Tum Gagran



# STATE OF CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION





OCT 1 3 2004

issued to

Permittee: SIAIE PROGRAM UNIT City of Milford 110 River Street Milford, CT 06460

Location Address: Housatonic WPCF 1225 Oronoque Road Milford, CT 06460

Facility ID:

084-133

Permit ID: CT0101656

Permit Expires: October 5, 2009

Receiving Stream:

Housatonic River

Design Flow Rate: 8,000,000 gpd

#### **SECTION 1: GENERAL PROVISIONS**

- (A) This permit is issued 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) City of Milford, ("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)(9)(C), (j)(10)(C), (j)(11)(C), (D), (E), and (F), (k)(3) and (4) and (l)(2) of Section 22a-430-3. To the extent this permit imposes conditions more stringent than those found in the regulations, this permit shall apply.

#### Section 22a-430-3 General Conditions

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

#### Section 22a-430-4 Procedures and Criteria

- (a) Duty to Apply
- (b) Duty to Reapply
- (c) Application Requirements
- (d) Preliminary Review
- (e) Tentative Determination
- (f) Draft Permits, Fact Sheets
- (g) Public Notice, Notice of Hearing

- (h) Public Comments
- (i) Final Determination
- (j) Public Hearings
- (k) Submission of Plans and Specifications. Approval.
- (I) Establishing Effluent Limitations and Conditions
- (m) Case-by-Case Determinations
- (n) Permit Issuance or Renewal
- (o) Permit or Application Transfer
- (p) Permit Revocation, Denial or Modification
- (q) Variances
- (r) Secondary Treatment Requirements
- (s) Treatment Requirements
- (t) Discharges to POTWs Prohibitions
- (C) Violations of any of the terms, conditions, or limitations contained in this permit may subject the permittee to enforcement action including, but not limited to, seeking penalties, injunctions and/or forfeitures pursuant to applicable sections of the CGS and RCSA.
- (D) Any false statement in any information submitted pursuant to this Section of the permit may be punishable as a criminal offense under Section 22a-438 or 22a-131a of the CGS or in accordance with Section 22a-6, under Section 53a-157b of the CGS.
- (E) The permittee shall comply with Section 22a-416-1 through Section 22a-416-10 of the RCSA concerning operator certification.
- (F) No provision of this permit and no action or inaction by the Commissioner shall be construed to constitute an assurance by the Commissioner that the actions taken by the permittee pursuant to this permit will result in compliance or prevent or abate pollution.
- (G) Nothing in this permit shall relieve the permittee of other obligations under applicable federal, state and local law.
- (H) An annual fee shall be paid for each year this permit is in effect as set forth in Section 22a-430-7 of the RCSA. As of August 20, 2003 the annual fee is \$ 2,557.50.
- (I) The permittee shall discharge so as not to violate the Interstate Environmental Commission (IEC) Water Quality Regulations promulgated pursuant to the authority conferred upon the IEC by the Tri-State Compact (CGS 22a-294 et seq.) as defined in Attachment 1 Table A.
- (J) This permitted discharge is consistent with the applicable goals and policies of the Connecticut Coastal Management Act (Section 22a-92 of the CGS)

#### **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", "No Observable Acute Effect Level (NOAEL)" and "Grab Sample Average" 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, NAR, and/or the ATMR.
  - "Annual" in the context of any sampling frequency, shall mean the sample must be collected in the month of August.
  - "Average Monthly Limit" means the maximum allowable "Average Monthly Concentration" as defined in Section 22a-430-3(a) of the RCSA when expressed as a concentration (e.g. mg/l); otherwise, it means "Average Monthly Discharge Limitation" as defined in Section 22a-430-3(a) of the RCSA.

