



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: ~~July 7, 2023~~ August 1, 2023

Receiving Water Body ID: CT6900-00_05

Permit Expires: ~~July 6, 2028~~ July 31, 2028

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 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.

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 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 this permit, means that sampling is required in the months of February and August.

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 this permit’s effective date 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 DEEP 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 follow. 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 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 (“DEEP”) personnel, the permittee, or other parties.
- (E) The permittee shall maintain compliance with its *Solvent Management Plan* which was approved by DEEP on October 18, 2012, and all subsequent revisions to the plan which have been approved by DEEP.

Table A

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 and Building Maintenance Wastewater, Tumbling Wastewater, Drum Rinsing Wastewater, Reverse Osmosis (RO) Reject and Backwash Water, Boiler Blowdown, Air Compressor Blowdown and Condensate, Fire Suppression Test Water**

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

Discharge is to: **Naugatuck River** Dilution Factor (for Silver):**31.2:1**; Dilution Factor (for Ammonia, Copper, Cyanide, Lead, Nickel, Zinc): **16.1:1** Outfall Location: **Latitude (41° 37' 38.38") and Longitude (73° 04' 10.53")**

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			Minimum Level ²	Monitoring Required with Toxicity Testing
			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		
Acute Aquatic Toxicity ³ <i>Daphnia pulex</i>	TAA3D	%	LC ₅₀ > 46.3	LC ₅₀ > 23	Quarterly	Daily Composite	LC ₅₀ > 7	NR	Grab		
Acute Aquatic Toxicity ³ <i>Pimephales promelas</i>	TAA6C	%	LC ₅₀ > 46.3	LC ₅₀ > 23	Quarterly	Daily Composite	LC ₅₀ > 7	NR	Grab		
INTERIM ⁷ Chronic Aquatic Toxicity (Survival) ⁴ <i>Ceriodaphnia dubia</i>	TOP3B	%	---	---	Semiannual ⁵	Daily Composite	NA	NR	NA		
	TPP3B	%	---	---	Semiannual ⁵	Daily Composite	NA	NR	NA		
FINAL ⁸ Chronic Aquatic Toxicity (Survival) ⁴ <i>Ceriodaphnia dubia</i>	TOP3B	%	C-NOEC > 4.6	C-NOEC > 2.3	Semiannual ⁵	Daily Composite	NA	NR	NA		
	TPP3B	%	C-NOEC > 4.6	C-NOEC > 2.3	Semiannual ⁵	Daily Composite	NA	NR	NA		
Chronic Aquatic Toxicity (Survival) ⁵ <i>Pimephales promelas</i>	TOP6C	%	C-NOEC > 4.6	C-NOEC > 2.3	Semiannual ⁵	Daily Composite	NA	NR	NA		
Chronic Aquatic Toxicity (Growth) ⁵ <i>Pimephales promelas</i>	TPP6C	%	C-NOEC > 4.6	C-NOEC > 2.3	Semiannual ⁵	Daily Composite	NA	NR	NA		
Alkalinity, as CaCO ₃	00410	mg/L	---	---	Weekly	Daily Composite	NA	NR	NA		✓
Aluminum, Total	01105	µg/L	201	538	Weekly	Daily Composite	808	NR	Grab	10	✓
Aluminum, Total	01105	g/day	122	326	Weekly	Daily Composite	NA	NR	NA		
Ammonia (as N)	00610	mg/L	---	---	Monthly	Daily Composite	----	NR	Grab	5	✓
Ammonia (as N)	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	0.08 ⁶	0.20	Annually	Daily Composite	0.30	NR	Grab	0.2	✓
Cadmium, Total	01027	g/day	0.05	0.12	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		

Table A

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 and Building Maintenance Wastewater, Tumbling Wastewater, Drum Rinsing Wastewater, Reverse Osmosis (RO) Reject and Backwash Water, Boiler Blowdown, Air Compressor Blowdown and Condensate, Fire Suppression Test Water**

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

Discharge is to: **Naugatuck River** Dilution Factor (for Silver):**31.2:1**; Dilution Factor (for Ammonia, Copper, Cyanide, Lead, Nickel, Zinc): **16.1:1** Outfall Location: **Latitude (41° 37' 38.38") and Longitude (73° 04' 10.53")**

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			Minimum Level ²	Monitoring Required with Toxicity Testing	
			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			
Chloroform	32106	µg/L	---	---	Monthly	Grab Sample Average	NA	NR	Grab		✓	
Chloroform	32106	g/day	---	---	Monthly	Grab Sample Average	NA	NR	Grab			
Chromium, Total	01034	µg/L	26	68	Semiannual	Daily Composite	103.4	NR	Grab	5	✓	
Chromium, Total	01034	g/day	9.5	44	Semiannual	Daily Composite	NA	NR	NA			
INTERM ⁷	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 ⁸	Copper, Total	01042	µg/L	119	251	Weekly	Daily Composite	377	NR	Grab	5	
	Copper, Total	01042	g/day	71	151	Weekly	Daily Composite	NA	NR	NA		
Cyanide, Total	00720	µg/L	51	137	Weekly	Grab Sample Average	205	NR	Grab	10	✓	
Cyanide, Total	00720	g/day	30	82	Weekly	Grab Sample Average	NA	NR	NA			
Duration of Discharge	82517	hrs/day	---	---	Daily	Total Daily Flow	NA	NR	NA			
Flow Rate (Average Daily) ⁹	00056	gpd	160,000	NA	Daily	Total Daily Flow	NA	NR	NA			
Flow, Maximum during 24-hr period ⁹	50047	gpd	NA	250,000	Daily	Total Daily Flow	NA	NR	NA			
Flow (Day of Sampling)	74076	gpd	NA	250,000	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	8	21	Weekly	Daily Composite	32	NR	Grab	1	✓	
Lead, Total	01051	g/day	4.8	13	Weekly	Daily Composite	NA	NR	NA			
Nickel, Total	01067	µg/L	190	628	Weekly	Daily Composite	943	NR	Grab	5	✓	
Nickel, Total	01067	g/day	114	377	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 6]	00600	lbs/day	26.7	---	Weekly	Calculated	NA	NR	NA			

Table A

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 and Building Maintenance Wastewater, Tumbling Wastewater, Drum Rinsing Wastewater, Reverse Osmosis (RO) Reject and Backwash Water, Boiler Blowdown, Air Compressor Blowdown and Condensate, Fire Suppression Test Water**

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

Discharge is to: **Naugatuck River** Dilution Factor (for Silver):**31.2:1**; Dilution Factor (for Ammonia, Copper, Cyanide, Lead, Nickel, Zinc): **16.1:1** Outfall Location: **Latitude (41° 37' 38.38") and Longitude (73° 04' 10.53")**

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			Minimum Level ²	Monitoring Required with Toxicity Testing	
			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			
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	6.5	Continuous	Instantaneous			
pH, Maximum	61941	SU	NA	NA	NR	NA	8.0	Continuous	Instantaneous			
pH, Day of Sampling ⁹	00400	SU	NA	NA	NR	NA	6.0 - 8.0	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 ⁷	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 ⁸	Silver, Total	01077	µg/L	11	31	Weekly	Daily Composite	47	NR	Grab	1	✓
	Silver, Total	01077	g/day	7.1	19	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 7]	78141	mg/L	NA	NA	NR	NA	1.0	Monthly	Grab	0.01		
Zinc, Total	01092	mg/L	.249	.667	Weekly	Daily Composite	1.0	NR	Grab	10	✓	
Zinc, Total	01092	g/day	149	400	Weekly	Daily Composite	NA	NR	NA			

TABLE A FOOTNOTES AND REMARKS

Footnotes:

¹ 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.

(CONTINUED ON THE NEXT PAGE)

TABLE A FOOTNOTES AND REMARKS (CONTINUED)

² 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.

³ 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.

⁴ 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.

⁵ The permittee shall use best efforts to ensure that the chronic testing conducted in August 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.

⁶ 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.

⁷ interim limits take effect upon permit effective date.

⁸ Final limits shall take effect as set forth in the schedule of compliance in the consent order. In no case shall the final limits take effect later than four years and six months after the effective date of this permit.

⁹ For this parameter, the permittee shall maintain at the facility a record of the Total Daily Flow and pH range for each operating day. The permittee shall report on its DMR the "Average Daily Flow" and the "Maximum Daily Flow" and pH for each month and shall provide the record of the Total Daily Flow and pH range 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. 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.

7. Refer to Section 8(D) of this permit.

Table B

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 B 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 0-6 °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.
 - (f) Copper nitrate shall be used as the reference toxicant.
 - (g) 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.
 - (h) 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 0-6 °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 and laboratory water shall be used as the dilution water. Naugatuck River water shall be 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.
- (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), a dilution equal to the permit limits in Table A, laboratory control water, and site dilution water. Naugatuck River water and laboratory 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 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 March.
- (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 copy of the *Connecticut DEEP NetDMR Subscriber Agreement* to the DEEP.
- (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 DEEP using NetDMR in satisfaction of the DMR submission requirement of Section 8(A) of this permit.

DMRs shall be submitted electronically to the DEEP 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 DEEP 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 DEEP. 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) 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

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.

This permit is hereby issued on July 7, 2023.



Jennifer L. Perry, P.E.
Bureau Chief

JP/CMG/PB

FACT SHEET
NPDES PERMIT RE-ISSUANCE
PUBLIC NOTICED: MAY 2019

APPLICANT	SUMMIT CORPORATION OF AMERICA
NPDES PERMIT NO.	CT0001180
NPDES APPLICATION NO.	201205290
DATE APPLICATION RECEIVED	June 19, 2012
FACILITY IDENTIFICATION	140-011
LOCATION ADDRESS	1430 Waterbury Road Thomaston, Connecticut 06787
FACILITY CONTACT	Harry Scoble, President Office: (860) 283-4391 FAX: (860) 283-4010 hscoble@summitplating.com
MAILING ADDRESS	1430 Waterbury Road Thomaston, Connecticut 06787
DMR CONTACT	Harry Scoble
SECRETARY OF STATE BUSINESS ID	0096727
PERMIT TERM	5 years
PERMIT CATEGORY	NPDES: <input checked="" type="checkbox"/> Major <input type="checkbox"/> Discretionary Major <input type="checkbox"/> Minor [Score: 80, August 2018]
STANDARD INDUSTRIAL CLASSIFICATION (SIC)	3471 (Electroplating, Plating, Polishing, Anodizing, and Coloring)
APPLICABLE EFFLUENT GUIDELINE(S)	40 CFR 433 (Metal Finishing Point Source Category)
PERMIT TYPE	Reissuance
OWNERSHIP	<input type="checkbox"/> Federal <input type="checkbox"/> State <input checked="" type="checkbox"/> Private <input type="checkbox"/> Public <input type="checkbox"/> Other: _____
RECEIVING WATER	Naugatuck River
WATERBODY SEGMENT ID	CT6900-00_05
SURFACE WATERBODY CLASSIFICATION	B
SURFACE WATER DISCHARGE LOCATION	DSN 001-1: Latitude (41° 37' 38.38") Longitude (73° 04' 10.53")
DEEP STAFF ENGINEER	Patrick Bieger (860)424-3805 patrick.bieger@ct.gov

I. FEES

Application Fees (RCSA section 22a-430-6):

Application Filing Fee: \$1,300. Paid on October 2, 2012

Application Processing Fee: \$13,650 (Invoice 212894). Paid on January 18, 2013.

Annual Permit Fee (RCSA section 22a-430-7):

DISCHARGE CODE	WASTEWATER CATEGORY (per 22a-430-7)	MAXIMUM GPD	DSNs	ANNUAL FEE (per 22a-430-7)
101035Z	Metal Finishing (except to POTWs) (Metal Finishing Wastewaters, Laboratory Wastewater, Water Treatment Wastewater, Air Scrubber Wastewater, Floor Wash water and Building Maintenance Wastewater, Tumbling Wastewater, Drum Rinsing Wastewater, Reverse Osmosis (RO) Reject and Backwash Water)	>50,000 gpd	001-1	\$8,425
1170000	Blowdown from Heating and Cooling (Boiler Blowdown)	---	001-1	4,337.50
---	Air Compressor Blowdown Condensate, Fire Suppression Test Water	---	001-1	0
TOTAL				\$12,762.50

II. APPLICATION

On June 19, 2012, the Department of Energy and Environmental Protection (“DEEP”) received an application (Application no. 201205290) from Summit Corporation of America (“Summit”, “Permittee”, “Applicant”) in Thomaston for the renewal of its NPDES permit, permit no. CT0001180 expiring on December 20, 2012 (“the previous permit”) and was administratively extended. Consistent with the requirements of Section 22a-6g of the Connecticut General Statutes (CGS), the applicant caused a Notice of Permit Application to be published in the *Republican-American* on June 19, 2012. On August 7, 2012, the application was determined to be timely and administratively sufficient.

The permittee seeks authorization for the following in Application 201205290:

	DSN	PROPOSED AVERAGE MONTHLY FLOW (gpd)	PROPOSED MAXIMUM DAILY FLOW (gpd)	PROPOSED WASTESTREAMS	TREATMENT TYPE	DISCHARGE POINT
FINAL DISCHARGE POINT	001-1	160,000 (Refer to Section XIII.H of this Fact Sheet)	250,000 (Refer to Section XIII.H of this Fact Sheet)	<i>Metal Finishing Wastewaters, Laboratory Wastewater, Water Treatment Wastewater, Air Scrubber Wastewater, Floor Washwater and Building Maintenance Wastewater, Tumbling Wastewater, Drum Rinsing Wastewater, Reverse Osmosis (RO) Reject and Backwash Water, Boiler Blowdown, Air Compressor Blowdown and Condensate, Fire Suppression Test Water</i>	Metals Recovery; Equalization; Precipitation; Flocculation; Clarification; Neutralization	Naugatuck River
INTERNAL POINTS	001A-1	---	---	<i>Treated cyanide-bearing wastewaters</i>	Cyanide Destruction	DSN 001-1

Summit is a metal finishing job shop. The primary wastewater generating activity continues to be the treatment of metal finishing wastewaters at the site. The permittee is requesting authorization to discharge a new wastestream, treated groundwater generated from on-site remediation activities. During the previous permit’s term, the permittee made a number of modifications to its facility in order to address permit compliance schedules.

III. GENERAL ISSUES RELATED TO THE APPLICATION

A. FEDERALLY RECOGNIZED INDIAN LAND

As provided in the permit application, the site is not located on federally recognized Indian land.

B. COASTAL AREA/COASTAL BOUNDARY

The activity is not located within a coastal boundary as defined in CGS 22a-94(b).

C. ENDANGERED SPECIES

The June 2016 Natural Diversity Database map indicates that there is a potential conflict within a half-mile of the site. However, based on the letter dated June 18, 2012 from DEEP's Bureau of Natural Resources, a determination was made that the proposed activity will not impact any extant populations of federal or state Endangered, Threatened or Special-Concern Species that occur in the vicinity of the property.

D. AQUIFER PROTECTION AREAS

The project site is located within a town required to establish Aquifer Protection Areas but the site is not located within a protected area identified on a Level A or B map.

E. CONSERVATION OR PRESERVATION RESTRICTION

As provided in the permit application, the property is not subject to a conservation or preservation restriction.

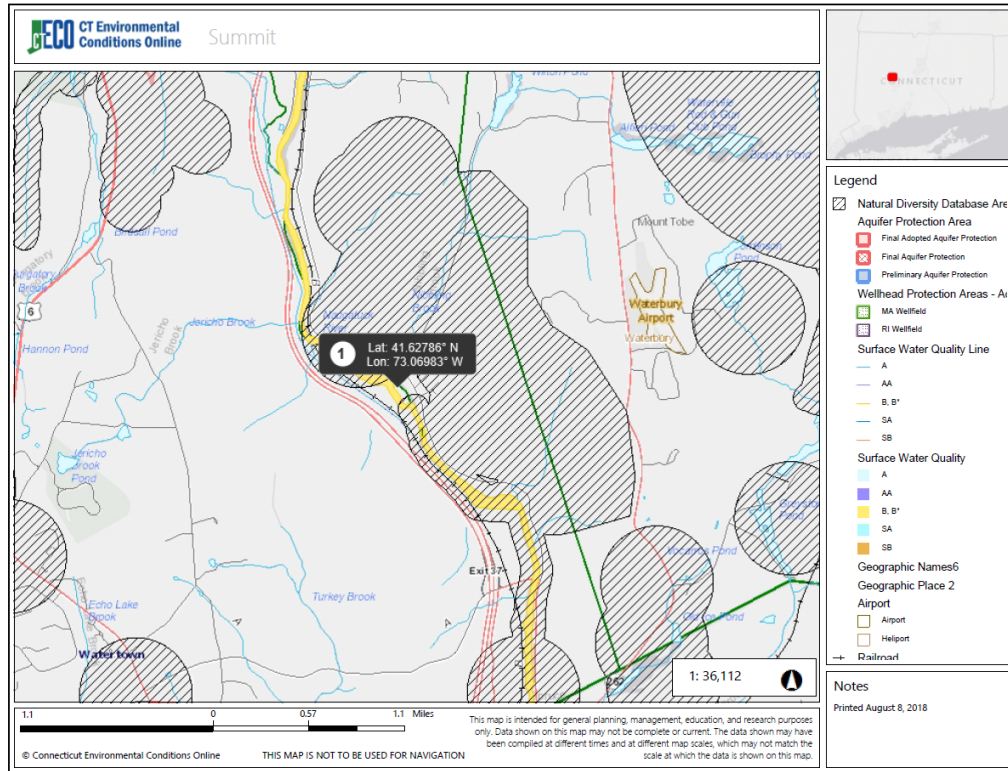
F. PUBLIC WATER SUPPLY WATERSHED

According to the applicant, the site is not located within a public water supply watershed.

IV. RECEIVING WATER INFORMATION

Summit discharges into the section of the Naugatuck River identified as Waterbody Segment ID CT6900-00_05. This section of the river is classified as B. Class B waters are designated for: habitat for fish and other aquatic life and wildlife; recreation; and industrial and agricultural water supply. This waterbody segment is identified on the 2022 *Integrated Water Quality Report* as an impaired waterbody. There are two impaired designated uses associated with this waterbody: 1) An impairment to the habitat for fish, other aquatic life, and wildlife due to whole effluent toxicity, and 2) an impairment to recreation due to *Escherichia coli* (*E. coli*). Total Maximum Daily Loads (TMDLs) have been adopted and approved for each impairment. The *Total Maximum Daily Load Analysis for the Upper Naugatuck River, Thomaston, Connecticut*, addresses whole effluent toxicity, and was approved by EPA on August 17, 2005. *A Total Maximum Daily Load Analysis for Recreational Uses of the Naugatuck River Regional Basin* addresses *E. coli* and was approved by EPA on June 4, 2008 ([A Total Maximum Daily Load Analysis \(ct.gov\)](#)). The TMDL concerning whole effluent toxicity includes a wasteload allocation assigned to Summit; the TMDL concerning *E. coli* does not include any wasteload allocation for Summit ([TMDL Analysis for the Upper Naugatuck River in Thomaston \(ct.gov\)](#)). In addition, this segment of the Naugatuck River is subject to *A Total Maximum Daily Load Analysis to Achieve Water Quality Standards for Dissolved Oxygen in Long Island Sound*, December 2000 ([Tmdl.pdf \(longislandsoundstudy.net\)](#)). [See Section XIII for further discussion about nitrogen, *E coli*, and toxicity.]

Figure 1. CT Environmental Conditions Online NDDB Map [CT ECO Simple Viewer \(uconn.edu\)](http://CT ECO Simple Viewer (uconn.edu))



V. NATURE OF BUSINESS GENERATING THE DISCHARGE

Summit is primarily engaged in metal finishing operations at the site. The SIC code for this activity, as provided by the applicant, is: 3471 (Electroplating, Plating, Polishing, Anodizing, and Coloring). The applicant also notified for SIC codes 3313 (Electrometallurgical Products), and 3399 (Primary Metal Products). The applicant indicates that its wire drawing operations may be subject to one of these SIC codes; it is unsure what the other SIC code applies to.

VI. FACILITY DESCRIPTION

Summit is located on approximately 8.2 acres in a mixed commercial/industrial area on the Naugatuck River in Thomaston. [See Attachments 2 & 3 for site detail]. Summit’s site includes land on both sides of the Naugatuck River; the facility is located on the east side of the river (in Thomaston) and the facility’s production wells are located on the west side of the river (in Watertown). The three production wells provide the source water for the facility. Summit has a Diversion Permit, permit no.DIV-200701641GP authorizing the water withdrawal. The water from the production wells is piped under the Naugatuck River and stored onsite in a 5,000 gallon concrete vault known as the Return Well. Prior to use, the water is treated through a reverse osmosis (RO) system; the backwash from the RO system is re-used in certain operations at the facility. Any water used for non-contact cooling purposes at the facility is recycled back into the Return Well to be used again.

Summit is primarily engaged as a metal finishing job shop. Miscellaneous, related operations include minor machining and drawing of copper wire prior to plating. Summit conducts metal finishing of various parts (i.e., machined parts, wire, and thin metal strip) for the telecommunications, aerospace, medical, battery, and automotive industries. The base metals processed include copper, beryllium-copper, brass, steel, stainless steel, and aluminum. Summit’s metal finishing operations include electroplating (i.e., chromium, copper, bronze, nickel, tin, tin-lead, lead, gold, silver, and palladium), electroless plating (nickel), reflow tin plating, brite dipping, cleaning, stripping, and tumbling. [See Attachment 4 for the detail on the process operations.] The rinsewaters and cleaners associated with the metal finishing operations are directed into the on-site wastewater treatment system; concentrated baths are containerized and shipped off-site. Summit also

generates certain ancillary wastestreams (e.g., laboratory wastewater, air scrubber wastewater, etc.) that are also directed into the on-site wastewater treatment system.

From 1955 until 1975, a metal hydroxide sludge impoundment was used at the site. This unit was closed in place in 1975. After closure of this unit, two lagoons were used at the site until 1986 to treat wastewater from the facility's operations. These units went through RCRA closure in 1988/1989. A Certificate of Closure was issued on October 16, 1989. There is presently a network of about 50 monitoring wells on-site. Four of these wells (i.e., MW-5, MW-6, MW-8, and MW-10) are RCRA wells and have been monitored semi-annually since closure. [See Attachment 5 for a well map.] Monitoring results from these wells indicate that the groundwater on-site contains: barium, cadmium, cyanide, cobalt, copper, gold, mercury, nickel, silver, zinc, cis-1,2-dichloroethylene, 1,1,1-trichloroethylene, and trichloroethylene. [See Attachment 6 for a data summary of the RCRA wells from 2008 to 2012].

Sanitary wastewater that is generated at the facility is directed to an on-site septic system.

A summary of the wastestreams generated at the facility and treated through the on-site wastewater treatment system is as follows:

WASTESTREAM	DESCRIPTION
Metal Finishing Wastewaters	The rinsewaters and cleaners (acidic and alkaline solutions) associated with the metal finishing operations
Laboratory Wastewater	Wastewater that is generated from cleaning the glassware in the laboratory
Water Treatment Wastewater	Boiler water softener
Air scrubber wastewater	Wastewater that is generated from the on-site air scrubber associated with the metal finishing operations
Floorwash Wastewater/Building Maintenance Wastewater	This includes the wastewater associated with cleaning the process tanks as well as the floor spill material generated from the metal finishing operations
Tumbling Wastewater	Wastewater generated from miscellaneous tumbling/cleaning/decontamination operations
Drum Rinsing Wastewater	Wastewater that is generated from rinsing out "empty" drums of various chemicals at the site
Reverse Osmosis (RO) Reject and Backwash Water	Wastewater generated from backwashing the supply water's reverse osmosis (RO) system with water. The RO water is recirculated back into the process rinsewaters for reuse.
Boiler Blowdown	The boilers on-site are blown down twice a day in order to maintain the proper chemistry in the boiler; approximately 50 gallons of cooling water is combined with the blowdown to control temperature.
Air Compressor Condensate/Blowdown	The air compressor is periodically blown down as necessary to remove any condensate in the compressor
Fire Suppression Test Water	Wastewater that is generated from the annual testing the fire suppression system

VII. THE ON-SITE WASTEWATER TREATMENT SYSTEM

The on-site wastewater treatment system consists of the following operations: Metals Recovery, Equalization/Precipitation, Cyanide Treatment, Flocculation/Clarification, Final Neutralization:

Metals Recovery: Wastewaters from the tin, silver, and gold plating operations are directed to individual recovery systems to remove the subject metals. Metals are precipitated out of the tin-bearing and silver-bearing wastewaters using sodium hydroxide and sodium hypochlorite, respectively; gold-bearing wastewaters are treated in ion exchange columns in order to remove the gold. The wastewater generated from the tin precipitation operation is directed to Equalization/Neutralization for further treatment; the wastewater remaining after the silver and gold recovery operations is directed into Cyanide Treatment.

Equalization/Precipitation: All dilute acidic and alkaline solutions, as well as non-cyanide bearing rinsewaters are directed into the Equalization/Precipitation system. The system consists of a 5,000 gallon tank (HpH I) where the wastewater is treated with lime and sodium hypochlorite. These wastewaters are then pH adjusted using sulfuric acid in a 1,500 gallon tank (HpH II). From there, the wastewater is dechlorinated using sodium thiosulfate as it is conveyed to Flocculation/Clarification for additional treatment.

Cyanide Treatment: All cyanide-bearing wastewaters are directed into a two-stage cyanide destruction system for treatment. Stage 1 occurs in a 5,000 gallon tank (CN I) and consists of pH adjustment with lime slurry followed by the addition of sodium hypochlorite to treat the amenable cyanide. The wastewater then flows to another 5,000 gallon tank (CN II) where the pH of the wastewater is adjusted with sulfuric acid. The wastewater is then dechlorinated with sodium thiosulfate before being directed to Flocculation/Clarification for additional treatment. The sample taken to determine compliance with the amenable cyanide permit limit (DSN 001A-1) is taken after the CN II tank.

Hexavalent Chromium Treatment (PROPOSED): Summit is proposing to expand its existing operations to include hexavalent chromium plating. This will require that Summit install additional treatment equipment in order to pre-treat the hexavalent chromium-bearing wastewaters. Summit is proposing to install a conventional two-stage hexavalent chromium treatment system using sodium metabisulfate to reduce the hexavalent chromium to the trivalent form of chromium. Summit will take a sample of the wastewater following the second-stage treatment in order to verify the level of hexavalent chromium. This sampling point will be known as DSN 001B-1. The wastewater treated through this system will receive further treatment, as necessary.

Flocculation/Clarification/Final Neutralization: Dechlorinated wastewaters from Equalization/Precipitation and Cyanide Treatment are dosed with polymers and allowed to settle in the Flocculant Chamber. Following flocculation, the wastewater is conveyed to the Clarifier. Sludge generated in the Clarifier is dewatered and shipped off-site. The clarified water is pH adjusted and then discharged into the Naugatuck River via a side-bank discharge pipe. [Approximately twice per year, the Clarifier requires clean-out. When this is necessary, the 250,000 gallon “Safety Tank” is temporarily used as a Clarifier.] The design flow of the treatment system is 400,000 gpd. DSN 001-1 is a continuous discharge that flows approximately 5-6 days per week, 24 hours per day.

See Attachments 7 & 8 for a schematic of the treatment system and the proposed hexavalent chromium treatment system.

VIII. EFFLUENT QUALITY DATA

See Attachment 9 for a summary of DMR data from January 2018 through February 2023.

IX. MONITORING/EFFLUENT VIOLATIONS

Based on a review of Summit’s DMRs from January 2018 through February 2023 there were no effluent violations.

X. STATUS OF COMPLIANCE SCHEDULES IN THE PREVIOUS PERMIT

Summit’s previous NPDES permit includes three compliance schedules that require the permittee to: 1) improve stormwater quality by June 24, 2007; 2) comply with total nitrogen limits for DSN 001-1 by August 1, 2009; 3) comply with limits for: total residual chlorine, total copper, total lead, total nickel, total zinc, and acute aquatic toxicity for DSN 001-1 by July 1, 2011. A summary of the status of these compliance schedules is as follows:

- **Compliance Schedule #1 (Permit Section 10(B)):** Summit has three stormwater discharges (DSN 002, DSN 003 and DSN 004) that are directed into the Naugatuck River. [See Attachment 1]. These discharges are covered under the *General Permit for the Discharge of Stormwater Associated with Industrial Activity*, (“general permit”) registered as GSI000406. Historically, DSN 003 and DSN 004, have not consistently complied with the benchmarks in the general permit (i.e., there have been elevated levels of copper in the stormwater and there have been toxicity failures associated with the stormwater). As a result, Section 10(B) of the permit incorporated a compliance schedule into the previous permit requiring Summit to address the quality of stormwater being discharged. Section 10(B) required Summit to submit a report, for the review and written approval of the Commissioner evaluating the effectiveness of certain remedial actions that have been taken to improve the quality

of the stormwater to meet the benchmarks identified in the general permit. This paragraph also required an evaluation of the need for supplemental remedial measures to further improve site stormwater quality.

On June 30, 2008, Summit submitted a report (*Stormwater Remedial Action Assessment Report*) prepared by Facility Support Services in response to the permit requirements of Section 10(B). This report summarized the remedial actions that had been performed at the site between 2000 and 2002, including: conducting annual inspections of the Building 6 roof to identify sources of copper exposure; painting exposed copper sources at the facility; cleaning and removing copper deposits on the Building 6 roof; and relocating the scrap metal storage area to an inside location. The report also proposed additional projects designed to improve stormwater quality (e.g., routinely cleaning residues off of the north side of the rectifier building; removing some old processing tanks; replacing and painting the corrugated metal roof of the Warehouse Building; installing exhaust scrubbers for the process fumes from Building 6). On August 20, 2010, a supplemental report (*Supplemental Stormwater Report*) was provided to the DEEP describing the ongoing efforts to improve stormwater quality. This report indicated that existing practices were continuing to be implemented concerning the improvements to stormwater quality (i.e., conducting annual inspections of the roof area to ensure that all copper-containing materials are painted over; conducting monthly inspections of the roof area to ensure that any copper deposits/residues from the process vents are cleaned up). This report also proposed to conduct sediment removal from the paved areas and the catch basins.

