

**NPDES PERMIT
issued to**

Location Address:

Summit Corporation of America
1430 Waterbury Road
Thomaston, Connecticut 06787

1430 Waterbury Road
Thomaston, Connecticut 06787

Facility ID: 140-011

Permit ID: CT0001180

Receiving Water Body: Naugatuck River

Effective Date:

Receiving Water Body ID: CT6900-00_05

Permit Expires: [5 years from effective date]

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 (“CWA”), 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 NPDES permit program.
- (B) **SUMMIT CORPORATION OF AMERICA** (“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 subsections (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.

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 (Upsets)
- (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 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 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 authorization to discharge under this permit may not be transferred without prior written approval of the Commissioner of Energy and Environmental Protection (“Commissioner”). To request such approval, the permittee and proposed transferee shall register such proposed transfer with the Commissioner, at least thirty days prior to the transferee becoming legally responsible for creating or maintaining any discharge which is the subject of the permit transfer. Failure, by the transferee, to obtain the Commissioner's approval prior to commencing such discharge(s) may subject the transferee to enforcement action for discharging without a permit pursuant to applicable sections of the CGS and RCSA.
- (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.
- (I) The permittee shall operate and maintain its collection and treatment system in accordance with its Operation and Maintenance Plan, March 2017, and with any approvals issued in accordance with RCSA section 22a-430-3(i)(3).

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.

(B) In addition to the above, the following definitions shall apply to this permit:

“40 CFR” means Title 40 of the Code of Federal Regulations.

“Annually” when used as a sampling frequency in Tables A and B of this permit, means that sampling is required in the month of March.

“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.

“Batch” is the quantity produced as a result of one operation.

Connecticut Water Quality Standards means the regulations adopted under RCSA sections 22a-426-1 through 22a-426-9, as amended.

“Daily Concentration” means the concentration of a substance as measured in a daily composite sample, or the arithmetic average of all grab sample results defining a grab sample average.

“Daily Quantity” means the quantity of waste discharged during an operating day.

“Dilution Factor” means the inverse of the “Instream Waste Concentration”.

“DMR” means Discharge Monitoring Report.

“IC” means “Inhibition Concentration”.

“IC₂₅” means a point estimate of the toxicant concentration that would cause a twenty-five (25) percent reduction in a non-lethal biological measurement of the test organism, such as reproduction or growth.

“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” (“IWC%”) means the concentration (as a percent) of the effluent in the receiving water.

“LC” means Lethal Concentration

“LC₅₀” means the concentration lethal to fifty (50) percent of the test organisms during a specific period.

“Lowest Observed Effect Concentration” (“LOEC”) means the lowest concentration of an effluent or toxicant to which organisms are exposed in a life cycle or partial life-cycle test, which causes adverse effects on the test organisms.

“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.

“No Observed Effect Concentration” (“NOEC”) means the highest concentration of an effluent or toxicant to which organisms are exposed in a life cycle or partial life-cycle test, that causes no observable adverse effects on the test organisms.

“Quarter” means the calendar quarter beginning at 12:00 AM on the first day of March, June, September, and December and ending at 12:00 AM on the first day of June, September, December, and March, respectively.

“Quarterly”, when used as a sampling frequency in Tables A and B of this permit, means that sampling is required in the months of March, June, September, and December.

“Range During Sampling” (“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 continuous monitoring and recording pH meters, Range During Sampling means the maximum and minimum readings recorded with the continuous monitoring device during the Composite or Grab Sample Average sample collection.

“Reporting Frequency” means the frequency at which monitoring results must be provided.

“Semiannual” when used as a sampling frequency in Tables A and B of this permit, means that sampling is required in the months of March and September.

SECTION 3: COMMISSIONER'S DECISION

- (A) The Commissioner has issued a final determination and found that with respect to the discharge, DSN 001-1, modification of the existing system would protect the waters of the state from pollution. The Commissioner’s decision is based on Application 201205290 for permit reissuance received on June 19, 2012 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 the Commissioner’s authorized agent for the discharges and/or activities authorized by, or associated with, this permit in accordance with the following:
- (1) From the issuance of this permit through and including the last day of the first calendar month of such issuance, the Commissioner hereby authorizes the permittee to discharge in accordance with the terms and conditions of Permit No. CT0001180, issued by the Commissioner to the permittee on December 21, 2007, the previous application submitted by the permittee on April 2, 2004, and all modifications and approvals issued by the Commissioner or the Commissioner’s authorized agent for the discharge and/or activities authorized by, or associated with, Permit No. CT0001180, issued by the Commissioner to the permittee on December 21, 2007.
 - (2) Beginning on the first day of the month following the issuance of this permit and continuing until this permit expires or is modified or revoked, the Commissioner hereby authorizes the permittee to discharge in accordance with the terms and conditions of this permit, Application No. 201205290 received by the Department on June 19, 2012, and all modifications and approvals issued by the Commissioner or the Commissioner’s authorized agent for the discharge and/or activities authorized by, or associated with this permit.
- (C) 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 the Commissioner’s authorized agent for the discharges and/or activities authorized by, or associated with, this permit.
- (D) The Commissioner reserves the right to make appropriate revisions to the permit 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 the CGS or regulations adopted thereunder which are then applicable.

SECTION 4: GENERAL EFFLUENT LIMITATIONS

- (A) The permittee shall assure that the surface water affected by the subject discharge shall conform to the *Connecticut Water Quality Standards*.
- (B) 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.
- (C) No discharge shall cause acute or chronic toxicity in the receiving water body beyond any zone of influence specifically allocated to that discharge in this permit.
- (D) The temperature of any discharge shall not increase the temperature of the receiving stream above 85 °F, or in any case, raise the temperature of the receiving stream by more than 4 °F.

SECTION 5: SPECIFIC EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

- (A) The discharge is restricted by, and shall be monitored in accordance with the following tables in this section. The wastewater discharge shall not exceed the effluent limitations in these tables and shall otherwise conform to the specific terms and conditions listed in the tables. The permittee shall comply with the “Remarks” and “Footnotes” noted in the tables that follows and such remarks and footnotes are enforceable like any other term or condition of this permit.
- (B) The wastewaters authorized/approved by this permit shall be collected, treated, and discharged in accordance with this permit and with any approvals issued by the Commissioner or his/her authorized agent for the discharges and activities authorized by or associated with this permit. Any wastewater discharges not expressly identified in these tables or otherwise approved to be discharged by this permit shall not be authorized to be discharged by this permit.
- (C) All samples shall be comprised of only the wastewater described in these tables. Samples shall be collected prior to combination with receiving waters or wastewater of any other type, and after all approved treatment units, if applicable. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. Collection of permit required effluent samples in any location other than the authorized location noted in this permit shall be a violation of this permit.
- (D) In cases where limits and sample type are specified but sampling is not required by this permit, the limits specified shall apply to all samples which may be collected and analyzed by the Department of Energy and Environmental Protection (“Department”) personnel, the permittee, or other parties.
- (E) The permittee shall maintain compliance with its *Solvent Management Plan* which was approved by the Department on October 18, 2012 or any subsequent revisions to the plan which have been approved by the Department.

Table A

[THE REQUIREMENTS OF THIS TABLE APPLY ONLY IF THE AVERAGE MONTHLY EFFLUENT FLOW IS 160,000 GPD OR LESS]

Discharge Serial Number: **DSN 001-1**

Monitoring Location: **1 (EXTERNAL OUTFALL)**

Wastewater Description: **Metal Finishing Wastewaters, Laboratory Wastewater, Water Treatment Wastewater, Air Scrubber Wastewater Floor Washwater/Building Maintenance Wastewater, Tumbling Wastewater, On-Site Groundwater Remediation Wastewater¹, Drum Rinsing Wastewater, Reverse Osmosis (RO) Reject and Backwash Water, Boiler Blowdown, Air Compressor Blowdown/Condensate, Fire Suppression Test Water**

Monitoring Location Description: **After the final pH control tank**

Discharge is to: **Naugatuck River**

Dilution Factor (for Silver):**27.8:1**; Dilution Factor (for Ammonia, Cyanide, Lead, Nickel): **14.4:1**

