NPDES PERMIT
issued to

Summit Corporation of America
1430 Waterbury Road
Thomaston, Connecticut 06787

Location Address:

1430 Waterbury Road
Thomaston, Connecticut 06787

Facility ID: 140-011

Permit ID: CT0001180

Receiving Water Body: Naugatuck River

Effective Date:

Receiving Water Body ID: CT6900-00_05

Permit Expires: [5 years from effective date]

SECTION 1: GENERAL PROVISIONS

(A) This permit is reissued in accordance with Section 22a-430 of Chapter 446k, Connecticut General Statutes ("CGS"), and Regulations of Connecticut State Agencies ("RCSA") adopted thereunder, as amended, and Section 402(b) of the Clean Water Act ("CWA"), as amended, 33 USC 1251, *et. seq.*, and pursuant to an approval dated September 26, 1973, by the Administrator of the United States Environmental Protection Agency for the State of Connecticut to administer a NPDES permit program.

(B) **SUMMIT CORPORATION OF AMERICA** ("Permittee") shall comply with all conditions of this permit including the following sections of the RCSA which have been adopted pursuant to section 22a-430 of the CGS and are hereby incorporated into this permit. Your attention is especially drawn to the notification requirements of subsections (i)(2), (i)(3), (j)(1), (j)(6), (j)(8), (j)(9)(C), (j)(10)(C), (j)(11)(C), (D), (E), and (F), (k)(3) and (4) and (*l*)(2) of Section 22a-430-3.

Section 22a-430-3: *General Conditions*

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

Section 22a-430-4: *Procedures and Criteria*

(a) Duty to Apply
(b) Duty to Reapply
(c) Application Requirements
(d) Preliminary Review
(e) Tentative Determination
(f) Draft Permits, Fact Sheets
(g) Public Notice, Notice of Hearing
(h) Public Comments
(i) Final Determination
(j) Public Hearings
(k) Submission of Plans and Specifications, Approval
(*l*) Establishing Effluent Limitations and Conditions
(m) Case by Case Determinations
(n) Permit Issuance or Renewal
(o) Permit Transfer
(p) Permit Revocation, Denial or Modification
(q) Variances
(r) Secondary Treatment Requirements
(s) Treatment Requirements
(t) Discharges to POTWs - Prohibitions

(C) Violations of any of the terms, conditions, or limitations contained in this permit may subject the permittee to enforcement action including, but not limited to, seeking penalties, injunctions and/or forfeitures pursuant to applicable sections of the CGS and RCSA.

(D) Any false statement in any information submitted pursuant to this permit may be punishable as a criminal offense under section 22a-438 or 22a-131a of the CGS or in accordance with section 22a-6, under section 53a-157b of the CGS.

(E) The authorization to discharge under this permit may not be transferred without prior written approval of the Commissioner of Energy and Environmental Protection ("Commissioner"). To request such approval, the permittee and proposed transferee shall register such proposed transfer with the Commissioner, at least thirty days prior to the transferee becoming legally responsible for creating or maintaining any discharge which is the subject of the permit transfer. Failure, by the transferee, to obtain the Commissioner's approval prior to commencing such discharge(s) may subject the transferee to enforcement action for discharging without a permit pursuant to applicable sections of the CGS and RCSA.

(F) No provision of this permit and no action or inaction by the Commissioner shall be construed to constitute an assurance by the Commissioner that the actions taken by the permittee pursuant to this permit will result in compliance or prevent or abate pollution.

(G) Nothing in this permit shall relieve the permittee of other obligations under applicable federal, state and local law.

(H) An annual fee shall be paid for each year this permit is in effect as set forth in section 22a-430-7 of the RCSA.

(I) The permittee shall operate and maintain its collection and treatment system in accordance with its Operation and Maintenance Plan, March 2017, and with any approvals issued in accordance with RCSA section 22a-430-3(i)(3).

SECTION 2: DEFINITIONS

(A) The definitions of the terms used in this permit shall be the same as the definitions contained in section

22a-423 of the CGS and Section 22a-430-3(a) and 22a-430-6 of the RCSA.

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

"40 CFR" means Title 40 of the Code of Federal Regulations.

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

"Average Monthly Limit" means the maximum allowable "Average Monthly Concentration" as defined in section 22a-430-3(a) of the RCSA when expressed as a concentration (e.g., mg/l). Otherwise, it means "Average Monthly Discharge Limitation" as defined in Section 22a-430-3(a) of the RCSA.

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

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

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

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

"Dilution Factor" means the inverse of the "Instream Waste Concentration".

"DMR" means Discharge Monitoring Report.

"IC" means "Inhibition Concentration".

"IC_{25}" 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

"LC_{50}" means the concentration lethal to fifty (50) percent of the test organisms during a specific period.

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

"Maximum Daily Limit" means the maximum allowable "Daily Concentration" (defined above) when expressed as a concentration (e.g., mg/l). Otherwise, it means the maximum allowable "Daily Quantity" as defined above, unless it is expressed as a flow quantity. If expressed as a flow quantity, it means "Maximum Daily Flow" as defined in Section 22a-430-3(a) of the RCSA.

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

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

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

"Range During Sampling" ("RDS"), as a sample type, means the maximum and minimum of all values recorded as a result of analyzing each grab sample of: 1) a Composite Sample or, 2) a Grab Sample Average. For those permittees with continuous monitoring and recording pH meters, Range During Sampling means the maximum and minimum readings recorded with the continuous monitoring device during the Composite or Grab Sample Average sample collection.

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

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

SECTION 3: COMMISSIONER'S DECISION

(A) The Commissioner has issued a final determination and found that with respect to the discharge, DSN 001-1, modification of the existing system would protect the waters of the state from pollution. The Commissioner's decision is based on Application 201205290 for permit reissuance received on June 19, 2012 and the administrative record established in the processing of that application.

(B) The Commissioner hereby authorizes the permittee to discharge in accordance with the provisions of this permit, the above referenced application, and all approvals issued by the Commissioner or the Commissioner's authorized agent for the discharges and/or activities authorized by, or associated with, this permit in accordance with the following:

(1) From the issuance of this permit through and including the last day of the first calendar month of such issuance, the Commissioner hereby authorizes the permittee to discharge in accordance with the terms and conditions of Permit No. CT0001180, issued by the Commissioner to the permittee on December 21, 2007, the previous application submitted by the permittee on April 2, 2004, and all modifications and approvals issued by the Commissioner or the Commissioner's authorized agent for the discharge and/or activities authorized by, or associated with, Permit No. CT0001180, issued by the Commissioner to the permittee on December 21, 2007.

(2) Beginning on the first day of the month following the issuance of this permit and continuing until this permit expires or is modified or revoked, the Commissioner hereby authorizes the permittee to discharge in accordance with the terms and conditions of this permit, Application No. 201205290 received by the Department on June 19, 2012, and all modifications and approvals issued by the Commissioner or the Commissioner's authorized agent for the discharge and/or activities authorized by, or associated with this permit.

(C) The Commissioner hereby authorizes the permittee to discharge in accordance with the provisions of this permit, the above referenced application, and all approvals issued by the Commissioner or the Commissioner's authorized agent for the discharges and/or activities authorized by, or associated with, this permit.

(D) The Commissioner reserves the right to make appropriate revisions to the permit in order to establish any appropriate effluent limitations, schedules of compliance, or other provisions which may be authorized under the Federal Clean Water Act or the CGS or regulations adopted thereunder, as amended. The permit as modified or renewed under this paragraph may also contain any other requirements of the Federal Clean Water Act or the CGS or regulations adopted thereunder which are then applicable.

SECTION 4: GENERAL EFFLUENT LIMITATIONS

(A) The permittee shall assure that the surface water affected by the subject discharge shall conform to the *Connecticut Water Quality Standards.*

(B) No discharge shall contain, or cause in the receiving stream, a visible oil sheen or floating solids, or cause visible discoloration or foaming in the receiving stream.

(C) No discharge shall cause acute or chronic toxicity in the receiving water body beyond any zone of influence specifically allocated to that discharge in this permit.

(D) The temperature of any discharge shall not increase the temperature of the receiving stream above 85 °F, or in any case, raise the temperature of the receiving stream by more than 4 °F.

SECTION 5: SPECIFIC EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

(A) The discharge is restricted by, and shall be monitored in accordance with the following tables in this section. The wastewater discharge shall not exceed the effluent limitations in these tables and shall otherwise conform to the specific terms and conditions listed in the tables. The permittee shall comply with the "Remarks" and "Footnotes" noted in the tables that follows and such remarks and footnotes are enforceable like any other term or condition of this permit.

(B) The wastewaters authorized/approved by this permit shall be collected, treated, and discharged in accordance with this permit and with any approvals issued by the Commissioner or his/her authorized agent for the discharges and activities authorized by or associated with this permit. Any wastewater discharges not expressly identified in these tables or otherwise approved to be discharged by this permit shall not be authorized to be discharged by this permit.

(C) All samples shall be comprised of only the wastewater described in these tables. Samples shall be collected prior to combination with receiving waters or wastewater of any other type, and after all approved treatment units, if applicable. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. Collection of permit required effluent samples in any location other than the authorized location noted in this permit shall be a violation of this permit.

(D) In cases where limits and sample type are specified but sampling is not required by this permit, the limits specified shall apply to all samples which may be collected and analyzed by the Department of Energy and Environmental Protection ("Department") personnel, the permittee, or other parties.

(E) The permittee shall maintain compliance with its *Solvent Management Plan* which was approved by the Department on October 18, 2012 or any subsequent revisions to the plan which have been approved by the Department.