Summit submitted the required plans as required by this compliance section. As part of this permit renewal process, DEEP has continued to evaluate Summit's stormwater monitoring data from 2015 to 2021 and DEEP determined the discharges of stormwater are still exceeding the stormwater benchmarks in the general permit. Compliance with the stormwater general permit will be addressed through a separate action as those discharges are covered under a different NPDES permit

- **Compliance Schedule #2 (Permit Section 10(C)):** Section 10(C) of the previous permit required the permittee achieve compliance with an average monthly effluent limitation for total nitrogen of 17.7 kg/day (38.9 lbs/day) by August 1, 2009. In January 2009, Summit submitted a report entitled, *Scope of Study for Investigation and Implementation Plan, NPDES Permit CT0001180* that described an investigation to be conducted which was designed to reduce the total nitrogen level in its effluent. This investigation consisted primarily of the identification and subsequent substitution/elimination of nitrogen-bearing raw materials used at the facility. On August 20, 2010, Summit submitted a supplemental report summarizing the actions that it had taken to reduce the total nitrogen level in the effluent. These actions included: reformulating the lime slurry (which was determined to contain a significant source of total kjeldahl nitrogen) and substituting nitric acid for sulfuric acid in several of the process lines. These reports were approved on November 10, 2010. The permittee has been in compliance with the 2009 stepdown since taking these actions. This stepdown along with the 2014 requirements can be found in the *A Total Maximum Daily Load Analysis to Achieve Water Quality Standards for Dissolved Oxygen in Long Island Sound*, December 2000.
- **Compliance Schedule #3 (Permit Section 10(D)):** Section 10(D) of the previous permit required the permittee to achieve compliance with the effluent limitations for total residual chlorine, total copper, total lead, total nickel, total zinc, and acute aquatic toxicity contained in Section 5, Tables C & D of the permit by July 1, 2011. Compliance with the toxicity limits also included a requirement that the permittee undertake a Toxicity Identification Evaluation/Toxicity Reduction Evaluation (TIE/TRE), if necessary, and required that the permittee demonstrate compliance with the instantaneous toxicity limits in the permit. The permittee submitted a report in January 2009, *Scope of Study For Investigation and Implementation Plan, NPDES Permit CT0001180*, summarizing the manner in which it intended to comply with the requirements of Section 10(D) in the permit. In that report, the permittee proposed to implement certain operating procedures designed to achieve the required effluent limits, including: controlling dragout, recycling rinsewaters, reducing/substituting surfactant use, optimizing the performance of the spray systems and rinsing methods, and reducing the use of chelating agents. These procedures were implemented over time and the chemical-specific limits were met by the required compliance date of July 2011. In addition, on November 27, 2012, the permittee submitted verification of compliance with the maximum instantaneous

permit limits for acute toxicity in Table D of its permit. However, in January 2014, the permittee began having noncompliance issues with acute aquatic toxicity effluent limits. In 2015, they undertook a pilot study designed to reduce metals concentrations in its effluent and to comply with the aquatic toxicity results. Based on the findings of the pilot study, the permittee modified its treatment system in 2016 and 2017. Since September 2016, the permittee has been in compliance with the acute aquatic toxicity effluent limits in the permit.

XI. OUTSTANDING ENFORCEMENT (RELATED TO WASTEWATER DISCHARGES):

Consent Order No. COWRIN15001 required payment of \$135,000 and full compliance with all terms and conditions of the previous permit. Summit paid the final installment of the civil penalty on 5/20/2020 and has not had a permit violation in the last 5 years. That consent order will be closed out after the issuance of this permit.

CONSENT ORDER

The permit is simultaneously issued with a consent order requiring that Summit Corporation of America comply with interim monitoring requirements and effluent limits for total copper and total silver, and interim monitoring requirements for chronic aquatic toxicity (test species: *Ceriodaphnia dubia*). The administrative consent order further requires Summit Corporation of America to develop and implement a remedial action plan to achieve compliance with the final effluent limits in all process wastewater discharges remaining to the Naugatuck River as soon as possible but no later than (4) years and six (6) months from the effective date of the permit. Summit Corporation of America is required to include in its remedial action plan a detailed evaluation of alternative remedial actions including, but not limited to, pollutant source reduction, process changes/innovations, chemical substitutions, recycle and zero-discharge systems, water conservation measures, internal and/or end-of-pipe treatment technologies, redirection of the discharge into the sanitary sewer; and/or elimination of the discharge from the Naugatuck River.

XII. EFFLUENT GUIDELINES

The following Effluent Guidelines and Standards were reviewed in order to determine their applicability to Summit's discharge, DSN 001-1:

- **40 CFR 433: Metal Finishing Point Source Category.** Summit is a metal finishing job shop that began operations in 1955. It has been, and is currently engaged in, electroplating, passivation, and certain ancillary metal finishing operations. Since Summit performs the "core" and "ancillary" operations identified in 40 CFR 433.10, its discharge is regulated as a metal finishing discharge under 40 CFR 433. Summit is presently regulated as an existing source. However, numerous changes have occurred at the facility over the years, which have included adding new lines, re-configuring lines for different operations, and re-designing lines to minimize the generation of pollutants. If changes are made to an existing facility's operations that meet the definition of a new source (i.e., it installed new lines, rebuilt, or moved lines, converted existing lines to do new operations, etc.), the facility is subject to new source standards. Because changes have been made to the configuration and capabilities of the operations at Summit after the deadline date of July 15, 1983, the New Source Performance Standards (NSPS) at 40 CFR 433 apply to the discharge.
- **40 CFR 465: Coil Coating Point Source Category.** Summit cleans and plates copper coil at its facility. The regulations at 40 CFR 465 address coil coating of certain basis materials. Under this regulation, coil coating covers at least two of the three following operations: cleaning, conversion coating, and painting. Summit cleans, but does not conversion coat or paint its brass and copper coils. Therefore, 40 CFR 465 does not apply to the discharge.
- **40 CFR 468: Copper Forming Point Source Category.** Summit is engaged in the drawing of copper wire at its site. Following drawing, the copper wire is cleaned, and plated as necessary. The drawing solutions associated with this operation are containerized and shipped off-site. Section 40 CFR 468 regulates the discharges associated with copper forming operations; drawing is identified as a forming operation. However, the scope of this category is limited to those facilities classified within SIC codes 3351 and 3357. Summit's operations are not described by either of these SIC

codes. Therefore, the wire drawing activity can be classified as an ancillary operation under 40 CFR 433.

XIII. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. WASTESTREAMS AUTHORIZED FOR DISCHARGE UNDER DSN 001-1: Metal Finishing Wastewaters, Laboratory Wastewater, Water Treatment Wastewater, Air Scrubber Wastewater, Floor Washwater and Building Maintenance Wastewater, Tumbling Wastewater, Drum Rinsing Wastewater, Reverse Osmosis (RO) Reject and Backwash Water, Boiler Blowdown, Air Compressor Blowdown and Condensate, Fire Suppression Test Water

B. POLLUTANTS OF CONCERN FOR DSN 001-1:

The following pollutants are included as monitoring pollutants in the permit for the reasons noted below:

POLLUTANT	REASON FOR INCLUSION			
	POLLUTANT WITH AN APPLICABLE TECHNOLOGY-BASED LIMIT	POLLUTANT WITH A WASTE LOAD ALLOCATION FROM A TMDL	POLLUTANT IDENTIFIED AS PRESENT IN THE EFFLUENT THROUGH SAMPLING	POLLUTANT OTHERWISE EXPECTED TO BE PRESENT IN THE EFFLUENT
Acute Toxicity		✓		
Chronic Toxicity		✓		
Aluminum			✓	
Ammonia			✓	
BOD ₅			✓	
Cadmium	✓			
Chloride				✓
Chlorine, Total Residual			✓	
Chloroform			✓	
Chromium	✓			
Copper	✓			
Cyanide	✓			
Fluoride			✓	
Formaldehyde				✓
Gold				✓
Iron			✓	
Kjeldahl Nitrogen			✓	
Lead	✓			
Nickel	✓			
Nitrate				✓
Nitrite				✓
Nitrogen, Total			✓	
Oil & Grease	✓			
pH	✓			
Phosphorus			✓	
Silver	✓			
Surfactants				✓
Tin				✓
Total Suspended Solids	✓			
Total Toxic Organics	✓			
Zinc	✓			

NOTE: *E coli* is not a pollutant of concern as the sanitary waste is not comingled with the process wastewater

C. BASIS FOR DSN 001-1 LIMITS:

Technology and water-quality based requirements are considered when developing permit limits. Technology-based limits represent the minimum level of control imposed under the Clean Water Act (“CWA”). Industry-specific technology-based limits are set forth in 40 CFR 405 – 471 (EPA’s Effluent Limitation Guidelines) and in RCSA section 22a-430-4(s)(2). Water quality-based limits are designed to protect water quality and are determined using the procedures set forth in EPA’s *Technical Support Document for Water Quality-Based Toxics Control*, 1991 (“TSD”). When both technology and water quality-based limits apply to a particular pollutant, the more stringent limit would apply. In addition, water quality-based limits are required when any pollutant or pollutant parameter (conventional, non-conventional, toxic, and whole effluent toxicity) is or may be discharged at a level that causes, has reasonable potential to cause, or contributes to an excursion above any water quality criteria. Numeric water quality criteria are found in RCSA section 22a-429-9 of the *Connecticut Water Quality Standards*.

D. TECHNOLOGY-BASED LIMITS FOR DSN-001-1:

DSN 001-1 is subject to the limits at 40 CFR 433.16 and RCSA section 22a-430-4(s)(2). Technology-based limits at 40 CFR 433.16 and RCSA section 22-430-4(s)(2) apply to process wastewaters only. Therefore, an adjustment factor (i.e., the ratio of the process wastewaters that comprise the discharge to the total discharge flow) was applied to the limits in 40 CFR 433.16 and the limits in RCSA section 22a-430-4(s)(2) in order to determine the applicable end-of-pipe technology-based permit limits, summarized below. See Attachment 10 for these calculations.

E. MIXING ZONE FOR DSN 001-1:

Summit has been allocated a mixing zone based on the 7Q10 flow (14.9 cfs). The allocations are as follows: copper, cyanide, lead, nickel, zinc: 25%, and silver: 50%. See Attachment 11 for information describing how the mixing zone was determined.

F. WATER QUALITY-BASED LIMITS FOR DSN 001-1:

Consistent with CWA Section 301(b)(1)(C), NPDES permits must include effluent limits necessary to protect water quality. Water quality-based limits were determined for each toxic pollutant regulated by the metal finishing category. A summary of those limits and the rationale used to derive the limits is found at Attachment 12.

In addition, a reasonable potential analysis was conducted on each non-categorical pollutant that could be expected to be in the discharge. As defined in the TSD, reasonable potential is where an effluent is projected or calculated to cause an excursion above a water quality standard based on a number of factors, including at a minimum, the four factors listed in 40 CFR 122.44(d)(1)(ii). A reasonable potential analysis was conducted for each parameter that could be expected to be in the discharge. [See Attachment 13 for the reasonable potential analysis.] This analysis indicates that reasonable potential exists for aluminum to exceed the applicable water quality criteria. Therefore, consistent with 40 CFR 122.44(d)(1)(iii), the permit will include water quality-based limits for these parameters.

G. LIMIT DETERMINATION FOR DSN 001-1:

Below is a summary of the applicable limits for each of the subject parameters. If more than one limit applies to a parameter, the most stringent limit is included in the permit.

At an average flow of 160,000 gpd:
Instantaneous limits are 1.5 times the maximum daily limit

PARAMETER	UNITS	LIMITS						BPJ MIL
		TECHNOLOGY (40 CFR 433.16)		TECHNOLOGY (RCSA section 22a-430(4)(s))		WATER QUALITY <i>Water Quality Standards, October 2013</i>		
		AVERAGE MONTHLY LIMIT OR pH Minimum	MAXIMUM DAILY LIMIT OR pH Maximum	AVERAGE MONTHLY LIMIT	MAXIMUM DAILY LIMIT	AVERAGE MONTHLY LIMIT OR pH Minimum	MAXIMUM DAILY LIMIT OR pH Maximum	
Aluminum	µg/L			2000	4000	201	538	808
Aluminum	g/day			1211	2422	122	326	
Cadmium, Total	µg/L	70	110	70	110	0.08	0.20	0.30
Cadmium, Total	g/day	42	67	42	67	0.05	0.12	
Chromium, Total	µg/L	1710	2770	1000	2000	26	68	103.4
Chromium, Total	g/day	1035	1677	605	1211	9.5	44	
Copper, Total	µg/L	2070	3380	1000	2000	119	251	377
Copper, Total	g/day	1253	2047	605	1211	71	151	
Cyanide, Total	µg/L	Cyanide limits met at an internal point		Cyanide limits met at an internal point		51	137	205
Cyanide, Total	g/day					30	82	
Fluoride	mg/L			20	30			45
Fluoride	kg/day			12.1	18.1			
Gold	mg/L			0.1	0.5			0.75
Gold	g/day			61	303			
Iron, Total	mg/L			3.0	5.0			7.5
Iron, Total	g/day			1816	3027			
Lead, Total	µg/L	430	690	100	500	8	21	32
Lead, Total	g/day	260	418	61	303	4.8	13	
Nickel, Total	µg/L	2380	3980	1000	2000	190	628	943
Nickel, Total	g/day	1441	2410	605	1211	114	377	
Oil & Grease, Total	mg/L	26	52	10				20
Oil & Grease, Total	kg/day	15.7	31.4	6.05				
pH	SU	6.0	9.0			6.5	8.0	
Silver, Total	µg/L	240	430	100	500	11	31	47
Silver, Total	g/day	145	260	61	303	7.1	19	
Tin	mg/L			2.0	4.0			6
Tin	g/day			1211	2422			
Total Suspended Solids	mg/L	31	60	20	30			45
Total Suspended Solids	kg/day	18.7	36.3	12.1	18.1			
Total Toxic Organics	mg/L		2.12					1.0
Zinc, Total	µg/L	1480	2610	1000	2000	249	667	1001
Zinc, Total	g/day	896	1580	605	1211	149	400	

H. COMMENTS ON OTHER LIMITED AND MONITORING-ONLY PARAMETERS FOR DSN 001-1:

FLOW: The average monthly flow and maximum daily flow in the previous permit is 330,000 gpd and 400,000 gpd, respectively. Actual flows, since permit issuance, have been significantly lower than these values. The average flow will now be 160,000 gpd and the maximum daily flow will be 250,000 gpd.

BOD₅: BOD₅ limits have been required for those industrial facilities discharging into the upper Naugatuck River due to historic dissolved oxygen issues in this area of the river. The limit assigned to the industries has been the equivalent to secondary treatment limits (i.e., 30 mg/L as an average monthly limit). At an average of 160,000 gpd, the mass-based limit for BOD₅ is 40.0 lbs/day.

TOTAL NITROGEN: The TMDL, *A Total Maximum Daily Load Analysis to Achieve Water Quality Standards for Dissolved Oxygen in Long Island Sound*, December 2000, assigns total nitrogen allocations, by zone, to certain facilities or facility groups that discharge into Long Island Sound watershed basins. This TMDL is structured so that reductions to baseline allocations occur in steps. The reduction schedule published in the TMDL is specified as follows: a 25% reduction of the baseline through 2008; a 47.6% reduction of the baseline from 2009 through 2013; and a final 63.5% reduction of the baseline by 2014. Summit is located in Zone 4 of the subject TMDL. It

does not have an industry-specific allocation; its total nitrogen allocation is associated with the miscellaneous “Industrial” loading assigned to that zone. The allocations made to miscellaneous industrial facilities under this TMDL are established from the facility’s baseline total nitrogen data. Based on this data, Summit has been assigned a baseload allocation of 73.3 lbs/day. Its 2014 stepdown is 26.7 lbs/day. Summit has been able to meet its new limit of 26.7 lbs/day.

TOTAL PHOSPHORUS: DEEP currently has a watershed-specific nutrient management strategy for total phosphorus. The enrichment analysis conducted for the Naugatuck River watershed provides allocations for seven POTWs and one industry that discharge into the subject basin. Summit has not been allocated a total phosphorus load through this interim management strategy. The permittee is not presently monitoring its discharge for total phosphorus. There is one effluent data point for total phosphorus; the total phosphorus result was 4.88 mg/L. Numeric criteria for total phosphorus is expected to be established in the next several years. In the interim, the permittee shall monitor and collect total phosphorus data to inform future water quality modeling.

Alkalinity and Chloride: Alkalinity and chloride are added to the permit to determine the impact of these constituents on the toxicity of the discharge.

Ammonia: An RPA was conducted, in the interim between the tentative determination and final decision the facility made changes that resulted in reduced ammonia loadings and the permittee no longer has a reasonable potential to exceed water quality standards. Due to this ammonia is a monitoring only requirement. The previous permit included Ammonia limits as BPJ. These limit where not technologically based. As such they are not moving forward into this permit.

Chloroform: The facility does not use chloroform as a solvent, but it may be formed as a subsidiary due to a chemical reaction in their processes. Due to changes at the facility the pollutant no longer has a reasonable potential to pollute. It remains as a monitoring only requirement to maintain that it will not reach a level of concern.

E.Coli: The discharge does not contain sanitary sewage from the facility. Additionally E. Coli is not suspected present in the discharge. Due to this, E. Coli monitoring and limits are not incorporated into this permit.

I. WHOLE EFFLUENT TOXICITY:

Summit’s previous permit requires quarterly acute toxicity testing using *Daphnia pulex* and *Pimephales promelas* and annual chronic toxicity testing using *Ceriodaphnia dubia* and *Pimephales promelas*. The previous permit included two sets of acute toxicity limits: From permit issuance until June 21, 2011, the limits are LC₅₀ > 56%; from June 22, 2011 to permit expiration, the acute toxicity limits are ≥ 90% survival at 52.7% effluent and ≥ 50% survival in undiluted effluent. There are no permit limits in the previous permit for chronic toxicity. Acute and chronic toxicity results of Summit’s effluent from January 2018 to January 2023 can be found in Attachment 14

The segment of the Naugatuck River that Summit discharges into (6900-00_05) is identified on DEEP’s 2022 *Integrated Water Quality Report* as being impaired for whole effluent toxicity. A TMDL exists to address the impairment and is summarized in the document titled, *Total Maximum Daily Load Analysis for the Upper Naugatuck River, Thomaston, Connecticut*, which was approved by EPA on August 17, 2005. This TMDL sets forth Waste Load Allocations (WLAs) for acute toxicity and chronic toxicity for three industrial facilities, including Summit, and a POTW in the subject area. The WLAs for Summit are as follows:

At an average flow of 160,000 gpd:

ACUTE WLA FOR SUMMIT (from Table 4 of the TMDL)	CHRONIC WLA FOR SUMMIT (from Table 4 of the TMDL)
16.22 “gallons” of acute toxic units (TU _a)/second	49.17 “gallons” of chronic toxic units (TU _c)/second
$\frac{16.22 \text{ "gallons" of } TU_a}{\text{second}} * \frac{86,400 \text{ seconds}}{\text{day}} = \frac{1,401,408 \text{ "gallons" of } TU_a}{\text{day}}$	$\frac{49.17 \text{ "gallons" of } TU_c}{\text{second}} * \frac{86,400 \text{ seconds}}{\text{day}} = \frac{4,248,288 \text{ "gallons" of } TU_c}{\text{day}}$
Divide the WLA by the permitted monthly average flow (160,000 gallons/day)	Divide the WLA by the permitted monthly average flow (160,000 gallons/day)

$\frac{1,401,408 \text{ "gallons" of } TU_a}{\text{day}} * \frac{1 \text{ day}}{160,000 \text{ gallons}} = 8.75 \text{ TU}_a$	$\frac{4,248,288 \text{ "gallons" of } TU_c}{\text{day}} * \frac{1 \text{ day}}{160,000 \text{ gallons}} = 26.5 \text{ TU}_c$
WLA_a = 8.75 TU_a	WLA_c = 26.5 TU_c
$TU_a = \frac{100}{LC_{50}}$	$TU_c = \frac{100}{NOEC}$

The WLAs were translated into water quality-based permit limits (WQBELs) in accordance with the procedures set forth in the TSD and EPA's *National Whole Effluent Toxicity (WET) Implementation Guidance Under the NPDES Program (DRAFT)*, November 2004. The NPDES regulations at 40 CFR 122.44(d)(1)(vii)(B) require that WQBELs be consistent with the assumptions and requirements of any available wasteload allocation in the TMDL. In this case, some of the circumstances under which the TMDL was developed have changed and this has resulted in some conservative assumptions as noted below. One significant change is the 7Q10 flow used during the development of the TMDL was 12.6 cfs; however, the current 7Q10 is now 10.965 cfs. A reduction of 1.635 cfs or 1,056,728 gpd.

Section 5.4 of the TSD provides guidance for translating a two-value wasteload allocation into limits. This is as follows:

1. Convert the WLA_a to WLA_{a,c}:

$$WLA_{a,c} \text{ (in } TU_c) = WLA_a \text{ (in } TU_a) * ACR$$

$$WLA_{a,c} = 8.75 \text{ TU}_a * 10$$

$$\mathbf{WLA_{a,c} = 87.5 \text{ TU}_c}$$

[Note: The ACR (Acute to Chronic Ratio) is the ratio of the acute toxicity of an effluent to its chronic toxicity. The RCSA indicates that an assumption should be made that the ACR is 20, unless information is provided to rebut this assumption. The limited data that exists supports a value lower than 20. EPA's *Technical Support Document (TSD) for Water Quality-based Toxics Control*, March 1991 recommends that a measured ACR be used and that the data necessary for a measured ACR must include at least 10 pairs of acute and chronic test results for the same species. Ten paired sets are not available. In the absence of the data, the TSD suggests a default value of 10.]

2. Determine the Long-Term Averages (LTAs) for each WLA:

$$LTA_{a,c} = WLA_{a,c} * e^{[0.5\sigma^2 - z\sigma]}$$

$$LTA_{a,c} = 87.5 * 0.321$$

$$\mathbf{LTA_{a,c} = 28.0}$$

[Note: The value for the WLA_{a,c} multiplier ($e^{[0.5\sigma^2 - z\sigma]}$) was determined from Table 5-1 in the TSD. A default coefficient of variance (CV) of 0.6 is assumed; the 99th percentile occurrence probability is recommended for the LTA. This results in a WLA_{a,c} multiplier of 0.321].

$$LTA_c = WLA_c * e^{[0.5\sigma_4^2 - z\sigma_4]}$$

$$LTA_c = 26.5 * 0.527$$

$$\mathbf{LTA_c = 14.0}$$

[Note: The value for the WLA_c multiplier ($e^{[0.5\sigma_4^2 - z\sigma_4]}$) was determined from Table 5-1 in the TSD. A default coefficient of variance (CV) of 0.6 is assumed; the 99th percentile occurrence probability is recommended for the LTA. This results in a WLA_c multiplier of 0.527].

3. Permit limits are derived from whichever performance level is more protective. In this case, the LTA_c is more protective. Therefore, the average monthly limit (AML) and maximum daily limit (MDL) is derived from the LTA_c:

$AML = LTA * e^{[z\sigma_n - 0.5\sigma_n^2]}$ $AML = 14.0 * 1.55$ $\mathbf{AML = 21.6 \text{ TU}_c}$	$MDL = LTA * e^{[z\sigma - 0.5\sigma^2]}$ $MDL = 14.0 * 3.11$ $\mathbf{MDL = 43.4 \text{ TU}_c}$
--	--

[Note: AML: The value for the LTA multiplier ($e^{[z\sigma_n - 0.5\sigma_n^2]}$) was determined from Table 5-2 in the TSD. A default coefficient of variance (CV) of 0.6 is assumed and n = 4 is assumed; the 95th percentile occurrence probability was used for the AML. This results in a LTA multiplier of 1.55. MDL: The value for the LTA multiplier

$(e^{[z\sigma-0.5\sigma^2]})$ was determined from Table 5-2 in the TSD. A default coefficient of variance (CV) of 0.6 is assumed; the 99th percentile occurrence probability is recommended for the MDL. This results in a LTA multiplier of 3.11].

4. **Acute Toxicity (MDL):** Converting the TU_c into a TU_a (using an ACR of 10) results in a TU_a of 4.34. Since $TU_a = \frac{100}{LC_{50}}$, 4.34 TU_a results in an LC_{50} of 23%. Therefore, the MDL for acute toxicity is 23%, expressed as an LC_{50} .

5. **Acute Toxicity (AML):** Converting the TU_c into a TU_a (using an ACR of 10) results in a TU_a of 2.16. Since $TU_a = \frac{100}{LC_{50}}$, 2.16 TU_a results in an LC_{50} of 46%. Therefore, the AML for acute toxicity is 43%, expressed as an LC_{50} .

6. **Chronic Toxicity (MDL):** Since $TU_c = \frac{100}{NOEC}$, 43.4 TU_c results in a NOEC 2.30%. Therefore, the MDL for chronic toxicity is 2.3%, expressed as C-NOEC.

7. **Chronic Toxicity (AML):** Since $TU_c = \frac{100}{NOEC}$, 21.6 TU_c results in a NOEC 4.63%. Therefore, the AML for chronic toxicity is 4.6%, expressed as C-NOEC.

J. WASTESTREAMS AUTHORIZED FOR DISCHARGE UNDER DSN 001A-1:

Cyanide-bearing wastewaters

K. BASIS FOR DSN 001A PARAMETERS, LIMITS, AND MONITORING FREQUENCIES:

This is an internal point for monitoring amenable cyanide. Federal limits at 40 CFR 433.16(b) apply to this monitoring point. The state limits under RCSA section 22a-430-4(s)(2) for amenable cyanide can be applied at either the final discharge point or internally.

DSN 001A

PARAMETER	40 CFR 433.16		BPJ	RCSA 22a-430-4(s)(2)		
	Average Monthly (mg/L)	Maximum Daily (mg/L)	Instantaneous (mg/L)	Average Monthly (mg/L)	Maximum Daily (mg/L)	Instantaneous (mg/L)
Cyanide, Amenable	0.32	0.86	1.29	0.1	0.2	0.3

XIV. MONITORING FREQUENCY

The *Monitoring Schedule* set forth in RCSA section 22a-430-3 prescribes a frequency of weekly for DSN 001-1 based on: a) the category of discharge (“Metal Finishing”) and b) the average permitted monthly flow (>10,000 gpd). Therefore, monitoring for categorical parameters and those parameters that are expected to routinely be in the discharge will be weekly in accordance with the *Monitoring Schedule*; monitoring for the other parameters is set on a case-by-case basis.

XV. EXPRESSION OF EFFLUENT LIMITATIONS

The DSN 001-1 discharge operates continuously. Therefore, the technology and water quality-based permit limits are expressed as average monthly and maximum daily per 40 CFR 122.45(d). Limits are mass-based consistent with 40 CFR 122.45(f)(1) and concentration-based consistent with 40 CFR 122.45(f)(2).

XVI. SOLVENT MANAGEMENT PLAN

Summit’s *Solvent Management Plan*, dated August 2012, (“plan”) was approved on October 18, 2012. The plan was submitted as part of the permit application and is considered current and up-to-date. The plan indicates that the only TTO expected to be present in the discharge in Chloroform. Chloroform is reportedly not used on-site in its pure form, but is generated as the result of a reaction between the raw materials used in the plating baths at the facility (i.e., a reaction between sodium hypochlorite and acetone). Consistent with 40 CFR 433.12(b), the plan has been incorporated as a provision of the permit (i.e., Section 5(E)).

XVII. ANTI-BACKSLIDING

An anti-backsliding analysis was conducted on the final effluent limitations. Anti-backsliding provisions are met. See Attachment 15 for a summary of the limits in the previous permit and the limits in the proposed permit.

XVIII. ANTIDEGRADATION

The renewed permit does not reflect any new or expanded discharges as authorized upon issuance.

XIX. CHANGES FROM NOTICE OF TENTATIVE DECISION

In response to comments received from Summit Corporation of America on the draft permit in correspondence dated May 9, 2019 and June 28, 2019, the following edits were made:

- Under Section 2--Definitions, the phrase “in Tables A and B of” has been deleted from the definitions of the terms: “Annually”, “Quarterly” and “Semiannual,” as these terms are applicable to the permit and administrative consent order.
- A modified Table A, replacing Tables A and B, has been updated for clarity (e.g., wastewater description, footnote numbering), to remove interim limits total copper, total silver and chronic toxicity consistent with the interim limits in the administrative consent order, and to remove the requirement to monitor cis 1,2 dichloroethylene, total mercury, 1,1,1 trichloroethane and trichloroethylene (i.e., which are no longer present in the process discharge and do not require monitoring), and to reduce maximum and average daily discharge flow to 250,000 gallons per day from 400,000 gallons per day.
- Removal of Table D, monitoring for hexavalent chromium at an internal monitoring point.
- In Section 7(A)(2): Sample Collection and Handling the temperature samples are required to be held at was changed to 0-6 C. In section (7)(B)(5): Dilution Water subsections a and b were removed and laboratory water was added to allowable dilution water. Section (7)(B)(6): was reworded to match the previous section and changes to permit Table A.
- Section 10: Special Conditions/Compliance Schedule was removed from the permit.

Additional changes to the draft permit were made by DEEP staff to align with current practice:

- The signature block was updated to address new bureau chief.
- Permit limits for Aluminum, Ammonia, Cadmium, chloroform, chromium, copper, cyanide, lead, nickel, silver, and zinc have been updated using current DMR data (i.e., 2018 through 2023).

XXI. REFERENCES

Coil Coating Point Source Category, 40 C.F.R. §465 (2017)

Copper Forming Point Source Category, 40 C.F.R. §468 (2017)

Connecticut Department of Environmental Protection (CTDEP) and New York State Department of Environmental Conservation (NYDES). 2000. *A Total Maximum Daily Load Analysis to Achieve Water Quality Standards for Dissolved Oxygen in Long Island Sound*. CTDEP and NYDES

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Connecticut Department of Environmental Protection. 2010. *NPDES Permit CT0025305 issued to Quality Rolling and Deburring Company, Inc.*, April 1, 2008 to March 31, 2013. CTDEP

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Connecticut Department of Energy and Environmental Protection. 2017. *2016 Integrated Water Quality Report*. CT DEEP Bureau of Water Protection and Land Reuse

Environmental Monitoring Lab, Inc. 2011 to 2017. *Chronic ATMR*

EPA Administered Permit Programs: The National Pollutant Discharge Elimination System, 40 C.F.R. §122 (2017)

Landfills Point Source Category, 40 C.F.R. §445 (2017)

Metal Finishing Point Source Category, 40 C.F.R. §433 (2017)

Summit Corporation of America, 2008 through 2018, *Discharge Monitoring Reports*

Regulations of Connecticut State Agencies, Title 22a, Environmental Protection. *Water Pollution Control*, Sections 22a-430-1 to 22a-430-8

Regulations of Connecticut State Agencies, Title 22a, Environmental Protection. *Connecticut Water Quality Standards*, Sections 22a-426-1 to 22a-426-9 (2013).