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			Minimum Level ³	Monitoring Required with Toxicity Testing
			Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ²	Sample Type or Measurement to be reported	Instantaneous limit or required range	Sample/Reporting Frequency	Sample Type or measurement to be reported		
Acute Aquatic Toxicity ⁴ <i>Daphnia pulex</i>	TAA3D	%	LC ₅₀ >43	LC ₅₀ > 21	Quarterly	Daily Composite	LC ₅₀ > 7	NR	Grab		
Acute Aquatic Toxicity ⁴ <i>Pimephales promelas</i>	TAA6C	%	LC ₅₀ > 43	LC ₅₀ > 21	Quarterly	Daily Composite	LC ₅₀ > 7	NR	Grab		
Chronic Aquatic Toxicity (Survival) ⁵ <i>Ceriodaphnia dubia</i>	TOP3B	%	C-NOEC > 4.3	C-NOEC > 2.1	Semiannual ⁶	Daily Composite	NA	NR	NA		
Chronic Aquatic Toxicity (Reproduction) ⁵ <i>Ceriodaphnia dubia</i>	TPP3B	%	C-NOEC > 4.3	C-NOEC > 2.1	Semiannual ⁶	Daily Composite	NA	NR	NA		
Chronic Aquatic Toxicity (Survival) ⁵ <i>Pimephales promelas</i>	TOP6C	%	C-NOEC > 4.3	C-NOEC > 2.1	Semiannual ⁶	Daily Composite	NA	NR	NA		
Chronic Aquatic Toxicity (Growth) ⁵ <i>Pimephales promelas</i>	TPP6C	%	C-NOEC > 4.3	C-NOEC > 2.1	Semiannual ⁶	Daily Composite	NA	NR	NA		
Alkalinity, as CaCO ₃	00410	mg/L	---	---	Weekly	Daily Composite	NA	NR	NA		✓
Aluminum, Total	01105	µg/L	269	540	Weekly	Daily Composite	810	NR	Grab	10	✓
Aluminum, Total	01105	g/day	163	327	Weekly	Daily Composite	NA	NR	NA		
Ammonia (as N) <i>(from April 1st to October 31st)</i>	00610	mg/L	15.0	32.5	Monthly	Daily Composite	48.7	NR	Grab	5	✓
Ammonia (as N) <i>(from April 1st to October 31st)</i>	00610	kg/day	9.13	19.68	Monthly	Daily Composite	NA	NR	NA		
Ammonia (as N) <i>(from November 1st to March 31st)</i>	00610	mg/L	---	---	Monthly	Daily Composite	NA	NR	NA		
Ammonia (as N) <i>(from November 1st to March 31st)</i>	00610	kg/day	---	---	Monthly	Daily Composite	NA	NR	NA		
Biochemical Oxygen Demand, 5-day (BOD ₅)	00310	mg/L	30	50	Monthly	Daily Composite	75	NR	Grab		✓
Biochemical Oxygen Demand, 5-day (BOD ₅)	00310	lbs/day	40.0	---	Monthly	Daily Composite	NA	NR	NA		
Cadmium, Total	01027	µg/L	0.14 ⁷	0.21	Annually	Daily Composite	0.31	NR	Grab	0.2	✓
Cadmium, Total	01027	g/day	0.10	0.14	Annually	Daily Composite	NA	NR	NA		
Chloride	00940	mg/L	---	---	Monthly	Daily Composite	NA	NR	NA		✓
Chlorine, Total Residual	50060	µg/L	---	---	Weekly	Grab Sample Average	NA	NR	Grab	10	✓
Chlorine, Total Residual	50060	g/day	---	---	Weekly	Grab Sample Average	NA	NR	NA		
Chloroform	32106	µg/L	470	686	Monthly	Grab Sample Average	1029	NR	Grab		✓

Table A

[THE REQUIREMENTS OF THIS TABLE APPLY ONLY IF THE AVERAGE MONTHLY EFFLUENT FLOW IS 160,000 GPD OR LESS]

Discharge Serial Number: **DSN 001-1** Monitoring Location: **1 (EXTERNAL OUTFALL)**
 Wastewater Description: **Metal Finishing Wastewaters, Laboratory Wastewater, Water Treatment Wastewater, Air Scrubber Wastewater Floor Washwater/Building Maintenance Wastewater, Tumbling Wastewater, On-Site Groundwater Remediation Wastewater¹, Drum Rinsing Wastewater, Reverse Osmosis (RO) Reject and Backwash Water, Boiler Blowdown, Air Compressor Blowdown/Condensate, Fire Suppression Test Water**
 Monitoring Location Description: **After the final pH control tank**
 Discharge is to: **Naugatuck River** Dilution Factor (for Silver):**27.8:1**; Dilution Factor (for Ammonia, Cyanide, Lead, Nickel): **14.4:1**

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			Minimum Level ³	Monitoring Required with Toxicity Testing	
			Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ²	Sample Type or Measurement to be reported	Instantaneous limit or required range	Sample/Reporting Frequency	Sample Type or measurement to be reported			
Chloroform	32106	g/day	285	416	Monthly	Grab Sample Average	NA	NR	NA		✓	
Chromium, Total	01034	µg/L	47	69	Semiannual	Daily Composite	103.5	NR	Grab	5	✓	
Chromium, Total	01034	g/day	32	47	Semiannual	Daily Composite	NA	NR	NA			
cis-1,2-Dichloroethylene ⁸	77093	µg/L	---	---	Monthly	Grab Sample Average	NA	NR	NA		✓	
INTERIM LIMITS ⁹	Copper, Total	01042	µg/L	148	253	Weekly	Daily Composite	379	NR	Grab	5	✓
	Copper, Total	01042	g/day	101	172	Weekly	Daily Composite	NA	NR	NA		
FINAL LIMITS ⁹	Copper, Total	01042	µg/L	13	26	Weekly	Daily Composite	39	NR	Grab	5	
	Copper, Total	01042	g/day	9	18	Weekly	Daily Composite	NA	NR	NA		
Cyanide, Total	00720	µg/L	61	123	Weekly	Grab Sample Average	184.5	NR	Grab	10	✓	
Cyanide, Total	00720	g/day	42	84	Weekly	Grab Sample Average	NA	NR	NA			
Duration of Discharge	82517	hrs/day	---	---	Daily	Total Daily Flow	NA	NR	NA			
Flow Rate (Average Daily) ¹⁰	00056	gpd	160,000	NA	Daily	Total Daily Flow	NA	NR	NA			
Flow, Maximum during 24-hr period ¹⁰	50047	gpd	NA	235,000	Daily	Total Daily Flow	NA	NR	NA			
Flow (Day of Sampling)	74076	gpd	NA	235,000	Weekly	Total Daily Flow	NA	NR	NA		✓	
Fluoride	00951	mg/L	20	30	Monthly	Daily Composite	45	NR	Grab		✓	
Fluoride	00951	kg/day	12.1	18.1	Monthly	Daily Composite	NA	NR	Grab			
Formaldehyde	71880	µg/L	---	---	Monthly	Daily Composite	NA	NR	NA		✓	
Gold, Total	71910	mg/L	0.1	0.5	Monthly	Daily Composite	0.75	NR	Grab		✓	
Gold, Total	71910	g/day	61	303	Monthly	Daily Composite	NA	NR	Grab			
Iron, Total	01045	mg/L	3.0	5.0	Monthly	Daily Composite	7.5	NR	Grab		✓	
Iron, Total	01045	g/day	1816	3027	Monthly	Daily Composite	NA	NR	Grab			
Kjeldahl Nitrogen, Total (as N)	00625	mg/L	---	---	Weekly	Daily Composite	NA	NR	NA		✓	
Lead, Total	01051	µg/L	10	20	Weekly	Daily Composite	30	NR	Grab	1	✓	
Lead, Total	01051	g/day	6.7	13.4	Weekly	Daily Composite	NA	NR	NA			
Mercury, Total ⁸	71901	µg/L	---	---	Monthly	Daily Composite	NA	NR	NA	0.0005	✓	
Mercury, Total ⁸	71901	g/day	---	---	Monthly	Daily Composite	NA	NR	NA			
Nickel, Total	01067	µg/L	246	564	Weekly	Daily Composite	846	NR	Grab	5	✓	
Nickel, Total	01067	g/day	168	385	Weekly	Daily Composite	NA	NR	NA			
Nitrate (as N)	00620	mg/L	---	---	Weekly	Daily Composite	NA	NR	NA		✓	

Table A

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Discharge Serial Number: **DSN 001-1** Monitoring Location: **1 (EXTERNAL OUTFALL)**
 Wastewater Description: **Metal Finishing Wastewaters, Laboratory Wastewater, Water Treatment Wastewater, Air Scrubber Wastewater Floor Washwater/Building Maintenance Wastewater, Tumbling Wastewater, On-Site Groundwater Remediation Wastewater¹, Drum Rinsing Wastewater, Reverse Osmosis (RO) Reject and Backwash Water, Boiler Blowdown, Air Compressor Blowdown/Condensate, Fire Suppression Test Water**
 Monitoring Location Description: **After the final pH control tank**
 Discharge is to: **Naugatuck River** Dilution Factor (for Silver):**27.8:1**; Dilution Factor (for Ammonia, Cyanide, Lead, Nickel): **14.4:1**

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			Minimum Level ³	Monitoring Required with Toxicity Testing	
			Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ²	Sample Type or Measurement to be reported	Instantaneous limit or required range	Sample/Reporting Frequency	Sample Type or measurement to be reported			
Nitrite (as N)	00615	mg/L	---	---	Weekly	Daily Composite	NA	NR	NA		✓	
Nitrogen, Total [See Remark 4]	00600	lbs/day	26.7	---	Weekly	Calculated	NA	NR	NA			
Oil & Grease, Total	00556	mg/L	10	---	Weekly	Grab Sample Average	20	NR	Grab		✓	
Oil & Grease, Total	00556	kg/day	6.05	---	Weekly	Grab Sample Average	NA	NR	NA			
pH, Minimum	61942	SU	NA	NA	NR	NA	6.0	Continuous	Continuous			
pH, Maximum	61941	SU	NA	NA	NR	NA	9.0	Continuous	Continuous			
pH, Day of Sampling	00400	SU	NA	NA	NR	NA	6.0 - 9.0	Weekly	Grab		✓	
Phosphorus, Total	00665	lbs/day	---	---	Monthly	Daily Composite	NA	NR	NA		✓	
Phosphorus, Total	00665	mg/L	---	---	Monthly	Daily Composite	NA	NR	NA			
INTERIM LIMITS ⁵	Silver, Total	01077	µg/L	32	65	Weekly	Daily Composite	97	NR	Grab	1	✓
	Silver, Total	01077	g/day	22	44	Weekly	Daily Composite	NA	NR	NA		
FINAL LIMITS ⁶	Silver, Total	01077	µg/L	12	28	Weekly	Daily Composite	42	NR	Grab	1	✓
	Silver, Total	01077	g/day	8.0	19.4	Weekly	Daily Composite	NA	NR	NA		
Surfactants, Anionic	38260	mg/L	---	---	Monthly	Daily Composite	NA	NR	NA		✓	
Tin, Total	01102	mg/L	2.0	4.0	Monthly	Daily Composite	6.0	NR	NA		✓	
Tin, Total	01102	g/day	1211	2422	Monthly	Daily Composite	NA	NR	NA			
Total Suspended Solids	00530	mg/L	20	30	Weekly	Daily Composite	45	NR	Grab		✓	
Total Suspended Solids	00530	kg/day	12.1	18.1	Weekly	Daily Composite	NA	NR	NA			
Total Toxic Organics [See Remark 6]	78141	mg/L	NA	NA	NR	NA	1.0	Monthly	Grab	0.01		
1,1,1-Trichloroethane ⁸	34506	µg/L	---	---	Monthly	Grab Sample Average	NA	NR	NA		✓	
Trichloroethylene ⁸	39180	µg/L	---	---	Monthly	Grab Sample Average	NA	NR	NA		✓	
Zinc, Total	01092	µg/L	39	65	Weekly	Daily Composite	97	NR	Grab	10	✓	
Zinc, Total	01092	g/day	26	44	Weekly	Daily Composite	NA	NR	NA			