Table A

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

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

Wastewater Description: **Metal Finishing Wastewaters, Laboratory Wastewater, Water Treatment Wastewater, Air Scrubber Wastewater Floor Washwater/Building Maintenance Wastewater, Tumbling Wastewater, On-Site Groundwater Remediation Wastewater[1], Drum Rinsing Wastewater, Reverse Osmosis (RO) Reject and Backwash Water, Boiler Blowdown, Air Compressor Blowdown/Condensate, Fire Suppression Test Water**

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

Discharge is to: **Naugatuck River** | Dilution Factor (for Silver):**27.8:1;** Dilution Factor (for Ammonia, Cyanide, Lead, Nickel): **14.4:1**

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			Minimum Level[3]	Monitoring Required with Toxicity Testing
			Average Monthly Limit	Maximum Daily Limit	Sample/ Reporting Frequency [2]	Sample Type or Measurement to be reported	Instantaneous limit or required range	Sample/ Reporting Frequency	Sample Type or measurement to be reported		
Acute Aquatic Toxicity[4] *Daphnia pulex*	TAA3D	%	LC_{50} >43	LC_{50} > 21	Quarterly	Daily Composite	LC_{50} > 7	NR	Grab		
Acute Aquatic Toxicity[4] *Pimephales promelas*	TAA6C	%	LC_{50} > 43	LC_{50} > 21	Quarterly	Daily Composite	LC_{50} > 7	NR	Grab		
Chronic Aquatic Toxicity (Survival)[5] *Ceriodaphnia dubia*	TOP3B	%	C-NOEC > 4.3	C-NOEC > 2.1	Semiannual[6]	Daily Composite	NA	NR	NA		
Chronic Aquatic Toxicity (Reproduction)[5] *Ceriodaphnia dubia*	TPP3B	%	C-NOEC > 4.3	C-NOEC > 2.1	Semiannual[6]	Daily Composite	NA	NR	NA		
Chronic Aquatic Toxicity (Survival)[5] *Pimephales promelas*	TOP6C	%	C-NOEC > 4.3	C-NOEC > 2.1	Semiannual[6]	Daily Composite	NA	NR	NA		
Chronic Aquatic Toxicity (Growth)[5] *Pimephales promelas*	TPP6C	%	C-NOEC > 4.3	C-NOEC > 2.1	Semiannual[6]	Daily Composite	NA	NR	NA		
Alkalinity, as $CaCO_3$	00410	mg/L	---	---	Weekly	Daily Composite	NA	NR	NA		✓
Aluminum, Total	01105	µg/L	269	540	Weekly	Daily Composite	810	NR	Grab	10	✓
Aluminum, Total	01105	g/day	163	327	Weekly	Daily Composite	NA	NR	NA		
Ammonia (as N) *(from April 1st to October 31st)*	00610	mg/L	15.0	32.5	Monthly	Daily Composite	48.7	NR	Grab	5	✓
Ammonia (as N) *(from April 1st to October 31st)*	00610	kg/day	9.13	19.68	Monthly	Daily Composite	NA	NR	NA		
Ammonia (as N) *(from November 1st to March 31st)*	00610	mg/L	---	---	Monthly	Daily Composite	NA	NR	NA		
Ammonia (as N) *(from November 1st to March 31st)*	00610	kg/day	---	---	Monthly	Daily Composite	NA	NR	NA		
Biochemical Oxygen Demand, 5-day (BOD_5)	00310	mg/L	30	50	Monthly	Daily Composite	75	NR	Grab		✓
Biochemical Oxygen Demand, 5-day (BOD_5)	00310	lbs/day	40.0	---	Monthly	Daily Composite	NA	NR	NA		
Cadmium, Total	01027	µg/L	0.14[7]	0.21	Annually	Daily Composite	0.31	NR	Grab	0.2	✓
Cadmium, Total	01027	g/day	0.10	0.14	Annually	Daily Composite	NA	NR	NA		
Chloride	00940	mg/L	---	---	Monthly	Daily Composite	NA	NR	NA		✓
Chlorine, Total Residual	50060	µg/L	---	---	Weekly	Grab Sample Average	NA	NR	Grab	10	✓
Chlorine, Total Residual	50060	g/day	---	---	Weekly	Grab Sample Average	NA	NR	NA		
Chloroform	32106	µg/L	470	686	Monthly	Grab Sample Average	1029	NR	Grab		✓

Table A

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

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

Wastewater Description: **Metal Finishing Wastewaters, Laboratory Wastewater, Water Treatment Wastewater, Air Scrubber Wastewater Floor Washwater/Building Maintenance Wastewater, Tumbling Wastewater, On-Site Groundwater Remediation Wastewater[1], Drum Rinsing Wastewater, Reverse Osmosis (RO) Reject and Backwash Water, Boiler Blowdown, Air Compressor Blowdown/Condensate, Fire Suppression Test Water**

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

Discharge is to: **Naugatuck River** | Dilution Factor (for Silver):**27.8:1;** Dilution Factor (for Ammonia, Cyanide, Lead, Nickel): **14.4:1**

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

Table A

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

Wastewater Description: **Metal Finishing Wastewaters, Laboratory Wastewater, Water Treatment Wastewater, Air Scrubber Wastewater Floor Washwater/Building Maintenance Wastewater, Tumbling Wastewater, On-Site Groundwater Remediation Wastewater[1], Drum Rinsing Wastewater, Reverse Osmosis (RO) Reject and Backwash Water, Boiler Blowdown, Air Compressor Blowdown/Condensate, Fire Suppression Test Water**

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

Discharge is to: **Naugatuck River** | Dilution Factor (for Silver):**27.8:1;** Dilution Factor (for Ammonia, Cyanide, Lead, Nickel): **14.4:1**

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			Minimum Level[3]	Monitoring Required with Toxicity Testing
			Average Monthly Limit	Maximum Daily Limit	Sample/ Reporting Frequency [2]	Sample Type or Measurement to be reported	Instantaneous limit or required range	Sample/ Reporting Frequency	Sample Type or measurement to be reported		
Nitrite (as N)	00615	mg/L	---	---	Weekly	Daily Composite	NA	NR	NA		✓
Nitrogen, Total [See Remark 4]	00600	lbs/day	26.7	---	Weekly	Calculated	NA	NR	NA		
Oil & Grease, Total	00556	mg/L	10	---	Weekly	Grab Sample Average	20	NR	Grab		✓
Oil & Grease, Total	00556	kg/day	6.05	---	Weekly	Grab Sample Average	NA	NR	NA		
pH, Minimum	61942	SU	NA	NA	NR	NA	6.0	Continuous	Continuous		
pH, Maximum	61941	SU	NA	NA	NR	NA	9.0	Continuous	Continuous		
pH, Day of Sampling	00400	SU	NA	NA	NR	NA	6.0 - 9.0	Weekly	Grab		✓
Phosphorus, Total	00665	lbs/day	---	---	Monthly	Daily Composite	NA	NR	NA		✓
Phosphorus, Total	00665	mg/L	---	---	Monthly	Daily Composite	NA	NR	NA		
INTERIM LIMITS[9] Silver, Total	01077	µg/L	32	65	Weekly	Daily Composite	97	NR	Grab	1	✓
Silver, Total	01077	g/day	22	44	Weekly	Daily Composite	NA	NR	NA		
FINAL LIMITS[9] Silver, Total	01077	µg/L	12	28	Weekly	Daily Composite	42	NR	Grab	1	✓
Silver, Total	01077	g/day	8.0	19.4	Weekly	Daily Composite	NA	NR	NA		
Surfactants, Anionic	38260	mg/L	---	---	Monthly	Daily Composite	NA	NR	NA		✓
Tin, Total	01102	mg/L	2.0	4.0	Monthly	Daily Composite	6.0	NR	NA		✓
Tin, Total	01102	g/day	1211	2422	Monthly	Daily Composite	NA	NR	NA		
Total Suspended Solids	00530	mg/L	20	30	Weekly	Daily Composite	45	NR	Grab		✓
Total Suspended Solids	00530	kg/day	12.1	18.1	Weekly	Daily Composite	NA	NR	NA		
Total Toxic Organics [See Remark 6]	78141	mg/L	NA	NA	NR	NA	1.0	Monthly	Grab	0.01	
1,1,1-Trichloroethane[8]	34506	µg/L	---	---	Monthly	Grab Sample Average	NA	NR	NA		✓
Trichloroethylene[8]	39180	µg/L	---	---	Monthly	Grab Sample Average	NA	NR	NA		✓
Zinc, Total	01092	µg/L	39	65	Weekly	Daily Composite	97	NR	Grab	10	✓
Zinc, Total	01092	g/day	26	44	Weekly	Daily Composite	NA	NR	NA		

TABLE A FOOTNOTES AND REMARKS

Footnotes:

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

(CONTINUED ON THE NEXT PAGE)

TABLE A FOOTNOTES AND REMARKS (CONTINUED)

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

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

[4] Acute toxicity testing shall be conducted in accordance with Section 7(A) of this permit. The LC_{50} results (in %) for the acute toxicity testing shall be reported on the DMR.

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

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

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

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

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

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

Remarks:

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

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

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

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

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

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

(CONTINUED ON THE NEXT PAGE)

TABLE A FOOTNOTES AND REMARKS (CONTINUED)

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

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

Table B

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

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

Wastewater Description: **Metal Finishing Wastewaters, Laboratory Wastewater, Water Treatment Wastewater, Air Scrubber Wastewater Floor Washwater/Building Maintenance Wastewater, Tumbling Wastewater, On-Site Groundwater Remediation Wastewater[1], Drum Rinsing Wastewater, Reverse Osmosis (RO) Reject and Backwash Water, Boiler Blowdown, Air Compressor Blowdown/Condensate, Fire Suppression Test Water**

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

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

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			Minimum Level[3]	Monitoring Required with Toxicity Testing
			Average Monthly Limit	Maximum Daily Limit	Sample/ Reporting Frequency [2]	Sample Type or Measurement to be reported	Instantaneous limit or required range	Sample/ Reporting Frequency	Sample Type or measurement to be reported		
Acute Aquatic Toxicity[4] *Daphnia pulex*	TAA3D	%	LC_{50} > 96	LC_{50} > 48	Quarterly	Daily Composite	LC_{50} > 16	NR	Grab		
Acute Aquatic Toxicity[4] *Pimephales promelas*	TAA6C	%	LC_{50} > 96	LC_{50} > 48	Quarterly	Daily Composite	LC_{50} > 16	NR	Grab		
Chronic Aquatic Toxicity (Survival)[5] *Ceriodaphnia dubia*	TOP3B	%	C-NOEC > 9.6	C-NOEC > 4.7	Semiannual[6]	Daily Composite	NA	NR	NA		
Chronic Aquatic Toxicity (Reproduction)[5] *Ceriodaphnia dubia*	TPP3B	%	C-NOEC > 9.6	C-NOEC > 4.7	Semiannual[6]	Daily Composite	NA	NR	NA		
Chronic Aquatic Toxicity (Survival)[5] *Pimephales promelas*	TOP6C	%	C-NOEC > 9.6	C-NOEC > 4.7	Semiannual[6]	Daily Composite	NA	NR	NA		
Chronic Aquatic Toxicity (Growth)[5] *Pimephales promelas*	TPP6C	%	C-NOEC > 9.6	C-NOEC > 4.7	Semiannual[6]	Daily Composite	NA	NR	NA		
Alkalinity, as $CaCO_3$	00410	mg/L	---	---	Weekly	Daily Composite	NA	NR	NA		✓
Aluminum, Total	01105	µg/L	167	335	Weekly	Daily Composite	502.5	NR	Grab		✓
Aluminum, Total	01105	g/day	209	419	Weekly	Daily Composite	NA	NR	NA		
Ammonia (as N) *(from April 1st to October 31st)*	00610	mg/L	7.87	16.9	Monthly	Daily Composite	25.35	NR	NA	5	✓
Ammonia (as N) *(from April 1st to October 31st)*	00610	kg/day	9.83	21.2	Monthly	Daily Composite	NA	NR	NA		
Ammonia (as N) *(from November 1st to March 31st)*	00610	mg/L	---	---	Monthly	Daily Composite	NA	NR	NA		
Ammonia (as N) *(from November 1st to March 31st)*	00610	kg/day	---	---	Monthly	Daily Composite	NA	NR	NA		
Biochemical Oxygen Demand, 5-day (BOD_5)	00310	mg/L	30	50	Monthly	Daily Composite	75	NR	Grab		✓
Biochemical Oxygen Demand, 5-day (BOD_5)	00310	lbs/day	82.5	---	Monthly	Daily Composite	NA	NR	NA		
Cadmium, Total	01027	µg/L	0.14[7]	0.21	Annually	Daily Composite	0.315	NR	Grab	0.2	✓
Cadmium, Total	01027	g/day	0.18	0.26	Annually	Daily Composite	NA	NR	NA		
Chloride	00940	mg/L	---	---	Monthly	Daily Composite	NA	NR	NA		✓
Chlorine, Total Residual	50060	µg/L	---	---	Weekly	Grab Sample Average	NA	NR	Grab	10	✓