U.S. EPA. (n.d). *National Recommended Water Quality Criteria - Aquatic Life Criteria Table*. Retrieved from <https://www.epa.gov/wqc/national-recommended-water-quality-criteria-aquatic-life-criteria-table>

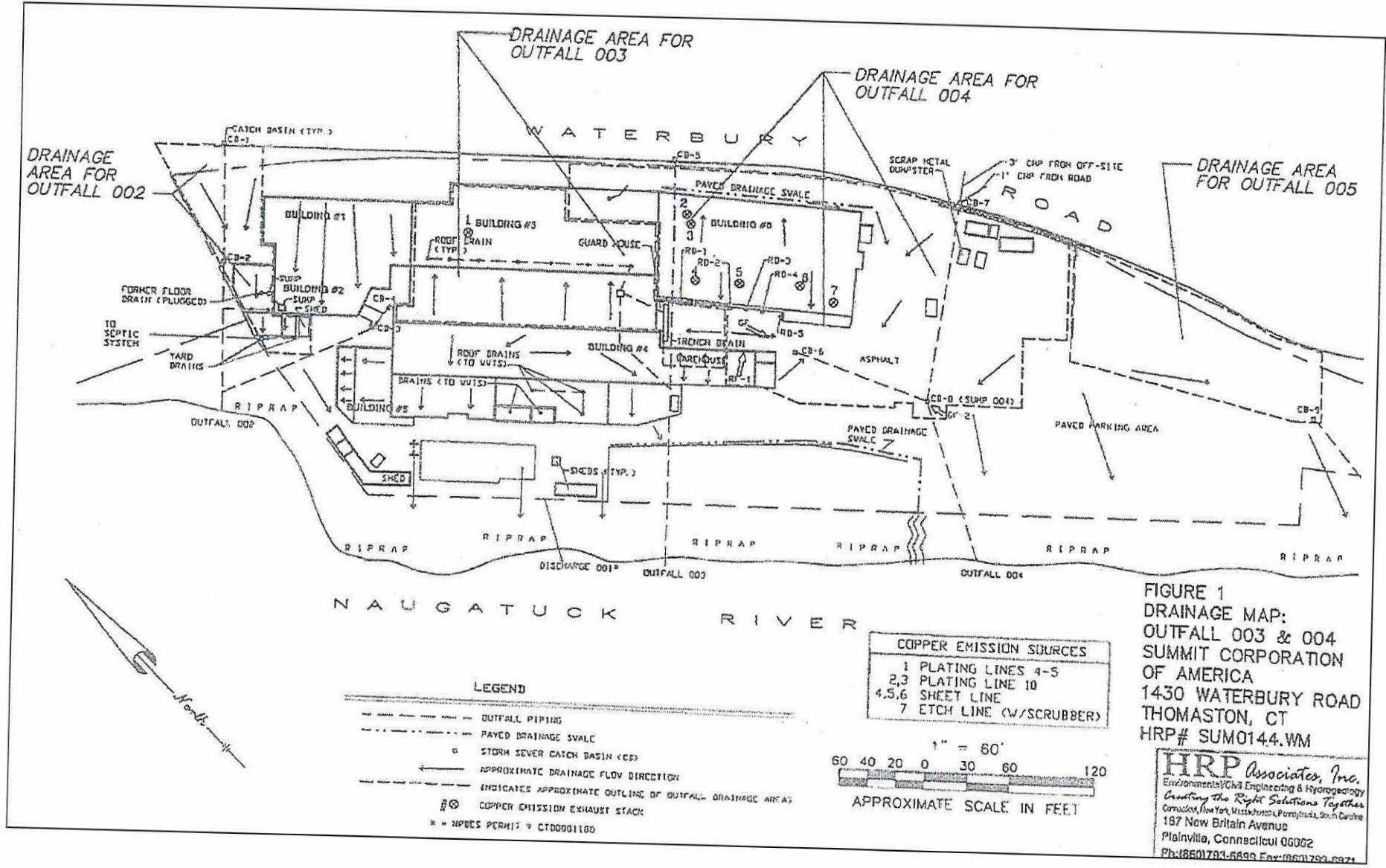
U.S. EPA. 1991. *Technical Support Document For Water Quality-based Toxics Control*. (EPA/505/2-90-001)

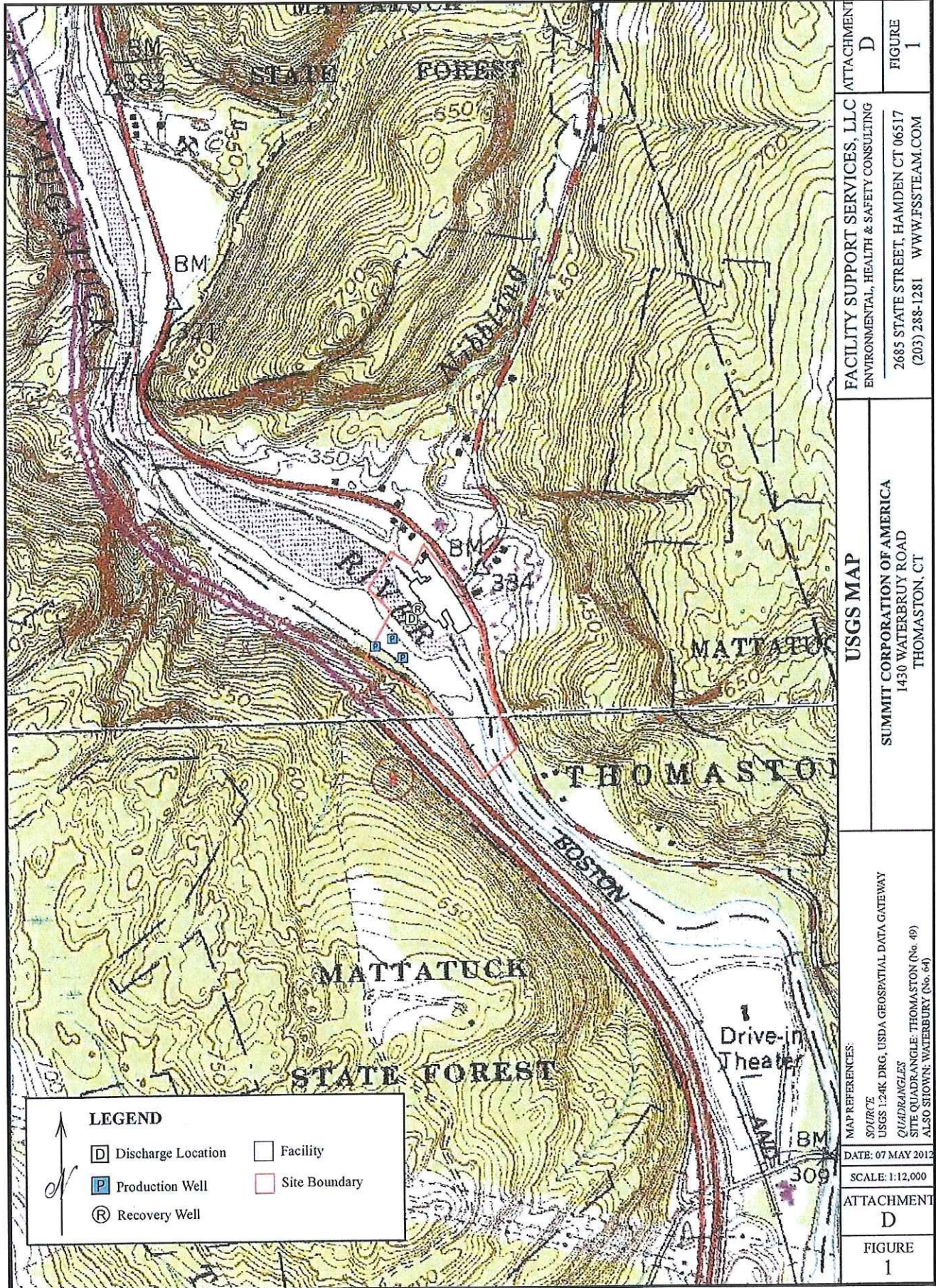
U.S. EPA. 2002. *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms* (EPA-821-R-02-012)

U.S. EPA. 2002. *Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms*. (EPA-821-R-02-013)

U.S. EPA. 2002. *National Whole Effluent Toxicity (WET) Implementation Guidance Under the NPDES Program*, (EPA 832-B-04-003).

U.S. EPA. 2010. *NPDES Permit Writer's Manual*. (EPA-833-K-10-001)





LEGEND

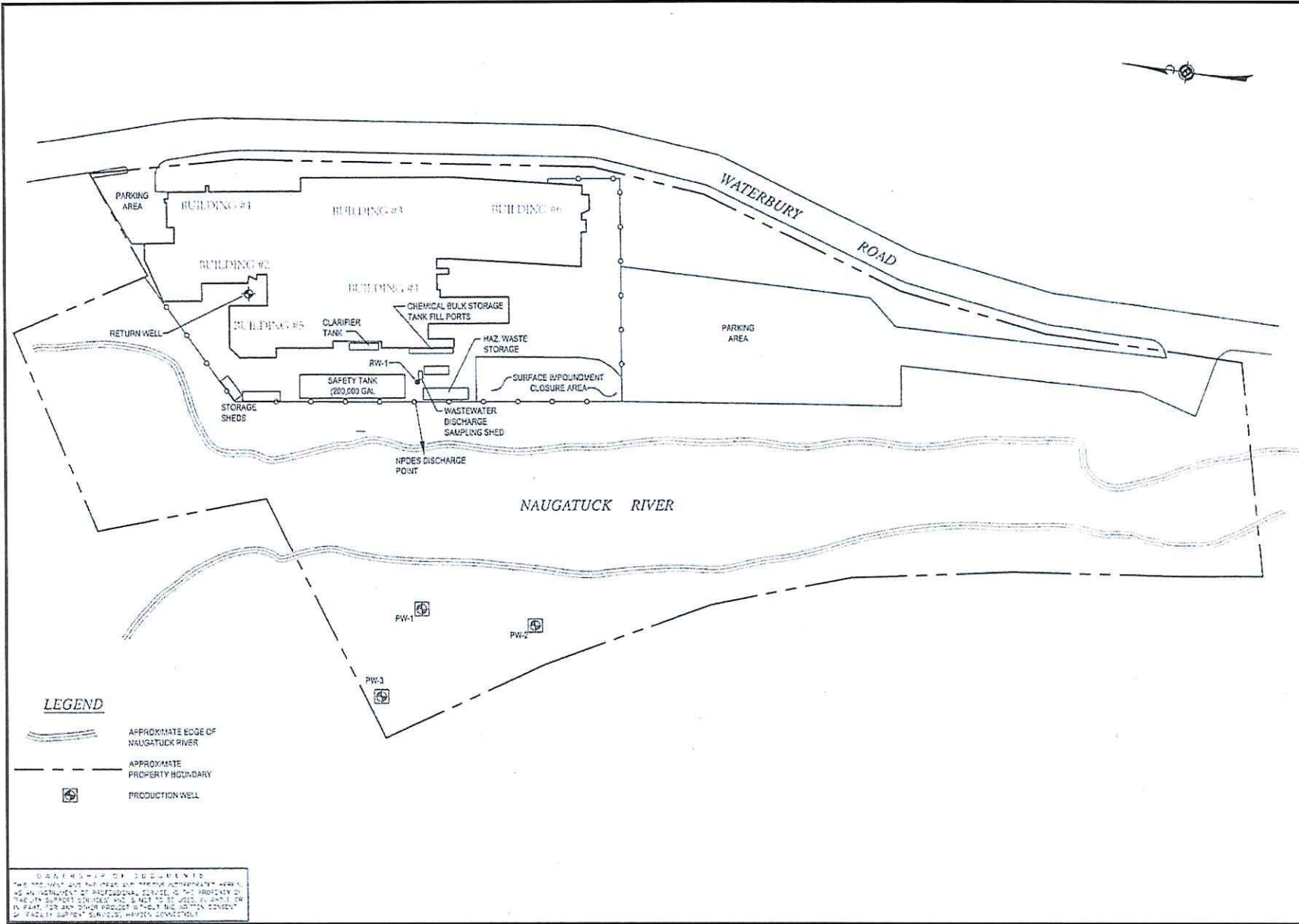
↑ North Arrow

[D] Discharge Location [] Facility

[P] Production Well [] Site Boundary

[R] Recovery Well

<p>USGS MAP</p> <p>SUMMIT CORPORATION OF AMERICA 1430 WATERBRUY ROAD THOMASTON, CT</p>		<p>FACILITY SUPPORT SERVICES, LLC ATTACHMENT D</p> <p>ENVIRONMENTAL, HEALTH & SAFETY CONSULTING</p> <p>2685 STATE STREET, HAMDEN CT 06517 (203) 288-1281 WWW.FSSTEAM.COM</p>
<p>MAP REFERENCES:</p> <p>SOURCE: USGS 1:24K DRG, USDA GEOSPATIAL DATA GATEWAY</p> <p>QUADRANGLES: SITE QUADRANGLE: THOMASTON (No. 49) ALSO SHOWN: WATERBURY (No. 64)</p>		<p>FIGURE 1</p>
<p>DATE: 07 MAY 2012</p> <p>SCALE: 1:12,000</p>		<p>ATTACHMENT D</p>
<p>FIGURE 1</p>		<p>FIGURE 1</p>



FSS 39211	FACILITY SUPPORT SERVICE, LLC
ATTACHMENT F	Environmental & Safety Consulting Engineers
FIGURE 1	2685 State Street, Hamden, CT 06517
	Phone: (203) 285-1281
	www: FSSTEAM.COM
SITE PLAN	SUMMIT CORPORATION OF AMERICA
	1430 WATERBURY ROAD
	THOMASTON, CONNECTICUT
MAP REFERENCE	

ATTACHMENT 3

ATTACHMENT 4

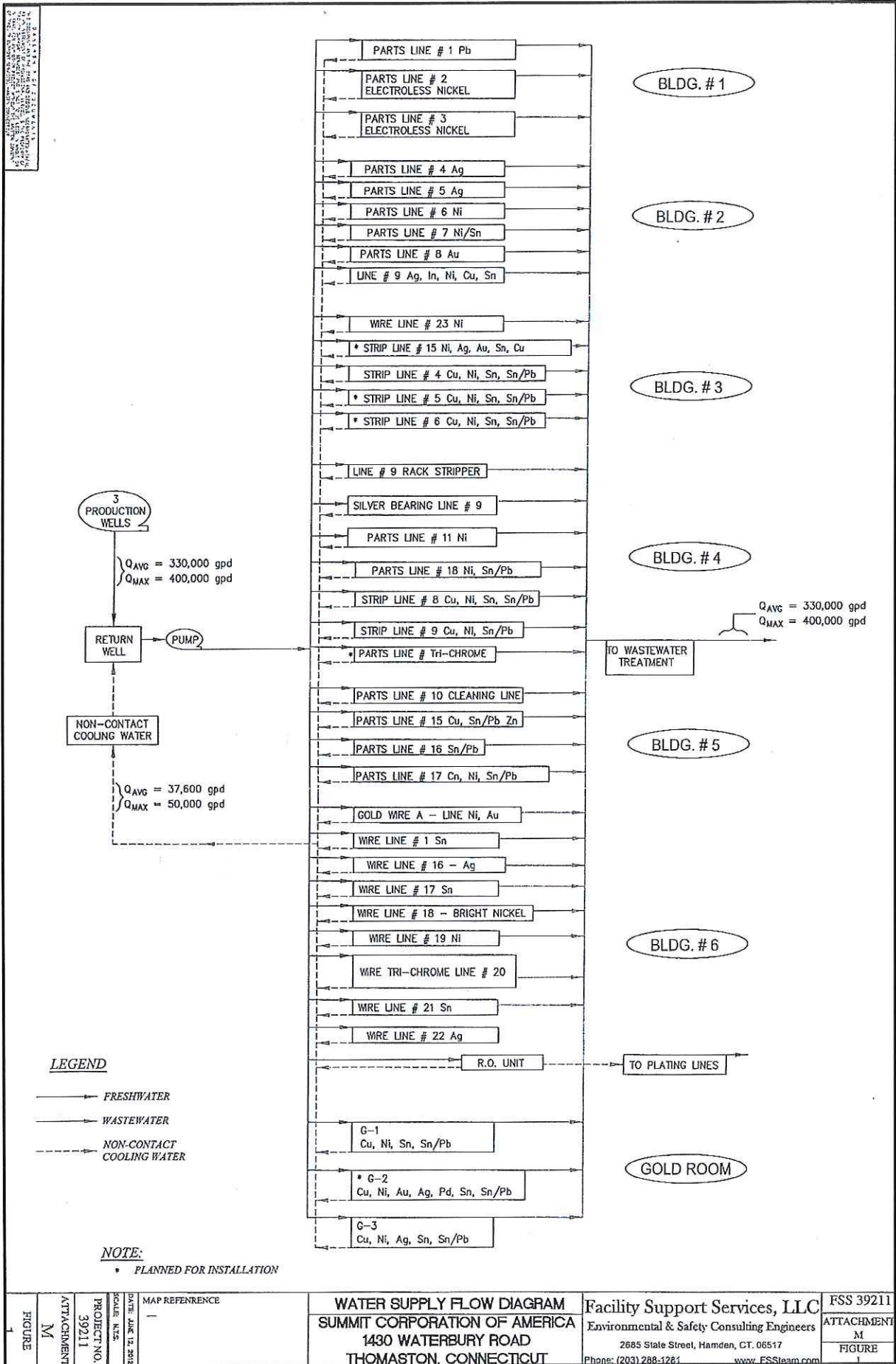
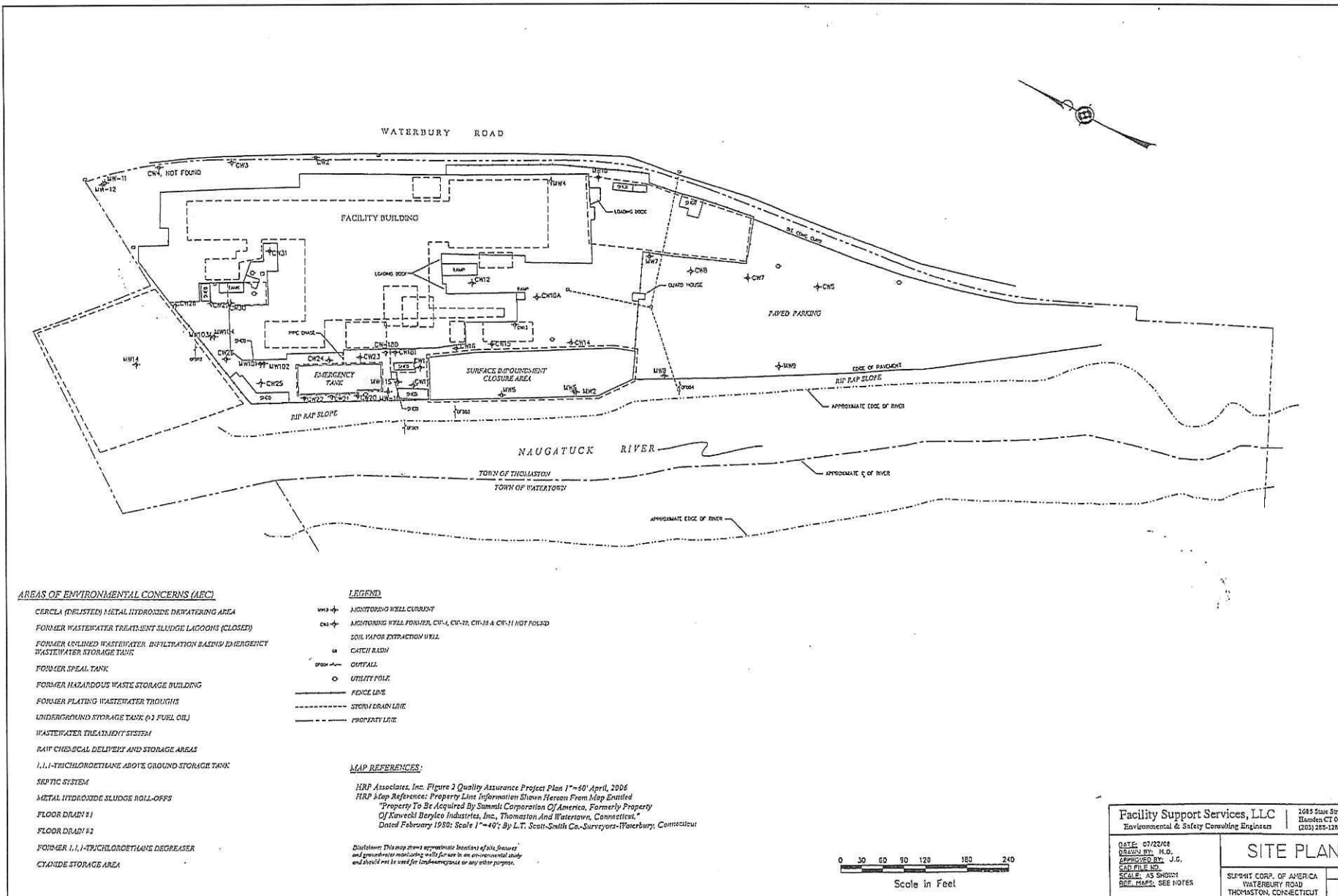


FIGURE 1	ATTACHMENT M	PROJECT NO. 39211	DATE: JUNE 12, 2012	SCALE: NTS	MAP REFERENCE	WATER SUPPLY FLOW DIAGRAM		Facility Support Services, LLC Environmental & Safety Consulting Engineers 2685 State Street, Hamden, CT. 06517 Phone: (203) 288-1261 www.ESSteam.com	FSS 39211
						SUMMIT CORPORATION OF AMERICA 1430 WATERBURY ROAD THOMASTON, CONNECTICUT			



AREAS OF ENVIRONMENTAL CONCERNS (AEC)

- CERCLA (DELISTED) METAL HYDROXIDE DEWATERING AREA
- FORMER WASTEWATER TREATMENT SLUDGE LAGOONS (CLOSEST)
- FORMER UNLINED WASTEWATER INFILTRATION BASIN/ EMERGENCY WASTEWATER STORAGE TANK
- FORMER SPEAR TANK
- FORMER HAZARDOUS WASTE STORAGE BUILDING
- FORMER PLATING WASTEWATER TROUGH
- UNDERGROUND STORAGE TANK (2 FUEL OIL)
- WASTEWATER TREATMENT SYSTEM
- RAW CHEMICAL DELIVERY AND STORAGE AREAS
- 1,1,1-TRICHLOROETHANE ABOVE GROUND STORAGE TANK
- SEPTIC SYSTEM
- METAL HYDROXIDE SLUDGE ROLL-OFFS
- FLOOR DRAIN #1
- FLOOR DRAIN #2
- FORMER 1,1,1-TRICHLOROETHANE DEGREASER
- CYANIDE STORAGE AREA

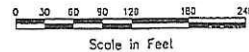
LEGEND

- MW + MONITORING WELL CURRENT
- CW + MONITORING WELL FORMER, CW-1, CW-12, CW-13 & CW-11 NOT FOLDED
- SW + SOIL VAPOR EXTRACTION WELL
- CB CATCH BASIN
- UTP UTILITY POLE
- FENCE LINE
- STORM DRAIN LINE
- PROPERTY LINE

MAP REFERENCES:

HRP Associates, Inc. Figure 2 Quality Assurance Project Plan 1"=60' April, 2006
 HRP Map Reference: Property Line Information Shown Herein From Map Entitled
 "Property To Be Acquired By Summit Corporation Of America, Formerly Property
 Of Kowweck Berlyco Industries, Inc., Thomaston And Waterbury, Connecticut,"
 Dated February 1980; Scale 1"=40'; By L.T. Scott-Smith Co.-Surveyors-Waterbury, Connecticut

Disclaimer: This map shows approximate location of site features and ground-water monitoring wells for use in an environmental study and should not be used for land-management or any other purpose.



Facility Support Services, LLC Environmental & Safety Consulting Engineers		1045 State Street Hamden CT 06517 (203) 285-1211
DATE: 07/20/08 DRAWN BY: H.G. APPROVED BY: J.G. CAD FILE NO: SCALE: AS SHOWN REF. MAPS: SEE NOTES	SITE PLAN	
SUPRIT CORP. OF AMERICA WATERBURY ROAD THOMASTON, CONNECTICUT		2

ATTACHMENT 6

RCRA GROUNDWATER MONITORING WELL RESULTS

MW-5									
	3/11/2008	9/18/2008	3/24/2009	9/16/2009	4/7/2010	11/4/2010	3/14/2011	9/23/2011	3/26/2012
Barium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	9.1	ND	ND	ND	ND	5.9	5.7	6.6	ND
Cyanide	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gold	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	290	220	190	190	230	300	290	300	150
Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tin	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	440	260	200	190	230	200	260	240	120
cis-1,2-Dichloroethylene	ND	ND	ND	8.8	ND	ND	1.3	ND	ND
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (TCA)	2.9	ND	ND	ND	ND	ND	ND	2.6	ND
trans-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	35	20	18	ND	9.8	14	52	24	ND
Tetrahydrofuran	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	ND	ND	ND	ND	ND	ND	ND	ND	ND

All In µg/L

MW-6									
	3/11/2008	9/18/2008	3/24/2009	9/16/2009	4/7/2010	11/4/2010	3/14/2011	9/23/2011	3/26/2012
Barium	ND	62	ND	76	130	ND	130	51	ND
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	6.9	6.7	6.3	13	ND	7.8	ND
Cyanide	ND	ND	6300	ND	33	ND	ND	ND	ND
Cobalt	ND	ND	40	33	ND	39	ND	2.1	ND
Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	89	ND	570	360	150	970	ND	880	450
Gold	ND	ND	870	ND	ND	ND	ND	ND	ND
Mercury	ND	ND	4.3	ND	ND	ND	ND	ND	ND
Nickel	920	160	3600	9800	2600	5300	510	3600	690
Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	960	23	ND	ND	ND	ND	12
Tin	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	ND	90	650	390	400	1300	93	600	200
cis-1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (TCA)	ND	ND	1.1	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	3.1	8.5	2.5	ND	1.7	ND	5.6	1.2	ND
Tetrahydrofuran	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	ND	ND	ND	ND	ND	ND	ND	ND	ND

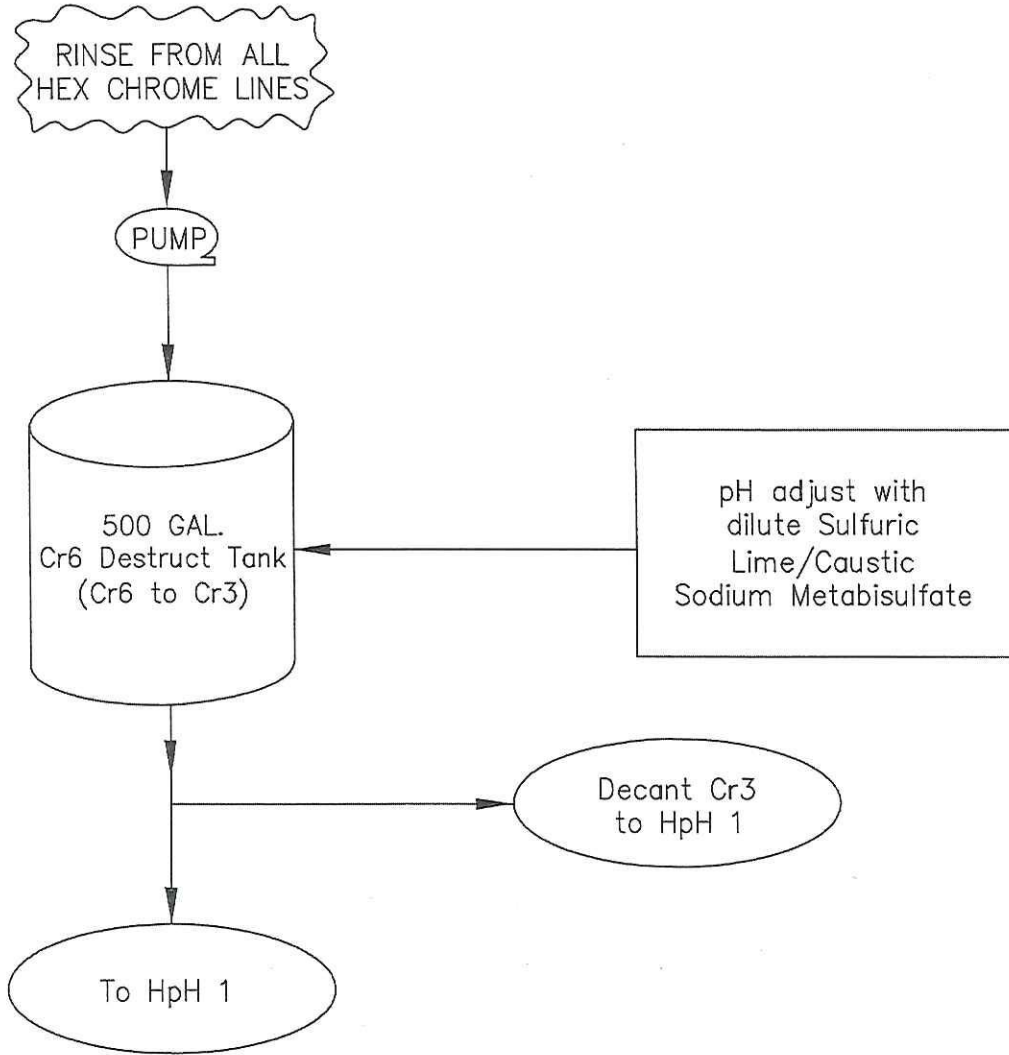
All In µg/L

MW-8									
	3/11/2008	9/18/2008	3/24/2009	9/16/2009	4/7/2010	11/4/2010	3/14/2011	9/23/2011	3/26/2012
Barium	ND	ND	170	ND	ND	ND	ND	60	ND
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	ND	ND	11	ND	ND	ND	ND	ND	ND
Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gold	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	200	ND	ND	54	ND	59	ND
Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tin	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	50	39	130	ND	ND	70	ND	ND	ND
cis-1,2-Dichloroethylene	ND	ND	1.0	1.5	ND	ND	ND	36	ND
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (TCA)	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	ND	ND	10	1.4	ND	4.3	ND	17	ND
Tetrahydrofuran	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	ND	ND	ND	ND	ND	ND	ND	ND	ND

All In µg/L

MW-10									
	3/11/2008	9/18/2008	3/24/2009	9/16/2009	4/7/2010	11/4/2010	3/14/2011	9/23/2011	3/26/2012
Barium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gold	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tin	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	43	37	34	31	50	ND	52	37	ND
cis-1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (TCA)	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrahydrofuran	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	ND	ND	ND	ND	ND	ND	ND	ND	ND

All In µg/L



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MAP REFERENCE 1	PROPOSED Cr VI DESTRUCT SYSTEM	FSS 39211
	SUMMIT CORPORATION OF AMERICA 1430 WATERBURY ROAD THOMASTON, CONNECTICUT	ATTACHMENT N
DATE: June 13, 2012		FIGURE 1
SCALE: N.T.S.		
PROJECT NO. 39211		
ATTACHMENT N		
FIGURE 1		

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Permit Name	Version Nbr	Curr. Major Minor Status	Issue Date	Effective Date	Expiration Date
SUMMIT CORPORATION OF AMERICA	0	Major	12/21/07	1/1/08	12/31/12

Version # 0

Outfall 0011

00056 Flow rate / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Totalizer	Continuous

Limit	
Limit Unit Desc	Gallons per Day
Statistical Base	MO AVG
Limit Value	330000
DMR Values	
2/28/18	133493
3/31/18	149515
4/30/18	129638
5/31/18	160268
6/30/18	136705
7/31/18	135055
8/31/18	145584
9/30/18	158779
10/31/18	127601
11/30/18	118296
12/31/18	137663
1/31/19	124022
2/28/19	131470
3/31/19	129747
4/30/19	144986
5/31/19	101642
6/30/19	142539
7/31/19	146367
8/31/19	148806
9/30/19	157709
10/31/19	134623
11/30/19	126085
12/31/19	118802
1/31/20	106186
2/29/20	108132
3/31/20	101328
4/30/20	71673
5/31/20	69114
6/30/20	72617
7/31/20	74179
8/31/20	78521
9/30/20	80385
10/31/20	80672
11/30/20	79162
12/31/20	70029
1/31/21	75330
2/28/21	85035
3/31/21	84920
4/30/21	96597
5/31/21	89776

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00056 Flow rate / Location 1 / Season 0 / Base

DMR Values	
6/30/21	86174
7/31/21	88352
8/31/21	72837
9/30/21	68545
10/31/21	61634
11/30/21	75389
12/31/21	86249
1/31/22	77699
2/28/22	90339
3/31/22	97674
4/30/22	89893
5/31/22	103926
6/30/22	115239
7/31/22	91807
8/31/22	87471
9/30/22	53424
10/31/22	66076
11/30/22	57664
12/31/22	49163
1/31/23	59196
2/28/23	Not Received

00310 BOD, 5-day, 20 deg. C / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Monthly

Limit		
Limit Unit Desc	Kilograms per Day	Kilograms per Day
Statistical Base	MO AVG	DAILY MX
Limit Value	42.7	
DMR Values		
2/28/18	8.922	8.922
3/31/18	2.46	2.46
4/30/18	4.95	4.95
5/31/18	0	0
6/30/18	1.93	1.93
7/31/18	3.85	3.85
8/31/18	7.29	7.29
9/30/18	17.4	17.4
10/31/18	6.78	6.78
11/30/18	1.701	1.701
12/31/18	10.42	10.42
1/31/19	3.96	3.96
2/28/19	11.7	11.7
3/31/19	1.362	1.362
4/30/19	6.003	6.003
5/31/19	1.974	1.974
6/30/19	19.816	19.816
7/31/19	8.116	8.116