TABLE A FOOTNOTES AND REMARKS

Footnotes:

¹ The permittee shall not be authorized to treat on-site remediation groundwater in its treatment system unless and until it complies with Section 10(A) of this permit.

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TABLE A FOOTNOTES AND REMARKS (CONTINUED)

² The first entry in this column is the “Sample Frequency”. If a “Reporting Frequency” does not follow this entry then the “Reporting Frequency” is monthly.

³ Minimum Level refers to Section 6(D) of this permit. The MLs identified in this table represent the highest acceptable MLs. Actual MLs reported by the laboratory must be reported on the DMR. Detected concentrations less than the noted ML shall be reported on the DMR as the concentration reported by the laboratory.

⁴ Acute toxicity testing shall be conducted in accordance with Section 7(A) of this permit. The LC₅₀ results (in %) for the acute toxicity testing shall be reported on the DMR.

⁵ Chronic toxicity testing shall be conducted in accordance with Section 7(B) of this permit. The C-NOEC (Chronic-No Observed Effect Concentration) results (in %) for the conditions noted in this table shall be reported on the DMR. Attachment A of this permit shall be completed for each chronic toxicity testing event and the completed Attachment A shall be submitted with the DMR.

⁶ The permittee shall use best efforts to ensure that the chronic testing conducted in September shall be conducted over a period when the streamflow in the Naugatuck River is at or below 125 cubic foot per second (cfs) as measured at USGS Station 01206900. If the streamflow of the river is below 125 cfs at the start of the test, but increases to above 125 cfs during the test, the permittee shall continue the test.

⁷ The noted permit limit is below the Minimum Level (ML). Therefore, compliance with this limit will be determined based on the ML. The permittee shall conduct analysis for this parameter in accordance with a sufficiently-sensitive test method. If the measured value is less than the ML, the results shall be reported in accordance with Section 6(F) and the results will be considered to be in compliance with the permit limit. If the measured value is greater or equal to the ML, the actual results obtained shall be reported on the DMR and these results will be considered a violation of the permit limit.

⁸ These parameters have been detected in the groundwater at the site. Monitoring for these parameters shall occur only following approval of Section 10(A) of this permit. Monitoring for these parameters shall occur when treated groundwater is present in the discharge. The permittee shall maintain operating records documenting when the groundwater is treated.

⁹ Interim limits shall take effect upon issuance of this permit. The final limits shall take effect on the final compliance date approved in accordance with Section 10(C) of the permit.

¹⁰ For this parameter, the permittee shall maintain at the facility a record of the Total Daily Flow for each day. The permittee shall report on its DMR the “Average Daily Flow” and the “Maximum Daily Flow” for each month and shall provide the record of the Total Daily Flow as an attachment to the DMR (Attachment D).

Remarks:

1. Abbreviations used for units are as follows: gpd means gallons per day; g/day means grams per day; kg/day means kilograms per day; mg/L means milligrams per liter; lbs/day means pounds per day; SU means Standard Units; µg/l means micrograms per liter; ng/L means nanograms per liter. Other abbreviations are as follows: NA means Not Applicable; NR means Not Reportable (unless sampling is conducted relative to Section 5(D) of this permit); RDS means Range During Sampling.

2. If “---” is noted in the limits column in the table, this means that a limit is not specified but a value must be reported on the DMR.

3. pH shall be reported to 0.1 SU. Total Nitrogen shall be reported to 0.1 lb/day. Total Phosphorus shall be reported to 0.01 lb/day. All other values shall be reported to the level of precision/accuracy reported by the laboratory.

4. In calculating average concentrations, use zeros for values reported as less than the ML.

5. “Continuous”, used in this table as a “Sample” or “Sample Type”, means monitoring that produces one or more data points in fifteen minutes or less.

6. Total Nitrogen means the sum of the concentrations of: Ammonia Nitrogen + Organic Nitrogen + Nitrate Nitrogen + Nitrite Nitrogen. The concentration-based value shall be converted to lbs/day and reported on the DMR.

(CONTINUED ON THE NEXT PAGE)

TABLE A FOOTNOTES AND REMARKS (CONTINUED)

7. Monitoring for Total Toxic Organics (TTOs) shall be performed in accordance with Section 8(D) of this permit. The limit is a maximum daily limit. Laboratory results for TTOs shall be included with the DMR.

8. pH shall be reported to 0.1 SU. Total Nitrogen shall be reported to 0.1 lb/day. All other values shall be reported to the level of precision/accuracy reported by the laboratory.

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Table B

[THE REQUIREMENTS OF THIS TABLE APPLY WHEN THE AVERAGE MONTHLY EFFLUENT FLOW IS GREATER THAN 160,000 GPD]

Discharge Serial Number: **DSN 001-1** Monitoring Location: **1 (EXTERNAL OUTFALL)**
 Wastewater Description: **Metal Finishing Wastewaters, Laboratory Wastewater, Water Treatment Wastewater, Air Scrubber Wastewater Floor Washwater/Building Maintenance Wastewater, Tumbling Wastewater, On-Site Groundwater Remediation Wastewater¹, Drum Rinsing Wastewater, Reverse Osmosis (RO) Reject and Backwash Water, Boiler Blowdown, Air Compressor Blowdown/Condensate, Fire Suppression Test Water**
 Monitoring Location Description: **After the final pH control tank**
 Discharge is to: **Naugatuck River** Dilution Factor (for Silver):**15.8:1**; Dilution Factor (for Ammonia, Cyanide, Lead, and Nickel): **8.4:1**

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			Minimum Level ³	Monitoring Required with Toxicity Testing
			Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ²	Sample Type or Measurement to be reported	Instantaneous limit or required range	Sample/Reporting Frequency	Sample Type or measurement to be reported		
Acute Aquatic Toxicity ⁴ <i>Daphnia pulex</i>	TAA3D	%	LC ₅₀ > 96	LC ₅₀ > 48	Quarterly	Daily Composite	LC ₅₀ > 16	NR	Grab		
Acute Aquatic Toxicity ⁴ <i>Pimephales promelas</i>	TAA6C	%	LC ₅₀ > 96	LC ₅₀ > 48	Quarterly	Daily Composite	LC ₅₀ > 16	NR	Grab		
Chronic Aquatic Toxicity (Survival) ⁵ <i>Ceriodaphnia dubia</i>	TOP3B	%	C-NOEC > 9.6	C-NOEC > 4.7	Semiannual ⁶	Daily Composite	NA	NR	NA		
Chronic Aquatic Toxicity (Reproduction) ⁵ <i>Ceriodaphnia dubia</i>	TPP3B	%	C-NOEC > 9.6	C-NOEC > 4.7	Semiannual ⁶	Daily Composite	NA	NR	NA		
Chronic Aquatic Toxicity (Survival) ⁵ <i>Pimephales promelas</i>	TOP6C	%	C-NOEC > 9.6	C-NOEC > 4.7	Semiannual ⁶	Daily Composite	NA	NR	NA		
Chronic Aquatic Toxicity (Growth) ⁵ <i>Pimephales promelas</i>	TPP6C	%	C-NOEC > 9.6	C-NOEC > 4.7	Semiannual ⁶	Daily Composite	NA	NR	NA		
Alkalinity, as CaCO ₃	00410	mg/L	---	---	Weekly	Daily Composite	NA	NR	NA		✓
Aluminum, Total	01105	µg/L	167	335	Weekly	Daily Composite	502.5	NR	Grab		✓
Aluminum, Total	01105	g/day	209	419	Weekly	Daily Composite	NA	NR	NA		
Ammonia (as N) <i>(from April 1st to October 31st)</i>	00610	mg/L	7.87	16.9	Monthly	Daily Composite	25.35	NR	NA	5	✓
Ammonia (as N) <i>(from April 1st to October 31st)</i>	00610	kg/day	9.83	21.2	Monthly	Daily Composite	NA	NR	NA		
Ammonia (as N) <i>(from November 1st to March 31st)</i>	00610	mg/L	---	---	Monthly	Daily Composite	NA	NR	NA		
Ammonia (as N) <i>(from November 1st to March 31st)</i>	00610	kg/day	---	---	Monthly	Daily Composite	NA	NR	NA		
Biochemical Oxygen Demand, 5-day (BOD ₅)	00310	mg/L	30	50	Monthly	Daily Composite	75	NR	Grab		✓
Biochemical Oxygen Demand, 5-day (BOD ₅)	00310	lbs/day	82.5	---	Monthly	Daily Composite	NA	NR	NA		
Cadmium, Total	01027	µg/L	0.14 ⁷	0.21	Annually	Daily Composite	0.315	NR	Grab	0.2	✓
Cadmium, Total	01027	g/day	0.18	0.26	Annually	Daily Composite	NA	NR	NA		
Chloride	00940	mg/L	---	---	Monthly	Daily Composite	NA	NR	NA		✓
Chlorine, Total Residual	50060	µg/L	---	---	Weekly	Grab Sample Average	NA	NR	Grab	10	✓