Table B

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

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

Wastewater Description: **Metal Finishing Wastewaters, Laboratory Wastewater, Water Treatment Wastewater, Air Scrubber Wastewater Floor Washwater/Building Maintenance Wastewater, Tumbling Wastewater, On-Site Groundwater Remediation Wastewater[1], Drum Rinsing Wastewater, Reverse Osmosis (RO) Reject and Backwash Water, Boiler Blowdown, Air Compressor Blowdown/Condensate, Fire Suppression Test Water**

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

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

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

Table B

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

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

Wastewater Description: **Metal Finishing Wastewaters, Laboratory Wastewater, Water Treatment Wastewater, Air Scrubber Wastewater Floor Washwater/Building Maintenance Wastewater, Tumbling Wastewater, On-Site Groundwater Remediation Wastewater[1], Drum Rinsing Wastewater, Reverse Osmosis (RO) Reject and Backwash Water, Boiler Blowdown, Air Compressor Blowdown/Condensate, Fire Suppression Test Water**

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

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

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

(CONTINUED ON THE NEXT PAGE)

TABLE B FOOTNOTES AND REMARKS

Footnotes:

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

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

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

[4] Acute toxicity testing shall be conducted in accordance with Section 7(A) of this permit. The LC_{50} results (in %) for the acute toxicity testing shall be reported on the DMR.

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

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

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

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

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

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

Remarks:

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

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

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

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

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

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TABLE B FOOTNOTES AND REMARKS (CONTINUED)

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

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

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

Table C

Discharge Serial Number: **DSN 001A** | Monitoring Location: **INTERNAL MONITORING POINT**

Wastewater Description: **Treated cyanide-bearing wastewaters**

Monitoring Location Description: **Immediately after the second-stage amenable cyanide treatment tank**

Discharge is to: **DSN 001-1**

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

TABLE C FOOTNOTES AND REMARKS

Footnote:

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

Remark:

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

Table D

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

Discharge Serial Number: **DSN 001B** | Monitoring Location: **INTERNAL MONITORING POINT**

Wastewater Description: **Treated hexavalent chromium-bearing wastewaters**

Monitoring Location Description: **Immediately after the hexavalent chromium treatment tank**

Discharge is to: **DSN 001-1**

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

TABLE D FOOTNOTES AND REMARKS

Footnote:

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

Remark:

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

SECTION 6: SAMPLE COLLECTION, HANDLING AND ANALYTICAL TECHNIQUES

(A) All samples shall be collected, handled, and analyzed in accordance with the methods approved under 40 CFR 136, unless another method is required under 40 CFR subchapter N or unless an alternative method has been approved in writing pursuant to 40 CFR 136.5. To determine compliance with limits and conditions established in this permit, monitoring must be performed using sufficiently-sensitive methods approved pursuant to 40 CFR 136 for the analysis of pollutants having approved methods under that part, unless a method is required under 40 CFR subchapter N or unless an alternative method has been approved in writing pursuant to 40 CFR 136.5. Monitoring parameters which do not have approved methods of analysis defined in 40 CFR 136 shall be collected, handled, and analyzed in accordance with the methods in Section 6(B), below.

(B) The latest, most up-to-date, of the following test method(s) as well as the following container, preservation, and hold time requirements, shall be used to analyze the parameters identified below:

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

(C) All metals analyses identified in this permit shall refer to analyses for Total Recoverable Metal as defined in 40 CFR 136, unless otherwise specified.

(D) The term Minimum Level (ML) refers to either the sample concentration equivalent to the lowest calibration point in a method or a multiple of the method detection limit (MDL). MLs may be obtained in several ways: They may be published in a method; they may be sample concentrations equivalent to the lowest acceptable calibration point used by the laboratory; or they may be calculated by multiplying the MDL in a method, or the MDL determined by a lab, by a factor. The Minimum Levels specified in the Section 5 table represent the maximum concentrations at which quantification must be achieved and verified during the chemical analyses for those noted parameters. Analyses for these parameters must include check standards within ten percent of the specified Minimum Level or calibration points equal to or less than the specified Minimum Level.

(E) The value of each parameter for which monitoring is required under this permit shall be reported to the maximum level of accuracy and precision possible, consistent with the requirements of this section of the permit.

(F) Analyses for which quantification was verified to be at or below an ML, and which indicate that a parameter was not detected, shall be reported as "less than x" where 'x' is the numerical value equivalent to the ML for that analysis. If the permittee is required to submit its DMRs through the NetDMR system, the permittee shall report the non-detect value consistent with the reporting requirements for NetDMR.

(G) Results of analyses which indicate that a parameter was not present at a concentration greater than or equal to the ML specified for that analysis shall be considered equivalent to zero for purposes of determining compliance with effluent limitations or conditions specified in this permit.

(H) It is a violation of this permit for a permittee or his/her designated agent, to manipulate test samples in any manner, to delay sample shipment, or to terminate or to cause to terminate a toxicity test. Once initiated, all toxicity tests must be completed.

(I) Analyses required under this permit shall be performed in accordance with CGS section 19a-29a. An "environmental laboratory", as that term is defined in the referenced section, that is performing analyses required by this permit, shall be registered and have certification acceptable to the Commissioner, as such registration and certification is necessary.

SECTION 7: AQUATIC TOXICITY TESTING

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

(1) **TEST METHOD**: Acute aquatic toxicity shall be performed as prescribed in the reference document *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms* (EPA-821-R-02-012), or the most current version, with any exceptions or clarifications noted below.

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

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

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

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

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

(a) For 48-hours utilizing neonatal *Daphnia pulex* (less than 24-hours old).

(b) For 48-hours utilizing larval *Pimephales promelas* (1-14 days old with no more than 24-hours range in age).

(4) **ACUTE ENDPOINT:** Survival at 48 hours measured by LC_{50}.

(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 $CaCO_3$ shall be used as dilution water.

(d) All effluent concentrations and the control(s) used in the test shall have the same salinity. If the effluent requires salinity adjustment to a standard salinity, this shall be accomplished by adding a minimum amount of commercial sea salts as described in EPA-821-R-02-012.

(e) Organisms shall not be fed during the tests.

(g) Copper nitrate shall be used as the reference toxicant.

(h) Dissolved oxygen, pH, and temperature shall be measured in the control and in all test concentrations at the beginning of the test, daily thereafter, and at test termination.

(i) Specific conductance, pH, alkalinity, hardness, and total residual chlorine shall be measured in the undiluted effluent sample and in the dilution (control) water at the beginning of the test and at test termination. If total residual chlorine is not detected at test initiation, it does not need to be measured at test termination.

(6) **CHEMICAL ANALYSIS:** Chemical analyses of the parameters identified in Table A under "Monitoring Required with Toxicity Testing" shall be conducted on an undiluted aliquot of the same sample tested for acute aquatic toxicity.

(7) **TEST ACCEPTABILITY CRITERIA & COMPLIANCE:** For the test results to be acceptable, control survival must equal or exceed 90%. If the laboratory control fails to meet test acceptability criteria for either of the test organisms at the end of the respective test period, then the test is considered invalid and the test must be repeated with a newly collected sample. Compliance with the limits on Acute Toxicity shall be demonstrated when the results of a valid definitive acute aquatic toxicity test indicates that the LC_{50} value for the test is greater than the aquatic toxicity limit in Table A.

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

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

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

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

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

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

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

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

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

(4) **CHRONIC ENDPOINTS:**

(a) *Ceriodaphnia dubia:* Survival and Reproduction

(b) *Pimephales promelas:* Survival and Growth

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

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

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

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

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

(6) **TEST CONDITIONS:**

(a) Testing for chronic aquatic toxicity shall be conducted as prescribed in the reference document for static daily renewal tests. Daily composite samples of the discharge and grab samples of the Naugatuck River for use as site water and dilution water shall be collected on: Day 1 of the test (for test initiation and renewal on Day 2 of the test); Day 3 of the test (for test solution renewal on Day 3 and Day 4 of the test); and on Day 5 of the test, (for test solution renewal on Day 5, Day 6, and Day 7 of the test). Samples shall not be dechlorinated, pH or hardness adjusted, or chemically altered in any way.

(b) Test concentrations shall be comprised of a minimum of five dilutions (100%, 64%, 32%, 16%, 8%, and 4% effluent), laboratory control water, and site dilution water. Naugatuck River water shall be used as the dilution water.

(c) Dissolved oxygen, pH, and temperature shall be measured in each sample of effluent and the Naugatuck River water sample prior to and immediately following renewal of the test solutions.

(d) Synthetic freshwater prepared with deionized water adjusted to a hardness of 50 mg/l (±5 mg/l) as $CaCO_3$ 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 LC_{50} (survival), 7-day LC_{50} (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 IC_{25} (growth and reproduction). In addition, Attachment A of this permit shall be completed and submitted consistent with Section 8.

SECTION 8: REPORTING REQUIREMENTS

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

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

(B) The Aquatic Toxicity Monitoring Report (ATMR) shall include all applicable items identified in Section 12 of EPA-821-R-02-012 and in Section 10 of EPA-821-R-02-013, including complete and accurate aquatic toxicity test data, including percent survival of test organisms in each replicate test chamber, LC_{50} values and 95% confidence intervals for definitive test protocols, and all supporting chemical/physical measurements performed in association with any aquatic toxicity test, including measured daily flow and hours of operation for the 30 consecutive operating days prior to sample collection. The ATMR shall be submitted electronically and a hard copy shall be sent to the Bureau of Water Protection and Land Reuse at the address below. The ATMR required by Section 7(A) and 7(B) shall be received at this address by the last day of the month following the month in which the samples are collected. The ATMR required by Section 7(B) shall be provided in accordance with the timeframe identified in Section 7(B)(9) above to:

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

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

(D) For Total Toxic Organics (TTO) monitoring, the permittee may, in lieu of analyzing for TTO, include a statement on each DMR certifying compliance with its approved solvent management plan. This certification statement is set forth in 40 CFR 433.12. If such approval had been granted and the reports include the compliance statement, the minimum frequency of sampling shall be reduced to annually in the month of January.

(E) *NetDMR Reporting Requirements*: The permittee shall continue reporting electronically using NetDMR, a web-based tool that allows permittees to electronically submit Discharge Monitoring Reports and other required reports through a secure internet connection. Specific requirements regarding NetDMR, submittal of reports using NetDMR, and submittal of reports in hard copy form, are described below:

(1) Submittal of *NetDMR Subscriber Agreement:* The permittee has submitted a signed and notarized copy of the *Connecticut DEEP NetDMR Subscriber Agreement* to the Department.