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

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Outfall 0011

00310 BOD, 5-day, 20 deg. C / Location 1 / Season 0 / Base

DMR Values		
8/31/19	11.57	11.57
9/30/19	4.0965	4.0965
10/31/19	10.479	10.479
11/30/19	0	0
12/31/19	1.884	1.884
1/31/20	7.2139	7.239
2/29/20	4.775	4.775
3/31/20	.482	.482
4/30/20	4.576	6.32
5/31/20	4.055	4.055
6/30/20	5.726	5.726
7/31/20	11.449	11.449
8/31/20	10.7011	10.7011
9/30/20	7.2939	7.2939
10/31/20	6.3261	6.3261
11/30/20	3.4713	3.4713
12/31/20	3.9412	3.9412
1/31/21	4.2906	4.2906
2/28/21	2.9291	2.9291
3/31/21	0	0
4/30/21	10.1761	10.1761
5/31/21	7.316	7.316
6/30/21	9.516	9.516
7/31/21	5.394	5.394
8/31/21	11.075	11.075
9/30/21	6.3058	6.3058
10/31/21	9.082	9.082
11/30/21	7.894	7.894
12/31/21	3.614	3.614
1/31/22	8.64	8.64
2/28/22	4.067	4.067
3/31/22	6.9475	6.9475
4/30/22	13.41	13.41
5/31/22	3.218	3.218
6/30/22	7.24	7.24
7/31/22	6.36	6.36
8/31/22	4.0139	4.0139
9/30/22	2.597	2.597
10/31/22	1.056	1.056
11/30/22	1.39	1.39
12/31/22	6.087	6.087
1/31/23	4.05	4.05
2/28/23	Not Received	Not Received

00400 pH / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Range During Sampling	Weekly

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00400 pH / Location 1 / Season 0 / Base

Limit		
Limit Unit Desc	Standard Units	Standard Units
Statistical Base	INST MIN	INST MAX
Limit Value	6	9
DMR Values		
2/28/18	7.8	8.7
3/31/18	8	8.7
4/30/18	8	8.8
5/31/18	8	8.9
6/30/18	7.8	9
7/31/18	7.8	8.8
8/31/18	8.2	8.9
9/30/18	8.1	8.7
10/31/18	8.1	8.6
11/30/18	8.1	8.7
12/31/18	8.2	8.7
1/31/19	8.1	8.6
2/28/19	7.9	8.8
3/31/19	8.1	8.8
4/30/19	8.3	8.8
5/31/19	8	8.6
6/30/19	8	8.7
7/31/19	8	8.7
8/31/19	8.2	8.8
9/30/19	8.2	8.8
10/31/19	7.9	8.7
11/30/19	8.3	8.8
12/31/19	8	8.7
1/31/20	7.7	8.8
2/29/20	7.7	8.7
3/31/20	8.1	8.7
4/30/20	8	8.6
5/31/20	7.7	8.9
6/30/20	8	9
7/31/20	7.8	9
8/31/20	8	8.9
9/30/20	7.9	8.9
10/31/20	7.7	8.9
11/30/20	7.8	8.8
12/31/20	7.7	8.8
1/31/21	8	8.8
2/28/21	7.9	8.7
3/31/21	7.8	8.9
4/30/21	7.8	9
5/31/21	8.1	9
6/30/21	7.8	9
7/31/21	7.6	8.8
8/31/21	8.1	8.8
9/30/21	8.1	8.8
10/31/21	8.2	8.9
11/30/21	8.3	8.9

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00400 pH / Location 1 / Season 0 / Base

DMR Values		
12/31/21	7.7	8.9
1/31/22	8.2	8.8
2/28/22	8	9
3/31/22	7.5	9
4/30/22	8.2	8.8
5/31/22	8.1	8.8
6/30/22	8.2	8.8
7/31/22	8	8.9
8/31/22	8.2	8.6
9/30/22	8.1	9
10/31/22	7.9	8.9
11/30/22	8.3	8.8
12/31/22	8	9
1/31/23	8.3	8.8
2/28/23	Not Received	Not Received

00530 Solids, total suspended / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Weekly

Limit		
Limit Unit Desc	Milligrams per Liter	Milligrams per Liter
Statistical Base	MO AVG	DAILY MX
Limit Value	20	30
DMR Values		
2/28/18	1.3	2
3/31/18	1.8	3
4/30/18	1.8	3
5/31/18	1.4	3
6/30/18	1.8	3
7/31/18	1.3	3
8/31/18	1.5	3
9/30/18	1.3	2
10/31/18	1.2	2
11/30/18	1.3	3
12/31/18	.5	1
1/31/19	1.2	3
2/28/19	1.5	2
3/31/19	.75	2
4/30/19	.8	2
5/31/19	.25	1
6/30/19	.5	1
7/31/19	.5	1
8/31/19	.5	1
9/30/19	.5	1
10/31/19	.8	2
11/30/19	.5	2
12/31/19	.667	1
1/31/20	0	0

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00530 Solids, total suspended / Location 1 / Season 0 / Base

DMR Values		
2/29/20	.3	1
3/31/20	.8	2
4/30/20	.5	2
5/31/20	4.3	9
6/30/20	1.75	5
7/31/20	1.25	4
8/31/20	5.333	10
9/30/20	3.4	6
10/31/20	6.75	13
11/30/20	2.75	5
12/31/20	1.4	4
1/31/21	1.5	4
2/28/21	1.5	4
3/31/21	2.8	5
4/30/21	5.75	8
5/31/21	3	8
6/30/21	4.875	10
7/31/21	2.25	4
8/31/21	3.2	8
9/30/21	3.25	8
10/31/21	5.25	6
11/30/21	3.2	5
12/31/21	.667	2
1/31/22	2.25	3
2/28/22	4	6
3/31/22	.8	1
4/30/22	.25	1
5/31/22	4.25	6
6/30/22	3.2	6
7/31/22	3.67	6
8/31/22	2.2	6
9/30/22	6.25	14
10/31/22	1	2
11/30/22	3.7	6
12/31/22	7	16
1/31/23	2	3
2/28/23	Not Received	Not Received

00530 Solids, total suspended / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	30
DMR Values	
4/30/18	1
7/31/18	2

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

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Version # 0

Outfall 0011

00530 Solids, total suspended / Location T / Season 0 / Base

DMR Values	
10/31/18	1
1/31/19	3
4/30/19	0
7/31/19	1
10/31/19	0
1/31/20	0
4/30/20	2
7/31/20	0
10/31/20	13
1/31/21	0
4/30/21	2
7/31/21	2
10/31/21	5
1/31/22	2
4/30/22	0
7/31/22	1
10/31/22	0
1/31/23	2

00530 Solids, total suspended / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	NODI=9
3/31/18	NODI=9
5/31/18	NODI=9
6/30/18	NODI=9
8/31/18	NODI=9
9/30/18	NODI=9
11/30/18	NODI=9
12/31/18	NODI=9
2/28/19	NODI=9
3/31/19	NODI=9
5/31/19	NODI=9
6/30/19	NODI=9
8/31/19	NODI=9
9/30/19	NODI=9
11/30/19	NODI=9
12/31/19	NODI=9
2/29/20	NODI=9
3/31/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00530 Solids, total suspended / Location T / Season 1 / Base

DMR Values	
9/30/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
2/28/23	Not Received

00556 Oil & Grease / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Grab Average	Weekly

Limit		
Limit Unit Desc	Milligrams per Liter	Milligrams per Liter
Statistical Base	MO AVG	DAILY MX
Limit Value	10	15
DMR Values		
2/28/18	.35	.4
3/31/18	.417	.667
4/30/18	.4	.8
5/31/18	.893	1.46
6/30/18	.55	1
7/31/18	.167	.5
8/31/18	.55	.8
9/30/18	.45	1
10/31/18	.613	.8
11/30/18	.517	.867
12/31/18	.467	.733
1/31/19	.4	.533
2/28/19	.534	1
3/31/19	.467	1.2
4/30/19	.227	.667
5/31/19	.567	.867
6/30/19	.5	1.1
7/31/19	.517	.667
8/31/19	.517	1.133

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00556 Oil & Grease / Location 1 / Season 0 / Base

DMR Values		
9/30/19	.333	.6
10/31/19	.583	1.533
11/30/19	.35	.6
12/31/19	.733	1.467
1/31/20	.6	1.467
2/29/20	.567	1.2
3/31/20	.36	.4
4/30/20	.9	1.5
5/31/20	.9	4
6/30/20	.867	1.667
7/31/20	.2	.6
8/31/20	.445	.667
9/30/20	.52	.667
10/31/20	.85	1.4
11/30/20	.734	1.267
12/31/20	.88	2.067
1/31/21	1.067	1.6
2/28/21	.284	.667
3/31/21	.253	.467
4/30/21	.267	.867
5/31/21	.734	1.6
6/30/21	.617	1.33
7/31/21	.412	.933
8/31/21	.493	.867
9/30/21	.5	.733
10/31/21	.467	.6
11/30/21	.469	.6
12/31/21	.769	1.04
1/31/22	.453	.48
2/28/22	.467	.667
3/31/22	.587	.933
4/30/22	.6	.8
5/31/22	.533	.8
6/30/22	.347	.6
7/31/22	.644	1.067
8/31/22	.451	.6
9/30/22	.633	1.067
10/31/22	.733	1.2
11/30/22	.72	1.33
12/31/22	.178	.533
1/31/23	.844	1.467
2/28/23	Not Received	Not Received

00556 Oil & Grease / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Grab Average	Quarterly

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00556 Oil & Grease / Location T / Season 0 / Base

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	15
DMR Values	
4/30/18	.2
7/31/18	.5
10/31/18	.7
1/31/19	.2
4/30/19	.7
7/31/19	.4
10/31/19	0
1/31/20	.5
4/30/20	.933
7/31/20	0
10/31/20	0
1/31/21	.4
4/30/21	0
7/31/21	0
10/31/21	.467
1/31/22	0
4/30/22	NODI=9
7/31/22	1.07
10/31/22	.04
1/31/23	.4

00556 Oil & Grease / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Grab Average	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	NODI=9
3/31/18	NODI=9
5/31/18	NODI=9
6/30/18	NODI=9
8/31/18	NODI=9
9/30/18	NODI=9
11/30/18	NODI=9
12/31/18	NODI=9
2/28/19	NODI=9
3/31/19	NODI=9
5/31/19	NODI=9
6/30/19	NODI=9
8/31/19	NODI=9
9/30/19	NODI=9

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00556 Oil & Grease / Location T / Season 1 / Base

DMR Values	
11/30/19	NODI=9
12/31/19	NODI=9
2/29/20	NODI=9
3/31/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
2/28/23	Not Received

00600 Nitrogen, total [as N] / Location 1 / Season 0 / Permit Modification

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
8/1/09	12/31/12	Composite	Weekly

Limit	
Limit Unit Desc	Kilograms per Day
Statistical Base	MO AVG
Limit Value	17.7
DMR Values	
2/28/18	8.95
3/31/18	9.1
4/30/18	6.53
5/31/18	6.34
6/30/18	9.49
7/31/18	10.87
8/31/18	7.74
9/30/18	9.55
10/31/18	7.38
11/30/18	8.57
12/31/18	8.714
1/31/19	5.96

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00600 Nitrogen, total [as N] / Location 1 / Season 0 / Permit Modification

DMR Values	
2/28/19	6.41
3/31/19	10.89
4/30/19	9.47
5/31/19	8.69
6/30/19	8.97
7/31/19	15.13
8/31/19	14.41
9/30/19	10.2
10/31/19	6.75
11/30/19	10.87
12/31/19	10.29
1/31/20	6.73
2/29/20	6.39
3/31/20	6.79
4/30/20	3.59
5/31/20	6.15
6/30/20	4.75
7/31/20	8.128
8/31/20	6.49
9/30/20	7.44
10/31/20	7.498
11/30/20	5.832
12/31/20	8.672
1/31/21	9.423
2/28/21	6.654
3/31/21	5.798
4/30/21	6.182
5/31/21	7.115
6/30/21	7.922
7/31/21	8.832
8/31/21	8.139
9/30/21	8.771
10/31/21	5.795
11/30/21	5.98
12/31/21	6.949
1/31/22	7.753
2/28/22	6.47
3/31/22	6.07
4/30/22	7.302
5/31/22	8.044
6/30/22	11.58
7/31/22	16.1
8/31/22	11.6
9/30/22	5.258
10/31/22	2.29
11/30/22	2.89
12/31/22	3.857
1/31/23	2.2
2/28/23	Not Received

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00610 Nitrogen, ammonia total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Weekly

Limit		
Limit Unit Desc	Milligrams per Liter	Milligrams per Liter
Statistical Base	MO AVG	DAILY MX
Limit Value	10	20
DMR Values		
2/28/18	4	7.4
3/31/18	3.8	6
4/30/18	2.7	3.4
5/31/18	3.5	5
6/30/18	5.2	8.6
7/31/18	4.5	7
8/31/18	3.5	5.1
9/30/18	3.7	6.1
10/31/18	3.3	4.5
11/30/18	5.3	9.7
12/31/18	4.425	6
1/31/19	4.4	6.7
2/28/19	3.3	4.2
3/31/19	3.3	4.3
4/30/19	3.2	3.9
5/31/19	3.7	5.5
6/30/19	3.5	4.7
7/31/19	3	3.5
8/31/19	2.5	3.6
9/30/19	4.3	9
10/31/19	3.3	4.3
11/30/19	3.6	5.5
12/31/19	4.9	7
1/31/20	3.2	7.7
2/29/20	2.9	3.8
3/31/20	2.3	4.2
4/30/20	2.2	4.3
5/31/20	4.4	5.8
6/30/20	4.775	6.5
7/31/20	5.95	12
8/31/20	5.7	7.1
9/30/20	5	7
10/31/20	4.575	7.8
11/30/20	3.625	3.9
12/31/20	3.56	4.4
1/31/21	4.5	6.4
2/28/21	4.1	6
3/31/21	3.5	6.5
4/30/21	3	5.5
5/31/21	6.275	9.4
6/30/21	5.975	8.5
7/31/21	4.125	5.5
8/31/21	4.5	5

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00610 Nitrogen, ammonia total [as N] / Location 1 / Season 0 / Base

DMR Values		
9/30/21	5.275	7
10/31/21	6.175	8.8
11/30/21	4.1	6
12/31/21	3.367	4.9
1/31/22	5.65	9.9
2/28/22	3.8	6.6
3/31/22	3.74	5
4/30/22	3.3	3.9
5/31/22	3.05	4
6/30/22	3.78	6.8
7/31/22	4.53	6.5
8/31/22	4.37	8.4
9/30/22	2.78	4.8
10/31/22	2.7	4.2
11/30/22	5.28	8.8
12/31/22	2.76	4.5
1/31/23	2.4	4.8
2/28/23	Not Received	Not Received

00610 Nitrogen, ammonia total [as N] / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	20
DMR Values	
4/30/18	3.4
7/31/18	7
10/31/18	3.1
1/31/19	4.5
4/30/19	3.2
7/31/19	2.6
10/31/19	3.3
1/31/20	1.6
4/30/20	1.3
7/31/20	12
10/31/20	3.8
1/31/21	6
4/30/21	5.5
7/31/21	0
10/31/21	5.1
1/31/22	4.2
4/30/22	2.3
7/31/22	2.4
10/31/22	2.7
1/31/23	1.55

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00610 Nitrogen, ammonia total [as N] / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	NODI=9
3/31/18	NODI=9
5/31/18	NODI=9
6/30/18	NODI=9
8/31/18	NODI=9
9/30/18	NODI=9
11/30/18	NODI=9
12/31/18	NODI=9
2/28/19	NODI=9
3/31/19	NODI=9
5/31/19	NODI=9
6/30/19	NODI=9
8/31/19	NODI=9
9/30/19	9
11/30/19	NODI=9
12/31/19	NODI=9
2/29/20	NODI=9
3/31/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
2/28/23	Not Received

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00615 Nitrogen, nitrite total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Weekly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	0
3/31/18	0
4/30/18	0
5/31/18	0
6/30/18	0
7/31/18	.11
8/31/18	0
9/30/18	0
10/31/18	0
11/30/18	0
12/31/18	0
1/31/19	0
2/28/19	0
3/31/19	0
4/30/19	0
5/31/19	.1
6/30/19	0
7/31/19	.1
8/31/19	0
9/30/19	0
10/31/19	0
11/30/19	0
12/31/19	0
1/31/20	0
2/29/20	0
3/31/20	.1
4/30/20	.1
5/31/20	.22
6/30/20	.13
7/31/20	.18
8/31/20	0
9/30/20	0
10/31/20	0
11/30/20	0
12/31/20	.24
1/31/21	.22
2/28/21	0
3/31/21	0
4/30/21	0
5/31/21	.13
6/30/21	0
7/31/21	.37
8/31/21	.2

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00615 Nitrogen, nitrite total [as N] / Location 1 / Season 0 / Base

DMR Values	
9/30/21	.28
10/31/21	.6
11/30/21	.17
12/31/21	.1
1/31/22	.12
2/28/22	0
3/31/22	.1
4/30/22	0
5/31/22	.1
6/30/22	0
7/31/22	0
8/31/22	.19
9/30/22	.12
10/31/22	.12
11/30/22	0
12/31/22	0
1/31/23	.16
2/28/23	Not Received

00615 Nitrogen, nitrite total [as N] / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
7/1/11	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
4/30/18	0
7/31/18	0
10/31/18	0
1/31/19	0
4/30/19	0
7/31/19	.1
10/31/19	0
1/31/20	0
4/30/20	0
7/31/20	.18
10/31/20	0
1/31/21	0
4/30/21	0
7/31/21	.1
10/31/21	.1
1/31/22	0
4/30/22	0
7/31/22	0
10/31/22	0
1/31/23	0

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00615 Nitrogen, nitrite total [as N] / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
7/1/11	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	NODI=9
3/31/18	NODI=9
5/31/18	NODI=9
6/30/18	NODI=9
8/31/18	NODI=9
9/30/18	NODI=9
11/30/18	NODI=9
12/31/18	NODI=9
2/28/19	NODI=9
3/31/19	NODI=9
5/31/19	NODI=9
6/30/19	NODI=9
8/31/19	NODI=9
9/30/19	NODI=9
11/30/19	NODI=9
12/31/19	NODI=9
2/29/20	NODI=9
3/31/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
2/28/23	Not Received

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00620 Nitrogen, nitrate total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Weekly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	14.19
3/31/18	8.86
4/30/18	9.39
5/31/18	6.54
6/30/18	19.94
7/31/18	17.64
8/31/18	13.21
9/30/18	14.96
10/31/18	10.19
11/30/18	7.76
12/31/18	17.69
1/31/19	8.26
2/28/19	6.5
3/31/19	33.89
4/30/19	28.27
5/31/19	15.16
6/30/19	10.46
7/31/19	25.44
8/31/19	52.57
9/30/19	16.46
10/31/19	11.79
11/30/19	26.07
12/31/19	19.19
1/31/20	24.42
2/29/20	11.48
3/31/20	18.35
4/30/20	11.53
5/31/20	32.03
6/30/20	9.79
7/31/20	19.94
8/31/20	11.13
9/30/20	9.02
10/31/20	11.07
11/30/20	6.44
12/31/20	29.58
1/31/21	24.59
2/28/21	11.14
3/31/21	10.48
4/30/21	9.7
5/31/21	10.07
6/30/21	11.56
7/31/21	12.77
8/31/21	11.97

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00620 Nitrogen, nitrate total [as N] / Location 1 / Season 0 / Base

DMR Values	
9/30/21	19.09
10/31/21	8.09
11/30/21	27.9
12/31/21	10.17
1/31/22	11.32
2/28/22	10.65
3/31/22	5.48
4/30/22	5.66
5/31/22	7.04
6/30/22	6.84
7/31/22	8.42
8/31/22	7.93
9/30/22	3.26
10/31/22	5.43
11/30/22	9.45
12/31/22	18.4
1/31/23	5
2/28/23	Not Received

00620 Nitrogen, nitrate total [as N] / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
4/30/18	2.01
7/31/18	3.29
10/31/18	1.04
1/31/19	3.16
4/30/19	8.38
7/31/19	4.44
10/31/19	7.9
1/31/20	3.27
4/30/20	11.53
7/31/20	9.81
10/31/20	2.39
1/31/21	4.66
4/30/21	9.7
7/31/21	9.79
10/31/21	4.76
1/31/22	11.32
4/30/22	4.87
7/31/22	5.88
10/31/22	1.49
1/31/23	3.5

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00620 Nitrogen, nitrate total [as N] / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	NODI=9
3/31/18	NODI=9
5/31/18	NODI=9
6/30/18	NODI=9
8/31/18	NODI=9
9/30/18	NODI=9
11/30/18	NODI=9
12/31/18	NODI=9
2/28/19	NODI=9
3/31/19	NODI=9
5/31/19	NODI=9
6/30/19	NODI=9
8/31/19	NODI=9
9/30/19	NODI=9
11/30/19	NODI=9
12/31/19	NODI=9
2/29/20	NODI=9
3/31/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
2/28/23	Not Received

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00625 Nitrogen, Kjeldahl, total [as N] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Weekly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	15.8
3/31/18	17.8
4/30/18	8
5/31/18	10.8
6/30/18	15.8
7/31/18	13.6
8/31/18	11
9/30/18	12.2
10/31/18	11.6
11/30/18	24
12/31/18	14
1/31/19	12.8
2/28/19	10
3/31/19	14
4/30/19	10.8
5/31/19	12
6/30/19	10
7/31/19	9
8/31/19	6.6
9/30/19	11.4
10/31/19	7.8
11/30/19	7.4
12/31/19	9
1/31/20	10.2
2/29/20	11
3/31/20	8.8
4/30/20	8.2
5/31/20	11
6/30/20	16.6
7/31/20	17.8
8/31/20	13
9/30/20	19
10/31/20	12.8
11/30/20	11.8
12/31/20	13.4
1/31/21	15.8
2/28/21	13
3/31/21	10.2
4/30/21	11.8
5/31/21	17.6
6/30/21	15
7/31/21	15.8
8/31/21	26

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00625 Nitrogen, Kjeldahl, total [as N] / Location 1 / Season 0 / Base

DMR Values	
9/30/21	23
10/31/21	19.8
11/30/21	17
12/31/21	13.6
1/31/22	19.8
2/28/22	16
3/31/22	15
4/30/22	15
5/31/22	19.6
6/30/22	40
7/31/22	44
8/31/22	38
9/30/22	34
10/31/22	6.2
11/30/22	14.4
12/31/22	18.2
1/31/23	8.8
2/28/23	Not Received

00625 Nitrogen, Kjeldahl, total [as N] / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
4/30/18	8
7/31/18	13.6
10/31/18	6.8
1/31/19	12.8
4/30/19	4
7/31/19	9
10/31/19	7
1/31/20	6.2
4/30/20	8.2
7/31/20	17.8
10/31/20	11.8
1/31/21	14.8
4/30/21	11.6
7/31/21	6.8
10/31/21	10
1/31/22	12
4/30/22	12.8
7/31/22	44
10/31/22	3.5
1/31/23	6.2

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00625 Nitrogen, Kjeldahl, total [as N] / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	NODI=9
3/31/18	NODI=9
5/31/18	NODI=9
6/30/18	NODI=9
8/31/18	NODI=9
9/30/18	NODI=9
11/30/18	NODI=9
12/31/18	NODI=9
2/28/19	NODI=9
3/31/19	NODI=9
5/31/19	NODI=9
6/30/19	NODI=9
8/31/19	NODI=9
9/30/19	NODI=9
11/30/19	NODI=9
12/31/19	NODI=9
2/29/20	NODI=9
3/31/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
11/30/22	NODI=9
12/31/22	Not Received
2/28/23	Not Received

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00720 Cyanide, total [as CN] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Grab Average	Weekly

Limit				
Limit Unit Desc	Kilograms per Day	Kilograms per Day	Milligrams per Liter	Milligrams per Liter
Statistical Base	MO AVG	DAILY MX	MO AVG	DAILY MX
Limit Value	.193	.386	.22	.4
DMR Values				
2/28/18	.005	.006	.01	.01
3/31/18	.005	.006	0	0
4/30/18	.005	.006	0	0
5/31/18	.006	.007	0	0
6/30/18	.014	.042	.026	.09
7/31/18	.006	.01	.013	.02
8/31/18	.004	.006	.007	.01
9/30/18	.005	.008	.004	.01
10/31/18	.003	.007	.003	.013
11/30/18	.002	.002	0	0
12/31/18	.005	.007	.005	.015
1/31/19	.013	.026	.023	.053
2/28/19	.01	.027	.019	.073
3/31/19	.004	.005	.001	.004
4/30/19	.006	.007	.003	.013
5/31/19	.004	.005	0	0
6/30/19	.004	.005	.001	.003
7/31/19	.007	.011	.012	.018
8/31/19	.017	.047	.031	.084
9/30/19	.004	.006	.007	.01
10/31/19	.004	.008	.006	.015
11/30/19	.03	.045	.063	.1
12/31/19	.003	.004	.004	.008
1/31/20	.003	.004	.002	.005
2/29/20	.009	.013	.02	.032
3/31/20	.004	.008	.005	.025
4/30/20	.006	.009	.017	.036
5/31/20	.0014	.0097	.0043	.03
6/30/20	.003	.008	.01	.024
7/31/20	.001	.001	.002	.005
8/31/20	.02	.061	.05	.151
9/30/20	.001	.004	.002	.01
10/31/20	.003	.009	.006	.02
11/30/20	.002	.007	.005	.018
12/31/20	.002	.006	.005	.017
1/31/21	0	0	0	0
2/28/21	.005	.0103	.013	.028
3/31/21	.015	.0622	.046	.19
4/30/21	.014	.0402	.038	.11
5/31/21	.009	.022	.009	.29
6/30/21	.001	.003	.004	.007
7/31/21	.001	.0025	.003	.006
8/31/21	.002	.01	.005	.025

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00720 Cyanide, total [as CN] / Location 1 / Season 0 / Base

DMR Values				
9/30/21	0	0	0	0
10/31/21	.003	.007	.009	.028
11/30/21	.001	.003	.004	.0088
12/31/21	.003	.0043	.007	.0107
1/31/22	.004	.006	.01	.018
2/28/22	.001	.0031	.004	.009
3/31/22	.006	.0135	.015	.0383
4/30/22	0	.0019	.001	.0047
5/31/22	.002	.0052	.006	.0132
6/30/22	.005	.0071	.013	.017
7/31/22	.004	.0046	.01	.0115
8/31/22	.005	.0104	.015	.0318
9/30/22	.011	.033	.041	.129
10/31/22	.012	.0217	.046	.0727
11/30/22	.005	.0207	.028	.095
12/31/22	.003	.0071	.015	.033
1/31/23	.003	.044	.017	.149
2/28/23	Not Received	Not Received	Not Received	Not Received

00720 Cyanide, total [as CN] / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	.4
DMR Values	
4/30/18	0
7/31/18	.01
10/31/18	.003
1/31/19	0
4/30/19	0
7/31/19	.003
10/31/19	.015
1/31/20	.005
4/30/20	.036
7/31/20	0
10/31/20	0
1/31/21	0
4/30/21	0
7/31/21	0
10/31/21	0
1/31/22	NODI=9
4/30/22	0
7/31/22	.0055
10/31/22	.025
1/31/23	.013

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00720 Cyanide, total [as CN] / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Grab Average	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	NODI=9
3/31/18	NODI=9
5/31/18	NODI=9
6/30/18	NODI=9
8/31/18	NODI=9
9/30/18	NODI=9
11/30/18	NODI=9
12/31/18	NODI=9
2/28/19	NODI=9
3/31/19	NODI=9
5/31/19	NODI=9
6/30/19	NODI=9
8/31/19	NODI=9
9/30/19	NODI=9
11/30/19	NODI=9
12/31/19	NODI=9
2/29/20	NODI=9
3/31/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
2/28/23	Not Received

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00722 Cyanide, free [amenable to chlorination] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Grab Average	Weekly

Limit		
Limit Unit Desc	Milligrams per Liter	Milligrams per Liter
Statistical Base	MO AVG	DAILY MX
Limit Value	.1	.2
DMR Values		
2/28/18	0	0
3/31/18	0	0
4/30/18	0	0
5/31/18	0	0
6/30/18	.005	.02
7/31/18	0	0
8/31/18	.001	.003
9/30/18	.004	.01
10/31/18	.002	.01
11/30/18	0	0
12/31/18	.001	.005
1/31/19	.009	.02
2/28/19	.009	.035
3/31/19	.001	.002
4/30/19	.001	.005
5/31/19	0	0
6/30/19	0	0
7/31/19	.004	.01
8/31/19	.012	.036
9/30/19	0	0
10/31/19	.003	.01
11/30/19	.023	.037
12/31/19	.001	.003
1/31/20	0	0
2/29/20	.008	.012
3/31/20	.0004	.002
4/30/20	.004	.01
5/31/20	.002	.018
6/30/20	.004	.01
7/31/20	0	0
8/31/20	.023	.07
9/30/20	0	0
10/31/20	0	0
11/30/20	0	0
12/31/20	0	0
1/31/21	0	0
2/28/21	.005	.014
3/31/21	.015	.075
4/30/21	.01	.03
5/31/21	.074	.107
6/30/21	0	0
7/31/21	0	0
8/31/21	.002	.01

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00722 Cyanide, free [amenable to chlorination] / Location 1 / Season 0 / Base

DMR Values		
9/30/21	0	0
10/31/21	.003	.007
11/30/21	0	0
12/31/21	.001	.002
1/31/22	.002	.004
2/28/22	.001	.0037
3/31/22	.007	.017
4/30/22	0	0
5/31/22	.003	.007
6/30/22	.005	.008
7/31/22	.001	.004
8/31/22	.005	.011
9/30/22	.018	.057
10/31/22	.017	.035
11/30/22	.011	.0357
12/31/22	.006	.014
1/31/23	.004	.017
2/28/23	Not Received	Not Received

00722 Cyanide, free [amenable to chlorination] / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Grab Average	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	.2
DMR Values	
4/30/18	0
7/31/18	0
10/31/18	0
1/31/19	0
4/30/19	0
7/31/19	0
10/31/19	.01
1/31/20	0
4/30/20	.01
7/31/20	0
10/31/20	0
1/31/21	0
4/30/21	0
7/31/21	0
10/31/21	0
1/31/22	0
4/30/22	0
7/31/22	0
10/31/22	0
1/31/23	0

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00722 Cyanide, free [amenable to chlorination] / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Grab Average	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	NODI=9
3/31/18	NODI=9
5/31/18	NODI=9
6/30/18	NODI=9
8/31/18	NODI=9
9/30/18	NODI=9
11/30/18	NODI=9
12/31/18	NODI=9
2/28/19	NODI=9
3/31/19	NODI=9
5/31/19	NODI=9
6/30/19	NODI=9
8/31/19	NODI=9
9/30/19	NODI=9
11/30/19	NODI=9
12/31/19	NODI=9
2/29/20	NODI=9
3/31/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
2/28/23	Not Received

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00951 Fluoride, total [as F] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Weekly