Table B

[THE REQUIREMENTS OF THIS TABLE APPLY WHEN THE AVERAGE MONTHLY EFFLUENT FLOW IS GREATER THAN 160,000 GPD]

Discharge Serial Number: **DSN 001-1** | Monitoring Location: **1 (EXTERNAL OUTFALL)**

Wastewater Description: **Metal Finishing Wastewaters, Laboratory Wastewater, Water Treatment Wastewater, Air Scrubber Wastewater Floor Washwater/Building Maintenance Wastewater, Tumbling Wastewater, On-Site Groundwater Remediation Wastewater¹, Drum Rinsing Wastewater, Reverse Osmosis (RO) Reject and Backwash Water, Boiler Blowdown, Air Compressor Blowdown/Condensate, Fire Suppression Test Water**

Monitoring Location Description: **After the final pH control tank**

Discharge is to: **Naugatuck River** | Dilution Factor (for Silver):**15.8:1**; Dilution Factor (for Ammonia, Cyanide, Lead, and Nickel): **8.4:1**

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			Minimum Level ³	Monitoring Required with Toxicity Testing	
			Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ²	Sample Type or Measurement to be reported	Instantaneous limit or required range	Sample/Reporting Frequency	Sample Type or measurement to be reported			
Chlorine, Total Residual	50060	g/day	---	---	Weekly	Grab Sample Average	NA	NR	NA			
Chloroform	32106	µg/L	470	686	Monthly	Grab Sample Average	1029	NR	Grab		✓	
Chloroform	32106	g/day	588	857	Monthly	Grab Sample Average	NA	NR	NA		✓	
Chromium, Total	01034	µg/L	47	69	Semiannual	Daily Composite	103.5	NR	Grab	5	✓	
Chromium, Total	01034	g/day	59	86	Semiannual	Daily Composite	NA	NR	NA			
cis-1,2-Dichloroethylene ⁸	77093	µg/L	---	---	Monthly	Grab Sample Average	NA	NR	NA		✓	
INTERIM LIMITS ⁹	Copper, Total	01042	µg/L	148	253	Weekly	Daily Composite	379	NR	Grab	5	
	Copper, Total	01042	g/day	184	316	Weekly	Daily Composite	NA	NR	NA		
FINAL LIMITS ⁹	Copper, Total	01042	µg/L	13	26	Weekly	Daily Composite	39	NR	Grab	5	✓
	Copper, Total	01042	g/day	16	32	Weekly	Daily Composite	NA	NR	NA		
Cyanide, Total	00720	µg/L	35	71	Weekly	Grab Sample Average	106.5	NR	Grab	10	✓	
Cyanide, Total	00720	g/day	44	89	Weekly	Grab Sample Average	NA	NR	NA			
Duration of Discharge	82517	hrs/day	---	---	Daily	Total Daily Flow	NA	NR	NA			
Flow Rate (Average Daily) ¹⁰	00056	gpd	330,000	NA	Daily	Total Daily Flow	NA	NR	NA			
Flow, Maximum during 24-hr period ¹⁰	50047	gpd	NA	400,000	Daily	Total Daily Flow	NA	NR	NA			
Flow (Day of Sampling)	74076	gpd	NA	400,000	Weekly	Total Daily Flow	NA	NR	NA		✓	
Fluoride	00951	mg/L	20	30	Monthly	Daily Composite	45	NR	Grab		✓	
Fluoride	00951	kg/day	24.9	37.5	Monthly	Daily Composite	NA	NR	NA			
Formaldehyde	71880	µg/L	---	---	Monthly	Daily Composite	NA	NR	NA		✓	
Gold, Total	71910	mg/L	0.1	0.5	Monthly	Daily Composite	0.75	NR	Grab		✓	
Gold, Total	71910	g/day	125	624	Monthly	Daily Composite	NA	NR	NA			
Iron, Total	01045	mg/L	3.0	5.0	Monthly	Daily Composite	7.5	NR	Grab		✓	
Iron, Total	01045	g/day	3746	6244	Monthly	Daily Composite	NA	NR	NA			
Kjeldahl Nitrogen, Total (as N)	00625	mg/L	---	---	Weekly	Daily Composite	NA	NR	NA		✓	
Lead, Total	01051	µg/L	5.8	12	Weekly	Daily Composite	18	NR	Grab	1	✓	
Lead, Total	01051	g/day	7.2	14.5	Weekly	Daily Composite	NA	NR	NA			
Mercury, Total ⁸	71901	µg/L	---	---	Monthly	Daily Composite	NA	NR	NA	0.0005	✓	
Mercury, Total ⁸	71901	g/day	---	---	Monthly	Daily Composite	NA	NR	NA			

Table B

[THE REQUIREMENTS OF THIS TABLE APPLY WHEN THE AVERAGE MONTHLY EFFLUENT FLOW IS GREATER THAN 160,000 GPD]

Discharge Serial Number: **DSN 001-1** Monitoring Location: **1 (EXTERNAL OUTFALL)**
 Wastewater Description: **Metal Finishing Wastewaters, Laboratory Wastewater, Water Treatment Wastewater, Air Scrubber Wastewater Floor Washwater/Building Maintenance Wastewater, Tumbling Wastewater, On-Site Groundwater Remediation Wastewater¹, Drum Rinsing Wastewater, Reverse Osmosis (RO) Reject and Backwash Water, Boiler Blowdown, Air Compressor Blowdown/Condensate, Fire Suppression Test Water**
 Monitoring Location Description: **After the final pH control tank**
 Discharge is to: **Naugatuck River** Dilution Factor (for Silver):**15.8:1**; Dilution Factor (for Ammonia, Cyanide, Lead, and Nickel): **8.4:1**

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			Minimum Level ³	Monitoring Required with Toxicity Testing	
			Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ²	Sample Type or Measurement to be reported	Instantaneous limit or required range	Sample/Reporting Frequency	Sample Type or measurement to be reported			
Nickel, Total	01067	µg/L	144	331	Weekly	Daily Composite	496.5	NR	Grab	5	✓	
Nickel, Total	01067	g/day	180	413	Weekly	Daily Composite	NA	NR	NA			
Nitrate (as N)	00620	mg/L	---	---	Weekly	Daily Composite	NA	NR	NA		✓	
Nitrite (as N)	00615	mg/L	---	---	Weekly	Daily Composite	NA	NR	NA		✓	
Nitrogen, Total [See Remark 4]	00600	lbs/day	26.7	---	Weekly	Calculated	NA	NR	NA			
Oil & Grease, Total	00556	mg/L	10	---	Weekly	Grab Sample Average	20	NR	Grab		✓	
Oil & Grease, Total	00556	kg/day	12.5	---	Weekly	Grab Sample Average	NA	NR	NA			
pH, Minimum	61942	SU	NA	NA	NR	NA	6.0	Continuous	Minimum			
pH, Maximum	61941	SU	NA	NA	NR	NA	9.0	Continuous	Maximum			
pH, Day of Sampling	00400	SU	NA	NA	NR	NA	6.0 - 9.0	Weekly	Grab		✓	
Phosphorus, Total	00665	lbs/day	---	---	Monthly	Daily Composite	NA	NR	NA		✓	
Phosphorus, Total	00665	mg/L	---	---	Monthly	Daily Composite	NA	NR	NA			
INTERIM LIMITS ⁹	Silver, Total	01077	µg/L	32	65	Weekly	Daily Composite	97	NR	Grab	1	✓
	Silver, Total	01077	g/day	40	81	Weekly	Daily Composite	NA	NR	NA		
FINAL LIMITS ⁸	Silver, Total	01077	µg/L	6.6	16	Weekly	Daily Composite	24	NR	Grab	1	✓
	Silver, Total	01077	g/day	8.3	19.9	Weekly	Daily Composite	NA	NR	NA		
Surfactants, Anionic	38260	mg/L	---	---	Monthly	Daily Composite	NA	NR	NA		✓	
Tin, Total	01102	mg/L	2.0	4.0	Monthly	Daily Composite	6.0	NR	NA		✓	
Tin, Total	01102	g/day	2498	4995	Monthly	Daily Composite	NA	NR	NA			
Total Suspended Solids	00530	mg/L	20	30	Weekly	Daily Composite	45	NR	Grab		✓	
Total Suspended Solids	00530	kg/day	25.0	37.5	Weekly	Daily Composite	NA	NR	NA			
Total Toxic Organics [See Remark 6]	78141	mg/L	NA	NA	NR	NA	1.0	Monthly	Grab	0.01		
1,1,1-Trichloroethane ⁸	34506	µg/L	---	---	Monthly	Grab Sample Average	NA	NR	NA		✓	
Trichloroethylene ⁸	39180	µg/L	---	---	Monthly	Grab Sample Average	NA	NR	NA		✓	
Zinc, Total	01092	µg/L	39	65	Weekly	Daily Composite	97.5	NR	Grab	10	✓	
Zinc, Total	01092	g/day	49	81	Weekly	Daily Composite	NA	NR	NA			