- "Bi-Monthly" in the context of any sampling frequency, shall mean once every two months including the months of February, April, June, August, October and December.
- "Composite" or "(C)" means a sample consisting of a minimum of eight aliquot samples collected at equal intervals of no less than 30 minutes and no more than 60 minutes and combined proportionally to flow over the sampling period provided that during the sampling period the peak hourly flow is experienced.
- "Critical Test Concentration" or "(CTC)" means the specified effluent dilution at which the permittee is to conduct a single-concentration Aquatic Toxicity Test.
- "Daily Composite" or "(DC)" means a composite sample taken over a full operating day consisting of grab samples collected at equal intervals of no more than sixty (60) minutes and combined proportionally to flow; or, a composite sample continuously collected over a full operating day proportionally to flow.
- "Daily Concentration" means the concentration of a substance as measured in a daily composite sample, or, arithmetic average of all grab sample results defining a grab sample average.
- "Daily Quantity" means the quantity of waste discharged during an operating day.
- "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.
- "Maximum Daily Limit" means the maximum allowable "Daily Concentration" (defined above) when expressed as a concentration (e.g. mg/l), otherwise, it means the maximum allowable "Daily Quantity" as defined above, unless it is expressed as a flow quantity. If expressed as a flow quantity it means "Maximum Daily Flow" as defined in Section 22a-430-3(a) of the RCSA.
- "Monthly Minimum Removal Efficiency" means the minimum reduction in the pollutant parameter specified when the effluent average monthly concentration for that parameter is compared to the influent average monthly concentration.
- "NA" as a Monitoring Table abbreviation means "not applicable".
- "NR" as a Monitoring Table abbreviation means "not required".
- "No Observable Acute Effect Level" or "(NOAEL)" means any concentration equal to or less than the critical test concentration in a single concentration (pass/fail) toxicity test, conducted pursuant to Section 22a-430-3(j)(7)(A)(i) of the RCSA, demonstrating greater than 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 February, May, August, and November.
- "Range During Sampling" or "(RDS)" as a sample type means the maximum and minimum of all values recorded as a result of analyzing each grab sample of; 1) a Composite Sample, or, 2) a Grab Sample Average. For those permittees with pH meters that provide continuous monitoring and recording, Range During Sampling means the maximum and minimum readings recorded with the continuous monitoring device during the Composite or Grab Sample Average sample

collection.

"Range During Month" or "(RDM)" as a sample type means the lowest and the highest values of all of the monitoring data for the reporting month.

"MGD" means million gallons per day.

"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.

"ug/l" means micrograms per liter

"Work Day" in the context of a sampling frequency means, Monday through Friday excluding holidays.

#### **SECTION 3: COMMISSIONER'S DECISION**

- (A) The Commissioner of Environmental Protection ("Commissioner") has issued a final decision and found continuance of the existing system to treat the discharge will protect the waters of the state from pollution. The Commissioner's decision is based on application #200301501 for permit reissuance received on May 14, 2003 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 may be authorized by the permittee until the discharger has registered the discharge under the "General Permit for Domestic Sewage" issued by the Commissioner on June 11, 1992 pursuant to Section 22a-430b of the CGS.
- (C) The permittee shall maintain a system of user charges based on actual use 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 Environmental Protection. The Commissioner of Environmental Protection alone may authorize certain discharges which may not conform to the Model Sewer Ordinance.
- (E) No discharge shall contain, or cause in the receiving stream, a visible oil sheen or floating solids; or cause visible discoloration or foaming in the receiving stream.
- (F) No discharge shall cause acute or chronic toxicity in the receiving water body beyond any Zone Of Influence (ZOI)