Limit		
Limit Unit Desc	Milligrams per Liter	Milligrams per Liter
Statistical Base	MO AVG	DAILY MX
Limit Value	20	30
DMR Values		
2/28/18	1.86	3.3
3/31/18	2.35	2.9
4/30/18	2.44	5.35
5/31/18	2.58	3.4
6/30/18	1.97	2.74
7/31/18	5.41	7.25
8/31/18	2.03	2.6
9/30/18	3.47	4.56
10/31/18	2.56	3.66
11/30/18	2.01	4.2
12/31/18	2.445	3.46
1/31/19	7.7	25.2
2/28/19	3.25	3.74
3/31/19	4.13	9.44
4/30/19	4.07	10.4
5/31/19	1.01	1.42
6/30/19	4.2	5.4
7/31/19	3.89	8.62
8/31/19	4.53	7.02
9/30/19	2.83	5.35
10/31/19	1.93	2.68
11/30/19	5.55	8
12/31/19	4	4.6
1/31/20	3.26	5.2
2/29/20	4.6	7.42
3/31/20	4.68	6.06
4/30/20	3.18	3.74
5/31/20	3.48	5.25
6/30/20	2.1	3.26
7/31/20	2.08	3.26
8/31/20	1.747	2.32
9/30/20	1.764	3.8
10/31/20	1.41	1.9
11/30/20	2.28	3.04
12/31/20	1.976	3.04
1/31/21	2.82	5
2/28/21	1.515	2.1
3/31/21	2.476	6.4
4/30/21	1.35	1.72
5/31/21	1.795	2.8
6/30/21	2.713	5.03
7/31/21	1.3	1.78
8/31/21	1.988	2.64

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00951 Fluoride, total [as F] / Location 1 / Season 0 / Base

DMR Values		
9/30/21	2.32	3.74
10/31/21	1.39	1.48
11/30/21	2.146	4.67
12/31/21	1.727	1.76
1/31/22	3.655	4.6
2/28/22	1.865	2.65
3/31/22	1.688	2.46
4/30/22	1.75	3.26
5/31/22	1.98	2.82
6/30/22	1.312	1.92
7/31/22	.917	1.1
8/31/22	1.77	3.52
9/30/22	2.52	4.8
10/31/22	1.865	2.96
11/30/22	5.56	8.8
12/31/22	10.05	10.9
1/31/23	5.4	7.5
2/28/23	Not Received	Not Received

00951 Fluoride, total [as F] / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	30
DMR Values	
4/30/18	5.35
7/31/18	7.25
10/31/18	3.66
1/31/19	25.2
4/30/19	1.7
7/31/19	2.3
10/31/19	1.24
1/31/20	2.1
4/30/20	3.74
7/31/20	3.26
10/31/20	1.4
1/31/21	.005
4/30/21	1.72
7/31/21	1.06
10/31/21	1.32
1/31/22	2.86
4/30/22	1.1
7/31/22	.71
10/31/22	1.84
1/31/23	7.5

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

00951 Fluoride, total [as F] / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	NODI=9
3/31/18	NODI=9
5/31/18	NODI=9
6/30/18	NODI=9
8/31/18	NODI=9
9/30/18	NODI=9
11/30/18	NODI=9
12/31/18	NODI=9
2/28/19	NODI=9
3/31/19	NODI=9
5/31/19	NODI=9
6/30/19	NODI=9
8/31/19	NODI=9
9/30/19	NODI=9
11/30/19	NODI=9
12/31/19	NODI=9
2/29/20	NODI=9
3/31/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
2/28/23	Not Received

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

01027 Cadmium, total [as Cd] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Twice per Year

Limit				
Limit Unit Desc	Kilograms per Day	Kilograms per Day	Milligrams per Liter	Milligrams per Liter
Statistical Base	MO AVG	DAILY MX	MO AVG	DAILY MX
Limit Value	.023	.046	.1	.5
DMR Values				
7/31/18	.0002	.0002	0	0
1/31/19	.0023	.0023	0	0
7/31/19	.0002	.0002	0	0
1/31/20	.0001	.0001	0	0
7/31/20	0	0	0	0
1/31/21	0	0	0	0
7/31/21	0	0	0	0
1/31/22	0	0	0	0
7/31/22	0	0	0	0
1/31/23	0	0	0	0

01027 Cadmium, total [as Cd] / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	.5
DMR Values	
7/31/18	0
1/31/19	0
7/31/19	0
1/31/20	0
7/31/20	0
1/31/21	0
7/31/21	0
1/31/22	0
7/31/22	0
1/31/23	0

01027 Cadmium, total [as Cd] / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Twice per Year

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

01027 Cadmium, total [as Cd] / Location T / Season 1 / Base

DMR Values	
2/28/18	NODI=9
3/31/18	NODI=9
4/30/18	NODI=9
5/31/18	NODI=9
6/30/18	NODI=9
8/31/18	NODI=9
9/30/18	NODI=9
10/31/18	NODI=9
11/30/18	NODI=9
12/31/18	NODI=9
2/28/19	NODI=9
3/31/19	NODI=9
4/30/19	NODI=9
5/31/19	NODI=9
6/30/19	NODI=9
8/31/19	NODI=9
9/30/19	NODI=9
10/31/19	NODI=9
11/30/19	NODI=9
12/31/19	NODI=9
2/29/20	NODI=9
3/31/20	NODI=9
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
10/31/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
4/30/22	Not Received
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	0
9/30/22	NODI=9
10/31/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

01027 Cadmium, total [as Cd] / Location T / Season 1 / Base

DMR Values	
2/28/23	Not Received

01034 Chromium, total [as Cr] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Twice per Year

Limit		
Limit Unit Desc	Milligrams per Liter	Milligrams per Liter
Statistical Base	MO AVG	DAILY MX
Limit Value	1	2
DMR Values		
7/31/18	0	0
1/31/19	.003	.007
7/31/19	.005	.014
1/31/20	.003	.011
7/31/20	.021	.076
1/31/21	.004	.005
7/31/21	0	0
1/31/22	.008	.017
7/31/22	.009	.015
1/31/23	.032	.066

01034 Chromium, total [as Cr] / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Twice per Year

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	2
DMR Values	
7/31/18	0
1/31/19	0
7/31/19	.005
1/31/20	0
7/31/20	.076
1/31/21	.005
7/31/21	0
1/31/22	.008
7/31/22	0
1/31/23	.012

01034 Chromium, total [as Cr] / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Twice per Year

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

01034 Chromium, total [as Cr] / Location T / Season 1 / Base

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	.01
3/31/18	.007
4/30/18	0
5/31/18	.005
6/30/18	0
8/31/18	.005
9/30/18	0
10/31/18	.009
11/30/18	.002
12/31/18	.006
2/28/19	.007
3/31/19	.005
4/30/19	.005
5/31/19	0
6/30/19	0
8/31/19	0
9/30/19	0
10/31/19	.01
11/30/19	.006
12/31/19	.005
2/29/20	.005
3/31/20	0
4/30/20	.008
5/31/20	.005
6/30/20	0
8/31/20	.005
9/30/20	.028
10/31/20	0
11/30/20	NODI=9
12/31/20	.01
2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
8/31/21	.061
9/30/21	.148
10/31/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
2/28/22	.012
3/31/22	NODI=9
4/30/22	Not Received
5/31/22	NODI=9
6/30/22	.034

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

01034 Chromium, total [as Cr] / Location T / Season 1 / Base

DMR Values	
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	.009
11/30/22	.009
12/31/22	.014
2/28/23	Not Received

01042 Copper, total [as Cu] / Location 1 / Season 0 / Permit Modification

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
7/1/11	12/31/12	Composite	Weekly

Limit				
Limit Unit Desc	Kilograms per Day	Kilograms per Day	Milligrams per Liter	Milligrams per Liter
Statistical Base	MO AVG	DAILY MX	MO AVG	DAILY MX
Limit Value	.228	.457	.474	.876
DMR Values				
2/28/18	.06	.092	.099	.144
3/31/18	.055	.077	.1	.157
4/30/18	.05	.08	.09	.119
5/31/18	.059	.078	.1	.138
6/30/18	.038	.0514	.072	.091
7/31/18	.038	.0727	.074	.143
8/31/18	.037	.044	.069	.084
9/30/18	.041	.0449	.068	.078
10/31/18	.053	.0868	.101	.153
11/30/18	.031	.0382	.07	.078
12/31/18	.0315	.0373	.063	.077
1/31/19	.033	.0415	.071	.095
2/28/19	.044	.0713	.086	.119
3/31/19	.042	.0479	.086	.102
4/30/19	.045	.072	.08	.117
5/31/19	.03	.0363	.066	.094
6/30/19	.04	.0526	.075	.093
7/31/19	.041	.0544	.073	.1
8/31/19	.044	.0624	.078	.11
9/30/19	.061	.1042	.101	.166
10/31/19	.042	.0567	.096	.105
11/30/19	.036	.0546	.076	.112
12/31/19	.057	.0761	.129	.168
1/31/20	.043	.0549	.104	.132
2/29/20	.042	.059	.101	.131
3/31/20	.047	.0605	.125	.184
4/30/20	.055	.0933	.1607	.21
5/31/20	.045	.074	.1298	.198
6/30/20	.0193	.0211	.066	.079
7/31/20	.021	.028	.062	.079
8/31/20	.0327	.0428	.079	.106
9/30/20	.0248	.0303	.063	.073
10/31/20	.0272	.049	.07	.137

DMR Summary

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01042 Copper, total [as Cu] / Location 1 / Season 0 / Permit Modification

DMR Values				
11/30/20	.0247	.0404	.068	.109
12/31/20	.032	.0461	.105	.142
1/31/21	.0485	.0537	.145	.158
2/28/21	.0431	.0672	.114	.163
3/31/21	.0311	.034	.086	.107
4/30/21	.031	.0358	.078	.098
5/31/21	.0297	.0343	.082	.101
6/30/21	.042	.0531	.107	.139
7/31/21	.0312	.0371	.078	.086
8/31/21	.033	.0593	.099	.148
9/30/21	.029	.0463	.095	.136
10/31/21	.019	.0353	.07	.114
11/30/21	.027	.0376	.082	.12
12/31/21	.013	.0189	.035	.046
1/31/22	.026	.0438	.091	.16
2/28/22	.026	.034	.08	.1
3/31/22	.033	.0432	.08	.12
4/30/22	.019	.0254	.042	.064
5/31/22	.016	.0212	.044	.054
6/30/22	.031	.0456	.069	.1
7/31/22	.014	.018	.035	.046
8/31/22	.022	.041	.064	.113
9/30/22	.013	.0185	.048	.072
10/31/22	.023	.0434	.088	.157
11/30/22	.016	.023	.093	.136
12/31/22	.011	.0129	.045	.06
1/31/23	.007	.087	.037	.298
2/28/23	Not Received	Not Received	Not Received	Not Received

01042 Copper, total [as Cu] / Location T / Season 0 / Permit Modification

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
7/1/11	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	.876
DMR Values	
4/30/18	.066
7/31/18	.063
10/31/18	.112
1/31/19	.072
4/30/19	.1
7/31/19	.044
10/31/19	.105
1/31/20	.098
4/30/20	.144
7/31/20	.062
10/31/20	.137

DMR Summary

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01042 Copper, total [as Cu] / Location T / Season 0 / Permit Modification

DMR Values	
1/31/21	.138
4/30/21	.072
7/31/21	.086
10/31/21	.047
1/31/22	.06
4/30/22	.057
7/31/22	.035
10/31/22	.043
1/31/23	.029

01042 Copper, total [as Cu] / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	NODI=9
3/31/18	NODI=9
5/31/18	NODI=9
6/30/18	NODI=9
8/31/18	NODI=9
9/30/18	NODI=9
11/30/18	NODI=9
12/31/18	NODI=9
2/28/19	NODI=9
3/31/19	NODI=9
5/31/19	NODI=9
6/30/19	NODI=9
8/31/19	NODI=9
9/30/19	NODI=9
11/30/19	NODI=9
12/31/19	NODI=9
2/29/20	NODI=9
3/31/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9

DMR Summary

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Outfall 0011

01042 Copper, total [as Cu] / Location T / Season 1 / Base

DMR Values	
11/30/21	NODI=9
12/31/21	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
2/28/23	Not Received

01045 Iron, total [as Fe] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Weekly

Limit		
Limit Unit Desc	Milligrams per Liter	Milligrams per Liter
Statistical Base	MO AVG	DAILY MX
Limit Value	3	5
DMR Values		
2/28/18	.047	.09
3/31/18	.035	.06
4/30/18	.04	.05
5/31/18	.032	.05
6/30/18	.02	.05
7/31/18	.038	.04
8/31/18	.093	.22
9/30/18	.045	.07
10/31/18	.056	.07
11/30/18	.03	.04
12/31/18	.038	.04
1/31/19	.026	.04
2/28/19	.035	.04
3/31/19	.045	.05
4/30/19	.052	.08
5/31/19	.04	.06
6/30/19	.048	.07
7/31/19	.048	.08
8/31/19	.048	.12
9/30/19	.053	.06
10/31/19	.052	.06
11/30/19	.038	.04
12/31/19	.043	.06
1/31/20	.053	.1
2/29/20	.045	.06
3/31/20	.032	.04
4/30/20	.045	.05
5/31/20	.03	.04

DMR Summary

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01045 Iron, total [as Fe] / Location 1 / Season 0 / Base

DMR Values		
6/30/20	.045	.09
7/31/20	.05	.08
8/31/20	.033	.04
9/30/20	.08	.16
10/31/20	.04	.05
11/30/20	.02	.03
12/31/20	.032	.04
1/31/21	.025	.05
2/28/21	.028	.05
3/31/21	.034	.07
4/30/21	.03	.05
5/31/21	.028	.03
6/30/21	.033	.05
7/31/21	.055	.07
8/31/21	.032	.07
9/30/21	.04	.05
10/31/21	.078	.12
11/30/21	.096	.25
12/31/21	.023	.03
1/31/22	.043	.06
2/28/22	.055	.07
3/31/22	.034	.06
4/30/22	.038	.05
5/31/22	.006	.02
6/30/22	.018	.04
7/31/22	.027	.03
8/31/22	.022	.04
9/30/22	.033	.04
10/31/22	.033	.04
11/30/22	.07	.22
12/31/22	.017	.03
1/31/23	.046	.09
2/28/23	Not Received	Not Received

01045 Iron, total [as Fe] / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	5
DMR Values	
4/30/18	.04
7/31/18	.03
10/31/18	.06
1/31/19	.03
4/30/19	.08
7/31/19	.04

DMR Summary

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01045 Iron, total [as Fe] / Location T / Season 0 / Base

DMR Values	
10/31/19	.04
1/31/20	.04
4/30/20	.05
7/31/20	.08
10/31/20	.02
1/31/21	.05
4/30/21	.039
7/31/21	.049
10/31/21	.02
1/31/22	.06
4/30/22	.04
7/31/22	.03
10/31/22	.027
1/31/23	.033

01045 Iron, total [as Fe] / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	NODI=9
3/31/18	NODI=9
5/31/18	NODI=9
6/30/18	NODI=9
8/31/18	NODI=9
9/30/18	NODI=9
11/30/18	NODI=9
12/31/18	NODI=9
2/28/19	NODI=9
3/31/19	NODI=9
5/31/19	NODI=9
6/30/19	NODI=9
8/31/19	NODI=9
9/30/19	NODI=9
11/30/19	NODI=9
12/31/19	NODI=9
2/29/20	NODI=9
3/31/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
2/28/21	NODI=9

DMR Summary

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Outfall 0011

01045 Iron, total [as Fe] / Location T / Season 1 / Base

DMR Values	
3/31/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
2/28/23	Not Received

01051 Lead, total [as Pb] / Location 1 / Season 0 / Permit Modification

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
7/1/11	12/31/12	Composite	Weekly

Limit				
Limit Unit Desc	Kilograms per Day	Kilograms per Day	Milligrams per Liter	Milligrams per Liter
Statistical Base	MO AVG	DAILY MX	MO AVG	DAILY MX
Limit Value	.007	.013	.016	.048
DMR Values				
2/28/18	.005	.011	.009	.022
3/31/18	.003	.0031	0	0
4/30/18	.003	.005	.002	.008
5/31/18	.003	.0037	0	0
6/30/18	.003	.0045	.006	.009
7/31/18	.0033	.0045	.007	.009
8/31/18	.0027	.0032	0	0
9/30/18	.0039	.0053	.007	.01
10/31/18	.0025	.0028	0	0
11/30/18	.0023	.0031	.002	.006
12/31/18	.0025	.0026	0	0
1/31/19	.003	.0034	.005	.007
2/28/19	.002	.0029	0	0
3/31/19	.003	.0036	.002	.007
4/30/19	.003	.003	.005	.005
5/31/19	.0025	.003	.006	.007
6/30/19	.0027	.0028	0	0
7/31/19	.0027	.003	0	0
8/31/19	.0027	.0028	0	0
9/30/19	.0025	.003	0	0
10/31/19	.0026	.0029	.005	.006
11/30/19	.0023	.0025	0	0
12/31/19	.0022	.0024	0	0

DMR Summary

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01051 Lead, total [as Pb] / Location 1 / Season 0 / Permit Modification

DMR Values				
1/31/20	.002	.00232	0	0
2/29/20	.002	.0022	0	0
3/31/20	.0019	.0024	0	0
4/30/20	.002	.0022	0	0
5/31/20	0	0	0	0
6/30/20	0	0	0	0
7/31/20	0	0	0	0
8/31/20	0	0	0	0
9/30/20	0	0	0	0
10/31/20	.0014	.0055	.003	.012
11/30/20	.006	.0079	.016	.02
12/31/20	.0013	.0026	.004	.008
1/31/21	.0005	.0019	.001	.005
2/28/21	0	0	0	0
3/31/21	0	0	0	0
4/30/21	0	0	0	0
5/31/21	0	0	0	0
6/30/21	0	0	0	0
7/31/21	0	0	0	0
8/31/21	0	0	0	0
9/30/21	0	.0014	.001	.005
10/31/21	0	0	0	0
11/30/21	0	0	0	0
12/31/21	0	0	0	0
1/31/22	0	0	0	0
2/28/22	0	0	0	0
3/31/22	0	0	0	0
4/30/22	0	0	0	0
5/31/22	0	0	0	0
6/30/22	0	0	0	0
7/31/22	0	0	0	0
8/31/22	0	0	0	0
9/30/22	0	0	0	0
10/31/22	0	.0019	.001	.005
11/30/22	0	0	0	0
12/31/22	0	0	0	0
1/31/23	0	0	0	0
2/28/23	Not Received	Not Received	Not Received	Not Received

01051 Lead, total [as Pb] / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	.048
DMR Values	
4/30/18	0

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01051 Lead, total [as Pb] / Location T / Season 0 / Base

DMR Values	
7/31/18	0
10/31/18	0
1/31/19	0
4/30/19	.005
7/31/19	0
10/31/19	0
1/31/20	0
4/30/20	0
7/31/20	0
10/31/20	0
1/31/21	0
4/30/21	0
7/31/21	0
10/31/21	0
1/31/22	0
4/30/22	0
7/31/22	0
10/31/22	.005
1/31/23	0

01051 Lead, total [as Pb] / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	NODI=9
3/31/18	NODI=9
5/31/18	NODI=9
6/30/18	NODI=9
8/31/18	NODI=9
9/30/18	NODI=9
11/30/18	NODI=9
12/31/18	NODI=9
2/28/19	NODI=9
3/31/19	NODI=9
5/31/19	NODI=9
6/30/19	NODI=9
8/31/19	NODI=9
9/30/19	NODI=9
11/30/19	NODI=9
12/31/19	NODI=9
2/29/20	NODI=9
3/31/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9

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01051 Lead, total [as Pb] / Location T / Season 1 / Base

DMR Values	
8/31/20	NODI=9
9/30/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
2/28/23	Not Received

01067 Nickel, total [as Ni] / Location 1 / Season 0 / Permit Modification

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
7/1/11	12/31/12	Composite	Weekly

Limit				
Limit Unit Desc	Kilograms per Day	Kilograms per Day	Milligrams per Liter	Milligrams per Liter
Statistical Base	MO AVG	DAILY MX	MO AVG	DAILY MX
Limit Value	.442	.887	.653	1.21
DMR Values				
2/28/18	.062	.074	.106	.126
3/31/18	.067	.074	.118	.127
4/30/18	.08	.124	.141	.185
5/31/18	.075	.09	.125	.146
6/30/18	.039	.052	.074	.097
7/31/18	.038	.0423	.074	.081
8/31/18	.054	.0847	.096	.131
9/30/18	.05	.0649	.084	.1
10/31/18	.06	.0987	.113	.18
11/30/18	.048	.061	.109	.125
12/31/18	.0576	.0757	.116	.156
1/31/19	.0613	.0825	.13	.173
2/28/19	.054	.0863	.105	.144
3/31/19	.058	.0754	.118	.122
4/30/19	.061	.093	.108	.155
5/31/19	.052	.0587	.115	.142
6/30/19	.047	.0622	.086	.11
7/31/19	.049	.0665	.088	.11

DMR Summary

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01067 Nickel, total [as Ni] / Location 1 / Season 0 / Permit Modification

DMR Values				
8/31/19	.047	.0688	.084	.119
9/30/19	.052	.0776	.088	.131
10/31/19	.039	.0614	.076	.104
11/30/19	.072	.0921	.15	.186
12/31/19	.067	.1061	.154	.259
1/31/20	.058	.0688	.146	.195
2/29/20	.038	.0585	.091	.13
3/31/20	.034	.0515	.092	.177
4/30/20	.04802	.0888	.137	.2
5/31/20	.026	.029	.075	.087
6/30/20	.0253	.0304	.084	.115
7/31/20	.02	.028	.059	.071
8/31/20	.0307	.0437	.074	.108
9/30/20	.0259	.0361	.065	.088
10/31/20	.0262	.0352	.064	.076
11/30/20	.0239	.0345	.066	.093
12/31/20	.0198	.0285	.064	.088
1/31/21	.021	.0244	.063	.066
2/28/21	.0198	.0297	.052	.072
3/31/21	.0113	.0131	.031	.04
4/30/21	.0194	.0347	.05	.095
5/31/21	.0141	.0156	.039	.049
6/30/21	.014	.0206	.036	.047
7/31/21	.0154	.0191	.039	.046
8/31/21	.01	.0257	.031	.064
9/30/21	.016	.0198	.052	.067
10/31/21	.017	.025	.053	.081
11/30/21	.015	.026	.05	.083
12/31/21	.018	.0275	.052	.067
1/31/22	.018	.025	.056	.083
2/28/22	.028	.0482	.084	.142
3/31/22	.025	.0342	.068	.088
4/30/22	.02	.0234	.05	.054
5/31/22	.024	.0278	.062	.068
6/30/22	.029	.0398	.071	.095
7/31/22	.022	.0343	.053	.08
8/31/22	.079	.3005	.203	.735
9/30/22	.017	.0232	.065	.09
10/31/22	.015	.0194	.05	.061
11/30/22	.035	.101	.164	.437
12/31/22	.018	.0237	.08	.107
1/31/23	.008	.066	.041	.313
2/28/23	Not Received	Not Received	Not Received	Not Received

01067 Nickel, total [as Ni] / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

DMR Summary

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01067 Nickel, total [as Ni] / Location T / Season 0 / Base

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	1.21
DMR Values	
4/30/18	.119
7/31/18	.07
10/31/18	.1
1/31/19	.173
4/30/19	.155
7/31/19	.063
10/31/19	.068
1/31/20	.108
4/30/20	.12
7/31/20	.063
10/31/20	.045
1/31/21	.066
4/30/21	.031
7/31/21	.04
10/31/21	.053
1/31/22	.058
4/30/22	.041
7/31/22	.04
10/31/22	.051
1/31/23	.042

01067 Nickel, total [as Ni] / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	NODI=9
3/31/18	NODI=9
5/31/18	NODI=9
6/30/18	NODI=9
8/31/18	NODI=9
9/30/18	NODI=9
11/30/18	NODI=9
12/31/18	NODI=9
2/28/19	NODI=9
3/31/19	NODI=9
5/31/19	NODI=9
6/30/19	NODI=9
8/31/19	NODI=9
9/30/19	NODI=9

DMR Summary

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01067 Nickel, total [as Ni] / Location T / Season 1 / Base

DMR Values	
11/30/19	NODI=9
12/31/19	NODI=9
2/29/20	NODI=9
3/31/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
2/28/23	Not Received

01077 Silver, total [as Ag] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Weekly

Limit				
Limit Unit Desc	Kilograms per Day	Kilograms per Day	Milligrams per Liter	Milligrams per Liter
Statistical Base	MO AVG	DAILY MX	MO AVG	DAILY MX
Limit Value	.027	.054	.1	.43
DMR Values				
2/28/18	.007	.009	.012	.017
3/31/18	.01	.013	.018	.021
4/30/18	.005	.01	.009	.017
5/31/18	.011	.021	.019	.034
6/30/18	.011	.021	.023	.045
7/31/18	.011	.017	.022	.035
8/31/18	.012	.018	.022	.028
9/30/18	.007	.018	.012	.028
10/31/18	.005	.01	.01	.021
11/30/18	.006	.01	.015	.022
12/31/18	.007	.0131	.014	.02
1/31/19	.006	.009	.013	.022

DMR Summary

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01077 Silver, total [as Ag] / Location 1 / Season 0 / Base

DMR Values				
2/28/19	.002	.004	.002	.006
3/31/19	.008	.02	.016	.04
4/30/19	.01	.023	.018	.039
5/31/19	.0045	.007	.01	.016
6/30/19	.0096	.0132	.018	.025
7/31/19	.0044	.0083	.008	.017
8/31/19	.0056	.0111	.01	.02
9/30/19	.01	.0276	.017	.044
10/31/19	.005	.0096	.01	.021
11/30/19	.0057	.0127	.012	.028
12/31/19	.0054	.0068	.012	.014
1/31/20	.0075	.0169	.02	.048
2/29/20	.0072	.0147	.018	.035
3/31/20	.0078	.0128	.02	.034
4/30/20	.004	.009	.013	.02
5/31/20	.0047	.0061	.014	.016
6/30/20	.0034	.0052	.011	.015
7/31/20	.0063	.0098	.019	.034
8/31/20	.0091	.0099	.022	.023
9/30/20	.0076	.0182	.018	.042
10/31/20	.0115	.0218	.028	.047
11/30/20	.0016	.004	.005	.011
12/31/20	.0015	.0023	.004	.007
1/31/21	.0051	.0098	.015	.029
2/28/21	.0031	.0063	.008	.017
3/31/21	.0033	.0063	.008	.015
4/30/21	.0151	.019	.038	.048
5/31/21	.0088	.0145	.025	.046
6/30/21	.0099	.0135	.026	.037
7/31/21	.0074	.0151	.019	.035
8/31/21	.003	.0068	.008	.017
9/30/21	.0096	.014	.031	.044
10/31/21	.0098	.0201	.029	.043
11/30/21	.0093	.0145	.03	.039
12/31/21	.0117	.0123	.035	.038
1/31/22	.0057	.0114	.019	.037
2/28/22	.0037	.0104	.011	.03
3/31/22	.0029	.007	.008	.018
4/30/22	.0066	.0152	.018	.042
5/31/22	.0066	.0082	.017	.022
6/30/22	.0108	.0146	.027	.035
7/31/22	.0172	.0193	.041	.045
8/31/22	.0065	.0099	.02	.033
9/30/22	.0053	.0111	.022	.042
10/31/22	.0071	.0113	.026	.041
11/30/22	.006	.007	.029	.047
12/31/22	.0083	.011	.037	.046
1/31/23	.0069	.0095	.037	.048
2/28/23	Not Received	Not Received	Not Received	Not Received

DMR Summary

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Outfall 0011

01077 Silver, total [as Ag] / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	.43
DMR Values	
4/30/18	.017
7/31/18	.035
10/31/18	.021
1/31/19	.012
4/30/19	.039
7/31/19	.017
10/31/19	.013
1/31/20	.009
4/30/20	.014
7/31/20	.013
10/31/20	.036
1/31/21	.015
4/30/21	.046
7/31/21	.006
10/31/21	.043
1/31/22	.037
4/30/22	.011
7/31/22	.036
10/31/22	.012
1/31/23	.048

01077 Silver, total [as Ag] / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	NODI=9
3/31/18	NODI=9
5/31/18	NODI=9
6/30/18	NODI=9
8/31/18	NODI=9
9/30/18	NODI=9
11/30/18	NODI=9
12/31/18	NODI=9
2/28/19	NODI=9
3/31/19	NODI=9
5/31/19	NODI=9

DMR Summary

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01077 Silver, total [as Ag] / Location T / Season 1 / Base

DMR Values	
6/30/19	NODI=9
8/31/19	NODI=9
9/30/19	NODI=9
11/30/19	NODI=9
12/31/19	NODI=9
2/29/20	NODI=9
3/31/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
2/28/23	Not Received

01092 Zinc, total [as Zn] / Location 1 / Season 0 / Permit Modification

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
7/1/11	12/31/12	Composite	Weekly

Limit				
Limit Unit Desc	Kilograms per Day	Kilograms per Day	Milligrams per Liter	Milligrams per Liter
Statistical Base	MO AVG	DAILY MX	MO AVG	DAILY MX
Limit Value	.028	.055	1	2
DMR Values				
2/28/18	.012	.023	.021	.036
3/31/18	.018	.022	.032	.044
4/30/18	.011	.019	.02	.031
5/31/18	.017	.028	.027	.037
6/30/18	.009	.019	.018	.034
7/31/18	.007	.008	.014	.016
8/31/18	.006	.007	.011	.011
9/30/18	.008	.0097	.013	.015
10/31/18	.014	.03	.026	.054

DMR Summary

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Outfall 0011

01092 Zinc, total [as Zn] / Location 1 / Season 0 / Permit Modification

DMR Values				
11/30/18	.007	.008	.015	.016
12/31/18	.0063	.0073	.01	.015
1/31/19	.005	.006	.012	.014
2/28/19	.009	.014	.018	.023
3/31/19	.009	.012	.019	.023
4/30/19	.011	.018	.019	.03
5/31/19	.0046	.0053	0	0
6/30/19	.0072	.0096	.013	.017
7/31/19	.0089	.0136	.016	.025
8/31/19	.0094	.0109	.017	.019
9/30/19	.015	.0207	.025	.033
10/31/19	.0172	.0284	.035	.062
11/30/19	.0122	.0146	.026	.032
12/31/19	.0137	.0167	.031	.037
1/31/20	.0137	.0228	.035	.057
2/29/20	.0092	.0117	.023	.026
3/31/20	.0097	.0117	.025	.03
4/30/20	.008	.012	.025	.028
5/31/20	.008	.0099	.024	.026
6/30/20	.0077	.011	.025	.033
7/31/20	.0083	.009	.025	.028
8/31/20	.011	.0125	.026	.029
9/30/20	.009	.0124	.023	.03
10/31/20	.0116	.0155	.028	.034
11/30/20	.019	.0297	.052	.082
12/31/20	.0104	.0133	.034	.041
1/31/21	.0116	.0139	.035	.041
2/28/21	.0111	.0136	.03	.037
3/31/21	.0137	.0169	.037	.045
4/30/21	.0119	.0153	.03	.037
5/31/21	.0086	.0104	.026	.033
6/30/21	.011	.014	.027	.032
7/31/21	.0122	.0147	.03	.034
8/31/21	.008	.012	.025	.03
9/30/21	.0096	.0118	.031	.04
10/31/21	.0076	.0099	.024	.032
11/30/21	.0087	.0114	.028	.03
12/31/21	.0071	.0082	.021	.022
1/31/22	.0065	.0101	.021	.033
2/28/22	.0066	.0107	.02	.034
3/31/22	.0083	.0098	.022	.025
4/30/22	.0099	.0131	.025	.029
5/31/22	.0086	.0106	.022	.027
6/30/22	.0089	.0105	.022	.029
7/31/22	.0276	.03	.068	.075
8/31/22	.0266	.0499	.074	.122
9/30/22	.014	.0268	.056	.104
10/31/22	.0103	.0144	.035	.044
11/30/22	.012	.0196	.059	.09
12/31/22	.0071	.0128	.031	.053

DMR Summary

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01092 Zinc, total [as Zn] / Location 1 / Season 0 / Permit Modification

DMR Values				
1/31/23	.0105	.0241	.055	.081
2/28/23	Not Received	Not Received	Not Received	Not Received