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TABLE B FOOTNOTES AND REMARKS

Footnotes:

- ¹ The permittee shall not be authorized to treat on-site remediation groundwater in its treatment system unless and until it complies with Section 10(A) of this permit.
- ² The first entry in this column is the "Sample Frequency". If a "Reporting Frequency" does not follow this entry then the "Reporting Frequency" is monthly.
- ³ Minimum Level refers to Section 6(D) of this permit. The MLs identified in this table represent the highest acceptable MLs. Actual MLs reported by the laboratory must be reported on the DMR. Detected concentrations less than the noted ML shall be reported on the DMR as the concentration reported by the laboratory.
- ⁴ Acute toxicity testing shall be conducted in accordance with Section 7(A) of this permit. The LC₅₀ results (in %) for the acute toxicity testing shall be reported on the DMR.
- ⁵ Chronic toxicity testing shall be conducted in accordance with Section 7(B) of this permit. The C-NOEC (Chronic-No Observed Effect Concentration) results (in %) for the conditions noted in this table shall be reported on the DMR. Attachment A of this permit shall be completed for each chronic toxicity testing event and the completed Attachment A shall be submitted with the DMR.
- ⁶ The permittee shall use best efforts to ensure that the chronic testing conducted in September shall be conducted over a period when the streamflow in the Naugatuck River is at or below 125 cubic foot per second (cfs) as measured at USGS Station 01206900. If the streamflow of the river is below 125 cfs at the start of the test, but increases to above 125 cfs during the test, the permittee shall continue the test.
- ⁷ The noted permit limit is below the Minimum Level (ML). Therefore, compliance with this limit will be determined based on the ML. The permittee shall conduct analysis for this parameter in accordance with a sufficiently-sensitive test method. If the measured value is less than the ML, the results shall be reported in accordance with Section 6(F) and the results will be considered to be in compliance with the permit limit. If the measured value is greater or equal to the ML, the actual results obtained shall be reported on the DMR and these results will be considered a violation of the permit limit.
- ⁸ These parameters have been detected in the groundwater at the site. Monitoring for these parameters shall occur only following approval of Section 10(A) of this permit. Monitoring for these parameters shall occur when treated groundwater is present in the discharge. The permittee shall maintain operating records documenting when the groundwater is treated.
- ⁹ Interim limits shall take effect upon issuance of this permit. The final limits shall take effect on the final compliance date approved in accordance with Section 10(C) of the permit.
- ¹⁰ For this parameter, the permittee shall maintain at the facility a record of the Total Daily Flow for each day. The permittee shall report on its DMR the "Average Daily Flow" and the "Maximum Daily Flow" for each month and shall provide the record of the Total Daily Flow as an attachment to the DMR (Attachment D).

Remarks:

1. Abbreviations used for units are as follows: gpd means gallons per day; g/day means grams per day; kg/day means kilograms per day; mg/L means milligrams per liter; lbs/day means pounds per day; SU means Standard Units; µg/l means micrograms per liter; ng/L means nanograms per liter. Other abbreviations are as follows: NA means Not Applicable; NR means Not Reportable (unless sampling is conducted relative to Section 5(D) of this permit); RDS means Range During Sampling.
2. If "---" is noted in the limits column in the table, this means that a limit is not specified but a value must be reported on the DMR.
3. pH shall be reported to 0.1 SU. Total Nitrogen shall be reported to 0.1 lb/day. Total Phosphorus shall be reported to 0.01 lb/day. All other values shall be reported to the level of precision/accuracy reported by the laboratory.
4. In calculating average concentrations, use zeros for values reported as less than the ML.
5. "Continuous", used in this table as a "Sample" or "Sample Type", means monitoring that produces one or more data points in fifteen minutes or less.

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TABLE B FOOTNOTES AND REMARKS (CONTINUED)

6. Total Nitrogen means the sum of the concentrations of: Ammonia Nitrogen + Organic Nitrogen + Nitrate Nitrogen + Nitrite Nitrogen. The concentration-based value shall be converted to lbs/day and reported on the DMR.
7. Monitoring for Total Toxic Organics (TTOs) shall be performed in accordance with Section 8(D) of this permit. The limit is a maximum daily limit. Laboratory results for TTOs shall be included with the DMR.
8. pH shall be reported to 0.1 SU. Total Nitrogen shall be reported to 0.1 lb/day. All other values shall be reported to the level of precision/accuracy reported by the laboratory.

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Table C

Discharge Serial Number: **DSN 001A** Monitoring Location: **INTERNAL MONITORING POINT**
 Wastewater Description: **Treated cyanide-bearing wastewaters**
 Monitoring Location Description: **Immediately after the second-stage amenable cyanide treatment tank**
 Discharge is to: **DSN 001-1**

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING		
			Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ¹	Sample Type or Measurement to be reported	Instantaneous limit or required range	Sample/Reporting Frequency	Sample Type or measurement to be reported
Cyanide, Amenable	00722	mg/L	0.1	0.2	Weekly	Grab Sample Average	0.3	NR	Grab

TABLE C FOOTNOTES AND REMARKS

Footnote:
¹ The first entry in this column is the “Sample Frequency”. If a “Reporting Frequency” does not follow this entry and the “Sample Frequency” is more frequent than monthly then the “Reporting Frequency” is monthly. If the “Sample frequency” is specified as monthly, or less frequent, then the “Reporting Frequency” is the same as the “Sample Frequency”.

Remark:
 1. Abbreviations used for units are as follows: mg/L means milligrams per liter. Other abbreviations are as follows: NA means Not Applicable; NR means Not Reportable (unless sampling is conducted relative to Section 5(D) of this permit)

Table D

[TABLE D TAKES EFFECT UPON APPROVAL OF SECTION 10(B) OF THIS PERMIT.]

Discharge Serial Number: **DSN 001B** Monitoring Location: **INTERNAL MONITORING POINT**
 Wastewater Description: **Treated hexavalent chromium-bearing wastewaters**
 Monitoring Location Description: **Immediately after the hexavalent chromium treatment tank**
 Discharge is to: **DSN 001-1**

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING		
			Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ¹	Sample Type or Measurement to be reported	Instantaneous limit or required range	Sample/Reporting Frequency	Sample Type or measurement to be reported
Hexavalent Chromium	01032	mg/L	0.1	0.2	Weekly	Grab Sample Average	0.3	NR	Grab

TABLE D FOOTNOTES AND REMARKS

Footnote:

¹ The first entry in this column is the “Sample Frequency”. If a “Reporting Frequency” does not follow this entry and the “Sample Frequency” is more frequent than monthly then the “Reporting Frequency” is monthly. If the “Sample frequency” is specified as monthly, or less frequent, then the “Reporting Frequency” is the same as the “Sample Frequency”.

Remark:

1. Abbreviations used for units are as follows: mg/L means milligrams per liter. Other abbreviations are as follows: NA means Not Applicable; NR means Not Reportable (unless sampling is conducted relative to Section 5(D) of this permit)

SECTION 6: SAMPLE COLLECTION, HANDLING AND ANALYTICAL TECHNIQUES

- (A) All samples shall be collected, handled, and analyzed in accordance with the methods approved under 40 CFR 136, unless another method is required under 40 CFR subchapter N or unless an alternative method has been approved in writing pursuant to 40 CFR 136.5. To determine compliance with limits and conditions established in this permit, monitoring must be performed using sufficiently-sensitive methods approved pursuant to 40 CFR 136 for the analysis of pollutants having approved methods under that part, unless a method is required under 40 CFR subchapter N or unless an alternative method has been approved in writing pursuant to 40 CFR 136.5. Monitoring parameters which do not have approved methods of analysis defined in 40 CFR 136 shall be collected, handled, and analyzed in accordance with the methods in Section 6(B), below.
- (B) The latest, most up-to-date, of the following test method(s) as well as the following container, preservation, and hold time requirements, shall be used to analyze the parameters identified below:

PARAMETER	METHOD OF ANALYSIS	CONTAINER/PRESERVATION/MAXIMUM HOLDING TIME
Formaldehyde	EPA 1667	Per Method 1667

- (C) All metals analyses identified in this permit shall refer to analyses for Total Recoverable Metal as defined in 40 CFR 136, unless otherwise specified.
- (D) The term Minimum Level (ML) refers to either the sample concentration equivalent to the lowest calibration point in a method or a multiple of the method detection limit (MDL). MLs may be obtained in several ways: They may be published in a method; they may be sample concentrations equivalent to the lowest acceptable calibration point used by the laboratory; or they may be calculated by multiplying the MDL in a method, or the MDL determined by a lab, by a factor. The Minimum Levels specified in the Section 5 table represent the maximum concentrations at which quantification must be achieved and verified during the chemical analyses for those noted parameters. 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.
- (E) 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.
- (F) Analyses for which quantification was verified to be at or below an ML, 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 ML for that analysis. If the permittee is required to submit its DMRs through the NetDMR system, the permittee shall report the non-detect value consistent with the reporting requirements for NetDMR.
- (G) Results of analyses which indicate that a parameter was not present at a concentration greater than or equal to the ML specified for that analysis shall be considered equivalent to zero for purposes of determining compliance with effluent limitations or conditions specified in this permit.
- (H) It is a violation of this permit for a permittee or his/her designated agent, to manipulate test samples in any manner, to delay sample shipment, or to terminate or to cause to terminate a toxicity test. Once initiated, all toxicity tests must be completed.
- (I) Analyses required under this permit shall be performed in accordance with CGS section 19a-29a. An “environmental laboratory”, as that term is defined in the referenced section, that is performing analyses required by this permit, shall be registered and have certification acceptable to the Commissioner, as such registration and certification is necessary.