- specifically allocated to that discharge in this permit.
- (G) The permittee shall maintain an alternate power source adequate to provide full operation of all pump stations in the sewerage collection system and to provide a minimum of primary treatment and disinfection at the water pollution control facility to insure that no discharge of untreated wastewater will occur during a failure of a primary power source.
- (H) The average monthly effluent concentration shall not exceed 15% of the average monthly influent concentration for BOD<sub>5</sub>, and Total Suspended Solids, for all daily composite samples taken in any calendar month.
- (I) Any new or increased amount of sanitary sewage discharge to the sewer system is prohibited where it will cause a dry weather overflow or exacerbate an existing dry weather overflow.
- (J) Sludge Conditions
  - (1) The permittee shall comply with all existing federal and state laws and regulations that apply to sewage sludge use and disposal practices, including but not limited to 40 CFR Part 503.
  - (2) If an applicable management practice or numerical limitation for pollutants in sewage sludge more stringent than existing federal and state regulations is promulgated under Section 405(d) of the Clean Water Act (CWA), this permit shall be modified or revoked and reissued to conform to the promulgated regulations.
  - (3) The permittee shall give prior notice to the Commissioner of any change(s) planned in the permittees' sludge use or disposal practice. A change in the permittees' sludge use or disposal practice may be a cause for modification of the permit.
- (K) The limits imposed on the discharges listed in this permit take effect on the issuance date of this permit, hence any sample taken after this date which, upon analysis, shows an exceedence of permit limits will be considered non-compliance.
- (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 for the review of the Commissioner within one year, 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 BOD<sub>5</sub>, or TSS loading into the POTW for the previous 180 days exceeds 90% of the design load rate, the permittee shall develop and submit for the review of the Commissioner within one year, a plan to accommodate future increases in load to the plant. This plan shall include a schedule for completing any recommended improvements and a plan for financing the improvements.
- (N) On or before July 31<sup>st</sup> 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 recycle pumping systems, aeration equipment, aeration tank cycling, mixing equipment, anoxic basin, chemical feed systems, effluent filters or any other process equipment necessary for the optimal removal of pollutants. The permittee shall not bypass or fail to operate any of the approved equipment or processes without the written approval of the Commissioner.
- (P) On or before 2.5 years from issuance each anaerobic digester unit shall be sampled, in a manner approved in writing by the Commissioner, to determine the amount of grit and depth of scum blanket. The results of the sampling shall be maintained at the POTW and, upon request, the permittee shall submit to the Commissioner a copy of the sampling data.
- (Q) The permittee is hereby authorized to accept septage at the treatment facility.
- (R) The temperature of any discharge shall not increase the temperature of the receiving stream above 85°F, or, in any case, raise the normal temperature of the receiving stream more than 4°F.

#### SECTION 5: SPECIFIC EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

- (A) The discharge(s) shall not exceed and shall otherwise conform to the specific terms and conditions listed in this permit.

  The discharge is restricted by, and shall be monitored in accordance with Tables A through E 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) and the Nutrient Analysis Report (NAR) incorporated in this permit as Attachment 2, Tables A and B, respectively.

#### SECTION 6: SAMPLE COLLECTION, HANDLING and ANALYTICAL TECHNIQUES

#### (A) Chemical Analysis

- (1) Chemical analyses to determine compliance with effluent limits and conditions established in this permit, shall be performed using the methods approved pursuant to the Code of Federal Regulations, Part 136 of title 40 (40 CFR 136) unless an alternative method has been approved in writing pursuant to 40 CFR 136.4 or as provided in Section 22a-430-3-(j)(7) of the RCSA. Chemicals which do not have methods of analysis defined in 40 CFR 136 or the RCSA shall be analyzed in accordance with methods specified in this permit.
- (2) All metals analyses identified in this permit shall refer to analyses for Total Recoverable Metal, as defined in 40 CFR 136 unless otherwise specified.
- (3) Grab samples shall be taken during the period of the day when the peak hourly flow is normally experienced.
- (4) Samples collected for bacteriological examination shall be collected between the hours of 11 a.m. and 3 p.m. or at that time of day when the peak hourly flow is normally experienced. A chlorine residual sample must be taken at the same time and the results recorded.
- (5) The Minimum Levels specified below represent the concentrations at which quantification must be achieved and verified during the chemical analyses for the parameters identified in Attachment 1, Tables A and B. 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.

Parameter	Minimum Level
Arsenic, Total	0.005 mg/l
Beryllium, Total	0.001 mg/l
Lead, Total	0.005 mg/l
Mercury, Total	0.0002 mg/l
Silver, Total	0.002 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 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/600/4-90/027F).