(2) Submittal of Reports Using NetDMR: The permittee and/or the signatory authority shall continue to electronically submit DMRs and reports required under this permit to the Department using NetDMR in satisfaction of the DMR submission requirement of Section 8(A) of this permit.

DMRs shall be submitted electronically to the Department no later than the last day of the month following the completed reporting period. All reports required under the permit, including any monitoring conducted more frequently than monthly or any additional monitoring shall be submitted to the Department as an electronic attachment to the DMR in NetDMR. Once a permittee begins submitting reports using NetDMR, it will no longer be required to submit hard copies of DMRs or other reports to the Department. The permittee shall also electronically file any written report of noncompliance described in Section 9 of this permit as an attachment in NetDMR. NetDMR is accessed from: http://www.epa.gov/netdmr.

(3) *Submittal of NetDMR Opt-Out Requests*: If the permittee is able to demonstrate a reasonable basis, such as technical or administrative infeasibility, that precludes the use of NetDMR for electronically submitting DMRs and reports, the Commissioner may approve the submission of DMRs and other required reports in hard copy form ("opt-out request"). Opt-out requests must be submitted in writing to the Department for written approval on or before fifteen (15) days prior to the date a permittee would be required under this permit to begin filing DMRs and other reports using NetDMR. This demonstration shall be valid for twelve (12) months from the date of the Department's approval and shall thereupon expire. At such time, DMRs and reports shall be submitted electronically to the Department using NetDMR unless the permittee submits a renewed opt-out request and such request is approved by the Department.

(4) All opt-out requests and requests for the NetDMR subscriber form should be sent to the following address or by email at: deep.netdmr@ct.gov

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

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

(A) In addition to any other written reporting requirements, the permittee shall report any instances of noncompliance with this permit with its DMR. Such reporting shall be due no later than the last day of the month following the reporting period in which the noncompliant event occurred. The information provided in the DMR shall include, at a minimum: the type of violation, the duration of the violation, the cause of the violation, and any corrective action(s) or preventative measure(s) taken to address the violation.

(B) The permittee shall notify the Bureau of Materials Management and Compliance Assurance, Water Permitting and Enforcement Division, within 72 hours and in writing within thirty days of the discharge of

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

(C) If any sample analysis indicates that an aquatic toxicity effluent limitation in Section 5 of this permit has been exceeded, or that the test was invalid, another sample of the effluent shall be collected and tested for aquatic toxicity and associated chemical parameters, as described above in Section 7, and the results reported to the Bureau of Materials Management and Compliance Assurance (Attn: DMR Processing), at the address listed above, within 30 days of the exceedance or invalid test. Results of all tests, whether valid or invalid, shall be reported.

(D) If any two consecutive test results or any three test results in a twelve-month period indicate that an aquatic toxicity limit has been exceeded, the permittee shall immediately take all reasonable steps to eliminate toxicity wherever possible and shall also submit a report, for the review and written approval of the Commissioner, which describes in detail the steps taken or that shall be taken to eliminate the toxic impacts of the discharge on the receiving water and it shall also include a proposed schedule for implementation. Such report shall be submitted in accordance with the timeframe set forth in section 22a-430-3(j)(10)(C) of the RCSA. The permittee shall implement all actions in accordance with the approved report and schedule.

SECTION 10: SPECIAL CONDITIONS/COMPLIANCE SCHEDULE

(A) The permittee shall not treat any on-site remediation groundwater in its wastewater treatment system unless and until it receives the prior written approval of the Commissioner. The permittee shall only receive that approval if it can demonstrate to the satisfaction of the Commissioner that by treating the on-site remediation groundwater through its treatment system, it is capable of meeting all permit limits in Tables A & B. The permittee shall provide the results of such a demonstration study for the review and written approval of the Commissioner at least ninety (90) days prior to the intended treatment of the on-site remediation groundwater. The demonstration study report shall also include, if necessary, any proposed upgrades to the treatment system necessary for meeting all permit limits, a timetable for implementing the treatment system upgrades, and an anti-degradation evaluation.

(B) The permittee shall not operate the proposed hexavalent chromium treatment system unless and until it receives prior written approval from the Commissioner. Sixty (60) days prior to the start-up of the system, the permittee shall notify the Department of its proposal to install a hexavalent chromium system. The notification shall include, at a minimum, a detailed description of the system, including an evaluation that the treatment system will achieve the effluent limitations in Table D of this permit, plans and specifications of the system, and a floor plan for the facility identifying the location of the proposed system.

(C) The permittee shall achieve compliance with the final effluent limitations in Section 5, Tables A and B of this permit in accordance with the following:

(1) On or before thirty (30) days after the date of issuance of this permit, the permittee shall retain one or more qualified consultants acceptable to the Commissioner to prepare the documents and implement or oversee the actions required by this section of the permit and shall, by that date, notify the Commissioner in writing of the identity of such consultants. The permittee shall retain one or more qualified consultants acceptable to the Commissioner until the actions required by this section of the permit have been completed, and within ten (10) days after retaining any consultant other than one originally identified under this paragraph, permittee shall notify the Commissioner in writing of the identity of such other consultant. The consultant retained to perform the studies and oversee any remedial measures required to achieve compliance with Section 5 limitations shall be a qualified professional engineer licensed to practice in Connecticut acceptable to the Commissioner. The permittee shall submit to the Commissioner a description of a consultant's education, experience and training that is relevant to the work required by this permit within ten (10) days after a request for such a description. Nothing in this paragraph shall preclude the Commissioner from finding a previously acceptable consultant unacceptable.

(2) On or before ninety (90) days after the date of issuance of this permit, the permittee shall submit for the Commissioner's review and written approval a comprehensive and thorough report which

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

(a) evaluate alternative actions to achieve compliance with Section 5 limits including, but not limited to, pollutant source reduction, process changes/innovations, chemical substitutions, recycle and zero discharge systems, water conservation measures, other internal and/or end-of-pipe treatment technologies, and re-direction of the discharge into the sanitary sewer;

(b) state in detail the most expeditious schedule for performing each alternative;

(c) list all permits and approvals required for each alternative, including but not limited to any permits required under sections 22a-32, 22a-42a, 22a-342, 22a-361, 22a-368 or 22a-430 of the Connecticut General Statutes;

(d) propose a preferred alternative or combination of alternatives with supporting justification; and

(e) propose a detailed program and schedule to perform all actions required by the preferred alternative including but not limited to a schedule for submission of engineering plans and specifications on any internal and/or end of pipe treatment facilities, start and completion of any construction activities related to any treatment facilities, and applying for and obtaining all permits and approvals required for such actions.

(D) The permittee shall submit to the Commissioner semi-annual status reports beginning sixty (60) days after the date of approval of the report referenced in Section 10(C) above. Status reports shall be due to the Department on January 1st and July 1st of each year that this permit is in effect until the requirements of this section have been completed in full and approved. Status reports shall include, but not be limited to, a summary of all effluent monitoring data collected by the permittee during the previous six-month period and a detailed description of progress made by the permittee in performing actions required by this section of the permit in accordance with the approved schedule including, but not limited to, development of engineering plans and specifications, construction activity, contract bidding, operational changes, preparation and submittal of permit applications, and any other actions specified in the program approved pursuant to Section 10(C).

(E) The permittee shall perform the approved actions in accordance with the approved schedule, but in no event shall the approved actions be completed later than six (6) months prior to the expiration date of this permit. Within fifteen (15) days after completing such actions, the permittee shall certify to the Commissioner in writing that the actions have been completed as approved.

(F) The permittee shall use best efforts to submit to the Commissioner all documents required by this section of the permit in a complete and approvable form. If the Commissioner notifies the permittee that any document or other action is deficient, and does not approve it with conditions or modifications, it is deemed disapproved, and the permittee shall correct the deficiencies and resubmit it within the time specified by the Commissioner or, if no time is specified by the Commissioner, within thirty (30) days of the Commissioner's notice of deficiencies. In approving any document or other action under this Compliance Schedule, the Commissioner may approve the document or other action as submitted or performed or with such conditions or modifications as the Commissioner deems necessary to carry out the purposes of this section of the permit. Nothing in this paragraph shall excuse noncompliance or delay.

(G) Dates. The date of submission to the Commissioner of any document required by this section of the permit shall be the date such document is received by the Commissioner. The date of any notice by the Commissioner under this section of the permit, including but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is personally delivered or the date three (3) days after it is mailed by the Commissioner, whichever is earlier. Except as otherwise specified in this permit, the word "day" as used in this section of the

permit means calendar day. Any document or action which is required by this section only of the permit, to be submitted, or performed, by a date which falls on, Saturday, Sunday, or, a legal Connecticut or federal holiday, shall be submitted or performed on or before the next day which is not a Saturday, Sunday, or legal Connecticut or federal holiday.

(H) Notification of noncompliance. In the event that the permittee becomes aware that it did not or may not comply, or did not or may not comply on time, with any requirement of this Section of the permit, or of any document required hereunder, the permittee shall immediately notify the Commissioner and shall take all reasonable steps to ensure that any noncompliance or delay is avoided or, if unavoidable, is minimized to the greatest extent possible. In so notifying the Commissioner, the permittee shall state in writing the reasons for the noncompliance or delay and propose, for the review and written approval of the Commissioner, dates by which compliance will be achieved, and the permittee shall comply with any dates that may be approved in writing by the Commissioner. Notification by the permittee shall not excuse noncompliance or delay, and the Commissioner's approval of any compliance dates proposed shall not excuse noncompliance or delay unless specifically so stated by the Commissioner in writing.

(I) Notice to Commissioner of changes. Within fifteen (15) days of the date the permittee becomes aware of a change in any information submitted to the Commissioner under this section of the permit, or that any such information was inaccurate or misleading or that any relevant information was omitted, the permittee shall submit the correct or omitted information to the Commissioner.

