X NO ___
POLLUTION PREVENTION ___ TREATMENT REQUIREMENT ___
WATER QUALITY REQUIREMENT X OTHER ___

OWNERSHIP CODE

Private ___ Federal ___ State ___ Municipal (town only) X Other public ___

DEEP STAFF ENGINEER Rowland C. Denny

PERMIT FEES

Discharge Code	DSN Number	Annual Fee
111000g	001-1	\$3,320.00

FOR NPDES DISCHARGES

Drainage Basin Code: 4500 Water Quality Classification Goal: **SB** Segment: Connecticut River 00

NATURE OF BUSINESS GENERATING DISCHARGE

Municipal Sanitary Sewage Treatment

PROCESS AND TREATMENT DESCRIPTION (by DSN)

001-1 - Secondary biological treatment and seasonal disinfection and primary treated excess wet weather flows with seasonal chlorine disinfection.

RESOURCES USED TO DRAFT PERMIT

X Federal Effluent Limitation Guideline 40CFR 133 Secondary Treatment Category

X Department File Information

X Connecticut Water Quality Standards

X Anti-degradation Policy

BASIS FOR LIMITATIONS, STANDARDS OR CONDITIONS

X Secondary Treatment (Section 22a-430-4(r) of the Regulations of Connecticut State Agencies)

X In order to meet in-stream water quality (See General Comments)

X Anti-degradation policy

GENERAL COMMENTS

The Metropolitan District operates a municipal water pollution control facility ("the facility") located at 240 Brainard Road, Hartford. The facility is designed to treat and discharge up to 60 million gallons a day of effluent into the Connecticut River. The facility currently uses secondary treatment with denitrification and seasonal UV disinfection to treat effluent before being discharged. Pursuant to Conn. Gen. Stat. § 22a-430, the Department of Energy and Environmental Protection has issued The Metropolitan District a permit for the discharge from this facility. The Metropolitan District has submitted an application to renew its permit. The Department has made a tentative determination to approve The Metropolitan District'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 (enterococci), 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.

During dry weather, all wastewater shall receive secondary treatment.

During wet weather events when the wastewater flow to the treatment plant exceeds 90 MGD, the flow above 90 MGD may be diverted to the wet weather storage basin (WWSB) until the completion of construction of the Dual-Use Primary Clarifier Project (DUPCP). If the peak flow to the plant is short-term, the wastewater in the WWSB may be directed to the headworks of the plant for secondary treatment. For longer duration rain events, the wastewater in the WWSB will receive primary treatment and seasonal chlorine disinfection before entering the outfall pipe that carries the secondary treated wastewater out to the Connecticut River. When the WWSB is discharging to the plant outfall pipe, monitoring of that discharge will occur and a calculation will be made to determine whether the blended flow (secondary treated wastewater plus WWSB wastewater) will meet secondary treatment standards for permit compliance.

After the completion of construction of the DUPCP, during wet weather events when the wastewater flow to the treatment plant exceeds 90 MGD, the flow above 90 MGD may be diverted to receive chemically enhanced primary treatment and seasonal chlorine disinfection in the wet weather disinfection tank before entering the outfall pipe that carries the secondary treated wastewater out to the Connecticut River. When this occurs, monitoring of that discharge will occur and a calculation will be made to determine whether the blended flow (secondary treated wastewater plus the discharge from the wet weather disinfection tank) will meet secondary treatment standards for permit compliance.

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.

WATER QUALITY LIMIT CALCULATIONS
See attached