SECTION 7: AQUATIC TOXICITY TESTING

- (A) **ACUTE TESTING REQUIREMENTS.** The permittee shall conduct acute aquatic toxicity testing for DSN 001-1 as follows:

- (1) **TEST METHOD:** Acute aquatic toxicity shall be performed as prescribed in the reference document *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms* (EPA-821-R-02-012), or the most current version, with any exceptions or clarifications noted below.
- (2) **SAMPLE COLLECTION AND HANDLING:**
 - (a) Composite samples shall be chilled as they are collected. Grab samples shall be chilled immediately following collection. Samples shall be held at 4 °C until 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.
 - (c) Tests for acute aquatic toxicity shall be initiated within 36 hours of sample collection.
- (3) **TEST SPECIES AND TEST DURATION:** Monitoring for aquatic toxicity to determine compliance with the acute toxicity limits in this permit shall be conducted as follows:
 - (a) For 48-hours utilizing neonatal *Daphnia pulex* (less than 24-hours old).
 - (b) For 48-hours utilizing larval *Pimephales promelas* (1-14 days old with no more than 24-hours range in age).
- (4) **ACUTE ENDPOINT:** Survival at 48 hours measured by LC₅₀.
- (5) **TEST CONDITIONS:**
 - (a) Tests for acute aquatic toxicity shall be conducted as prescribed for static non-renewal tests.
 - (b) Multi-concentration (definitive) testing shall be conducted. The following effluent dilution series concentrations shall be used: 100%, 75%, 50%, 25%, 12.5% and 6.25%.
 - (c) Synthetic freshwater prepared with deionized water adjusted to a hardness of 50 mg/L (± 5 mg/L) as CaCO₃ shall be used as dilution water.
 - (d) All effluent concentrations and the control(s) used in the test shall have the same salinity. If the effluent requires salinity adjustment to a standard salinity, this shall be accomplished by adding a minimum amount of commercial sea salts as described in EPA-821-R-02-012.
 - (e) Organisms shall not be fed during the tests.
 - (g) Copper nitrate shall be used as the reference toxicant.
 - (h) Dissolved oxygen, pH, and temperature shall be measured in the control and in all test concentrations at the beginning of the test, daily thereafter, and at test termination.
 - (i) Specific conductance, pH, alkalinity, hardness, and total residual chlorine shall be measured in the undiluted effluent sample 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.
- (6) **CHEMICAL ANALYSIS:** Chemical analyses of the parameters identified in Table A under "Monitoring Required with Toxicity Testing" shall be conducted on an undiluted aliquot of the same sample tested for acute aquatic toxicity.

(7) **TEST ACCEPTABILITY CRITERIA & COMPLIANCE:** For the test results to be acceptable, control survival must equal or exceed 90%. If the laboratory control fails to meet test acceptability criteria for either of the test organisms at the end of the respective test period, then the test is considered invalid and the test must be repeated with a newly collected sample. Compliance with the limits on Acute Toxicity shall be demonstrated when the results of a valid definitive acute aquatic toxicity test indicates that the LC₅₀ value for the test is greater than the aquatic toxicity limit in Table A.

(B) **CHRONIC TESTING REQUIREMENTS.** The permittee shall conduct chronic toxicity testing for DSN 001-1 as follows:

(1) **TEST METHOD:** Chronic aquatic toxicity testing shall be performed as prescribed in the reference document *Short-term Methods For Estimating The Chronic Toxicity of Effluents and Receiving Water to Freshwater Organisms*, EPA-821-R-02-013, or the most current version, with the following exceptions or clarifications noted below.

(2) **SAMPLE COLLECTION AND HANDLING:**

(a) Composite samples shall be chilled as they are being collected. Samples shall be held at 4 °C until chronic aquatic toxicity testing is initiated.

(b) Effluent samples shall not be dechlorinated, filtered, or modified in any way prior to testing for chronic aquatic toxicity unless specifically approved in writing by the Commissioner for monitoring at this facility.

(c) Tests for chronic aquatic toxicity shall be initiated within 36 hours of sample collection.

(3) **TEST SPECIES AND TEST DURATION:** Monitoring for chronic aquatic toxicity to determine compliance with the chronic toxicity limits/conditions in the permit shall be conducted as follows:

(a) For seven days utilizing neonatal *Ceriodaphnia dubia* (less 24 hours old)

(b) For seven days utilizing newly-hatched *Pimephales promelas* (less 24 hours old).

(4) **CHRONIC ENDPOINTS:**

(a) *Ceriodaphnia dubia*: Survival and Reproduction

(b) *Pimephales promelas*: Survival and Growth

(5) **DILUTION WATER:** Naugatuck River water collected upstream of the area influenced by the discharge shall be used as site control water (0% effluent) and dilution water in the toxicity tests. The Permittee shall document the dilution water sampling location by providing coordinates and/or a map of the location.

If the Naugatuck River dilution water is found or is suspected to be toxic or unreliable, an alternative dilution water standard shall be used in the toxicity test. The use of an alternative dilution water standard is species-specific and shall be conditionally allowed in either of the following two instances:

(a) Instance 1: *When an invalid toxicity test is repeated.* In this instance, the permittee shall implement the use of an alternative dilution water sample without the approval of the Department if the following conditions are met: 1) the test is repeated during the required time frame; 2) the alternative dilution water is of known quality with hardness, pH, conductivity, alkalinity, organic carbon, and total suspended solids, similar to that of the Naugatuck River and the alternative dilution water does not produce a toxic response; 3) receiving water controls are run during the alternative dilution water tests; 4) a complete

toxicity test report is submitted by the permittee and it shall clearly document: that site water toxicity rendered the first test invalid; that a re-test was conducted using an alternative dilution water that matched the characteristics of the site water; that site water controls were included in the re-test; and that the site water controls of the re-test met the minimum acceptability criteria. However, if the re-test documented that the site water controls met the minimum test acceptability criteria, site water must be used as the diluent in future toxicity tests. If the site water controls of the re-test failed to meet test acceptability criteria, an alternative dilution water may be used in future toxicity tests using the affected test organism after submitting written documentation to the Department.

- (b) Instance 2: *In future toxicity tests, where there are at least two documented incidents where use of the Naugatuck River as the dilution water was found to be unreliable.* In this instance, the permittee must receive written approval from the Commissioner prior to using an alternative dilution water. The documentation submitted to the Department in support of the use of alternative dilution water in this instance must include the following: Documentation of site water toxicity including all supporting documentation as well an identification of the affected test organism and an identification of the affected test period; a description of the alternative dilution water proposed; and a description of the controls that will be used in future toxicity tests. Upon approval, the permittee shall implement the use of the alternative dilution water testing for the term of the permit.

(6) **TEST CONDITIONS:**

- (a) Testing for chronic aquatic toxicity shall be conducted as prescribed in the reference document for static daily renewal tests. Daily composite samples of the discharge and grab samples of the Naugatuck River for use as site water and dilution water shall be collected on: Day 1 of the test (for test initiation and renewal on Day 2 of the test); Day 3 of the test (for test solution renewal on Day 3 and Day 4 of the test); and on Day 5 of the test, (for test solution renewal on Day 5, Day 6, and Day 7 of the test). Samples shall not be dechlorinated, pH or hardness adjusted, or chemically altered in any way.
- (b) Test concentrations shall be comprised of a minimum of five dilutions (100%, 64%, 32%, 16%, 8%, and 4% effluent), laboratory control water, and site dilution water. Naugatuck River water shall be used as the dilution water.
- (c) Dissolved oxygen, pH, and temperature shall be measured in each sample of effluent and the Naugatuck River water sample prior to and immediately following renewal of the test solutions.
- (d) Synthetic freshwater prepared with deionized water adjusted to a hardness of 50 mg/l (± 5 mg/l) as CaCO₃ prepared as described in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms* (EPA-821-R-02-013) shall be used as laboratory control water.

- (7) **CHEMICAL ANALYSIS:** Chemical analysis for the parameters identified in Table A of the permit under “Monitoring Required with Toxicity Testing” shall be conducted on an undiluted aliquot of each effluent sample and each sample of Naugatuck River water used in the test. In addition, each sample of undiluted effluent and each sample of Naugatuck River water shall also be analyzed for the following parameters: pH, specific conductance, total hardness, dissolved aluminum, dissolved copper, dissolved iron, dissolved lead, dissolved nickel, and dissolved zinc.

- (8) **TEST ACCEPTABILITY CRITERIA:** If the laboratory control fails to meet test acceptability criteria specified in the reference document for either of the test organisms at the end of the respective test period, then the test is considered invalid and the test must be repeated.