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- (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 Aquatic Toxicity testing is initiated.
- (b) Samples shall be taken at the final effluent prior to chlorination for Aquatic Toxicity unless otherwise approved in writing by the Commissioner for monitoring at this facility.
- (c) Chemical analyses of the parameters identified in Attachment 1, Table B shall be conducted on an aliquot of the same sample tested for 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 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.
- (d) Tests for Aquatic Toxicity shall be initiated within 36 hours of sample collection.
- (2) Monitoring for Aquatic Toxicity to determine compliance with the permit limit on Aquatic Toxicity (invertebrate) shall be conducted for 48 hours utilizing neonatal (less than 24 hours old) *Daphnia pulex*.
- (3) Monitoring for Aquatic Toxicity to determine compliance with the permit limit on 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 Aquatic Toxicity shall be conducted as prescribed for static non-renewal acute tests in "Methods for measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms" (EPA/600/4-90/027F), except as specified below.
  - (a) For 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 CaCO<sub>3</sub> shall be used as dilution water in the tests.
  - (d) Copper nitrate shall be used as the reference toxicant.
- (5) For limits expressed as NOAEL = 100%, compliance shall be demonstrated when the results of a valid pass/fail Aquatic Toxicity Test indicate 90% or greater survival in the effluent sample at the CTC (100%).

#### SECTION 7: RECORDING AND REPORTING REQUIREMENTS

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

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

(1) For composite samples, from other than automatic samplers, the instantaneous flow and the time of each aliquot

sample collection shall be recorded and maintained at the POTW.

- (B) Complete and accurate test data, including percent survival of test organisms in each replicate test chamber, LC<sub>50</sub> values and 95% confidence intervals for definitive test protocols, and all supporting chemical/physical measurements performed in association with any aquatic toxicity test, shall be entered on the Aquatic Toxicity Monitoring Report form (ATMR) and sent to the Bureau of Water Management at the address specified above in Section 7 (A) of this permit by the 15<sup>th</sup> 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) and Nutrient Analysis Report (NAR) forms, included herein as Attachment 2, Tables A and B, respectively, and reported to the Bureau of Water Management. The MOR report shall also be accompanied by a detailed explanation of any violations of the limitations specified. The MOR and NAR must be received at the address specified above in Section 7 (A) of this permit by the 15<sup>th</sup> day of the month following the month in which the data and samples are collected.

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

- (A) If any acute toxicity sample analysis indicates that an Aquatic toxicity effluent limitation has been exceeded, or that the test was invalid, a second 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 Management (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 test results or any three 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 Management (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 Environmental Protection, Bureau of Water Management, Planning and Standards Division (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 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 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 Environmental Protection, Bureau of Water Management, Planning and Standards Division, Municipal Facilities Section within five days of each occurrence, or potential occurrence, of a discharge or bypass of untreated or partially treated sewage.

The written report shall contain:

- (a) The nature and cause of the bypass, permit violation, treatment component failure, and/or equipment failure,
- (b) the time the incident occurred and the anticipated time which it is expected to continue or, if the condition has been corrected, the duration,
- (c) the estimated volume of the bypass or discharge of partially treated or raw sewage,
- (d) the steps being taken to reduce or minimize the effect on the receiving waters, and
- (e) the steps that will be taken to prevent reoccurrence of the condition in the future.
- (D) Section 22a-430-3(j) 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 Environmental Protection, Bureau of Water Management, Planning and Standards Division 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.

- (E) Section 22a-430-3(j) of the RCSA shall apply in all instances of monitoring equipment failures. In the event of any failure of the monitoring equipment including, but not limited to, loss of refrigeration 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 Environmental Protection, Bureau of Water Management, Planning and Standards Division 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.
- (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 Environmental Protection, Bureau of Water Management, Planning and Standards Division, Municipal Facilities Section (860) 424-3704 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. If the failure 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 learning of the event to the Emergency Response Unit at (860) 424-3338 and the Department of Public Health at (860) 509-8000.