(J) Submission of documents. Any document, other than a discharge monitoring report, required to be submitted to the Commissioner under this section of the permit shall, unless otherwise specified in writing by the Commissioner, be directed to:

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

This permit is hereby issued on

DRAFT

BETSEY C. WINGFIELD
Deputy Commissioner

BCW/CMG

ATTACHMENT A

PARAMETER	UNITS	EFFLUENT SAMPLE RESULTS			NAUGATUCK RIVER SAMPLE RESULTS			MINIMUM LEVEL
		DATE ANALYZED	DATE ANALYZED	DATE ANALYZED	DATE ANALYZED	DATE ANALYZED	DATE ANALYZED	
Alkalinity, Total	mg/L							
Aluminum, Total	µg/L							
Aluminum, Dissolved	µg/L							
Ammonia (as N)	mg/L							
BOD_5	mg/L							
Cadmium, Total	µg/L							
Chloride, Total	mg/L							
Chlorine, Total Residual	µg/L							
Chromium, Total	µg/L							
Copper, Total	µg/L							
Copper, Dissolved	µg/L							
Cyanide, Amenable	µg/L							
Cyanide, Total	µg/L							
Fluoride	mg/L							
Formaldehyde	µg/L							
Gold, Total	mg/L							
Hardness, Total	mg/L							
Iron, Total	mg/L							
Iron, Dissolved	mg/L							
Kjeldahl Nitrogen	mg/L							
Lead, Total	µg/L							
Lead, Dissolved	µg/L							
Nickel, Total	µg/L							
Nickel, Dissolved	µg/L							
Nitrate (as N)	mg/L							
Nitrite (as N)	mg/L							
Oil & Grease, Total	mg/L							
pH	SU							
Phosphorus, Total	mg/L							
Silver, Total	µg/L							
Specific Conductance	µmhos							
Surfactants, Anionic	mg/L							
Temperature	°F							
Tin, Total	mg/L							
Total Suspended Solids	mg/L							
Zinc, Total	µg/L							
Zinc, Dissolved	µg/L							

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

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

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

ATTACHMENT B

ATTACHMENT SHEET FOR SUPPLEMENTAL MONITORING FOR DSN 001-1

MONTH/YEAR:_____

PARAMETER	UNITS	DATE SAMPLED WEEK 1 FLOW DAY OF SAMPLING	MINIMUM LEVEL	DATE SAMPLED WEEK 2 FLOW DAY OF SAMPLING	MINIMUM LEVEL	DATE SAMPLED WEEK 3 FLOW DAY OF SAMPLING	MINIMUM LEVEL	DATE SAMPLED WEEK 4 FLOW DAY OF SAMPLING	MINIMUM LEVEL
Acute Toxicity, *Daphnia pulex*	%		---		---		---		---
Acute Toxicity, *Pimephales promelas*	%		---		---		---		---
Alkalinity, Total	mg/L								
Aluminum, Total	µg/L								
Ammonia (as N)	mg/L								
Arsenic, Total	µg/L								
BOD_5	mg/L								
Cadmium, Total	µg/L								
Chloride, Total	mg/L								
Chlorine, Total Residual	µg/L								
Chloroform	µg/L								
Chromium, Total	µg/L								
Copper, Total	µg/L								
Cyanide, Total	µg/L								
Fluoride	mg/L								
Formaldehyde	µg/L								
Gold, Total	mg/L								
Iron, Total	mg/L								
Kjeldahl Nitrogen	mg/L								
Lead, Total	µg/L								
Nickel, Total	µg/L								
Nitrate (as N)	mg/L								
Nitrite (as N)	mg/L								
Nitrogen, Total	mg/L								
Organic Nitrogen	mg/L								
pH	SU								
Phosphorus, Total	mg/L								
Silver, Total	µg/L								
Surfactants, Anionic	mg/L								
Tin, Total	mg/L								
Total Suspended Solids	mg/L								
Zinc, Total	µg/L								

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

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

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

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

ATTACHMENT C

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

MONTH/YEAR:_____

DSN 001A:

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

DSN 001B:

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

ATTACHMENT D

DSN 001-1 FLOW AND pH RECORD

MONTH/YEAR:_____

DAY	FLOW (gallons discharged)	pH (range over operating day)	DURATION OF DISCHARGE (hours of discharge)
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
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FACT SHEET

NPDES PERMIT RE-ISSUANCE
PUBLIC NOTICED: MAY 2019

APPLICANT	***SUMMIT CORPORATION OF AMERICA***
NPDES PERMIT NO.	*CT0001180 (existing term: December 21, 2007 to December 20, 2012)*
NPDES APPLICATION NO.	*201205290*
DATE APPLICATION RECEIVED	*June 19, 2012*
FACILITY IDENTIFICATION	*140-011*
LOCATION ADDRESS	*1430 Waterbury Road* *Thomaston, Connecticut 06787*
FACILITY CONTACT	*Mark Conti, Plant Manager* *Office: (860) 283-4391 ext. 273* *FAX: (860) 283-4010* *mconti@Summitct.com*
MAILING ADDRESS	*1430 Waterbury Road* *Thomaston, Connecticut 06787*
DMR CONTACT	*Mark Conti*
SECRETARY OF STATE BUSINESS ID	*0096727*
PERMIT TERM	*5 years*
PERMIT CATEGORY	*NPDES:* ☒ *Major* ☐ *Discretionary Major* ☐ *Minor* *[Score: 80, August 2018]*
STANDARD INDUSTIAL 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	☐ *Federal* ☐ *State* ☒ *Private* ☐ *Public* ☐ *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	*Christine Gleason (860/424-3278)* *christine.gleason@ct.gov*

I. FEES

Application Fees (RCSA 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 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; Drum rinsing wastewater; Tumbling wastewater; Floor wash water/Building maintenance wastewater; Air scrubber wastewater)*	*>50,000 gpd*	*001-1*	*$8,425*
1170000	***Blowdown from Heating and Cooling*** *(Boiler Blowdown)*	---	*001-1*	*4,337.50*
1090000	***Groundwater Contamination Recovery*** *(On-site remediation groundwater)*	---	*001-1*	*4,337.50*
---	***Air Compressor Blowdown Condensate/ Fire Suppression Test Water***	---	*001-1*	*0*
TOTAL				**$17,100.00**

II. APPLICATION

On June 19, 2012, the Department of Energy and Environmental Protection ("Department") received an application (Application 201205290) from Summit Corporation of America ("Summit", "Permittee", "Applicant") in Thomaston for the renewal of its NPDES permit, CT0001180 expiring on December 20, 2012. 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	330,000	400,000	*Metal Finishing Wastewaters; Laboratory Wastewater; Water Treatment Wastewater; Air Scrubber Wastewater; Floor Wash Water/Building Maintenance Wastewater; Tumbling Wastewater; On-Site Groundwater Remediation Wastewater; Drum Rinsing Wastewater; Reverse Osmosis Reject and Backwash Water; Boiler Blowdown; Air Compressor Blowdown/Condensate; Fire Suppression Test Water*	Metals Recovery; Equalization; Precipitation; Flocculation; Clarification; Neutralization	Naugatuck River
INTERNAL POINTS	001A-1	---	---	*Treated cyanide-bearing wastewaters*	Cyanide Destruction	DSN 001-1
	001B-1	---	---	*Treated hexavalent chromium-bearing wastewaters*	*Proposed treatment:* Hexavalent chromium reduction	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 this permit term, the permittee has made a number of modifications to its facility in order to address compliance schedules in its existing permit.

III. STATUS OF SPECIAL CONDITIONS/COMPLIANCE SCHEDULES IN THE EXISTING PERMIT

Summit's existing NPDES permit includes three special conditions/compliance schedules that require it 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 special conditions/compliance schedules is as follows:

- **Compliance Schedule/Special Condition #1**: 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). Because of these issues, a compliance schedule (i.e., Section 10(B)) was incorporated into the permit requiring Summit to address stormwater quality. Section 10(B) requires Summit to submit a report, for the review and written approval of the Commissioner, that evaluates the effectiveness of certain remedial actions that have been taken to improve the quality of the stormwater so that the benchmarks identified in the general permit can be consistently met. This paragraph also requires 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 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 Department 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.

  The following is a summary of the stormwater monitoring results for DSN 003, DSN 004, Catch Basin 6 and Catch Basin 8:

PARAMETER	UNITS	LIMITS (1994-Sept 2011)	DSN-003							
			Nov 2004	Sept 2005	Sept 2006	Sept 2007	Sept 2008	Oct 2009	Oct 2010	Aug 2011
Oil & Grease	mg/L	5	7.2	<1.0	0.57	2.0	<1.0	<1.0	4.0	<1.0
pH	SU	---	6.36	6	4.21	4.49	6.17	6.39	6.70	6.17
COD	mg/L	75	85	117	54	18.7	63.8	66.3	44.4	11.3
TSS	mg/L	100	10	51	21	60	13.0	7.0	ND	12.0
Phosphorus, T	mg/L	0.5	<0.2	0.016	<0.20	0.24	0.43	0.32	0.11	0.09
TKN	mg/L	2.5	3.2	11	9.8	2.4	0.86	1.81	1.77	1.16
NO_3-N	mg/L	1.5	1.4	2.1	0.67	0.30	0.75	0.87	1.17	0.5
Total Copper	mg/L	0.100	0.16	0.366	0.28	0.052	0.209	0.126	0.225	0.141
Total Zinc	mg/L	0.500	0.13	0.574	0.32	0.069	0.217	0.241	0.389	0.167
Total Lead	mg/L	0.050	<0.002	<0.030	0.056	0.022	0.010	0.015	0.025	0.012
48-Hour LC_{50}	%	50	28.7	<6.25	<6.25	82	<6.25	77.1	85.2	<6.25
Cadmium	mg/L	---	<0.005		0.001					
Chromium, Hex	mg/L	---	<0.03		<0.03					
Silver	mg/L	---	0.04		0.013					
Surfactants	mg/L	---	0.11		0.55					

PARAMETER	UNITS	LIMITS (1994-Sept 2011)	DSN-004							
			Nov 2004	Sept 2005	Sept 2006	Sept 2007	Sept 2008	Oct 2009	Oct 2010	Aug2011
Oil & Grease	mg/L	5	0.86	4.2	2.4	1.6	<1.4	x	x	x
pH	SU	---	6.53	6.1	5.48	5.61	6.58	x	x	x
COD	mg/L	75	38	116	82	32.1	18	x	x	x
TSS	mg/L	100	290	73	38	100	<5.0	x	x	x
Phosphorus, T	mg/L	0.5	<0.2	0.15	<0.20	0.58	<0.20	x	x	x
TKN	mg/L	2.5	2.4	2.72	8.1	2.6	0.11	x	x	x
NO_3-N	mg/L	1.5	1.2	0.1	0.53	0.30	0.86	x	x	x
Total Copper	mg/L	0.100	0.37	0.274	0.20	0.077	0.019	x	x	x
Total Zinc	mg/L	0.500	0.47	0.385	0.21	0.077	0.100	x	x	x
Total Lead	mg/L	0.050	0.069	<0.030	0.018	0.040	<0.001	x	x	x
48-Hour LC_{50}	%	50	12.7	6.25	7.0	18.3	35.4	x	x	x
Cadmium	mg/L		<0.005		<0.001			x	x	x
Chromium, Hex	mg/L		<0.03		<0.03			x	x	x
Silver	mg/L		0.052		0.016			x	x	x
Surfactants	mg/L		0.21		0.56			x	x	x

NOTE: DSN-004 includes contributions from Catch Basin 6 (CB-6), Catch Basin 7 (CB-7), and Catch Basin 8 (CB-8). Because CB-7 includes stormwater contributions from an off-site facility, SUMMIT was allowed to conduct monitoring at CB-6 and CB-8 in lieu of continuing monitoring at DSN-004.