01092 Zinc, total [as Zn] / Location T / Season 0 / Permit Modification

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
7/1/11	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	2
DMR Values	
4/30/18	.031
7/31/18	.016
10/31/18	.018
1/31/19	.014
4/30/19	.03
7/31/19	0
10/31/19	.036
1/31/20	.037
4/30/20	.028
7/31/20	.025
10/31/20	.018
1/31/21	.031
4/30/21	.037
7/31/21	.034
10/31/21	.02
1/31/22	.033
4/30/22	.026
7/31/22	.058
10/31/22	.038
1/31/23	.036

01092 Zinc, total [as Zn] / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	NODI=9
3/31/18	NODI=9
5/31/18	NODI=9
6/30/18	NODI=9
8/31/18	NODI=9
9/30/18	NODI=9

DMR Summary

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01092 Zinc, total [as Zn] / Location T / Season 1 / Base

DMR Values	
11/30/18	NODI=9
12/31/18	NODI=9
2/28/19	NODI=9
3/31/19	NODI=9
5/31/19	NODI=9
6/30/19	NODI=9
8/31/19	NODI=9
9/30/19	NODI=9
11/30/19	NODI=9
12/31/19	NODI=9
2/29/20	NODI=9
3/31/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
2/28/23	Not Received

01102 Tin, total [as Sn] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Weekly

Limit		
Limit Unit Desc	Milligrams per Liter	Milligrams per Liter
Statistical Base	MO AVG	DAILY MX
Limit Value	2	4
DMR Values		
2/28/18	.045	.12
3/31/18	0	0
4/30/18	.025	.06
5/31/18	.022	.06

DMR Summary

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Outfall 0011

01102 Tin, total [as Sn] / Location 1 / Season 0 / Base

DMR Values		
6/30/18	.055	.22
7/31/18	0	0
8/31/18	0	0
9/30/18	0	0
10/31/18	0	0
11/30/18	0	0
12/31/18	0	0
1/31/19	0	0
2/28/19	0	0
3/31/19	0	0
4/30/19	0	0
5/31/19	0	0
6/30/19	0	0
7/31/19	0	0
8/31/19	0	0
9/30/19	0	0
10/31/19	0	0
11/30/19	0	0
12/31/19	0	0
1/31/20	0	0
2/29/20	0	0
3/31/20	0	0
4/30/20	0	0
5/31/20	0	0
6/30/20	0	0
7/31/20	0	0
8/31/20	0	0
9/30/20	0	0
10/31/20	0	0
11/30/20	0	0
12/31/20	0	0
1/31/21	0	0
2/28/21	0	0
3/31/21	0	0
4/30/21	0	0
5/31/21	0	0
6/30/21	0	0
7/31/21	0	0
8/31/21	0	0
9/30/21	0	0
10/31/21	0	0
11/30/21	0	0
12/31/21	0	0
1/31/22	0	0
2/28/22	0	0
3/31/22	0	0
4/30/22	0	0
5/31/22	0	0
6/30/22	0	0
7/31/22	0	0

DMR Summary

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Outfall 0011

01102 Tin, total [as Sn] / Location 1 / Season 0 / Base

DMR Values		
8/31/22	0	0
9/30/22	0	0
10/31/22	0	0
11/30/22	0	0
12/31/22	0	0
1/31/23	0	0
2/28/23	Not Received	Not Received

01102 Tin, total [as Sn] / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	4
DMR Values	
4/30/18	.04
7/31/18	0
10/31/18	0
1/31/19	0
4/30/19	0
7/31/19	0
10/31/19	0
1/31/20	0
4/30/20	0
7/31/20	0
10/31/20	0
1/31/21	0
4/30/21	0
7/31/21	0
10/31/21	0
1/31/22	0
4/30/22	0
7/31/22	0
10/31/22	0
1/31/23	0

01102 Tin, total [as Sn] / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	NODI=9

DMR Summary

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Outfall 0011

01102 Tin, total [as Sn] / Location T / Season 1 / Base

DMR Values	
3/31/18	NODI=9
5/31/18	NODI=9
6/30/18	NODI=9
8/31/18	NODI=9
9/30/18	NODI=9
11/30/18	NODI=9
12/31/18	NODI=9
2/28/19	NODI=9
3/31/19	NODI=9
5/31/19	NODI=9
6/30/19	NODI=9
8/31/19	NODI=9
9/30/19	NODI=9
11/30/19	NODI=9
12/31/19	NODI=9
2/29/20	NODI=9
3/31/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
2/28/23	Not Received

01105 Aluminum, total [as Al] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Weekly

Limit		
Limit Unit Desc	Milligrams per Liter	Milligrams per Liter
Statistical Base	MO AVG	DAILY MX
Limit Value	2	4

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

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Outfall 0011

01105 Aluminum, total [as Al] / Location 1 / Season 0 / Base

DMR Values		
2/28/18	.01	.02
3/31/18	0	0
4/30/18	0	0
5/31/18	.004	.02
6/30/18	.01	.02
7/31/18	0	0
8/31/18	0	0
9/30/18	0	0
10/31/18	.006	.03
11/30/18	0	0
12/31/18	0	0
1/31/19	0	0
2/28/19	.01	.02
3/31/19	.01	.04
4/30/19	0	0
5/31/19	0	0
6/30/19	0	0
7/31/19	.008	.03
8/31/19	.01	.02
9/30/19	.013	.03
10/31/19	.018	.04
11/30/19	.008	.03
12/31/19	.01	.03
1/31/20	.01	.04
2/29/20	0	0
3/31/20	.018	.04
4/30/20	0	0
5/31/20	.02	.04
6/30/20	0	0
7/31/20	.008	.03
8/31/20	0	0
9/30/20	.006	.03
10/31/20	.04	.13
11/30/20	.01	.04
12/31/20	.022	.06
1/31/21	.03	.09
2/28/21	0	0
3/31/21	.022	.04
4/30/21	0	0
5/31/21	.033	.07
6/30/21	.023	.05
7/31/21	.025	.07
8/31/21	.038	.05
9/30/21	.03	.06
10/31/21	0	0
11/30/21	.009	.046
12/31/21	0	0
1/31/22	.018	.05
2/28/22	.045	.08
3/31/22	.03	.08

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

01105 Aluminum, total [as Al] / Location 1 / Season 0 / Base

DMR Values		
4/30/22	.043	.12
5/31/22	.025	.04
6/30/22	.028	.04
7/31/22	.027	.08
8/31/22	.01	.05
9/30/22	.028	.06
10/31/22	0	0
11/30/22	.039	.07
12/31/22	.01	.03
1/31/23	.02	.04
2/28/23	Not Received	Not Received

01105 Aluminum, total [as Al] / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	4
DMR Values	
4/30/18	0
7/31/18	0
10/31/18	0
1/31/19	0
4/30/19	0
7/31/19	0
10/31/19	.04
1/31/20	.04
4/30/20	0
7/31/20	0
10/31/20	.13
1/31/21	0
4/30/21	0
7/31/21	.069
10/31/21	0
1/31/22	0
4/30/22	.12
7/31/22	.08
10/31/22	0
1/31/23	0

01105 Aluminum, total [as Al] / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

01105 Aluminum, total [as Al] / Location T / Season 1 / Base

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	NODI=9
3/31/18	NODI=9
5/31/18	NODI=9
6/30/18	NODI=9
8/31/18	NODI=9
9/30/18	NODI=9
11/30/18	NODI=9
12/31/18	NODI=9
2/28/19	NODI=9
3/31/19	NODI=9
5/31/19	NODI=9
6/30/19	NODI=9
8/31/19	NODI=9
9/30/19	NODI=9
11/30/19	NODI=9
12/31/19	NODI=9
2/29/20	NODI=9
3/31/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
2/28/23	Not Received

01168 Indium / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Weekly

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

01168 Indium / Location 1 / Season 0 / Base

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	0
3/31/18	0
4/30/18	0
5/31/18	0
6/30/18	0
7/31/18	0
8/31/18	0
9/30/18	0
10/31/18	0
11/30/18	0
12/31/18	0
1/31/19	0
2/28/19	0
3/31/19	0
4/30/19	0
5/31/19	0
6/30/19	0
7/31/19	0
8/31/19	0
9/30/19	0
10/31/19	0
11/30/19	0
12/31/19	0
1/31/20	0
2/29/20	0
3/31/20	0
4/30/20	0
5/31/20	0
6/30/20	0
7/31/20	0
8/31/20	0
9/30/20	0
10/31/20	0
11/30/20	0
12/31/20	0
1/31/21	0
2/28/21	0
3/31/21	0
4/30/21	0
5/31/21	0
6/30/21	0
7/31/21	0
8/31/21	0
9/30/21	0
10/31/21	0

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

01168 Indium / Location 1 / Season 0 / Base

DMR Values	
11/30/21	0
12/31/21	0
1/31/22	0
2/28/22	0
3/31/22	0
4/30/22	0
5/31/22	0
6/30/22	0
7/31/22	0
8/31/22	0
9/30/22	0
10/31/22	0
11/30/22	0
12/31/22	0
1/31/23	0
2/28/23	Not Received

01168 Indium / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
4/30/18	0
7/31/18	0
10/31/18	0
1/31/19	0
4/30/19	0
7/31/19	0
10/31/19	0
1/31/20	0
4/30/20	0
7/31/20	0
10/31/20	0
1/31/21	0
4/30/21	0
7/31/21	0
10/31/21	0
1/31/22	0
4/30/22	0
7/31/22	0
10/31/22	0
1/31/23	0

01168 Indium / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
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DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

01168 Indium / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	NODI=9
3/31/18	NODI=9
5/31/18	NODI=9
6/30/18	NODI=9
8/31/18	NODI=9
9/30/18	NODI=9
11/30/18	NODI=9
12/31/18	NODI=9
2/28/19	NODI=9
3/31/19	NODI=9
5/31/19	NODI=9
6/30/19	NODI=9
8/31/19	NODI=9
9/30/19	NODI=9
11/30/19	NODI=9
12/31/19	NODI=9
2/29/20	NODI=9
3/31/20	NODI=9
5/31/20	0
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
2/28/23	Not Received

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

01210 Palladium, total [as Pd] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Weekly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	0
3/31/18	0
4/30/18	0
5/31/18	0
6/30/18	0
7/31/18	0
8/31/18	0
9/30/18	0
10/31/18	0
11/30/18	0
12/31/18	0
1/31/19	0
2/28/19	0
3/31/19	0
4/30/19	0
5/31/19	0
6/30/19	0
7/31/19	0
8/31/19	0
9/30/19	0
10/31/19	0
11/30/19	0
12/31/19	0
1/31/20	0
2/29/20	0
3/31/20	0
4/30/20	0
5/31/20	0
6/30/20	0
7/31/20	0
8/31/20	0
9/30/20	0
10/31/20	0
11/30/20	0
12/31/20	0
1/31/21	0
2/28/21	0
3/31/21	0
4/30/21	0
5/31/21	0
6/30/21	0
7/31/21	0
8/31/21	0

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

01210 Palladium, total [as Pd] / Location 1 / Season 0 / Base

DMR Values	
9/30/21	0
10/31/21	0
11/30/21	0
12/31/21	0
1/31/22	0
2/28/22	0
3/31/22	0
4/30/22	0
5/31/22	0
6/30/22	0
7/31/22	0
8/31/22	0
9/30/22	0
10/31/22	0
11/30/22	0
12/31/22	0
1/31/23	0
2/28/23	Not Received

01210 Palladium, total [as Pd] / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
4/30/18	0
7/31/18	0
10/31/18	0
1/31/19	0
4/30/19	0
7/31/19	0
10/31/19	0
1/31/20	0
4/30/20	0
7/31/20	0
10/31/20	0
1/31/21	0
4/30/21	0
7/31/21	0
10/31/21	0
1/31/22	0
4/30/22	0
7/31/22	0
10/31/22	0
1/31/23	0

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

01210 Palladium, total [as Pd] / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	NODI=9
3/31/18	NODI=9
5/31/18	NODI=9
6/30/18	NODI=9
8/31/18	NODI=9
9/30/18	NODI=9
11/30/18	NODI=9
12/31/18	NODI=9
2/28/19	NODI=9
3/31/19	NODI=9
5/31/19	NODI=9
6/30/19	NODI=9
8/31/19	NODI=9
9/30/19	NODI=9
11/30/19	NODI=9
12/31/19	NODI=9
2/29/20	NODI=9
3/31/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	0
11/30/22	NODI=9
12/31/22	NODI=9
2/28/23	Not Received

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

32106 Chloroform / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Monthly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	.043
3/31/18	.034
4/30/18	.0244
5/31/18	.026
6/30/18	.062
7/31/18	.0175
8/31/18	.046
9/30/18	.022
10/31/18	.034
11/30/18	.02
12/31/18	.064
1/31/19	.029
2/28/19	.039
3/31/19	.039
4/30/19	.029
5/31/19	.04
6/30/19	.054
7/31/19	.015
8/31/19	.075
9/30/19	.088
10/31/19	.059
11/30/19	.059
12/31/19	.1
1/31/20	.166
2/29/20	.079
3/31/20	.056
4/30/20	.113
5/31/20	.0762
6/30/20	.0794
7/31/20	.095
8/31/20	.036
9/30/20	.19
10/31/20	.0789
11/30/20	.154
12/31/20	.063
1/31/21	.0876
2/28/21	.114
3/31/21	.0526
4/30/21	.119
5/31/21	.146
6/30/21	.111
7/31/21	.128
8/31/21	.217

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

32106 Chloroform / Location 1 / Season 0 / Base

DMR Values	
9/30/21	.151
10/31/21	.159
11/30/21	.305
12/31/21	.328
1/31/22	.164
2/28/22	.15
3/31/22	.132
4/30/22	.069
5/31/22	.132
6/30/22	.201
7/31/22	.0591
8/31/22	.109
9/30/22	.043
10/31/22	.088
11/30/22	.132
12/31/22	.064
1/31/23	.048
2/28/23	Not Received

32106 Chloroform / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
4/30/18	.0224
7/31/18	.0175
10/31/18	.034
1/31/19	.029
4/30/19	.029
7/31/19	.015
10/31/19	.059
1/31/20	.166
4/30/20	.113
7/31/20	.095
10/31/20	.0789
1/31/21	.0876
4/30/21	.119
7/31/21	.128
10/31/21	.159
1/31/22	.0789
4/30/22	.0691
7/31/22	.059
10/31/22	.026
1/31/23	.048

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

32106 Chloroform / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	NODI=9
3/31/18	NODI=9
5/31/18	NODI=9
6/30/18	NODI=9
8/31/18	NODI=9
9/30/18	NODI=9
11/30/18	NODI=9
12/31/18	NODI=9
2/28/19	NODI=9
3/31/19	NODI=9
5/31/19	NODI=9
6/30/19	NODI=9
8/31/19	NODI=9
9/30/19	NODI=9
11/30/19	NODI=9
12/31/19	NODI=9
2/29/20	NODI=9
3/31/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
2/28/23	Not Received

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

38260 Surfactants [MBAS] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Monthly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	0
3/31/18	.08
4/30/18	.06
5/31/18	0
6/30/18	0
7/31/18	0
8/31/18	0
9/30/18	0
10/31/18	0
11/30/18	0
12/31/18	.08
1/31/19	0
2/28/19	.17
3/31/19	.27
4/30/19	.27
5/31/19	.19
6/30/19	.08
7/31/19	.18
8/31/19	.16
9/30/19	.04
10/31/19	.07
11/30/19	0
12/31/19	.04
1/31/20	.03
2/29/20	.06
3/31/20	.08
4/30/20	.04
5/31/20	.08
6/30/20	.08
7/31/20	.04
8/31/20	.02
9/30/20	0
10/31/20	.06
11/30/20	0
12/31/20	.06
1/31/21	.03
2/28/21	.03
3/31/21	.03
4/30/21	.03
5/31/21	0
6/30/21	.03
7/31/21	.03
8/31/21	.04

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

38260 Surfactants [MBAS] / Location 1 / Season 0 / Base

DMR Values	
9/30/21	0
10/31/21	.06
11/30/21	0
12/31/21	.05
1/31/22	.16
2/28/22	.16
3/31/22	.16
4/30/22	.06
5/31/22	.03
6/30/22	.03
7/31/22	.04
8/31/22	.04
9/30/22	.08
10/31/22	.08
11/30/22	.06
12/31/22	.12
1/31/23	.06
2/28/23	Not Received

38260 Surfactants [MBAS] / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
4/30/18	.06
7/31/18	0
10/31/18	0
1/31/19	0
4/30/19	.27
7/31/19	.18
10/31/19	.07
1/31/20	.03
4/30/20	0
7/31/20	.04
10/31/20	.06
1/31/21	.03
4/30/21	.03
7/31/21	.03
10/31/21	.06
1/31/22	.11
4/30/22	.06
7/31/22	.04
10/31/22	.09
1/31/23	.06

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

38260 Surfactants [MBAS] / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	NODI=9
3/31/18	NODI=9
5/31/18	NODI=9
6/30/18	NODI=9
8/31/18	NODI=9
9/30/18	NODI=9
11/30/18	NODI=9
12/31/18	NODI=9
2/28/19	NODI=9
3/31/19	NODI=9
5/31/19	NODI=9
6/30/19	NODI=9
8/31/19	NODI=9
9/30/19	NODI=9
11/30/19	NODI=9
12/31/19	NODI=9
2/29/20	NODI=9
3/31/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
2/28/23	Not Received

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

50047 Flow, maximum during 24 hr period / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Totalizer	Continuous

Limit	
Limit Unit Desc	Gallons per Day
Statistical Base	DAILY MX
Limit Value	400000
DMR Values	
2/28/18	170484
3/31/18	198820
4/30/18	184815
5/31/18	205470
6/30/18	158893
7/31/18	165469
8/31/18	179550
9/30/18	178153
10/31/18	166342
11/30/18	154229
12/31/18	147928
1/31/19	201541
2/28/19	158519
3/31/19	145117
4/30/19	166494
5/31/19	146240
6/30/19	165124
7/31/19	124971
8/31/19	175386
9/30/19	179032
10/31/19	163337
11/30/19	148288
12/31/19	155572
1/31/20	135197
2/29/20	128460
3/31/20	166481
4/30/20	117391
5/31/20	120408
6/30/20	114786
7/31/20	134774
8/31/20	131607
9/30/20	133823
10/31/20	132438
11/30/20	136291
12/31/20	129434
1/31/21	112682
2/28/21	122663
3/31/21	131538
4/30/21	119593
5/31/21	133314
6/30/21	130431
7/31/21	145371
8/31/21	122594

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

50047 Flow, maximum during 24 hr period / Location 1 / Season 0 / Base

DMR Values	
9/30/21	96607
10/31/21	123678
11/30/21	125509
12/31/21	122505
1/31/22	110532
2/28/22	139639
3/31/22	132921
4/30/22	128967
5/31/22	135541
6/30/22	166588
7/31/22	129854
8/31/22	150240
9/30/22	105432
10/31/22	100264
11/30/22	98160
12/31/22	84943
1/31/23	86808
2/28/23	Not Received

50060 Chlorine, total residual / Location 1 / Season 0 / Permit Modification

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
7/1/11	12/31/12	Grab Average	Weekly

Limit		
Limit Unit Desc	Milligrams per Liter	Milligrams per Liter
Statistical Base	MO AVG	DAILY MX
Limit Value	.115	.232
DMR Values		
2/28/18	.021	.025
3/31/18	.022	.023
4/30/18	.021	.027
5/31/18	.021	.028
6/30/18	.004	.01
7/31/18	0	0
8/31/18	0	0
9/30/18	0	0
10/31/18	0	0
11/30/18	0	0
12/31/18	0	0
1/31/19	0	0
2/28/19	0	0
3/31/19	0	0
4/30/19	0	0
5/31/19	0	0
6/30/19	0	0
7/31/19	0	0
8/31/19	0	0
9/30/19	0	0
10/31/19	0	0

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

50060 Chlorine, total residual / Location 1 / Season 0 / Permit Modification

DMR Values		
11/30/19	0	0
12/31/19	0	0
1/31/20	0	0
2/29/20	0	0
3/31/20	0	0
4/30/20	0	0
5/31/20	0	0
6/30/20	0	0
7/31/20	0	0
8/31/20	0	0
9/30/20	0	0
10/31/20	0	0
11/30/20	0	0
12/31/20	0	0
1/31/21	0	0
2/28/21	0	0
3/31/21	0	0
4/30/21	0	0
5/31/21	0	0
6/30/21	0	0
7/31/21	0	0
8/31/21	0	0
9/30/21	0	0
10/31/21	.003	.013
11/30/21	0	0
12/31/21	0	0
1/31/22	0	0
2/28/22	0	0
3/31/22	0	0
4/30/22	0	0
5/31/22	0	0
6/30/22	0	0
7/31/22	0	0
8/31/22	0	0
9/30/22	0	0
10/31/22	0	0
11/30/22	0	0
12/31/22	0	0
1/31/23	0	0
2/28/23	Not Received	Not Received

50060 Chlorine, total residual / Location T / Season 0 / Permit Modification

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
7/1/11	12/31/12	Grab Average	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	.232

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

50060 Chlorine, total residual / Location T / Season 0 / Permit Modification

DMR Values	
4/30/18	.017
7/31/18	0
10/31/18	0
1/31/19	0
4/30/19	0
7/31/19	0
10/31/19	0
1/31/20	0
4/30/20	0
7/31/20	0
10/31/20	0
1/31/21	0
4/30/21	0
7/31/21	0
10/31/21	0
1/31/22	0
4/30/22	0
7/31/22	0
10/31/22	NODI=9
1/31/23	0

50060 Chlorine, total residual / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Grab Average	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	NODI=9
3/31/18	NODI=9
5/31/18	NODI=9
6/30/18	NODI=9
8/31/18	NODI=9
9/30/18	NODI=9
11/30/18	NODI=9
12/31/18	NODI=9
2/28/19	NODI=9
3/31/19	NODI=9
5/31/19	NODI=9
6/30/19	NODI=9
8/31/19	NODI=9
9/30/19	NODI=9
11/30/19	NODI=9
12/31/19	NODI=9
2/29/20	NODI=9
3/31/20	NODI=9
5/31/20	NODI=9

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

50060 Chlorine, total residual / Location T / Season 1 / Base

DMR Values	
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
5/31/22	0
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
2/28/23	Not Received

71910 Gold, total [as Au] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Weekly

Limit		
Limit Unit Desc	Milligrams per Liter	Milligrams per Liter
Statistical Base	MO AVG	DAILY MX
Limit Value	.1	.5
DMR Values		
2/28/18	0	0
3/31/18	0	0
4/30/18	0	0
5/31/18	0	0
6/30/18	0	0
7/31/18	0	0
8/31/18	0	0
9/30/18	0	0
10/31/18	0	0
11/30/18	0	0
12/31/18	0	0
1/31/19	0	0
2/28/19	0	0
3/31/19	0	0
4/30/19	0	0
5/31/19	0	0
6/30/19	0	0

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

71910 Gold, total [as Au] / Location 1 / Season 0 / Base

DMR Values		
7/31/19	0	0
8/31/19	0	0
9/30/19	0	0
10/31/19	0	0
11/30/19	0	0
12/31/19	0	0
1/31/20	0	0
2/29/20	0	0
3/31/20	0	0
4/30/20	0	0
5/31/20	0	0
6/30/20	0	0
7/31/20	0	0
8/31/20	0	0
9/30/20	0	0
10/31/20	0	0
11/30/20	0	0
12/31/20	0	0
1/31/21	0	0
2/28/21	0	0
3/31/21	0	0
4/30/21	0	0
5/31/21	0	0
6/30/21	0	0
7/31/21	0	0
8/31/21	0	0
9/30/21	0	0
10/31/21	0	0
11/30/21	0	0
12/31/21	0	0
1/31/22	0	0
2/28/22	0	0
3/31/22	0	0
4/30/22	0	0
5/31/22	0	0
6/30/22	0	0
7/31/22	0	0
8/31/22	0	0
9/30/22	0	0
10/31/22	0	0
11/30/22	0	0
12/31/22	0	0
1/31/23	0	0
2/28/23	Not Received	Not Received

71910 Gold, total [as Au] / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

71910 Gold, total [as Au] / Location T / Season 0 / Base

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	.5
DMR Values	
4/30/18	0
7/31/18	0
10/31/18	0
1/31/19	0
4/30/19	0
7/31/19	0
10/31/19	0
1/31/20	0
4/30/20	0
7/31/20	0
10/31/20	0
1/31/21	0
4/30/21	0
7/31/21	0
10/31/21	0
1/31/22	0
4/30/22	0
7/31/22	0
10/31/22	NODI=9
1/31/23	0

71910 Gold, total [as Au] / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	NODI=9
3/31/18	NODI=9
5/31/18	NODI=9
6/30/18	NODI=9
8/31/18	NODI=9
9/30/18	NODI=9
11/30/18	NODI=9
12/31/18	NODI=9
2/28/19	NODI=9
3/31/19	NODI=9
5/31/19	NODI=9
6/30/19	NODI=9
8/31/19	NODI=9
9/30/19	NODI=9

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

71910 Gold, total [as Au] / Location T / Season 1 / Base

DMR Values	
11/30/19	NODI=9
12/31/19	NODI=9
2/29/20	NODI=9
3/31/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
2/28/23	Not Received

74076 Flow / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Totalizer	Weekly

Limit	
Limit Unit Desc	Gallons per Day
Statistical Base	DAILY MX
Limit Value	400000
DMR Values	
2/28/18	170484
3/31/18	165786
4/30/18	178390
5/31/18	198816
6/30/18	149362
7/31/18	140211
8/31/18	171023
9/30/18	171656
10/31/18	149915
11/30/18	139912
12/31/18	147928
1/31/19	141806
2/28/19	158519

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

74076 Flow / Location 1 / Season 0 / Base

DMR Values	
3/31/19	138224
4/30/19	162054
5/31/19	142514
6/30/19	149453
7/31/19	159880
8/31/19	152823
9/30/19	165924
10/31/19	156081
11/30/19	135197
12/31/19	128362
1/31/20	125060
2/29/20	119001
3/31/20	127530
4/30/20	117391
5/31/20	120408
6/30/20	114786
7/31/20	134774
8/31/20	131607
9/30/20	133823
10/31/20	132438
11/30/20	136291
12/31/20	129434
1/31/21	112682
2/28/21	122663
3/31/21	131538
4/30/21	119593
5/31/21	133314
6/30/21	130431
7/31/21	114017
8/31/21	105883
9/30/21	89903
10/31/21	123678
11/30/21	103566
12/31/21	108505
1/31/22	101616
2/28/22	91837
3/31/22	105463
4/30/22	119136
5/31/22	107831
6/30/22	120521
7/31/22	115239
8/31/22	150240
9/30/22	105432
10/31/22	100264
11/30/22	98160
12/31/22	84943
1/31/23	86808
2/28/23	Not Received

78141 Organics, total toxic [TTO] / Location 1 / Season 0 / Base

3/2/23 11:29 AM

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DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

78141 Organics, total toxic [TTO] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Grab	Monthly

Limit	
Limit Unit Desc	Milligrams per Liter
Statistical Base	INST MAX
Limit Value	1
DMR Values	
2/28/18	NODI=9
3/31/18	NODI=9
4/30/18	NODI=9
5/31/18	NODI=9
6/30/18	NODI=9
7/31/18	.0395
8/31/18	NODI=9
9/30/18	NODI=9
10/31/18	NODI=9
11/30/18	NODI=9
12/31/18	NODI=9
1/31/19	.056
2/28/19	NODI=9
3/31/19	NODI=9
4/30/19	NODI=9
5/31/19	NODI=9
6/30/19	NODI=9
7/31/19	.0247
8/31/19	NODI=9
9/30/19	NODI=9
10/31/19	NODI=9
11/30/19	NODI=9
12/31/19	NODI=9
1/31/20	.166
2/29/20	NODI=9
3/31/20	NODI=9
4/30/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
7/31/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
10/31/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
1/31/21	.0939
2/28/21	NODI=9
3/31/21	NODI=9
4/30/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
7/31/21	.128
8/31/21	NODI=9

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

78141 Organics, total toxic [TTO] / Location 1 / Season 0 / Base

DMR Values	
9/30/21	NODI=9
10/31/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
1/31/22	.164
2/28/22	NODI=9
3/31/22	NODI=9
4/30/22	NODI=9
5/31/22	NODI=9
6/30/22	NODI=A
7/31/22	.059
8/31/22	NODI=9
9/30/22	NODI=9
10/31/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
1/31/23	NODI=9
2/28/23	Not Received

81381 Duration of discharge / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Time Meter	Weekly

Limit	
Limit Unit Desc	Hours
Statistical Base	DAILY MX
Limit Value	
DMR Values	
2/28/18	24
3/31/18	24
4/30/18	24
5/31/18	24
6/30/18	24
7/31/18	24
8/31/18	24
9/30/18	24
10/31/18	24
11/30/18	24
12/31/18	24
1/31/19	24
2/28/19	24
3/31/19	24
4/30/19	24
5/31/19	24
6/30/19	24
7/31/19	24
8/31/19	24
9/30/19	24
10/31/19	24
11/30/19	24

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

81381 Duration of discharge / Location 1 / Season 0 / Base

DMR Values	
12/31/19	24
1/31/20	24
2/29/20	24
3/31/20	24
4/30/20	24
5/31/20	24
6/30/20	24
7/31/20	24
8/31/20	24
9/30/20	24
10/31/20	24
11/30/20	24
12/31/20	24
1/31/21	24
2/28/21	24
3/31/21	24
4/30/21	24
5/31/21	24
6/30/21	24
7/31/21	24
8/31/21	24
9/30/21	24
10/31/21	24
11/30/21	24
12/31/21	24
1/31/22	24
2/28/22	24
3/31/22	24
4/30/22	24
5/31/22	24
6/30/22	24
7/31/22	24
8/31/22	24
9/30/22	24
10/31/22	12
11/30/22	12
12/31/22	12
1/31/23	12
2/28/23	Not Received

TDA3D Noael Static 48Hr Acute D. Pulex / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
7/31/11	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Percent
Statistical Base	INST MIN
Limit Value	90
DMR Values	
4/30/18	100

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

TDA3D Noael Static 48Hr Acute D. Pulex / Location T / Season 0 / Base

DMR Values	
7/31/18	100
10/31/18	100
1/31/19	96
4/30/19	100
7/31/19	100
10/31/19	100
1/31/20	100
4/30/20	98
7/31/20	100
10/31/20	100
1/31/21	100
4/30/21	100
7/31/21	100
10/31/21	100
1/31/22	100
4/30/22	100
7/31/22	100
10/31/22	98
1/31/23	100

TDA3D Noael Static 48Hr Acute D. Pulex / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
7/31/11	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Percent
Statistical Base	INST MIN
Limit Value	
DMR Values	
2/28/18	NODI=9
3/31/18	NODI=9
5/31/18	NODI=9
6/30/18	NODI=9
8/31/18	NODI=9
9/30/18	NODI=9
11/30/18	NODI=9
12/31/18	NODI=9
2/28/19	NODI=9
3/31/19	NODI=9
5/31/19	NODI=9
6/30/19	NODI=9
8/31/19	NODI=9
9/30/19	NODI=9
11/30/19	NODI=9
12/31/19	NODI=9
2/29/20	NODI=9
3/31/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

TDA3D Noael Static 48Hr Acute D. Pulex / Location T / Season 1 / Base

DMR Values	
9/30/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
2/28/23	Not Received

TDA6C Noael Static 48Hr Acute Pimephales / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
7/31/11	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Percent
Statistical Base	INST MIN
Limit Value	90
DMR Values	
4/30/18	100
7/31/18	100
10/31/18	100
1/31/19	100
4/30/19	100
7/31/19	100
10/31/19	100
1/31/20	100
4/30/20	100
7/31/20	100
10/31/20	100
1/31/21	100
4/30/21	100
7/31/21	98
10/31/21	98
1/31/22	100
4/30/22	100
7/31/22	100
10/31/22	100
1/31/23	100