This permit is hereby issued on

Jane K. Stahl

tober 5,2009

Acting Commissioner

# ATTACHMENT 1

Tables A through G

Discharge Serial Number (DSN): 001-1			}		Monitoring Location: 1	ation: I				
Wastewater Description: Sanitary Sewage							ļ			
Monitoring Location Description: Final Effluent	fluent								ļ	
Allocated Zone of Influence (ZOI). 214cfs		l L		In-stream	In-stream Waste Concentration (IWC):	tion (IWC): 5.7%	%			
Through a source of threatened (1997)		FLOW/	TIME BA	FLOW/TIME BASED MONITORING	FORING	INSTAN MONI	INSTANTANEOUS MONITORING	<b>10</b>	REPORT FORM	Minimum Level
PARAMETER	Units	Average Monthly Limit	Maximum Daily Limit	Sample Freq.	Sample type	Instantaneous Limit or Required Range <sup>3</sup>	Sample Freq.	Sample Type		Analysis See Section 6
Akalinity	l/gm	NA	NA	NR	NA		Monthly	Grab	MOR	
Biochemical Oxygen Demand (5 day)	mg/l	30 mg/l and 15% of Influent	50 mg/l	3/Week	Daily Composite	AN	NR	NA	DMR/MOR	
Chlorine, Total Residual	l/gm	NA	NA	NR.	NA	0.2 - 1.5	4/ Work Day	Grab	DMR/MOR	
fecal Coliform	per100 ml	NA	NA	NR	NA	see remarks (A) and (B) below	3/Week	Grab	DMR/MOR	
Flow, Average Daily	MGD	8.0		Continuous	Daily flow	NA	NR	ΝΑ	DMR/MOR	
Mercury	l/gn	NA		Monthly	Daily Composite	NA	NR	N A	DMR	*
Nitrogen, Ammonia (total as N)	mg/l	Ϋ́		Monthly	Daily Composite	NA	NR	NA	NAR	
Nitrogen, Nitrate (total as N)	1/gm	۲×		Monthly	Daily Composite	NA	NR	NA	NAR	
Nitrogen, Nitrite (total as N)	l/gm	NA		Monthly	Daily Composite	NA	NR	NA	NAR	
Nitrogen, Total Kjeldahl	l/gm	ΥN		Monthly	Daily Composite	NA	NR	NA	NAR	
Nitrogen, Total	l/gm	NA		Monthly	Daily Composite	NA	NR	NA	NAR	
Oxygen, Dissolved	l/gm	NA	NA	NR	NA	•	Work Day	Grab	MOR	
Hd	S.U.	ΑN	NA	NR.	NA	6-9	Work Day	Grab	DMR/MOR	
Phosphate, Ortho	l/gm	٩N		Monthly	Daily Composite	NA	N.	NA	NAR	
Phosphorus, Total	l/gm	N.	1	Monthly	Daily Composite	NA	NR	NA	NAR	
Silver	l/gn	NA	1	Monthly	Daily Composite	NA	NR	NA	DMR	*
Solids, Settleable	I/Im	AN	NA	NA	NA		Work Day	Grab	MOR	

#### TABLE B

Discharge Serial Number (DSN): 001-1				Monitoring Location:	T	
Wastewater Description: Sanitary Sewage						
Monitoring Location Description: Final ef	fluent pri	or to chlorination				
Allocated Zone of Influence (ZOI): 214 cfs			In-stream Wast	e Concentration (IWC):	5.7 %	
PARAMETER	Units	Maximum Daily Limit	Sampling Frequency	Sample Type	Reporting form	Minimum Level Analysis See Section 6
Antimony, Total	mg/l		Quarterly	Daily Composite	ATMR	
Aquatic Toxicity. Daphnia pulex 1	%	NOAEL=100%	Quarterly	Daily Composite	ATMR/DMR	
Aquatic Toxicity, Pimephales promelas 1	%	NOAEL=100%	Quarterly	Daily Composite	ATMR/DMR	
Arsenic, Total	mg/l		Quarterly	Daily Composite	ATMR	*
Beryllium, Total	mg/l		Quarterly	Daily Composite	ATMR	*
BOD5	mg/l		Quarterly	Daily Composite	ATMR	
Cadmium, Total	mg/l		Quarterly	Daily Composite	ATMR	
Chromium, Hexavalent	mg/l		Quarterly	Daily Composite	ATMR	
Chromium, Total	mg/l		Quarterly	Daily Composite	ATMR	
Chlorine, Total Residual	mg/l		Quarterly	Daily Composite	ATMR	
Copper, Total	mg/l		Quarterly	Daily Composite	ATMR	
Cyanide, Amenable	mg/l		Quarterly	Daily Composite	ATMR	
Cyanide, Total	mg/l		Quarterly	Daily Composite	ATMR	
Lead, Total	mg/l		Quarterly	Daily Composite	ATMR	*
Mercury, Total	mg/l		Quarterly	Daily Composite	ATMR	*
Nickel, Total	mg/l		Quarterly	Daily Composite	ATMR	
Nitrogen, Ammonia (total as N)	mg/l		Quarterly	Daily Composite	ATMR	
Nitrogen, Nitrate, (total as N)	mg/l		Quarterly	Daily Composite	ATMR	
Nitrogen, Nitrite, (total as N)	mg/l		Quarterly	Daily Composite	ATMR	
Phenols, Total	mg/l		Quarterly	Daily Composite	ATMR	
Selenium, Total	mg/l		Quarterly	Daily Composite	ATMR	
Silver, Total	mg/l		Quarterly	Daily Composite	ATMR	*
Suspended Solids, Total	mg/l		Quarterly	Daily Composite	ATMR	
Thallium, Total	mg/l		Quarterly	Daily Composite	ATMR	
Zinc, Total	mg/l		Quarterly	Daily Composite	ATMR	