PARAMETER	UNITS	LIMITS (1994-Sept 2011)	CB-6	CB-8	CB-6	CB-8	CB-6	CB-8	CB-6	CB-8	CB-6	CB-8
			July 2007		Sept 2008		Oct 2009		Oct 2010		Aug 2011	
Oil & Grease	mg/L	5			1.6	2.4	2.0	1.6	15.2	13.6	<1.0	<1.0
pH	SU	---			4.29	6.38	6.51	7.16	6.86	6.64	6.51	5.57
COD	mg/L	75			59.0	32.1	73.8	44.4	102.4	66.3	22.2	25.6
TSS	mg/L	100			18.0	51.0	151	122	39.0	98.0	70.0	95.0
Phosphorus, T	mg/L	0.5			0.10	0.17	0.16	0.16	0.55	0.15	0.12	0.11
TKN	mg/L	2.5			0.50	4.2	1.04	1.49	7.45	0.61	0.74	0.45
NO_3-N	mg/L	1.5			0.42	0.56	0.89	0.42	0.91	0.76	0.38	0.70
Total Copper	mg/L	0.100	0.17	0.13	0.323	0.058	0.395	0.281	0.008	0.170	0.153	0.208
Total Zinc	mg/L	0.500	0.21	0.17	0.279	0.122	0.379	0.492	0.497	0.105	0.142	0.165
Total Lead	mg/L	0.050	0.11	0.10	0.010	0.008	0.046	0.111	0.054	0.027	0.015	0.018
48-Hour LC_{50}	%	50			<6.25	66.0	17.7	77.1	<6.25	11.3	>100	79.4
Cadmium	mg/L		<0.01	<0.01								
Chromium, Hex	mg/L		<0.01	<0.01								
Silver	mg/L		0.15	0.09								
Surfactants	mg/L		0.11	<0.01								

- **Compliance Schedule/Special Condition #2**: Section 10(C) of the existing permit requires that 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, at the latest. In January 2009, Summit submitted a report (*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 that summarized 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.

- **Compliance Schedule/Special Condition #3**: Section 10(D) of the existing permit requires that the permittee 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, at the latest. 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 also required that the permittee demonstrate compliance with the instantaneous toxicity limits in the NPDES 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 that report, the permittee proposed to implement certain operating procedures designed to achieve the required 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, the permittee submitted verification on November 27, 2012 that it is achieving compliance with the maximum instantaneous permit limits for acute toxicity in Table D of its permit. However, in January 2014, the permittee began having compliance issues with acute aquatic toxicity. In 2015, it undertook a pilot study designed to reduce metals concentrations in its effluent and to improve aquatic toxicity results. Based on the findings of the pilot study, the permittee modified its treatment system in 2016 and 2017. Since September 2016, there have been no acute aquatic toxicity violations.

IV. 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 the Department'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.

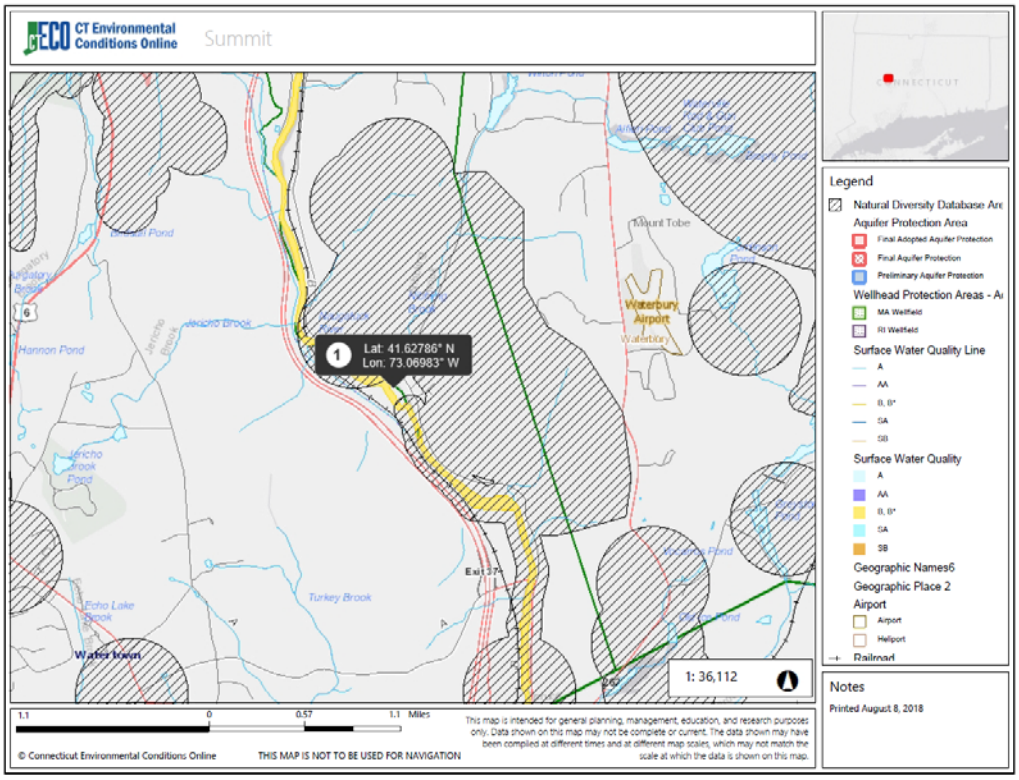
F. PUBLIC WATER SUPPLY WATERSHED

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

V. 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 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. 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. 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. 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. [See Section XIV for information about nitrogen, *E coli*, and toxicity.]



VI. 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.

VII. 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 (DIV-200701641GP) authorizing the water withdrawal.] The water from the production wells is piped under the Naugatuck River and stored at Summit in a 5,000 gallon concrete vault ("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 for later re-use.

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, 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]. Summit is seeking authorization to treat the groundwater on-site through its on-site wastewater treatment system. It proposes to direct the groundwater into the system at a rate of up to 20 gpm for 24 hours per day (i.e., 28,880 gpd maximum).

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 (or proposed to be 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
On-Site Groundwater Remediation Wastewater (PROPOSED)	The groundwater at the facility which contains: barium, cadmium, cyanide, cobalt, copper, gold, mercury, nickel, silver, zinc, cis-1,2-dichloroethylene, 1,1,1-trichloroethylene, and trichloroethylene
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

VIII. 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 in order 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.

IX. EFFLUENT QUALITY DATA

See Attachment 9 for a summary of DMR data from 2008 to 2018.

X. MONITORING/EFFLUENT VIOLATIONS

Based on a review of Summit's DMRs from 2008 to June 2018, the following effluent violations were noted:

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
January 2008	001-1	Silver	Average Monthly	0.027 kg/day	0.04 kg/day
REASON: ☐ Equipment Related ☐ Operator Error ☐ Other ☒ Unknown					
Unknown.					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
November 2009	001-1	BOD_5	Average Monthly	42.7 kg/day	59.8 kg/day
REASON: ☐ Equipment Related ☐ Operator Error ☐ Other ☒ Unknown					
Unknown, but suspected sample contamination.					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
March 2010	001-1	Ammonia	Maximum Daily	20 mg/L	22 mg/L
REASON: ☐ Equipment Related ☐ Operator Error ☐ Other ☒ Unknown					
Unknown, but the permittee suspects that the source may be due to the large amount of electroless nickel work which was performed in that month. [The electroless nickel line uses ammonium hydroxide].					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
July 2011	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	NOAEL of ≥90% @ CTC of 52	75%
REASON: ☐ Equipment Related ☐ Operator Error ☐ Other ☒ Unknown					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
July 2011	001-1	Acute Toxicity *Pimephales promelas*	Maximum Daily	NOAEL of ≥90% @ CTC of 52	75%
REASON: ☐ Equipment Related ☐ Operator Error ☐ Other ☒ Unknown					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
March 2013	001-1	Cyanide, Total	Average Monthly	0.22 mg/L	0.253 mg/L
REASON: ☒ Equipment Related ☐ Operator Error ☐ Other ☐ Unknown					
A bad O-ring on the union to the return line on the feed tank associated with the wire stripping operation is assumed to have been the cause of the violation. The O-ring was replaced and follow-up sampling for cyanide was conducted. These results were below the permit limits.					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
March 2013	001-1	Cyanide, Total	Maximum Daily	0.4 mg/L	0.41 mg/L
REASON: ☒ Equipment Related ☐ Operator Error ☐ Other ☐ Unknown					
A bad O-ring on the union to the return line on the feed tank associated with the wire stripping operation is assumed to have been the cause of the violation. The O-ring was replaced and follow-up sampling for cyanide was conducted. These results were below the permit limits.					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
January 2014	001-1	Cyanide, Amenable	Average Monthly	0.1 mg/L	0.11 mg/L
REASON: ☐ Equipment Related ☐ Operator Error ☐ Other ☒ Unknown					
No explanation provided.					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
January 2014	001-1	Cyanide, Total	Average Monthly	0.22 mg/L	0.23 mg/L
REASON: ☐ Equipment Related ☐ Operator Error ☐ Other ☒ Unknown					
No explanation provided.					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
January 2014	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	NOAEL of ≥90% @ CTC of 52	75%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
April 2014	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	NOAEL of ≥90% @ CTC of 52	75%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
April 2014	001-1	Acute Toxicity *Pimephales promelas*	Maximum Daily	NOAEL of ≥90% @ CTC of 52	50%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
July 2014	001-1	Nickel, Total	Average Monthly	0.653 mg/L	0.730 mg/L
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☒ **Other** ☐ **Unknown**					
Violation reportedly related to reducing the effluent pH.					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
October 2014	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	NOAEL of ≥90% @ CTC of 52	0%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
October 2014	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	Survival in 100% Effluent of ≥ 50%	22%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
November 2014	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	NOAEL of ≥90% @ CTC of 52	12%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
November 2014	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	Survival in 100% Effluent of ≥ 50%	8%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
December 2014	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	NOAEL of ≥90% @ CTC of 52	74%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
December 2014	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	Survival in 100% Effluent of ≥ 50%	30%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
January 2015	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	NOAEL of ≥90% @ CTC of 52	0%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
January 2015	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	Survival in 100% Effluent of ≥ 50%	0%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
January 2015	001-1	Silver, Total	Average Monthly Maximum Daily	27 g/day 54 g/day	40 g/day 87 g/day
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
No reason provided.					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
February 2015	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	NOAEL of ≥90% @ CTC of 52	0%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
February 2015	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	Survival in 100% Effluent of ≥ 50%	0%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
February 2015	001-1	Silver, Total	Maximum Daily	54 g/day	56 g/day
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
No reason provided.					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
March 2015	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	NOAEL of ≥90% @ CTC of 52	16%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
March 2015	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	Survival in 100% Effluent of ≥ 50%	24%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
April 2015	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	NOAEL of ≥90% @ CTC of 52	8%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
April 2015	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	Survival in 100% Effluent of ≥ 50%	8%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
April 2015	001-1	Silver, Total	Average Monthly	27 g/day	34 g/day
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
No reason provided.					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
May 2015	001-1	Silver, Total	Average Monthly Maximum Daily	27 g/day 54 g/day	50 g/day 70 g/day
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
No reason provided.					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
June 2015	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	NOAEL of ≥90% @ CTC of 52	12%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
June 2015	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	Survival in 100% Effluent of ≥ 50%	4%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
June 2015	001-1	Silver, Total	Average Monthly Maximum Daily	27 g/day 54 g/day	44 g/day 69 g/day
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
No reason provided.					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
July 2015	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	NOAEL of ≥90% @ CTC of 52	40%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
July 2015	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	Survival in 100% Effluent of ≥ 50%	34%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
July 2015	001-1	Silver, Total	Average Monthly Maximum Daily	27 g/day 54 g/day	37 g/day 65 g/day
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
No reason provided.					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
July 2015	001-1	Fluoride	Maximum Daily	30 mg/L	35.5 mg/L
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
No reason provided.					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
August 2015	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	NOAEL of ≥90% @ CTC of 52	0%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
August 2015	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	Survival in 100% Effluent of ≥ 50%	0%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
September 2015	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	NOAEL of ≥90% @ CTC of 52	18%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
September 2015	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	Survival in 100% Effluent of ≥ 50%	28%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
September 2015	001-1	Lead, Total	Maximum Daily	13 g/day	17.8 g/day
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
No reason provided.					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
October 2015	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	NOAEL of ≥90% @ CTC of 52	16% 10%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
October 2015	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	Survival in 100% Effluent of ≥ 50%	24% 8%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
October 2015	001-1	Lead, Total	Maximum Daily	13 g/day	18 g/day
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
No reason provided.					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
November 2015	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	NOAEL of ≥90% @ CTC of 52	24%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
November 2015	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	Survival in 100% Effluent of ≥ 50%	28%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
November 2015	001-1	Lead, Total	Maximum Daily	13 g/day	24.3 g/day
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
No reason provided.					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
December 2015	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	NOAEL of ≥90% @ CTC of 52	54%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
December 2015	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	Survival in 100% Effluent of ≥ 50%	42%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
January 2016	001-1	Silver, Total	Average Monthly Maximum Daily	27 g/day 54 g/day	30 g/day 58 g/day
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
No reason provided.					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
July 2016	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	NOAEL of ≥90% @ CTC of 52	26%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
July 2016	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	Survival in 100% Effluent of ≥ 50%	24%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