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

TDA6C Noael Static 48Hr Acute Pimephales / Location T / Season 0 / Base

TDA6C Noael Static 48Hr Acute Pimephales / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
7/1/11	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Percent
Statistical Base	INST MIN
Limit Value	
DMR Values	
2/28/18	NODI=9
3/31/18	NODI=9
5/31/18	NODI=9
6/30/18	NODI=9
8/31/18	NODI=9
9/30/18	NODI=9
11/30/18	NODI=9
12/31/18	NODI=9
2/28/19	NODI=9
3/31/19	NODI=9
5/31/19	NODI=9
6/30/19	NODI=9
8/31/19	NODI=9
9/30/19	NODI=9
11/30/19	NODI=9
12/31/19	NODI=9
2/29/20	NODI=9
3/31/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
2/28/23	Not Received

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

TRA3D %Surv Static 48Hr Acute Daphnia Pulex / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
7/1/11	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Percent
Statistical Base	INST MIN
Limit Value	50
DMR Values	
4/30/18	100
7/31/18	100
10/31/18	90
1/31/19	82
4/30/19	100
7/31/19	100
10/31/19	94
1/31/20	100
4/30/20	94
7/31/20	100
10/31/20	98
1/31/21	96
4/30/21	96
7/31/21	100
10/31/21	100
1/31/22	100
4/30/22	98
7/31/22	94
10/31/22	92
1/31/23	90

TRA3D %Surv Static 48Hr Acute Daphnia Pulex / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
7/1/11	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Percent
Statistical Base	INST MIN
Limit Value	
DMR Values	
2/28/18	NODI=9
3/31/18	NODI=9
5/31/18	NODI=9
6/30/18	NODI=9
8/31/18	NODI=9
9/30/18	NODI=9
11/30/18	NODI=9
12/31/18	NODI=9
2/28/19	NODI=9
3/31/19	NODI=9
5/31/19	NODI=9
6/30/19	NODI=9
8/31/19	NODI=9

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

TRA3D %Surv Static 48Hr Acute Daphnia Pulex / Location T / Season 1 / Base

DMR Values	
9/30/19	NODI=9
11/30/19	NODI=9
12/31/19	NODI=9
2/29/20	NODI=9
3/31/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9
2/28/22	NODI=9
3/31/22	NODI=9
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
2/28/23	Not Received

TRA6C % Survival Static 48Hr Acute Pimephales promelas / Location T / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
7/1/11	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Percent
Statistical Base	INST MIN
Limit Value	50
DMR Values	
4/30/18	100
7/31/18	98
10/31/18	100
1/31/19	100
4/30/19	100
7/31/19	100
10/31/19	100
1/31/20	92
4/30/20	100
7/31/20	100
10/31/20	98
1/31/21	98

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

TRA6C % Survival Static 48Hr Acute Pimephales promelas / Location T / Season 0 / Base

DMR Values	
4/30/21	100
7/31/21	84
10/31/21	96
1/31/22	100
4/30/22	78
7/31/22	96
10/31/22	100
1/31/23	100

TRA6C % Survival Static 48Hr Acute Pimephales promelas / Location T / Season 1 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
7/1/11	12/31/12	Composite	Quarterly

Limit	
Limit Unit Desc	Percent
Statistical Base	INST MIN
Limit Value	
DMR Values	
2/28/18	NODI=9
3/31/18	NODI=9
5/31/18	NODI=9
6/30/18	NODI=9
8/31/18	NODI=9
9/30/18	NODI=9
11/30/18	NODI=9
12/31/18	NODI=9
2/28/19	NODI=9
3/31/19	NODI=9
5/31/19	NODI=9
6/30/19	NODI=9
8/31/19	NODI=9
9/30/19	NODI=9
11/30/19	NODI=9
12/31/19	NODI=9
2/29/20	NODI=9
3/31/20	NODI=9
5/31/20	NODI=9
6/30/20	NODI=9
8/31/20	NODI=9
9/30/20	NODI=9
11/30/20	NODI=9
12/31/20	NODI=9
2/28/21	NODI=9
3/31/21	NODI=9
5/31/21	NODI=9
6/30/21	NODI=9
8/31/21	NODI=9
9/30/21	NODI=9
11/30/21	NODI=9
12/31/21	NODI=9

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 0011

TRA6C % Survival Static 48Hr Acute Pimephales promelas / Location T / Season 1 / Base

DMR Values	
2/28/22	NODI=9
3/31/22	NODI=9
5/31/22	NODI=9
6/30/22	NODI=9
8/31/22	NODI=9
9/30/22	NODI=9
11/30/22	NODI=9
12/31/22	NODI=9
2/28/23	Not Received

Outfall 001A

00722 Cyanide, free [amenable to chlorination] / Location 1 / Season 0 / Base

Limit Start Date	Limit End Date	Sample Type	Frequency of Analysis
1/1/08	12/31/12	Grab Average	Weekly

Limit		
Limit Unit Desc	Milligrams per Liter	Milligrams per Liter
Statistical Base	MO AVG	DAILY MX
Limit Value	.32	.86
DMR Values		
2/28/18	.01	.03
3/31/18	.008	.01
4/30/18	0	0
5/31/18	0	0
6/30/18	.013	.05
7/31/18	.005	.01
8/31/18	0	0
9/30/18	0	0
10/31/18	0	0
11/30/18	.001	.003
12/31/18	.01	.02
1/31/19	.01	.06
2/28/19	.022	.037
3/31/19	.028	.042
4/30/19	.009	.032
5/31/19	.022	.067
6/30/19	.029	.087
7/31/19	.023	.035
8/31/19	.013	.033
9/30/19	.014	.027
10/31/19	.013	.032
11/30/19	.041	.095
12/31/19	.011	.02
1/31/20	.041	.068
2/29/20	.021	.06
3/31/20	.011	.025
4/30/20	0	0
5/31/20	.061	.2
6/30/20	.018	.037

DMR Summary

2/1/2018 12:00:00 AM to 3/1/2023 12:00:00 AM

Permit CT0001180

Version # 0

Outfall 001A

00722 Cyanide, free [amenable to chlorination] / Location 1 / Season 0 / Base

DMR Values		
7/31/20	.032	.045
8/31/20	.062	.103
9/30/20	.04	.08
10/31/20	.042	.085
11/30/20	.025	.04
12/31/20	.025	.043
1/31/21	.012	.038
2/28/21	.03	.065
3/31/21	.047	.097
4/30/21	.085	.172
5/31/21	.074	.107
6/30/21	.061	.074
7/31/21	.038	.077
8/31/21	.018	.052
9/30/21	.015	.045
10/31/21	.025	.062
11/30/21	.0237	.1
12/31/21	.0617	.092
1/31/22	.0271	.0633
2/28/22	.0942	.1783
3/31/22	.0803	.1733
4/30/22	.0204	.045
5/31/22	.003	.007
6/30/22	.057	.105
7/31/22	.027	.05
8/31/22	.089	.185
9/30/22	.069	.147
10/31/22	.088	.267
11/30/22	.049	.163
12/31/22	.053	.107
1/31/23	.041	.133
2/28/23	Not Received	Not Received

ATTACHMENT 10 TECHNOLOGY-BASED LIMITS

DSN 001-1 WASTESTREAMS	Average Process Wastewater Flow (gpd)	Average Non-Process Wastewater Flow (gpd)	Average Cyanide-Bearing Wastewater Flow (gpd)
<i>Treated metal finishing and cleaning rinsowaters; Laboratory wastewater; Water Treatment Wastewater; Drum rinsing wastewaters; Tumbling wastewaters; Groundwater remediation wastewater; Floorwash water/Building maintenance wastewater; Air scrubber wastewater</i>	159,847		
<i>Boiler blowdown; Air compressor condensate/blowdown; Fire suppression test water</i>		153	
<i>Cyanide-bearing wastewaters</i>			49,242
	159,847	153	49,242

PROCESS FLOW: 159,847 gpd 99.90%
TOTAL FLOW: 160,000 gpd

PARAMETER	FLOWS		40 CFR 433.16		ADJUSTED 40 CFR 433.16		ADJUSTED 40 CFR 433.16		RCSA 22a-430-4(s)		ADJUSTED RCSA 22a-430-4(s)		ADJUSTED RCSA 22a-430-4(s)	
	PROCESS WASTE-WATERS	TOTAL FLOW (PROCESS + NON-PROCESS FLOWS)	AVERAGE MONTHLY LIMIT (mg/L)	MAXIMUM DAILY LIMIT (mg/L)	AVERAGE MONTHLY LIMIT (mg/L)	MAXIMUM DAILY LIMIT (mg/L)	AVERAGE MONTHLY LIMIT (g/day)	MAXIMUM DAILY LIMIT (g/day)	AVERAGE MONTHLY LIMIT (mg/L)	MAXIMUM DAILY LIMIT (mg/L)	AVERAGE MONTHLY LIMIT (mg/L)	MAXIMUM DAILY LIMIT (mg/L)	AVERAGE MONTHLY LIMIT (g/day)	MAXIMUM DAILY LIMIT (g/day)
Aluminum, Total	159,847	160,000							2.0	4.0	2.0	4.0	1211	2422
Cadmium, Total	159,847	160,000	0.07	0.11	0.07	0.11	42	67	0.07	0.11	0.07	0.11	42	67
Chromium, Total	159,847	160,000	1.71	2.77	1.71	2.77	1036	1677	1.0	2.0	1.0	2.0	605	1211
Copper, Total	159,847	160,000	2.07	3.38	2.07	3.38	1253	2047	1.0	2.0	1.0	2.0	605	1211
Cyanide, Amenable	159,847	160,000							0.1	0.2	0.1	0.2	61	121
Cyanide, Total*	49,242	160,000	0.65	1.20	0.20	0.37	121	224	0.65	1.2	0.20	0.37	121	224
Fluoride	159,847	160,000							20	30	20	30	12110	18164
Gold, Total	159,847	160,000							0.1	0.5	0.1	0.5	61	303
Iron, Total	159,847	160,000							3.0	5.0	3.0	5.0	1816	3027
Lead, Total	159,847	160,000	0.43	0.69	0.43	0.69	260	418	0.1	0.5	0.1	0.5	61	303
Nickel, Total	159,847	160,000	2.38	3.98	2.38	3.98	1441	2410	1.0	2.0	1.0	2.0	605	1211
Oil & Grease	159,847	160,000	26	52	26	52	15743	31485	10		10		6055	
pH	159,847	160,000	6.0	9.0										
Silver, Total	159,847	160,000	0.24	0.43	0.24	0.43	145	260	0.1	0.5	0.1	0.5	61	303
Tin, Total	159,847	160,000							2.0	4.0	2.0	4.0	1211	2422
Total Suspended Solids	159,847	160,000	31	60	31	60	18770	36328	20	30	20	30	12110	18164
TTO	159,847	160,000		2.13		2.13								
Zinc, Total	159,847	160,000	1.48	2.61	1.48	2.61	896	1580	1.0	2.0	1.0	2.0	605	1211

*If technology-based limit is met end of pipe, and not internally. (Guidance Manual for Electroplating and Metal Finishing Pretreatment Standards, Section 5.4.2)

ATTACHMENT 11

DISCHARGE AND RECEIVING WATER INFORMATION

Summit's discharge, DSN 001-1, consists primarily of treated metal finishing wastewaters. The treated effluent is conveyed to the sidebank of the river located on the western eastern of the Naugatuck River. The width of the river in the vicinity of the discharge is approximately 48 feet. The Waterbody Segment ID for this portion of the river is CT5200-00_01 with a designation as Class B. Class B waters are designated for: habitat for fish and other aquatic life and wildlife; recreation; and industrial and agricultural water supply. This waterbody segment is identified on the 2016 *Integrated Water Quality Report* as an impaired waterbody. There are two impaired designated uses associated with this waterbody: 1) An impairment to the habitat for fish, other aquatic life, and wildlife due to whole effluent toxicity, and 2) an impairment to recreation due to *Escherichia coli* (E. coli). Total Maximum Daily Loads (TMDLs) have been adopted and approved for each impairment.



ALLOCATION OF MIXING ZONES

The Connecticut *Water Quality Standards* (WQS) allow for the allocation of mixing zones (“zones of influence”). Mixing zones are portions of the receiving water where water quality criteria are allowed to be exceeded. In cases where mixing zones are allocated, applicable water quality criteria are required to be met at the edge of the mixing zone. Allocations of mixing zones are made on a case-by-case basis in consideration of the criteria set forth in RCSA section 22a-426-4(I). In establishing mixing zones, the Commissioner shall consider:

RCSA 22a-426-4(l)(1)(A): the characteristics of the discharge, such as its volume, strength, temperature and the persistence of any substances in the discharge, potential bioaccumulation or bioconcentration of these substances in aquatic organisms, and the potential for any substances, either singly or in combination with other substances present in the discharge or receiving surface water body to result in an unacceptable risk to human health or the environment;

RCSA 22a-426-4(l)(1)(B): an allowance for a continuous zone of passage for free swimming and drifting organisms;

RCSA 22a-426-4(l)(1)(C): the effect of the discharge on spawning grounds or nursery areas of sensitive aquatic organisms or areas utilized by aquatic organisms for shelter and living space;

RCSA 22a-426-4(l)(1)(D): the effect of the discharge on the aesthetic quality of the receiving water including but not limited to the potential to cause objectionable deposits, floating debris, oil, scum, and other materials that form nuisances or produce objectionable color, odor, taste, or turbidity, or that may attract undesirable aquatic life or wildlife, or result in the dominance of nuisance species;

RCSA 22a-426-4(l)(1)(E): the location of other discharges in the receiving surface water body to ensure that the cumulative effect of adjacent zones of influence will not significantly reduce the environmental value or preclude any existing or designated uses of the receiving surface water. Assessment of environmental value will be based on the characteristics of the receiving surface water including but not limited to: (A) type of water body; (B) velocity; (C) depth; (D) number and type of

aquatic habitats; (E) migration patterns; (F) nature of the food chain; (G) level of productivity; (H) water temperature; (I) condition of associated biological communities; (J) ability of tributaries to provide biological recruitment; (K) presence of endangered species; and (L) value to human uses (such as aesthetic, commercial, sport fishing and recreational uses).

In addition, the following shall apply:

RCSA 22a-426-4(l)(3): Unless otherwise indicated in sections 22a-426-2 to 22a-426-9, inclusive, of the Regulation of Connecticut State Agencies, the applicable water quality criteria apply outside the zone of influence for a discharge.

RCSA 22a-426-4(l)(4): The zone of influence shall be limited to the maximum extent possible.

RCSA 22a-426-4(l)(5): Establishment of a zone of influence shall not preclude attainment of any existing or designated uses of the receiving surface waters.

RCSA 22a-426-4(l)(6): The area and volume of receiving water allocated to zones of influence shall be determined based on the unique physical, chemical and biological characteristics of the receiving surface water body.

RCSA 22a-426-4(l)(7): The Commissioner may require applicants to provide information on receiving surface water and wastewater characteristics including the volume of flow and area required for mixing and assimilation of waste.

RCSA 22a-426-4(m)(1) The 7Q10 is the minimum flow to which the Connecticut Water Quality Standards for surface waters apply, except when a surface water is regulated by dams or water withdrawals sanctioned by law to result in flows below that level. In such cases the Connecticut Water Quality Standards apply to that low flow determined by section 26-141a-1, et seq. of the Regulations of Connecticut State Agencies; sections 22a-365 to 22a-378a, inclusive, of the general statutes; or 16 USC 791a et seq.

RCSA 22a-426-4(m)(3) The Commissioner may approve discharge limitations based on minimum average daily flow in excess of 7Q10 conditions, provided the Commissioner is satisfied that special measures will be implemented during low flow conditions which provide protection to the environment at least as effective as that protection which would pertain if limitations were based solely on 7Q10 conditions.

CONDITIONS FOR MIXING ZONE ALLOCATION

Several criteria need to be evaluated in order to determine whether a mixing zone can be allocated. These factors are as follows:

- **Characteristics of the Discharge:** The WQS require that the volume, strength and persistence of the discharge be considered when allocating a mixing zone. The subject discharge consists primarily of treated metal finishing wastewaters from the site. The pollutants in the discharge include varying concentrations of heavy metals. In general, mixing zones are allocated to those pollutants which require some level of in-stream dilution (i.e., the numeric criteria cannot consistently be met end-of-pipe), provided that treatment, or at a minimum BMPs, are implemented to reduce the pollutant levels in the discharge. In this case, the subject effluent is treated on-site prior to discharge. To the extent that any of the pollutants in the discharge have a human health designation of either "A" (Known Human Carcinogen), "C" (Probable or Possible Carcinogen), or "HB" ("High Potential to Bioaccumulate or Bioconcentrate), no mixing zone applies.
- **Conditions of the Receiving Water:** The WQS require that the area and volume of the receiving water allocated for a mixing zone be determined based on the unique physical, chemical, and biological characteristics of the receiving water. Among other things, the assimilative capacity of the receiving stream is considered. That is, does the receiving stream have the capacity to provide dilution to the discharge. The permittee has collected some information concerning the pollutant levels in the receiving stream upstream of the discharge as part of its annual chronic toxicity requirements. Based on this data, the average concentration for copper is higher than the ambient water quality criteria in the WQS so, the receiving stream does not have the capacity to provide dilution for this pollutant. Therefore, no mixing zone is allocated to copper.
- **Prevention of Acutely Toxic Conditions.** Among other thing, the WQS require that discharges to surface waters do not cause acute or chronic toxicity to freshwater and marine aquatic life. Acutely toxic conditions are defined as those lethal to aquatic organisms that may pass through the mixing zone. In allowing a mixing zone, an assumption is made that a small area near the outfall can exist where pollutant values are in excess of, but below, acutely toxic conditions, and that such conditions can exist without causing adverse effects to the overall waterbody. If an analysis of concentrations and hydraulic residence times within the mixing zone indicates that organisms drifting through the plume along the path of maximum exposure would not be

exposed to concentrations exceeding the acute criteria when averaged over the 1-hour averaging period for acute criteria, then lethality to swimming or drifting organisms should not be expected. In many situations, travel time through the acute mixing zone must be less than roughly 15 minutes if a 1-hour average exposure is not to exceed the acute criterion.

- **Aesthetics:** The WQS require that the effect of the discharge on the aesthetic quality of the receiving water be considered. This includes, but is not limited to, the potential to cause objectionable deposits, floating debris, oil, scum, and other materials that form nuisances or produce objectionable color, odor, taste, or turbidity, or that may attract undesirable aquatic life or wildlife, or result in the dominance of nuisance species. Allocation of a mixing zone in this case is not expected to cause aesthetic issues with the receiving water.
- **Overall Effect of the Discharge on Aquatic Life, including Endangered Species, and the Spawning Grounds:** The WQS require consideration of the effect of the discharge on spawning grounds or nursery areas of sensitive aquatic organisms or areas utilized by aquatic organisms for shelter and living space, and an allowance for a continuous zone of passage for free swimming and drifting organisms. Allocation of a mixing zone in this case is not expected to effect the aquatic life in the area, its movement, or any spawning or nursery grounds.
- **Location of the discharge in relation to other dischargers.** The WQS require a consideration of the location of the discharge as it relates to the location of other dischargers in the receiving water body to ensure that the cumulative effect of adjacent mixing zones will not significantly reduce the environmental value or preclude any existing or designated uses of the receiving surface water. There are several other dischargers in the vicinity of Summit. [See map below]. No overlapping of mixing zones would occur between this discharge and any other in the area.



CALCULATION OF THE MIXING ZONE

The WQS specify that the 7Q10 flow is the minimum flow that applies to the water quality criteria. The 7Q10 flow was determined from a USGS gauging station on the Naugatuck River located approximately 0.5 mile upstream of UniMetal (USGS 01206900) which collects daily river flow data.

01206900 NAUGATUCK RIVER AT THOMASTON, CT

LOCATION - Lat 41°40'25", long 73°04'12" referenced to North American Datum of 1927, Litchfield County, CT, Hydrologic Unit 01100005, on left bank at downstream side of bridge on U.S. Rts. 6 and 202 at Thomaston, 1.5 mi downstream from Thomaston Reservoir, 2.5 mi upstream from Branch Brook, and at mile 29.5.

DRAINAGE AREA - 99.8 mi².

[REVISIONS HISTORY](#) - WDR CT-76-1: 1975. WDR CT-83-1: Drainage area.

SURFACE-WATER RECORDS

PERIOD OF RECORD - October 1959 to current year.

GAGE - Water-stage recorder. Datum of gage is 354.39 ft above National Geodetic Vertical Datum of 1929. Telephone telemetry at station. Satellite telemetry at station.

REMARKS - Water Years 2014-2016: Records good except for periods of estimated daily discharges, which are fair. Peak flows are affected by flood-control regulation at Thomaston Dam, Hall Meadow Brook Dam, and East Branch Dam. The natural flow regime can be altered by regulation at Thomaston Dam, Hall Meadow Brook Dam, and East Branch Dam.

EXTREMES OUTSIDE PERIOD OF RECORD - Flood of Aug. 19, 1955, reached a stage of 27.0 ft, from floodmarks by Corps of Engineers, discharge, 53,400 ft³/s, from indirect measurements of peak flow on Naugatuck River, 71.9 mi², and Leadmine Brook, 24.0 mi², adjusted for intervening drainage area.

The 7Q10 flow at USGS 01206900 is **10.965 cfs**, based on 55 years of available daily flow records from 1961 to 2018. USGS's SW Toolbox was used to determine the 7Q10 flow. Data generated from the program is as follows:

Frequency_Statistics_report - Notepad

File Edit Format View Help

Program SWStat U.S. GEOLOGICAL SURVEY Seq 00001
 Ver. 5.0 Log-Pearson & Pearson Type III Statistics Run Date / Time
 03/13/2018 based on USGS Program A193 7/4/2018 7:55 AM

Notice -- Log-Pearson Type III or Pearson Type III distributions are used for these computations. Users are responsible for assessment and interpretation.

Description: 01206900 NAUGATUCK RIVER AT THOMASTON, CT
 Year Boundaries: April 1 - March 31
 Period in report: April 1, 1961 - March 31, 2018
 Parameter: 7-day low
 Non-zero values: 55
 Zero values: 0
 Negative values: 2 (ignored)

Input time series (zero and negative values not included in listing.)

17.857	12.571	17.571	9.771	15.286	13.286	26.143	19.429
30.571	16.286	18.143	27.714	23.714	20.429	37.714	19.286
18.286	18.857	21.714	12.429	18.571	20.000	13.571	22.743
24.586	19.271	16.571	17.143	24.143	18.429	15.143	31.429
11.429	31.286	10.143	26.429	17.143	12.571	10.243	32.857
12.429	9.544	38.743	31.057	8.371	22.143	9.117	34.743
34.729	11.386	33.943	17.729	39.600	13.886	10.970	

LOG PEARSON TYPE III Frequency Curve Parameters
(based on logs of the non-zero values)

Mean (logs)	1.272
Variance (logs)	0.033
Standard Deviation (logs)	0.181
Skewness (logs)	0.016
Standard Error of Skewness (logs)	0.322
Serial Correlation Coefficient (logs)	-0.277
Coefficient of Variation (logs)	0.142

Frequency Curve - Parameter values at selected probabilities

Non-exceedance Probability	Recurrence Interval	Parameter Value	Variance of Estimate	95-Pct Confidence Intervals	
				Lower	Upper
0.1000	10.00	10.965	1.002	9.158	12.504

N-Day_Low_Annual_Time_Series_and_Ranking - Notepad

File Edit Format View Help

N-Day Low Annual Time Series and Ranking
 STADID 01206900
 STANAM NAUGATUCK RIVER AT THOMASTON, CT

Year	Low	Date	Rank
1962	17.857	1961/08/19 24:00	25
1963	12.571	1962/09/14 24:00	12
1964	17.571	1963/09/11 24:00	23
1965	9.7714	1964/09/27 24:00	4
1966	15.286	1965/08/01 24:00	18
1967	13.286	1966/09/03 24:00	14
1968	26.143	1967/09/20 24:00	42
1969	19.429	1968/09/02 24:00	33
1970	30.571	1969/09/27 24:00	45
1971	16.286	1970/08/13 24:00	19
1972	18.143	1971/07/17 24:00	26
1973	27.714	1972/09/12 24:00	44
1974	23.714	1973/08/27 24:00	39
1975	20.429	1974/08/16 24:00	35
1976	37.714	1975/07/09 24:00	53
1977	19.286	1976/07/23 24:00	32
1978	18.286	1977/09/05 24:00	27
1979	18.857	1978/09/16 24:00	30
1980	21.714	1979/07/15 24:00	36
1981	12.429	1980/09/17 24:00	10
1982	16.571	1981/09/06 24:00	29
1983	20	1982/09/20 24:00	34
1984	13.571	1983/09/20 24:00	15
1985	22.743	1984/10/01 24:00	38
1986	24.586	1985/09/24 24:00	41
1987	19.271	1986/09/20 24:00	31
1988	16.571	1987/08/26 24:00	10
1989	17.143	1988/07/11 24:00	21
1990	24.143	1989/09/13 24:00	40
1991	18.429	1990/08/05 24:00	28
1992	15.143	1991/07/21 24:00	17
1993	31.429	1992/10/08 24:00	48
1994	11.429	1993/08/08 24:00	9
1995	31.286	1994/07/22 24:00	47
1996	10.143	1995/09/12 24:00	5
1997	26.429	1996/09/06 24:00	43
1998	17.143	1997/10/24 24:00	22
1999	12.571	1998/09/21 24:00	13
2000	10.243	1999/08/08 24:00	6
2001	32.857	2000/10/17 24:00	49
2002	12.429	2001/09/09 24:00	11
2003	9.5443	2002/08/19 24:00	3
2004	38.743	2003/09/01 24:00	54
2005	31.057	2004/09/07 24:00	46
2006	8.3714	2005/09/14 24:00	1
2007	22.143	2006/08/14 24:00	37
2008	9.1171	2007/10/08 24:00	2
2009	34.743	2008/09/02 24:00	52
2010	34.729	2009/09/26 24:00	51
2011	11.386	2010/09/26 24:00	8
2012	33.943	2011/08/06 24:00	50
2013	17.729	2012/07/15 24:00	24
2014	39.6	2013/10/05 24:00	55
2015	13.886	2014/09/30 24:00	16
2016	10.97	2015/09/29 24:00	7
2017	Missing	2016/09/10 24:00	
2018	Missing	?	

The drainage area at the USGS station is 99.8 mi². The drainage area at Summit's discharge point, DSN 001-1, is 136 mi².

StreamStats Report

Region ID: CT
 Workspace ID: CT20180809130514364000
 Clicked Point (Latitude, Longitude): 41.62741, -73.07003
 Time: 2018-08-09 09:05:35 -0400



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CRSDFT	Percentage of area of coarse-grained stratified drift	3.99	percent
DRNAREA	Area that drains to a point on a stream	136	square miles
ELEV	Mean Basin Elevation	935	feet

Therefore, the 7Q10 flow at Summit, adjusted using the ratio of the drainage areas, is **14.94 cfs**:

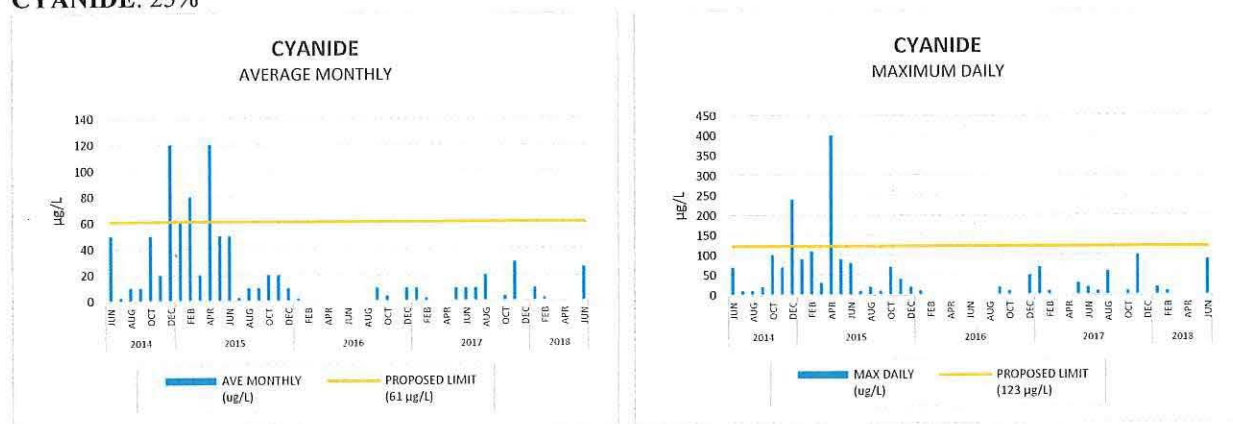
$$7Q10\ Flow_{Summit} = 7Q10\ Flow_{USGS\ 01206900} * \frac{Drainage\ Area_{Summit}}{Drainage\ Area_{USGS\ 01206900}}$$

$$7Q10\ Flow_{Summit} = 10.965 * \frac{136}{99.8} = 14.94\ cfs$$

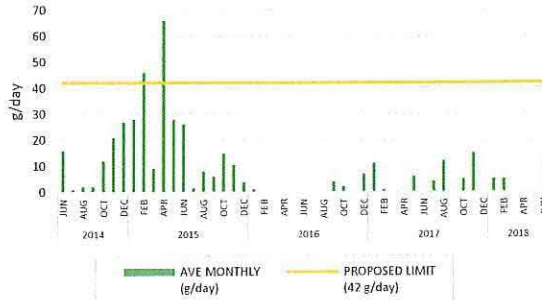
MIXING ZONE ALLOCATIONS

Mixing zones are required to be limited to the maximum extent possible and are allocated on a case-by-case basis contingent on several factors, including the physical, chemical, and biological characteristics of the discharge and the receiving system; the organisms in the receiving system; and a determination that the assimilative capacity of the receiving system. In this case, the following mixing zones were allocated:

CYANIDE: 25%



CYANIDE
AVERAGE MONTHLY



CYANIDE
MAXIMUM DAILY

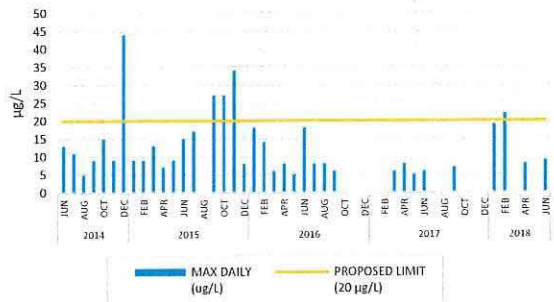


LEAD: 25%

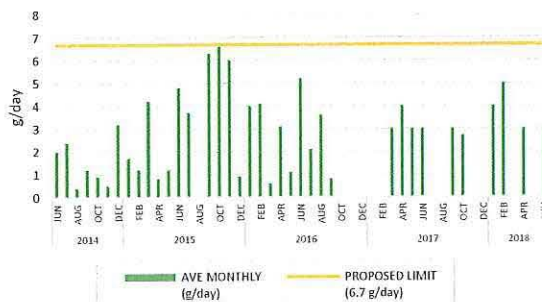
LEAD
AVERAGE MONTHLY



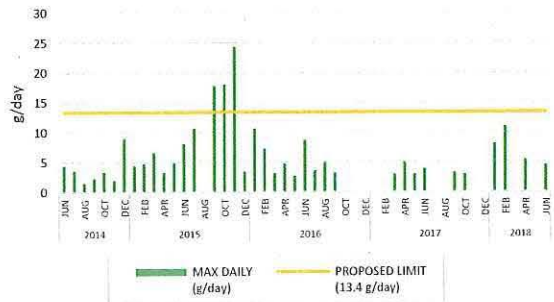
LEAD
MAXIMUM DAILY



LEAD
AVERAGE MONTHLY



LEAD
MAXIMUM DAILY

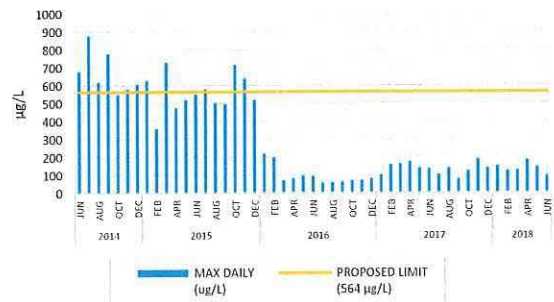


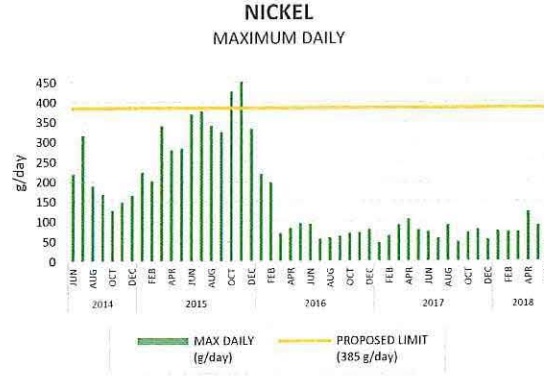
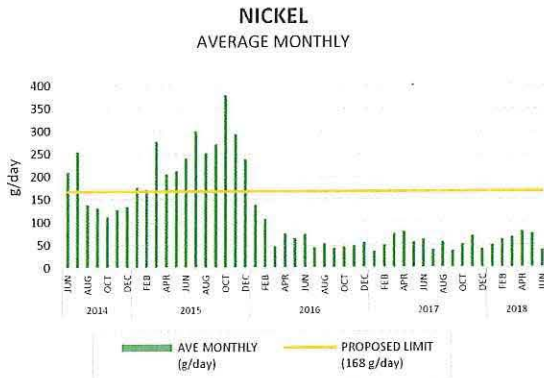
NICKEL: 25%

NICKEL
AVERAGE MONTHLY

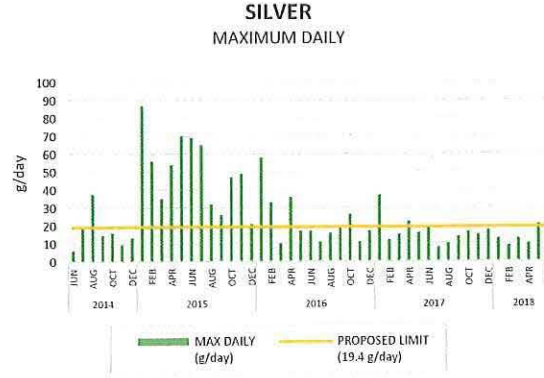
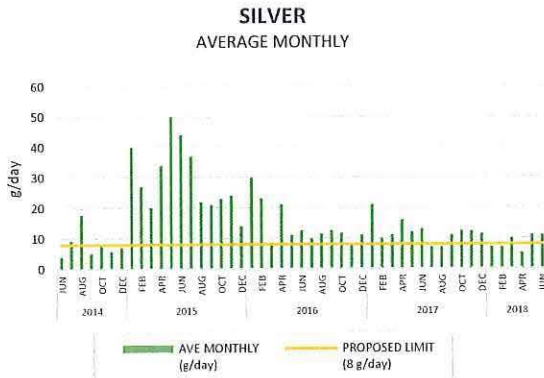


NICKEL
MAXIMUM DAILY





SILVER: 50%



In addition, the pH range of the receiving stream (6.33-7.77) should provide assimilation for the pH of the effluent (6.08 to 8.94) to achieve the Class B pH standards (6.5 to 8.0).