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

PAGE 13

#### TABLE C

		<del></del>		
Discharge Serial Number: 001-1	Monitoring Lo	cation: N		
Wastewater Description: Activate	ed Sludge			
Monitoring Location Description:	Each Aeration Unit			
	REPORTING FORMAT	INSTANTANEOU	JS MONITORING	REPORTING
PARAMETER		Sample Frequency	Sample Type	FORM
Oxygen, Dissolved	High & low for each WorkDay	4/WorkDay	Grab	MOR
Sludge Volume Index	WorkDay	WorkDay	Grab	MOR
Mixed Liquor Suspended Solids	WorkDay	WorkDay	Grab	MOR

#### TABLE D

Discharge Serial Number: 001-1			Monitoring	g Location: G			
Wastewater Description: Sanitary Sew	age						
Monitoring Location Description: Influ	ent	<u> </u>					
PARAMETER	Units	DMR REPORTING FORMAT		IME BASED TORING	INSTANTA MONITO		REPORTING FORM
			Sample Frequency	Sample Type	Sample Frequency	Sample Type	
Biochemical Oxygen Demand (5 day)	mg/l	Monthly average	3/Week	Daily Composite	NA	NA	DMR/MOR
Nitrogen, Ammonia (total as N)	mg/l		Monthly	Daily Composite	NA	NA	NAR
Nitrogen, Nitrate (total as N)	mg/l		Monthly	Daily Composite	NA	NA	NAR
Nitrogen, Nitrite (total as N)	mg/l		Monthly	Daily Composite	NA	NA	NAR
Nitrogen, Tkn	mg/l		Monthly	Daily Composite	NA	NA	NAR
Nitrogen, Total	mg/l		Monthly	Daily Composite	NA	NA	NAR
pН	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 E

Discharge Serial Number: 001-1		•	Monito	ring Location: P			
Wastewater Description: Primary Eff	uent						
Monitoring Location Description: Prim	ary Sedim	entation Basin Efflue	nt				
PARAMETER	Units	REPORTING FORMAT		OW BASED TORING		ANEOUS ORING	REPORTING FORM
			Sample Frequency	Sample Type	Sample Frequency	Sample type	
Alkalinity, Total	mg/l		NA	NA	Monthly	Grab	MOR
Biochemical Oxygen Demand (5 day)	mg/l	Monthly average	Weekly	Composite	NA	NA	MOR
Nitrogen, Ammonia (total as N)	mg/l		Monthly	Composite	NA	NA	NAR
Nitrogen, Nitrate (total as N)	mg/l		Monthly	Composite	NA	NA	NAR
Nitrogen, Nitrite (total as N)	mg/l		Monthly	Composite	NA	NA	NAR
Nitrogen, TKN	mg/l		Monthly	Composite	NA	NA	NAR
Nitrogen, Total	mg/l		Monthly	Composite	NA	NA	NAR
pH	S.U.		NA	NA	Monthly	Grab	MOR
Solids, Total Suspended	mg/l	Monthly average	Weekly	Composite	NA	NA	MOR