MONTH/YEAR	DSN	PARAMETER VIOLATED	TYPE OF LIMIT	PERMITTED LIMIT	REPORTED VALUE
August 2016	001-1	Acute Toxicity *Daphnia pulex*	Maximum Daily	NOAEL of ≥90% @ CTC of 52	70%
REASON: ☐ **Equipment Related** ☐ **Operator Error** ☐ **Other** ☒ **Unknown**					
Unknown					

In June 2016, the permittee discovered that its flow meter was not programmed correctly, resulting in effluent flows being underreported since approximately 2012. The DMRs from 2015 forward were corrected using a factor to estimate what the flows and mass-based discharge rates would have been if the flow meter had been programmed correctly.

XI. OUTSTANDING ENFORCEMENT (RELATED TO WASTEWATER DISCHARGES):

- On April 3, 2012, Notice of Violation NOV WR IN 12 009 was issued to Summit because it violated its permit limit for pH (Maximum); this was determined by a grab sample collected on January 10, 2012. The NOV was closed on October 17, 2012.

- On August 27, 2012, Notice of Violation NOV WR IN 12 020 was issued to Summit because it violated its Maximum Instantaneous permit limit for Nickel; this was determined by a grab sample collected on June 11, 2012. The NOV was closed on October 17, 2012.

- On April 7, 2014, Notice of Violation NOV WR IN 14 403 was issued to Summit because it violated its pH limit. In addition, the pH alarm did not activate at the high level.

- On June 19, 2014, Notice of Violation NOV WR IN 14 015 was issued to Summit because it violated its Maximum Instantaneous permit limit for Lead; this was determined by a grab sample collected on April 28, 2014. In addition, the NOV also identified other violations of Maximum Instantaneous limits and indicated that the permittee had continuously underreported its pH, Maximum value since permit issuance.

- On August 28, 2014, Notice of Violation NOV WR IN 14 017 was issued to Summit because it violated its Maximum Instantaneous permit limit for Nickel; this was determined by a grab sample collected on June 23, 2014.

XII. SPILL HISTORY (LAST FIVE YEARS):

None

XIII. 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 categorical 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.

- **40 CFR 445: Landfills Point Source Category**. Summit has closed its former surface impoundment as a "landfill". However, surface impoundments are specifically excluded from the applicability of this categorical (40 CFR 445.1(b)). In addition, the only wastewater associated with the closed unit is the impacted groundwater and this wastestream is specifically excluded from the requirements of 40 CFR 445.1(d).

XIV. 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 Wash Water/Building Maintenance Wastewater; Tumbling Wastewater; On-Site Groundwater Remediation Wastewater; Drum Rinsing Wastewater; RO Backwash Water; Boiler Blowdown; Air Compressor Blowdown/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	✓			
Chlorine, Total Residual			✓	
Chloroform			✓	
Chromium	✓			
cis-1,2-Dichloroethylene				✓
Copper	✓			
Cyanide	✓			
Fluoride			✓	
Formaldehyde				✓
Gold				✓
Iron			✓	
Kjeldahl Nitrogen			✓	
Lead	✓			
Mercury				✓
Nickel	✓			
Nitrate				✓
Nitrite				✓
Nitrogen, Total			✓	
Oil & Grease	✓			
pH	✓			
Phosphorus			✓	
Silver	✓			
Tin				✓
Total Suspended Solids	✓			
Total Toxic Organics	✓			
1,1,1-Trichloroethane				✓
Trichloroethylene				✓
Zinc	✓			

NOTE: *E coli* is not a pollutant of concern

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 for 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 is 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 its 7Q10 flow (14.9 cfs). The allocations are as follows: cyanide, lead and nickel: 25% and silver: 50%. See Attachment 11 for information 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 categorical. 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, ammonia, and chloroform 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:

PARAMETER	UNITS	LIMITS					
		TECHNOLOGY (40 CFR 433.16)		TECHNOLOGY (RCSA 22a-430(4)(s)		WATER QUALITY *Water Quality Standards*, October 2013	
		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	269	540
Aluminum	g/day			1211	2422	163	327
Ammonia	mg/L					15.0	32.4
Ammonia	kg/day					9.13	19.68
Cadmium, Total	µg/L	70	110	70	110	0.14	0.21
Cadmium, Total	g/day	42	67	42	67	0.10	0.14
Chlorine, Total Residual	µg/L						
Chlorine, Total Residual	g/day						

PARAMETER	UNITS	LIMITS					
		TECHNOLOGY (40 CFR 433.16)		TECHNOLOGY (RCSA 22a-430(4)(s)		WATER QUALITY *Water Quality Standards,* October 2013	
		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
Chloroform	µg/L					470	686
Chloroform	g/day					285	416
Chromium, Total	µg/L	1710	2770	1000	2000	47	69
Chromium, Total	g/day	1035	1677	605	1211	32	47
Copper, Total	µg/L	2070	3380	1000	2000	13	26
Copper, Total	g/day	1253	2047	605	1211	9	18
Cyanide, Total	µg/L	Cyanide limits met at an internal point		Cyanide limits met at an internal point		61	123
Cyanide, Total	g/day					42	84
Formaldehyde	mg/L						
Fluoride	mg/L			20	30		
Fluoride	kg/day			12.1	18.1		
Gold	mg/L			0.1	0.5		
Gold	g/day			61	303		
Iron, Total	mg/L			3.0	5.0		
Iron, Total	g/day			1816	3027		
Kjeldahl Nitrogen Total	mg/L						
Lead, Total	µg/L	430	690	100	500	10	20
Lead, Total	g/day	260	418	61	303	6.7	13.4
Nickel, Total	µg/L	2380	3980	1000	2000	246	564
Nickel, Total	g/day	1441	2410	605	1211	168	385
Nitrate, Total	mg/L						
Nitrite, Total	mg/L						
Nitrogen, Total	lbs/day						
Oil & Grease	mg/L	26	52	10			
Oil & Grease	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	12	28
Silver, Total	g/day	145	260	61	303	8.0	19.4
Tin	mg/L			2.0	4.0		
Tin	g/day			1211	2422		
Total Suspended Solids	mg/L	31	60	20	30		
Total Suspended Solids	kg/day	18.7	36.3	12.1	18.1		
Total Toxic Organics	mg/L		2.12				
Zinc, Total	µg/L	1480	2610	1000	2000	39	65
Zinc, Total	g/day	896	1580	605	1211	26	44

Instantaneous limits are 1.5 times the maximum daily limit

At an average flow of 330,000 gpd:

PARAMETER	UNITS	LIMITS					
		TECHNOLOGY (40 CFR 433.16)		TECHNOLOGY (RCSA 22a-430(4)(s)		WATER QUALITY *Water Quality Standards,* October 2013 & *National Recommended Water Quality Criteria*	
		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	167	335
Aluminum	g/day			2498	4995	209	419
Ammonia	mg/L					7.87	16.9
Ammonia	kg/day					9.83	21.2
Cadmium, Total	µg/L	70	110	70	110	0.14	0.21
Cadmium, Total	g/day	87	137	87	137	0.18	0.26
Chlorine, Total Residual	µg/L						
Chlorine, Total Residual	g/day						
Chloroform	µg/L					470	686
Chloroform	g/day					588	857
Chromium, Total	µg/L	1710	2770	1000	2000	47	69
Chromium, Total	g/day	2135	3459	1249	2498	59	86
Copper, Total	µg/L	2070	3380	1000	2000	13	26
Copper, Total	g/day	2584	4221	1249	2498	16	32