SPECIAL CONDITIONS

None.

BACKSLIDING

Backsliding is not an issue for any pollutant. See Attachment 12.

REFERENCES

Connecticut Department of Energy and Environmental Protection. 2017. *2016 Integrated Water Quality Report*, Bureau of Water Protection and Land Reuse, Hartford, Connecticut

Kiang, J.E., Flynn, K.M., Zhai, Tong, Hummel, Paul, and Granato, Gregory, 2018, SWToolbox: A surface-water toolbox for statistical analysis of streamflow time series: U.S. Geological Survey Techniques and Methods, book 4, chap. A-11, 33 p., <https://doi.org/10.3133/tm4A11>.

U.S. EPA. 1991. *Technical Support Document For Water Quality-based Toxics Control*, EPA-505-2-90-001

U.S. EPA. 2010. *NPDES Permit Writers' Manual*, Office of Wastewater Management, Water Permits Division. EPA-833-K-10-001.

U.S. Geological Survey, 2016, National Water Information System data available on the World Wide Web (USGS Water Data for the Nation), at URL <http://waterdata.usgs.gov/nwis/>

Attachment 12

Water Quality-Based Limits

Facility: Summit Corporation of America, Thomaston

DSN: 001-1 **Average Monthly Flow:** 160,000 gpd **Duration of Discharge:** 24 hrs/day **7q10:** 14.94 cfs

% Allocation	50%	7.5 cfs
Dilution Factor	31.2:1	

% Allocation	25%	3.74 cfs
Dilution Factor	16.1:1	

POLLUTANT	A, C, or HB	Water Quality Criteria October 10, 2013			CV	Dilution Factor	Naugatuck River Concentration ug/L	WLA (acute) ug/L	WLA (chronic) ug/L	WLA (human health) ug/L	LTA (acute)	LTA (chronic)	LTA (human Health)	Limiting LTA	Limiting Criteria	Anticipated Number of Samples per Month	Average monthly Limit ug/L	Maximum Daily Limit ug/L	Instantaneous Limit ug/L	Average Monthly Limit g/day	Maximum Daily Limit g/day
		Aquatic Life		Human Health (Fish Consumption) ug/L																	
		Acute	Chronic																		
		ug/L	ug/L																		
Cadmium		1.0	0.125	10,769	0.6	1.0	1.0	0.125	10,769	0.32	0.065	10769	0.065	Chronic	1	.089	.20	.3	0.053	0.12	
Chromium		323	42	1,009,615	0.6	1.0	323	42	1,009,615	104	22	1009615	22	Chronic	1	26	68	103	16	41	
Copper		25.7	18.1		0.4	16.1	8	292	170	124	107		107	Chronic	4	119	251	377	71	151	
Cyanide		22	5.20	140	0.6	16.1	0	353	83	2249	113	44	2249	44	Chronic	4	51	137	205	30	82
Lead		30	1.2		0.6	16.1	0.40	475	13	153	7		7	Chronic	4	8.1	21	32	4.8	13	
Nickel		260.5	28.9	4,600	0.8	16.1	7.2	4075	355	73,770	1,004	155	73770	155	Chronic	4	190	628	943	114	377
Silver		1.02		107,692	0.6	31.2		31.7		3351479	10		3351479	10	Acute	4	11	31	47	7.1	19
Zinc		65	65	26,000	0.6	16.1	25	667	667	417195	214	352	417195	214	Acute	4	249	667	1001	149	400

No dilution is necessary for Cadmium or Chromium. The water quality criteria can be met end-of-pipe.

Notes

Criteria:

State of Connecticut's Water Quality Standards, Effective February 25, 2011

"A" = Class A Carcinogen, "C" = Carcinogenic, "HB" = High potential to bioaccumulate or bioconcentrate

Site-Specific Criteria for Copper:

Site Specific Criteria exists for copper for the Naugatuck River from the Torrington POTW to confluence with the Housatonic

DSN 001-1 discharges into this section of the waterbody

Coefficient of Variance (CV):

CV= Mean/Standard Deviation CVs were calculated from the DMR data

Dilution Factor:

$[(\% \text{ Allocation} * 7Q_{10} \text{ Flow of River at Site}) + \text{Average Monthly Effluent Flow}] / \text{Average Monthly Effluent Flow}$

Background Data:

Naugatuck River water from Summits

Wasteload Allocation (WLA):

$WLA (\text{acute, chronic, human health}) = [(\text{Criteria}) * (\text{Dilution Factor})] - [\text{Maximum Background Receiving Water Concentration} * (\text{Dilution Factor} - 1)]$

Long Term Average (LTA):

$LTA (\text{acute}) = WLA_{\text{acute}} * \exp[.5\sigma^2 - z\sigma]$ $LTA (\text{chronic}) = WLA_{\text{chronic}} * \exp[.5\sigma^2 - z\sigma]$ $LTA (\text{human health}) = WLA_{\text{human health}}$

Limiting LTA:

Limiting LTA is the lowest LTA of the applicable criteria

Samples/Month:

A value of "4" is used for weekly monitoring frequency, "1" is used for a frequency of monthly or any period less frequent than monthly.

Average Monthly Limit (mg/L):

$AML (\text{acute, chronic}) = LTA_{\text{acute, chronic}} * \exp [z \sigma - .5 \sigma^2]$

$AML (\text{human health}) = WLA_{\text{human health}}$

Maximum Daily Limit (mg/L):

$MDL (\text{acute, chronic}) = LTA_{\text{acute, chronic}} * \exp [z \sigma - .5 \sigma^2]$

$MDL (\text{human health}) = WLA_{\text{human health}} * \exp [z \sigma - .5 \sigma^2]$

Average Monthly Limit (kg/day): $AML (\text{kg/day}) = ((AML (\text{mg/L}) * .000001 * \text{Average Monthly Flow}) / 0.264) / 1000$

Maximum Daily Flow (kg/day): $MDL (\text{kg, day}) = ((MDL (\text{mg/L}) * .000001 * \text{Average Monthly Flow}) / 0.264) / 1000$

Attachment 13

Reasonable Potential Analysis

Discharger: Summit Corporation of America

Receiving Water: Naugatuck River

Type: Freshwater

DSN: 001-1

Average Flow: 160,000 gpd 0.248 cfs

7Q10 Flow of Receiving Water @ Site: 14.94 cfs

Allocation: 50% 25%

Dilution Factor 31.2 16.1

Dilution Factor _{A, C, HB} 1.0

POLLUTNAT	A, C, or HB	Water Quality Criteria			Maximum Measured Effluent Concentration ug/L	Total Observation for Maximum Effluent Concentration	C V	Multiplier	Dilution Factor	Naugatuck River Concentration ug/L	Receiving Water Concentration (acute) ug/L	Receiving Water Concentration (chronic) ug/L	Receiving Water Concentration (human health) ug/L	Is there reasonable potential?
		Aquatic Life		Human Health (Fish Consumption) ug/L										
		Acute	Chronic											
		ug/L	ug/L											
Aluminum		750	87	460	80	0.6	1	16.1	71	95	95		YES	
Ammonia (Total As N) Summer		8,547	1,378	12000	80	0.4	0.92	16.1	210	886	886		NO	
Ammonia (Total As N) Winter		8,547	3,242	12000	80	0.4	0.92	16.1	210	886	886		NO	
Chlorine, Total Residual		19	11	28	79	0.6	1	31.2	532	6.6	6.6		NO	
Chloroform	C			470	328	0.7	0.82	1.0				328	NO	
Fluoride				25,200	80	0.9	0.74	1.0		1153	1153	1153	N/A, NO CRITERIA	
Iron			1000	250	80	0.7	0.69	1.0	398		386		NO	
Tin				220	80	0.6	1	1.0		13	13	820	NA/NO CRITERIA	

Notes: The criteria for Iron is from EPA's National Recommended Water Quality Criteria

Attachment 13

Water Quality-Based Limits for Pollutants with Reasonable Potential

Discharger: Summit Corporation of America

Receiving Water: Naugatuck River

Type: Freshwater

DSN: 001-1

Average Flow: 160,000 gpd 0.248 cfs

Dilution Factor 31.2 16.1

Dilution Factor _{A, C, HB} 1.0

POLLUTANT	A, C, or HB	Dilution Factor	WLA (acute) ug/L	WLA (chronic) ug/L	WLA (human health) ug/L	LTA (acute)	LTA (chronic)	LTA (Human Health)	Limiting LTA	Limiting Criteria	Anticipated Number of Samples per Month	Average monthly Limit ug/L	Maximum Daily Limit ug/L	Instantaneous Limit ug/L	Average Monthly Limit g/day	Maximum Daily Limit g/day
Aluminum		16.1		328			173		173	Chronic		201	538	808	122	326

REASONABLE POTENTIAL ANALYSIS AND WATER QUALITY-BASED LIMIT DETERMINATION SUMMARY SHEET

A “reasonable potential” analysis involves determining whether the facility’s discharge has the potential to cause, the reasonable potential to cause, or contributes to an excursion of the State’s water quality standards. The analysis involves an effluent characterization process designed to determine which pollutants have the potential to exceed the standards. If the pollutants have the potential or the reasonable potential to exceed the standards, water quality-based limits are required. The reasonable potential analysis and permit limit determinations are performed in accordance with the procedures outlined in the EPA Guidance Manual entitled *Technical Support Document for Water Quality Based Toxics Control*, March 1991.

Data Sources: Effluent Data: DMR Data: January 2018- January 2023

Background Datta: Naugatuck River water from Summit’s chronic toxicity testing 2008-2018.

Temperature: USGS Station 0120849 (All to 2018)

Determination of Freshwater or Saltwater Criteria:

EPA’s document *National Guidance of the Applicability of Freshwater and Saltwater Criteria* (EPA-822-R-02-047) is used to determine if freshwater criteria or saltwater criteria are appropriate. The document provides the following guidance:

If the receiving waters at the discharge point have salinity values less than 1 ppt, the discharge should be evaluated for freshwater criteria

If the receiving waters at the discharge point have salinity values between 1ppt and 10ppt, the discharge should be evaluated for the more stringent of the freshwater or saltwater criteria

If the receiving waters at the discharge point have salinity values greater than 10 ppt, the discharge should be evaluated for saltwater criteria

The salinity in the receiving water is: <1 ppt

Criteria: State of Connecticut's Water Quality Standards, October 10, 2013

EPA's National Recommended Water Quality Criteria

Site-Specific Criteria for Copper:

Site Specific criteria exists for copper for the following waterbodies in the state:

<u>Waterbody</u>	<u>Reach</u>
Banlam River	Litchfield POTW to confluence with Shepaug River
Blackberry River	Norfolk POTW to confluence with Roaring Brook North Canaan POTW to confluence with Housatonic River
Factory Brook	Salisbury POTW to mouth
Five Mile River	New Canaan POTW to Mouth
Hockanum River	Vernon POTW to confluence with Connecticut River
Mill Brook	Plainfield Village POTW to mouth
Naugatuck River	Torrington POTW to confluence with Housatonic River
Norwalk River	Ridgefield Brook to Branchville
Pequabuck River	Plymouth POTW to confluence with Farmington River
Poolatuck River	Newington POTW to confluence with Housatonic River
Quinnipiac River	Southington PTOW to Broadway, North Haven
Still River	Winsted POTW to confluence with Farmington River Lymekiln Brook to confluence with Housatonic River

If the receiving water concentration is greater than the concentration of the applicable criteria for that pollutant, there is reasonable potential for the discharge to cause an in-stream excursion.

If reasonable potential exists, water-quality based limits are included in the permit for the subject pollutant.

Should the receiving water concentration be sufficiently close to the applicable criteria, considering the degree of confidence in the values, the Department may include limits also.

Basis For Water-Quality Limit Determination:

If it is determined that reasonable potential exists, water-quality based permit limits are calculated as follows:

1. Determine the Waste Load Allocation (WLA for each applicable criteria:

$$WLA \text{ (acute, chronic, human health)} = [(Criteria) * (Dilution Factor)] - [Maximum Background Receiving Water Concentration * (Dilution Factor - 1)]$$

2. Determine the Long-Term Average (LTA) for each applicable criteria:

$$LTA \text{ (acute)} = WLA_{acute} * \exp[.5\sigma^2 - z\sigma] \quad LTA \text{ (chronic)} = WLA_{chronic} * \exp[.5\sigma_4^2 - z\sigma_4] \quad LTA \text{ (human health)} = WLA_{human \text{ health}}$$

3. Determine the limiting LTA (I.e., the lowest LTA of the applicable criteria)
4. Calculate the Average monthly Limit (AML)

$$AML \text{ (acute, chronic)} = LTA_{acute, chronic} * \exp [z \sigma - .5 \sigma^2] \quad AML \text{ (human health)} = WLA_{human \text{ health}}$$

5. Calculate the Maximum Daily Limit (MDL):

$$MDL \text{ (acute, chronic)} = LTA_{acute, chronic} * \exp [z \sigma - .5 \sigma^2] \quad MDL \text{ (human health)} = WLA_{human \text{ health}} * \exp [z \sigma - .5 \sigma^2]$$

Attachment 14
2018 to 2023 Toxicity Monitoring Results

Outfall - Monitoring Location - Limit Set: 001 - T - 1								
	% Survival Static 48Hr Acute Pimephales promelas	% Survival Static 48Hr Acute Pimephales promelas	%Surv Static 48Hr Acute Daphnia Pulex	%Surv Static 48Hr Acute Daphnia Pulex	Noael Static 48Hr Acute D. Pulex	Noael Static 48Hr Acute D. Pulex	Noael Static 48Hr Acute Pimephales	Noael Static 48Hr Acute Pimephales
	50 %	Mon %	50 %	Mon %	90 %	Mon %	90 %	Mon %
Mon Pd End Date:	INST MIN	INST MIN	INST MIN	INST MIN	INST MIN	INST MIN	INST MIN	INST MIN
06/30/2019		NODI: 9		NODI: 9		NODI: 9		NODI: 9
07/31/2019	100		100		100		100	
08/31/2019		NODI: 9		NODI: 9		NODI: 9		NODI: 9
09/30/2019		NODI: 9		NODI: 9		NODI: 9		NODI: 9
10/31/2019	100		94		100		100	
11/30/2019		NODI: 9		NODI: 9		NODI: 9		NODI: 9
12/31/2019		NODI: 9		NODI: 9		NODI: 9		NODI: 9
01/31/2020	92		100		100		100	
02/29/2020		NODI: 9		NODI: 9		NODI: 9		NODI: 9
03/31/2020		NODI: 9		NODI: 9		NODI: 9		NODI: 9
04/30/2020	100		94		98		100	
05/31/2020		NODI: 9		NODI: 9		NODI: 9		NODI: 9
06/30/2020		NODI: 9		NODI: 9		NODI: 9		NODI: 9
07/31/2020	100		100		100		100	
08/31/2020		NODI: 9		NODI: 9		NODI: 9		NODI: 9
09/30/2020		NODI: 9		NODI: 9		NODI: 9		NODI: 9

10/31/2020	98		98		100		100	
11/30/2020		NODI: 9		NODI: 9		NODI: 9		NODI: 9
12/31/2020		NODI: 9		NODI: 9		NODI: 9		NODI: 9
01/31/2021	98		96		100		100	
02/28/2021		NODI: 9		NODI: 9		NODI: 9		NODI: 9
03/31/2021		NODI: 9		NODI: 9		NODI: 9		NODI: 9
04/30/2021	100		96		100		100	
05/31/2021		NODI: 9		NODI: 9		NODI: 9		NODI: 9
06/30/2021		NODI: 9		NODI: 9		NODI: 9		NODI: 9
07/31/2021	84		100		100		98	
08/31/2021		NODI: 9		NODI: 9		NODI: 9		NODI: 9
09/30/2021		NODI: 9		NODI: 9		NODI: 9		NODI: 9
10/31/2021	96		100		100		98	
11/30/2021		NODI: 9		NODI: 9		NODI: 9		NODI: 9
12/31/2021		NODI: 9		NODI: 9		NODI: 9		NODI: 9
01/31/2022	100		100		100		100	
02/28/2022		NODI: 9		NODI: 9		NODI: 9		NODI: 9
03/31/2022		NODI: 9		NODI: 9		NODI: 9		NODI: 9
04/30/2022	78		98		100		100	
05/31/2022		NODI: 9		NODI: 9		NODI: 9		NODI: 9
06/30/2022		NODI: 9		NODI: 9		NODI: 9		NODI: 9
07/31/2022	96		94		100		100	
08/31/2022		NODI: 9		NODI: 9		NODI: 9		NODI: 9

09/30/20 22		NODI: 9		NODI: 9		NODI: 9		NODI: 9
10/31/20 22	100		92		98		100	
11/30/20 22		NODI: 9		NODI: 9		NODI: 9		NODI: 9
12/31/20 22		NODI: 9		NODI: 9		NODI: 9		NODI: 9
01/31/20 23	100		90		100		100	
02/28/20 23		NODI: 9		NODI: 9		NODI: 9		NODI: 9

Attachment 15

Anti-Backsliding Analysis

DSN 001-1

Parameter	Units	Existing Permit								Proposed Permit							
		AML	MDL	Sampling/ Reporting Frequency	Sample Type	IL	Sampling/ Reporting Frequency	Sample Type	Limit Basis	AML	MDL	Sampling/ Reporting Frequency	Sample Type	IL	Sampling/ Reporting Frequency	Sample Type	Limit Basis
Acute Toxicity, Daphnia pulex (NOAEL @ CTC of 52)	%	----	>90	Quarterly	DC	LC ₅₀ >52	NR	Grab	TMDL								
Acute Toxicity, Pimephales promelas (NOAEL @ CTC of 52)	%	----	>90	Quarterly	DC	LC ₅₀ >52	NR	Grab	TMDL								
Acute Toxicity, Daphnia pulex (Survival in 100%)	%	----	>50	Quarterly	DC	NA	NR	NA	TMDL								
Acute Toxicity, Pimephales promelas (Survival in 100%)	%	----	>50	Quarterly	DC	NA	NR	NA	TMDL								
Acute Toxicity, Daphnia pulex	%									LC ₅₀ >46.3	LC ₅₀ > 23	Quarterly	Daily Composite	LC ₅₀ > 7	NR	Grab	TMDL
Acute Toxicity, Pimephales promelas	%									LC ₅₀ > 46.3	LC ₅₀ > 23	Quarterly	Daily Composite	LC ₅₀ > 7	NR	Grab	TMDL
Chronic Aquatic Toxicity (Survival) ⁴ <i>Ceriodaphnia dubia</i>	%									C-NOEC > 4.6	C-NOEC > 2.3	Semi annual ⁵	Daily Composite	NA	NR	NA	TMDL
Chronic Aquatic	%									C-NOEC > 4.6	C-NOEC > 2.3	Semi annual ⁵	Daily Composite	NA	NR	NA	TMDL

Toxicity (Reproduction) ⁴ <i>Ceriodaphnia dubia</i>																	
Chronic Aquatic Toxicity (Survival) ⁵ <i>Pimephales promelas</i>	%									C-NOEC > 4.6	C-NOEC > 2.3	Semi annual ⁵	Daily Composite	NA	NR	NA	TMDL
Chronic Aquatic Toxicity (Growth) ⁵ <i>Pimephales promelas</i>	%									C-NOEC > 4.6	C-NOEC > 2.3	Semi annual ⁵	Daily Composite	NA	NR	NA	TMDL
Alkalinity	Mg/L									---	---	Weekly	Daily Composite	NA	NR	NA	BPJ
Aluminum	Ug/L	2000	4000	Weekly	DC	6.0	NR	Grab	State	201	538	Weekly	Daily Composite	808	NR	Grab	WQ
Aluminum	g/day									122	326	Weekly	Daily Composite	NA	NR	NA	WQ
Ammonia	Mg/L	10	20	Monthly	DC	30	NR	NA	BPJ	---	---	Monthly	Daily Composite	----	NR	Grab	WQ
Ammonia	Kg/day									---	---	Monthly	Daily Composite	NA	NR	NA	WQ
BOD ₅	Kg/day	42.7	----	Monthly	DC	NA	NR	BA	BPJ								
BOD ₅	Mg/L									30	50	Monthly	Daily Composite	75	NR	Grab	BPJ
BOD ₅	Lbs/day									40.0	---	Monthly	Daily Composite	NA	NR	NA	BPJ
Cadmium, Total	Ug/L	100	500	Semi-annual	DC	750	NR	Grab	STATE	0.08 ⁶	0.20	Annually	Daily Composite	0.30	NR	Grab	WQ
Cadmium, Total	g/day	23	46	Semi-annual	DC	NA	NR	NA	BPJ	0.05	0.12	Annually	Daily Composite	NA	NR	NA	WQ
Chloride, Total	Mg/l									---	---	Monthly	Daily Composite	NA	NR	NA	BPJ
Chlorine, Total Residual	Ug/L	115	232	Weekly	GSA	1000	NR	Grab	WQ	---	---	Weekly	Grab Sample Average	NA	NR	Grab	WQ
Chlorine, Total Residual	g/day									---	---	Weekly	Grab Sample Average	NA	NR	NA	WQ

Chloroform	µg/L									---	---	Monthly	Grab Sample Average	NA	NR	Grab	
Chloroform	g/day									---	---	Monthly	Grab Sample Average	NA	NR	Grab	
Chromium, Total	Ug/L	1000	2000	Semi-annual	DC	3000	NR	Grab	STATE	26	68	Semi annual	Daily Composite	103.4	NR	Grab	WQ
Chromium, Total	g/day									9.5	44	Semi annual	Daily Composite	NA	NR	NA	WQ
Copper, Total	Ug/L	474	876	Weekly	DC	1320	NR	Grab	BPJ	119	251	Weekly	Daily Composite	377	NR	Grab	WQ
Copper, Total	g/day	228	457	Weekly	DC	NA	NR	NA	BPJ	71	151	Weekly	Daily Composite	NA	NR	NA	WQ
Cyanide, Amenable	Ug/L	100	200	Weekly	GSA	300	NR	NA	STATE								STATE
Cyanide, Total	Ug/L	220	400	Weekly	GSA	600	NR	Grab	BPJ	51	137	Weekly	Grab Sample Average	205	NR	Grab	WQ
Cyanide, Total	g/day	193	386	Weekly	GSA	NA	NR	NA	BPJ	30	82	Weekly	Grab Sample Average	NA	NR	NA	WQ
Flow Rate (average Daily)	Gpd	330,000	NA	Continuou s	Flow	NA	NR	NA		160,000	NA	Daily	Total Daily Flow	NA	NR	NA	
Flow, maximum during 24 hours	Gpd	NA	400,000	Continuou s	Flow	NA	NR	NA		NA	250,000	Daily	Total Daily Flow	NA	NR	NA	
Flow (Day of Sampling)	Gpd	----	400,000	Weekly	Flow	NA	NR	NA		NA	250,000	Weekly	Total Daily Flow	NA	NR	NA	
Fluoride	Mg/L	20	30	Weekly	DC	45	NR	Grab	STATE	20	30	Monthly	Daily Composite	45	NR	Grab	STATE
Fluoride	Kg/L									12.1	18.1	Monthly	Daily Composite	NA	NR	Grab	STATE
Formaldehyde	Ug/L									---	---	Monthly	Daily Composite	NA	NR	NA	BPJ
Gold, Total	Mg/L	0.1	0.5	Weekly	DC	0.75	NR	Grab	STATE	0.1	0.5	Monthly	Daily Composite	0.75	NR	Grab	STATE
Gold, Total	g/day									61	303	Monthly	Daily Composite	NA	NR	Grab	STATE
Iron, Total	Mg/L	3.0	5.0	Weekly	DC	7.5	NR	Grab	STATE	3.0	5.0	Monthly	Daily Composite	7.5	NR	Grab	STATE
Iron, Total	g/day									1816	3027	Monthly	Daily Composite	NA	NR	Grab	STATE

Kjeldahl Nitrogen, Total (as N)	Mg/L	----	-	Weekly	DC	NA	NR	NA	BPJ	---	---	Weekly	Daily Composite	NA	NR	NA	BPJ
Lead, Total	Ug/L	16	48	Weekly	DC	150	NR	Grab	BPJ	8	21	Weekly	Daily Composite	32	NR	Grab	WQ
Lead, Total	g/day	7	13	Weekly	DC	639	NR	NA	BPJ	4.8	13	Weekly	Daily Composite	NA	NR	NA	WQ
Nickel, Total	Ug/L	653	1210	Weekly	DC	3000	NR	Grab	BPJ	190	628	Weekly	Daily Composite	943	NR	Grab	WQ
Nickel, Total	g/day	442	887	Weekly	DC	NA	NR	NA	BPJ	114	377	Weekly	Daily Composite	NA	NR	NA	WQ
Nitrate (as N)	Mg/L	----	----	Weekly	DC	NA	NR	NA	BPJ	---	---	Weekly	Daily Composite	NA	NR	NA	BPJ
Nitrite (as N)	mg/L	----	----	Weekly	DC	NA	NR	NA	BPJ	---	---	Weekly	Daily Composite	NA	NR	NA	BPJ
Nitrogen (Total)	Kg/day	17.7	NA	Weekly	DC	NA	NR	NA	BPJ								
Nitrogen (Total)	Lbs/day									26.7	---	Weekly	Calculated	NA	NR	NA	BPJ
Oil & Grease, Total	Mg/L	10.0	15.0	Weekly	GSA	20	NR	Grab	STATE	10	---	Weekly	Grab Sample Average	20	NR	Grab	STATE
Oil & Grease, Total	Kg/day									6.05	---	Weekly	Grab Sample Average	NA	NR	NA	STATE
pH, Minimum	SU	NA	NA	Nr	NA	6.0	Continuou s	RDM	BPT	NA	NA	NR	NA	6.0	Continuou s	Continu ous	NSPS
pH, Maximum	SU	NA	NA	NR	NA	9.0	Continuou s	RDM	BPT	NA	NA	NR	NA	9.0	Continuou s	Continu ous	NSPS
pH, Day of Sampling	SU	NA	NA	NR	NA	6.0- 9.0	Weekly	RDS	BPT	NA	NA	NR	NA	6.0 - 9.0	Weekly	Grab	NSPS
Phosphorus, total	Mg/L									---	---	Monthly	Daily Composite	NA	NR	NA	BPJ
Phosphorus, Total	Lbs/day									---	---	Monthly	Daily Composite	NA	NR	NA	BPJ
Silver, Total	Ug/L	100	430	Weekly	DC	NA	NR	NA	STATE	11	31	Weekly	Daily Composite	47	NR	Grab	WQ
Silver, Total	g/day	27	54	Weekly	DC	NA	NR	NA	BPJ	7.1	19	Weekly	Daily Composite	NA	NR	NA	WQ
Surfactants, Anionic	Mg/L	NA	----	Monthly	DC	NA	NR	NA	BPJ	---	---	Monthly	Daily Composite	NA	NR	NA	BPJ
Tin, Total	Mg/L	2.0	4.0	Weekly	DC	6.0	NR	Grab	STATE	2.0	4.0	Monthly	Daily Composite	6.0	NR	NA	STATE

Tin, Total	g/day									1211	2422	Monthly	Daily Composite	NA	NR	NA	STATE
Total Suspended Solids	mg/L	20	30	Weekly	DC	45	NR	Grab	STATE	20	30	Weekly	Daily Composite	45	NR	Grab	STATE
Total Suspended Solids	kg/day									12.1	18.1	Weekly	Daily Composite	NA	NR	NA	STATE
Total Toxic Organics	mg/l	NA	NA	NR	NA	1.0	Monthly	Grab	BPJ	NA	NA	NR	NA	1.0	Monthly	Grab	BPJ
Zinc, Total	ug/L	4000	2000	Weekly	DC	3000	NR	Grab	STATE	249	667	Weekly	Daily Composite	1,001	NR	Grab	WQ
Zinc, Total	g/day	28	65	Weekly	DC	3.0	NR	Grab	BPJ	149	400	Weekly	Daily Composite	NA	NR	NA	WQ