TABLE F

Discharge Serial Number: 001-1	Monitoring Location: S		
Wastewater Description: Digester Sludge			
Monitoring Location Description: At sludge	draw off		
PARAMETER	INSTANTAN	EOUS MONITORING	REPORTING FORM
	Units	Grab Sample Freq.	
Arsenic, Total	mg/kg	Bi-Monthly	DMR
Beryllium, Total	mg/kg	Bi-Monthly	DMR
Cadmium, Total	mg/kg	Bi-Monthly	DMR
Chromium, Total	mg/kg	Bi-Monthly	DMR
Copper, Total	mg/kg	Bi-Monthly	DMR
Lead, Total	mg/kg	Bi-Monthly	DMR
Mercury, Total	mg/kg	Bi-Monthly	DMR
Nickel, Total	mg/kg	Bi-Monthly	DMR
Nitrogen, Ammonia *	mg/kg	Bi-Monthly	DMR*
Nitrogen, Nitrate (total as N) *	mg/kg	Bi-Monthly	DMR*
Nitrogen, Organic *	mg/kg	Bi-Monthly	DMR*
Nitrogen, Nitrite (total as N) *	mg/kg	Bi-Monthly	DMR*
Nitrogen, Total *	mg/kg	Bi-Monthly	DMR*
pH *	S.U.	Bi-Monthly	DMR*
Polychlorinated Biphenyls	mg/kg	Bi-Monthly	DMR
Solids, Fixed	%	Bi-Monthly	DMR
Solids, Total	%	Bi-Monthly	DMR
Solids, Volatile	%	Bi-Monthly	DMR
Zinc, Total	mg/kg	Bi-Monthly	DMR
(*) required for composting or land applic	ation only		

#### TABLE G

Discharge Serial Number: 001-1	Monitoring Location: L		
Wastewater Description: Digested sl	udge	<u>-</u>	
Monitoring Location Description: Ea	ch Anaerobic Digestion Unit		
	INSTANTANEOU	S MONITORING	REPORTING FORM
PARAMETER	Sample Frequency	Sample Type	
Temperature	Weekly	Grab	MOR
Alkalinity	Weekly	Grab	MOR
Volatile Acids	Weekly	Grab	MOR
pH	Weekly	Grab	MOR

# ATTACHMENT 2

## MONTHLY OPERATING REPORT FORM AND NUTRIENT ANALYSIS REPORT

Facility: Housatonic WPCF

Town: Milford Phane:
Sample Month: August 2004
Page 1 of 4
Daily Flow

Phone: 203-783-3263 Facility ID: 084-133

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			Daily Flow	J.M.	Septic		Sludge (Primary)	imary)		Aeration Tanks	Tanks		Return	Return Sludge Waste	Waste	Press	Press Solids   Chlorine Dose	Chlorin	re Dose	Chlori	Chlorine Residual	dual
MAGD   MAGD   GAL   GAL   SOL   DAY   MAGS   SAV   H   LOW   FLOW   SOLID   LBS		Max	Min.	Total	Waste						ات	$\Box$	₽%	%	Sludge	Z	Out			No.	Ŧ	MOJ
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Phone: 203-783-3263 Facility ID: 084-133 August 2004 Permit #: CT010165

Facility: Housatonic WPCF
Town: Milford
Sample Month:
August 2
Page 2 of 4

Page 2 of 4							1			7 2 2	1.412.11	Tomas	041407	7.	7	-	Prima	THE F	Primary Eff Fiffment Fiffment	- (fluent
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Facility: Housatonic WPCF

Town: Milford Phone: 203-783-3263 Facility ID: 084-133

Sample Month: August 2004 Permit #. CT0101656

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Facility: Housatonic WPCF

Page 4 of 4

Influent mg/L

Effluent mg/L

Influent

Effluent mg/L

Influent mg/L

Influent mg/L

Ammonia

Nitrite Effluent mg/L

Nitrate Effluent mg/L

Influent mg/L

Effluent mg/L

Phosphorus

Digester Gas Cubic Feet

Total Nitrogen

Sample Month: Town: Milford

Phone: 203-783-3263 August 2004

Facility ID: 084-133 Permit #: CT0101656

Sat 07

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40 noh.