- (9) **REPORTING:** A report detailing the results of the chronic toxicity monitoring shall be submitted no later than 60 days following the day sampling was concluded for that test. A hard copy of the

report shall be submitted to the address in Section 8(B) and an electronic copy shall be submitted consistent with Section 8. The report shall include the items identified in Section 8(B) of this permit. The report shall also include the gage readings of USGS 01206900 during the seven-day duration of the chronic toxicity test period. Endpoints to be reported are: 48-hour LC₅₀ (survival), 7-day LC₅₀ (survival), 7-day C-NOEC (survival), 7-day C-LOEC (survival), 7-day C-NOEC (growth), 7-day C-LOEC (growth), 7-day C-NOEC (reproduction), 7-day C-LOEC (reproduction), 7-day IC₂₅ (growth and reproduction). In addition, Attachment A of this permit shall be completed and submitted consistent with Section 8.

SECTION 8: REPORTING REQUIREMENTS

- (A) The results of chemical analyses and any aquatic toxicity test required by this permit shall be entered on the Discharge Monitoring Report (DMR), provided by this office, and reported to the Bureau of Materials Management and Compliance Assurance (Attn: DMR Processing) at the following address or submitted electronically using NetDMR. Monitoring results shall be reported at the monitoring frequency specified in this permit. Any monitoring required more frequently than monthly shall be reported on an attachment to the DMR, and any additional monitoring conducted in accordance with 40 CFR 136, or another method required for an industry-specific waste stream under 40 CFR subchapter N, or other methods approved by the Commissioner, shall also be included on the DMR, or as an attachment, if necessary, and the results of such monitoring shall be included in the calculation and reporting of the data submitted in the DMR. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Director in the permit. All aquatic toxicity reports shall also be included as an attachment to the DMR. A report shall also be included with the DMR which includes a detailed explanation of any violations of the limitations specified. DMRs, attachments, and reports, shall continue to be submitted electronically in accordance with Section 8(E) below. However, if the DMRs, attachments, and reports are required to be submitted in hard copy form, they shall be received at this address by the last day of the month following the month in which samples are collected:

Bureau of Materials Management and Compliance Assurance
Water Permitting and Enforcement Division (Attn: DMR Processing)
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

- (B) The Aquatic Toxicity Monitoring Report (ATMR) shall include all applicable items identified in Section 12 of EPA-821-R-02-012 and in Section 10 of EPA-821-R-02-013, including complete and accurate aquatic toxicity 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, including measured daily flow and hours of operation for the 30 consecutive operating days prior to sample collection. The ATMR shall be submitted electronically and a hard copy shall be sent to the Bureau of Water Protection and Land Reuse at the address below. The ATMR required by Section 7(A) and 7(B) shall be received at this address by the last day of the month following the month in which the samples are collected. The ATMR required by Section 7(B) shall be provided in accordance with the timeframe identified in Section 7(B)(9) above to:

Bureau of Water Protection and Land Reuse (Attn: Aquatic Toxicity)
Connecticut Department of Energy and Environmental Protection
79 Elm St.
Hartford, CT 06106-5127

- (C) If this permit requires monitoring of a discharge on a calendar basis (e.g., monthly, quarterly, etc.), but a discharge has not occurred within the frequency of sampling specified in the permit, the permittee must submit the DMR and ATMR, as scheduled, indicating "NO DISCHARGE". For those permittees whose required monitoring is discharge dependent (e.g., per batch), the minimum reporting frequency is monthly. Therefore, if there is no discharge during a calendar month for a batch discharge, a DMR must be submitted indicating such by the end of the following month.

- (D) For Total Toxic Organics (TTO) monitoring, the permittee may, in lieu of analyzing for TTO, include a statement on each DMR certifying compliance with its approved solvent management plan. This certification statement is set forth in 40 CFR 433.12. If such approval had been granted and the reports include the compliance statement, the minimum frequency of sampling shall be reduced to annually in the month of January.
- (E) *NetDMR Reporting Requirements:* The permittee shall continue reporting electronically using NetDMR, a web-based tool that allows permittees to electronically submit Discharge Monitoring Reports and other required reports through a secure internet connection. Specific requirements regarding NetDMR, submittal of reports using NetDMR, and submittal of reports in hard copy form, are described below:
- (1) *Submittal of NetDMR Subscriber Agreement:* The permittee has submitted a signed and notarized copy of the *Connecticut DEEP NetDMR Subscriber Agreement* to the Department.
 - (2) *Submittal of Reports Using NetDMR:* The permittee and/or the signatory authority shall continue to electronically submit DMRs and reports required under this permit to the Department using NetDMR in satisfaction of the DMR submission requirement of Section 8(A) of this permit.

DMRs shall be submitted electronically to the Department no later than the last day of the month following the completed reporting period. All reports required under the permit, including any monitoring conducted more frequently than monthly or any additional monitoring shall be submitted to the Department as an electronic attachment to the DMR in NetDMR. Once a permittee begins submitting reports using NetDMR, it will no longer be required to submit hard copies of DMRs or other reports to the Department. The permittee shall also electronically file any written report of noncompliance described in Section 9 of this permit as an attachment in NetDMR. NetDMR is accessed from: <http://www.epa.gov/netdmr>.
 - (3) *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.
 - (4) All opt-out requests and requests for the NetDMR subscriber form should be sent to the following address or by email at: deep.netdmr@ct.gov

Attn: NetDMR Coordinator
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

SECTION 9: RECORDING AND REPORTING OF VIOLATIONS, ADDITIONAL TESTING REQUIREMENTS

- (A) In addition to any other written reporting requirements, the permittee shall report any instances of noncompliance with this permit with its DMR. Such reporting shall be due no later than the last day of the month following the reporting period in which the noncompliant event occurred. The information provided in the DMR shall include, at a minimum: the type of violation, the duration of the violation, the cause of the violation, and any corrective action(s) or preventative measure(s) taken to address the violation.
- (B) The permittee shall notify the Bureau of Materials Management and Compliance Assurance, Water Permitting and Enforcement Division, within 72 hours and in writing within thirty days of the discharge of

any substance listed in the application, but not listed in the permit, if the concentration or quantity of that substance exceeds two times the level listed in the application.

- (C) If any sample analysis indicates that an aquatic toxicity effluent limitation in Section 5 of this permit has been exceeded, or that the test was invalid, another sample of the effluent shall be collected and tested for aquatic toxicity and associated chemical parameters, as described above in Section 7, and the results reported to the Bureau of Materials Management and Compliance Assurance (Attn: DMR Processing), at the address listed above, within 30 days of the exceedance or invalid test. Results of all tests, whether valid or invalid, shall be reported.
- (D) If any two consecutive test results or any three test results in a twelve-month period indicate that an aquatic toxicity limit has been exceeded, the permittee shall immediately take all reasonable steps to eliminate toxicity wherever possible and shall also submit a report, for the review and written approval of the Commissioner, which describes in detail the steps taken or that shall be taken to eliminate the toxic impacts of the discharge on the receiving water and it shall also include a proposed schedule for implementation. Such report shall be submitted in accordance with the timeframe set forth in section 22a-430-3(j)(10)(C) of the RCSA. The permittee shall implement all actions in accordance with the approved report and schedule.

SECTION 10: SPECIAL CONDITIONS/COMPLIANCE SCHEDULE

- (A) The permittee shall not treat any on-site remediation groundwater in its wastewater treatment system unless and until it receives the prior written approval of the Commissioner. The permittee shall only receive that approval if it can demonstrate to the satisfaction of the Commissioner that by treating the on-site remediation groundwater through its treatment system, it is capable of meeting all permit limits in Tables A & B. The permittee shall provide the results of such a demonstration study for the review and written approval of the Commissioner at least ninety (90) days prior to the intended treatment of the on-site remediation groundwater. The demonstration study report shall also include, if necessary, any proposed upgrades to the treatment system necessary for meeting all permit limits, a timetable for implementing the treatment system upgrades, and an anti-degradation evaluation.
- (B) The permittee shall not operate the proposed hexavalent chromium treatment system unless and until it receives prior written approval from the Commissioner. Sixty (60) days prior to the start-up of the system, the permittee shall notify the Department of its proposal to install a hexavalent chromium system. The notification shall include, at a minimum, a detailed description of the system, including an evaluation that the treatment system will achieve the effluent limitations in Table D of this permit, plans and specifications of the system, and a floor plan for the facility identifying the location of the proposed system.
- (C) The permittee shall achieve compliance with the final effluent limitations in Section 5, Tables A and B of this permit in accordance with the following:
 - (1) On or before thirty (30) days after the date of issuance of this permit, the permittee shall retain one or more qualified consultants acceptable to the Commissioner to prepare the documents and implement or oversee the actions required by this section of the permit and shall, by that date, notify the Commissioner in writing of the identity of such consultants. The permittee shall retain one or more qualified consultants acceptable to the Commissioner until the actions required by this section of the permit have been completed, and within ten (10) days after retaining any consultant other than one originally identified under this paragraph, permittee shall notify the Commissioner in writing of the identity of such other consultant. The consultant retained to perform the studies and oversee any remedial measures required to achieve compliance with Section 5 limitations shall be a qualified professional engineer licensed to practice in Connecticut acceptable to the Commissioner. The permittee shall submit to the Commissioner a description of a consultant's education, experience and training that is relevant to the work required by this permit within ten (10) days after a request for such a description. Nothing in this paragraph shall preclude the Commissioner from finding a previously acceptable consultant unacceptable.
 - (2) On or before ninety (90) days after the date of issuance of this permit, the permittee shall submit for the Commissioner's review and written approval a comprehensive and thorough report which

describes and evaluates alternative actions which may be taken by the permittee to achieve compliance with the limitations in Section 5 of this permit. Such report shall:

- (a) evaluate alternative actions to achieve compliance with Section 5 limits including, but not limited to, pollutant source reduction, process changes/innovations, chemical substitutions, recycle and zero discharge systems, water conservation measures, other internal and/or end-of-pipe treatment technologies, and re-direction of the discharge into the sanitary sewer;
 - (b) state in detail the most expeditious schedule for performing each alternative;
 - (c) list all permits and approvals required for each alternative, including but not limited to any permits required under sections 22a-32, 22a-42a, 22a-342, 22a-361, 22a-368 or 22a-430 of the Connecticut General Statutes;
 - (d) propose a preferred alternative or combination of alternatives with supporting justification; and
 - (e) propose a detailed program and schedule to perform all actions required by the preferred alternative including but not limited to a schedule for submission of engineering plans and specifications on any internal and/or end of pipe treatment facilities, start and completion of any construction activities related to any treatment facilities, and applying for and obtaining all permits and approvals required for such actions.
- (D) The permittee shall submit to the Commissioner semi-annual status reports beginning sixty (60) days after the date of approval of the report referenced in Section 10(C) above. Status reports shall be due to the Department on January 1st and July 1st of each year that this permit is in effect until the requirements of this section have been completed in full and approved. Status reports shall include, but not be limited to, a summary of all effluent monitoring data collected by the permittee during the previous six-month period and a detailed description of progress made by the permittee in performing actions required by this section of the permit in accordance with the approved schedule including, but not limited to, development of engineering plans and specifications, construction activity, contract bidding, operational changes, preparation and submittal of permit applications, and any other actions specified in the program approved pursuant to Section 10(C).
- (E) The permittee shall perform the approved actions in accordance with the approved schedule, but in no event shall the approved actions be completed later than six (6) months prior to the expiration date of this permit. Within fifteen (15) days after completing such actions, the permittee shall certify to the Commissioner in writing that the actions have been completed as approved.
- (F) 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 notifies 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 (30) 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.
- (G) 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 (3) 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 legal Connecticut or federal holiday, shall be submitted or performed on or before the next day which is not a Saturday, Sunday, or legal Connecticut or federal holiday.

- (H) 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 that 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.
- (I) Notice to Commissioner of changes. Within fifteen (15) 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.
- (J) Submission of documents. Any document, other than a discharge monitoring report, 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:

Christine Gleason, Sanitary Engineer
Department of Energy and Environmental Protection
Bureau of Materials Management and Compliance Assurance
Water Permitting and Enforcement Division
79 Elm Street
Hartford, CT 06106-5127

This permit is hereby issued on

DRAFT

BETSEY C. WINGFIELD
Deputy Commissioner

BCW/CMG

ATTACHMENT A

PARAMETER	UNITS	EFFLUENT SAMPLE RESULTS			NAUGATUCK RIVER SAMPLE RESULTS			MINIMUM LEVEL
		DATE ANALYZED	DATE ANALYZED	DATE ANALYZED	DATE ANALYZED	DATE ANALYZED	DATE ANALYZED	
Alkalinity, Total	mg/L							
Aluminum, Total	µg/L							
Aluminum, Dissolved	µg/L							
Ammonia (as N)	mg/L							
BOD ₅	mg/L							
Cadmium, Total	µg/L							
Chloride, Total	mg/L							
Chlorine, Total Residual	µg/L							
Chromium, Total	µg/L							
Copper, Total	µg/L							
Copper, Dissolved	µg/L							
Cyanide, Amenable	µg/L							
Cyanide, Total	µg/L							
Fluoride	mg/L							
Formaldehyde	µg/L							
Gold, Total	mg/L							
Hardness, Total	mg/L							
Iron, Total	mg/L							
Iron, Dissolved	mg/L							
Kjeldahl Nitrogen	mg/L							
Lead, Total	µg/L							
Lead, Dissolved	µg/L							
Nickel, Total	µg/L							
Nickel, Dissolved	µg/L							
Nitrate (as N)	mg/L							
Nitrite (as N)	mg/L							
Oil & Grease, Total	mg/L							
pH	SU							
Phosphorus, Total	mg/L							
Silver, Total	µg/L							
Specific Conductance	µmhos							
Surfactants, Anionic	mg/L							
Temperature	°F							
Tin, Total	mg/L							
Total Suspended Solids	mg/L							
Zinc, Total	µg/L							
Zinc, Dissolved	µg/L							

Indicate the location where the Naugatuck River sample was collected: (USGS coordinates): _____

Flow (in cfs) measured at USGS Station 01206900 during the chronic toxicity testing: _____

Temperature, pH, and total residual chlorine must be analyzed within 15 minutes.

ATTACHMENT B

ATTACHMENT SHEET FOR SUPPLEMENTAL MONITORING FOR DSN 001-1

MONTH/YEAR: _____

PARAMETER	UNITS	DATE SAMPLED WEEK 1	MINIMUM LEVEL	DATE SAMPLED WEEK 2	MINIMUM LEVEL	DATE SAMPLED WEEK 3	MINIMUM LEVEL	DATE SAMPLED WEEK 4	MINIMUM LEVEL
		FLOW DAY OF SAMPLING		FLOW DAY OF SAMPLING		FLOW DAY OF SAMPLING		FLOW DAY OF SAMPLING	
Acute Toxicity, <i>Daphnia pulex</i>	%		---		---		---		---
Acute Toxicity, <i>Pimephales promelas</i>	%		---		---		---		---
Alkalinity, Total	mg/L								
Aluminum, Total	µg/L								
Ammonia (as N)	mg/L								
Arsenic, Total	µg/L								
BOD ₅	mg/L								
Cadmium, Total	µg/L								
Chloride, Total	mg/L								
Chlorine, Total Residual	µg/L								
Chloroform	µg/L								
Chromium, Total	µg/L								
Copper, Total	µg/L								
Cyanide, Total	µg/L								
Fluoride	mg/L								
Formaldehyde	µg/L								
Gold, Total	mg/L								
Iron, Total	mg/L								
Kjeldahl Nitrogen	mg/L								
Lead, Total	µg/L								
Nickel, Total	µg/L								
Nitrate (as N)	mg/L								
Nitrite (as N)	mg/L								
Nitrogen, Total	mg/L								
Organic Nitrogen	mg/L								
pH	SU								
Phosphorus, Total	mg/L								
Silver, Total	µg/L								
Surfactants, Anionic	mg/L								
Tin, Total	mg/L								
Total Suspended Solids	mg/L								
Zinc, Total	µg/L								

CYANIDE	SAMPLING DATE	DURATION OF DISCHARGE	SAMPLE 1		SAMPLE 2		SAMPLE 3		SAMPLE 4		SAMPLE 5		SAMPLE 6	
			TIME:		TIME:		TIME:		TIME:		TIME:		TIME:	
			RESULT	ML										
WEEK 1:			µg/L	µg/L										
WEEK 2:			µg/L	µg/L										
WEEK 3:			µg/L	µg/L										
WEEK 4:			µg/L	µg/L										

TOTAL RESIDUAL CHLORINE	SAMPLING DATE	DURATION OF DISCHARGE	SAMPLE 1		SAMPLE 2		SAMPLE 3		SAMPLE 4		SAMPLE 5		SAMPLE 6	
			TIME:		TIME:		TIME:		TIME:		TIME:		TIME:	
			RESULT	ML										
WEEK 1:			µg/L	µg/L										
WEEK 2:			µg/L	µg/L										
WEEK 3:			µg/L	µg/L										
WEEK 4:			µg/L	µg/L										

OIL & GREASE	SAMPLING DATE	DURATION OF DISCHARGE	SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5	SAMPLE 6
			TIME:	TIME:	TIME:	TIME:	TIME:	TIME:

| | | DISCHARGE | RESULT | ML |
|---------|--|-----------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| WEEK 1: | | | mg/L | mg/L |
| WEEK 2: | | | mg/L | mg/L |
| WEEK 3: | | | mg/L | mg/L |
| WEEK 4: | | | mg/L | mg/L |

ATTACHMENT C

ATTACHMENT SHEET FOR SUPPLEMENTAL MONITORING FOR DSN 001A AND DSN 001B

MONTH/YEAR: _____

DSN 001A:

AMENABLE CYANIDE	SAMPLING DATE	SAMPLE 1		SAMPLE 2		SAMPLE 3		SAMPLE 4		SAMPLE 5		SAMPLE 6	
		TIME:		TIME:		TIME:		TIME:		TIME:		TIME:	
		RESULT	ML										
WEEK 1:		µg/L	µg/L										
WEEK 2:		µg/L	µg/L										
WEEK 3:		µg/L	µg/L										
WEEK 4:		µg/L	µg/L										

DSN 001B:

HEXAVALENT CHROMIUM	SAMPLING DATE	SAMPLE 1		SAMPLE 2		SAMPLE 3		SAMPLE 4		SAMPLE 5		SAMPLE 6	
		TIME:		TIME:		TIME:		TIME:		TIME:		TIME:	
		RESULT	ML										
WEEK 1:		µg/L	µg/L										
WEEK 2:		µg/L	µg/L										
WEEK 3:		µg/L	µg/L										
WEEK 4:		µg/L	µg/L										

ATTACHMENT D

DSN 001-1 FLOW AND pH RECORD

MONTH/YEAR: _____

DAY	FLOW (gallons discharged)	pH (range over operating day)	DURATION OF DISCHARGE (hours of discharge)
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			