Tue 10

Wed 25

Thu 26

Fri 27

Sat 28

Sun 29 Mon 30 Tue 31 TOTAL

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# STATEMENT OF ACKNOWLEDGEMENT

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

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Authorized Official: Mr. Richard Golubowicz

Title: Superintendant

# Nutrient Analysis Report for compliance with NPDES permit TABLE B

City of Milford Housatonic Permit # CT0101656 Flow Rate \_\_\_ \_\_\_ mgd Sampling Date \_\_/\_\_/\_

	Raw I	Raw Influent	Primary Effluent	Effluent	Final Effluent	ffluent	Plant Efficiency
Parameter	mg/l	lbs/day	mg/l	lbs/day	mg/l	lbs/day	%
Ammonia							
Nitrite							
Nitrate							
TKN							
Total Nitrogen = TKN + nitrite + nitrate							
Orthophosphates							
Total Phosphorus							

Notes: lbs/day = 8.34 x flow (mgd) x mg/l of pollutant

Flow = Total daily flow on sampling date (mgd)
Plant Efficiency = 100% x (raw influent – final effluent) / raw influent

### DATA TRACKING AND TECHNICAL FACT SHEET

Permittee: City of Milford

PAMS Company ID: 92399

#### PERMIT, ADDRESS, AND FACILITY DATA

Mailing Address:	Location Address:
Street: 1255 Oronoque Road	Street: 1255 Oronoque Road
City: Milford ST: CT Zip: 06460	City: Milford ST: CT Zip: 06460
Contact Name: Richard Golubowicz	Contact Name: Richard Golubowicz
Phone No.: (203) 783-3263	Phone No.: (203) 783-3263

30 YEAR

# PERMIT INFORMATION DURATION 5 YEAR X 10 YEAR \_\_\_

TYPE New Reissuance X Modification

PERMIT #:CT0101656 APPLICATION #: 200301501 FACILITY ID. 084-133

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

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

NPDES MAJOR(MA) X NPDES SIGNIFICANT MINOR or PRETREAT SIU (SI) NPDES or PRETREATMENT MINOR (MI)

COMPLIANCE SCHEDULE YES NO\_X
POLLUTION PREVENTION TREATMENT REQUIREMENT
WATER QUALITY REQUIREMENT OTHER

# OWNERSHIP CODE Private \_\_ Federal \_\_ State \_\_ Municipal (town only) X Other public

#### DEP STAFF ENGINEER

Stela Marusin

PERMIT FEES

 ALVILL L'ESEO			
Discharge Code	DSN Number	Annual Fee	
111000D	001	\$2,557.50	

#### FOR NPDES DISCHARGES

Drainage basin Code: 4952 Present/Future Water Quality Standard: B/B

#### NATURE OF BUSINESS GENERATING DISCHARGE

Domestic Discharge

#### PROCESS AND TREATMENT DESCRIPTION (by DSN)

Secondary biological treatment and year round disinfection (chlorination)

RESOUR	CE	S USED TO DRAFT PERMIT
	X	Federal Effluent Limitation Guideline 40CFR 133
_		Secondary Treatment Category
_	_	Performance Standards
_		Federal Development Document
	x	name of category Department File Information
-		- · · · · · · · · · · · · · · · · · · ·
-	<u>X</u>	Connecticut Water Quality Standards
-	_	Anti-degradation Policy
-	_	Coastal Management Consistency Review Form
-	_	Other - Explain
D 4070 E	o P	A VASOR ART CALL OF AND ARDE OF COMPUTATIONS
		LIMITATIONS, STANDARDS OR CONDITIONS Secondary Treatment
-	X	Case by Case Determination (See Other Comments)
	X	Section 22a-430-4(r) of the Regulations of Connecticut State Agencies

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

#### **GENERAL COMMENTS**

Anti-degradation policy

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). Each parameter 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. 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 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.

Between 1999 and the year 2001 high readings were detected for Silver and Mercury. After year 2001 the levels have gone down for both parameter and have been virtually constant since. Therefore, no water quality based limits were included but both were included as monitoring.