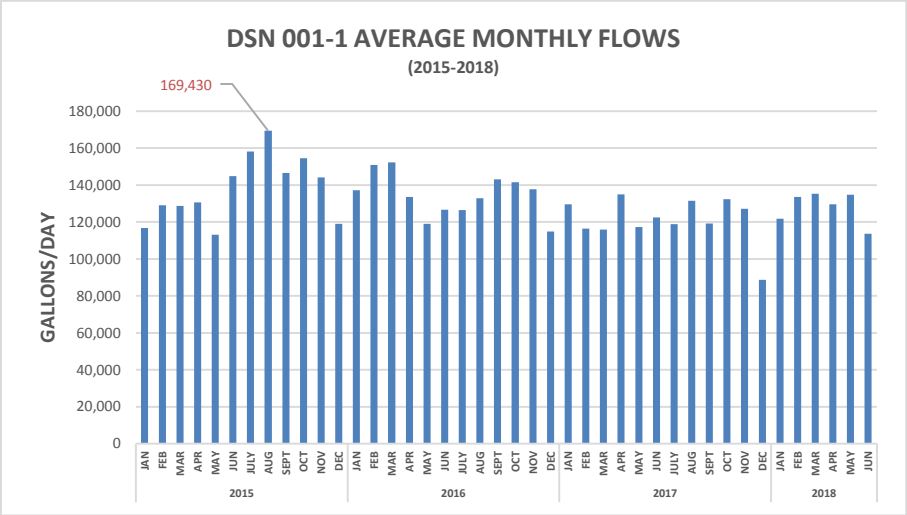
PARAMETER	UNITS	LIMITS					
		TECHNOLOGY (40 CFR 433.16)		TECHNOLOGY (RCSA 22a-430(4)(s)		WATER QUALITY *Water Quality Standards,* October 2013 & *National Recommended Water Quality Criteria*	
		AVERAGE MONTHLY LIMIT OR pH Minimum	MAXIMUM DAILY LIMIT OR pH Maximum	AVERAGE MONTHLY LIMIT	MAXIMUM DAILY LIMIT	AVERAGE MONTHLY LIMIT OR pH Minimum	MAXIMUM DAILY LIMIT OR pH Maximum
Cyanide, Total	µg/L	Cyanide limits met at an internal point		Cyanide limits met at an internal point		35	71
Cyanide, Total	g/day					44	89
Formaldehyde	mg/L						
Fluoride	mg/L			20	30		
Fluoride	kg/day			24.9	37.4		
Gold	mg/L			0.1	0.5		
Gold	g/day			125	624		
Iron, Total	mg/L			3.0	5.0		
Iron, Total	g/day			3746	6244		
Kjeldahl Nitrogen Total	mg/L						
Lead, Total	µg/L	430	690	100	500	5.8	12
Lead, Total	g/day	537	862	125	624	7.2	14.5
Nickel, Total	µg/L	2380	3980	1000	2000	144	331
Nickel, Total	g/day	2972	4970	1249	2498	180	413
Nitrate, Total	mg/L						
Nitrite, Total	mg/L						
Nitrogen, Total	lbs/day						
Oil & Grease	mg/L	26	52	10			
Oil & Grease	kg/day	32.4	64.9	12.4			
pH	SU	6.0	9.0			6.5	8.0
Silver, Total	µg/L	240	430	100	500	6.6	16
Silver, Total	g/day	300	537	125	624	8.3	19.9
Tin	mg/L			2.0	4.0		
Tin	g/day			2498	4995		
Total Suspended Solids	mg/L	31	60	20	30		
Total Suspended Solids	kg/day	38.7	74.9	24.9	37.4		
Total Toxic Organics	mg/L		2.13				
Zinc, Total	µg/L	1480	2610	1000	2000	39	65
Zinc, Total	g/day	1848	3259	1249	2498	49	81

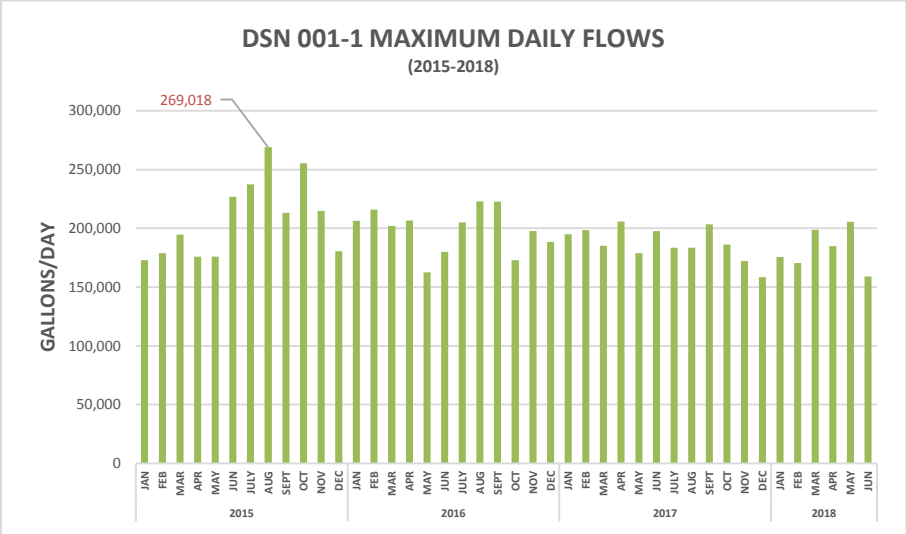
Instantaneous limits are 1.5 times the maximum daily limit

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

Limits for BOD_5 and total nitrogen are also included in the permit. In addition, the permit includes two sets of limits (i.e., Table A limits and Table B limits) based on two different average flows. See below for comments on these issues:

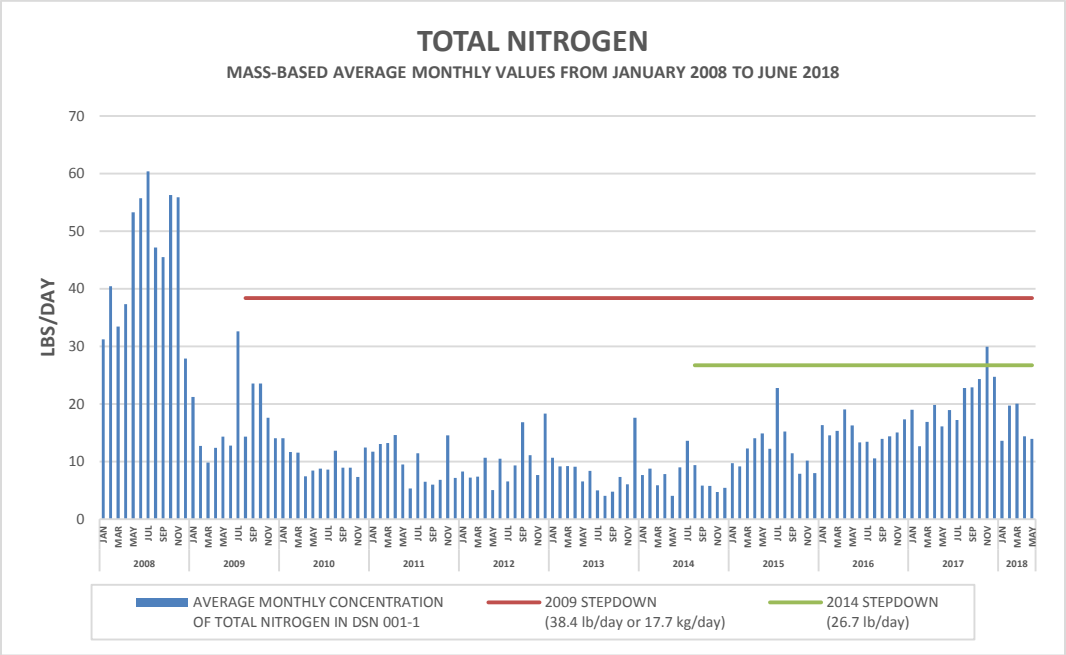
FLOW: The average monthly flow and maximum daily flow in the existing permit is 330,000 gpd and 400,000 gpd, respectively. Actual flows, since permit issuance, have been significantly lower than these values. The average flow will now be 160,000 gpd (including the proposed new wastestream) and the maximum daily flow will be 235,000 gpd.





BOD$_5$: BOD$_5$ 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 BOD$_5$ is 40.0 lbs/day. At an average flow of 330,000 gpd, the mass-based limit for BOD$_5$ is 82.5 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.



TOTAL PHOSPHORUS: The Department 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 should collect total phosphorus data.

I. WHOLE EFFLUENT TOXICITY:

Summit's existing permit requires quarterly acute toxicity testing using *Daphnia pulex* and *Pimephales promelas* and annual chronic toxicity testing using *Ceriodaphnia dubia* and *Pimephales promelas*. The existing permit includes two sets of acute toxicity limits: From permit issuance until June 21, 2011, the limits are $LC_{50} > 56\%$; 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 existing permit for chronic toxicity. Acute and chronic toxicity results of Summit's effluent from 2008 to present are as follows:

	ACUTE (48 HOURS)					
	Daphnia pulex	*Pimephales promelas*	*Daphnia pulex*	*Pimephales promelas*	*Daphnia pulex*	*Pimephales promelas*
	LC_{50}>56%	**LC_{50}>56%**	**≥90% Survival @ CTC of 52**	**≥90% Survival @ CTC of 52**	**≥50 % Survival in 100% effluent**	**≥50 % Survival in 100% effluent**
JAN 2008	90.85%	100%				
APR 2008	100%	100%				
JUL 2008	100%	100%				
OCT 2008	73.56%	100%				
JAN 2009	72.75%	88.15%				
APR 2009	71.6%	100%				
JUL 2009	100%	100%				
OCT 2009	85.11%	94.9%				
JAN 2010	100%	100%				
APR 2010	100%	100%				
JUL 2010	100%	100%				
OCT 2010	100%	100%				
JAN 2011	NOT REPORTED	NOT REPORTED				

	ACUTE (48 HOURS)					
	Daphnia pulex	*Pimephales promelas*	*Daphnia pulex*	*Pimephales promelas*	*Daphnia pulex*	*Pimephales promelas*
	LC_{50}>56%	**LC_{50}>56%**	**≥90% Survival @ CTC of 52**	**≥90% Survival @ CTC of 52**	**≥50 % Survival in 100% effluent**	**≥50 % Survival in 100% effluent**
APR 2011	NOT REPORTED	NOT REPORTED				
JUL 2011			75%	75%	90%	95%
OCT 2011			75%	100%	85%	100%
JAN 2012			100%	100%	75%	100%
APR 2012			100%	100%	74%	100%
JUL 2012			100%	100%	95%	100%
OCT 2012			100%	100%	84%	100%
JAN 2013			100%	100%	62%	74%
APR 2013			100%	100%	62%	100%
JUL 2013			100%	100%	58%	72%
OCT 2013			100%	100%	54%	100%
JAN 2014			75%	100%	68%	82%
APR 2014			75%	50%	84%	52%
JUL 14, 2014			100%	100%	66%	94%
JUL 21, 2014			94%	100%	60%	92%
OCT 2014			0%	100%	22%	96%
NOV 2014			12%	100%	8%	94%
DEC 2014			74%	100%	30%	100%
JAN 12, 2015			92%	100%	62%	100%
JAN 19, 2015			0%	98%	0%	100%
FEB 2, 2015			0%	96%	0%	98%
FEB 16, 2015			96%	100%	84%	98%
MAR 9, 2015			16%	96%	24%	100%
APR 3, 2015			8%	78%	8%	28%
MAY 4, 2015			92%	96%	80%	74%
JUN 22, 2015			12%	100%	4%	100%
JUL 20, 2015			40%	100%	34%	100%
AUG 3, 2015			0%	100%	0%	100%
AUG 17, 2015			94%	100%	80%	100%
SEP 14, 2015			18%	100%	28%	100%
OCT 5, 2015			16%	100%	24%	100%
OCT 19, 2015			10%	100%	8%	100%
NOV 16, 2015			24%	100%	28%	100%
DEC 7, 2015			54%	100%	42%	100%
JAN 18, 2016			100%	100%	96%	100%
FEB 1, 2016			100%	100%	94%	100%
MAR 1, 2016			96%	100%	80%	100%
APR 4, 2016			100%	100%	94%	100%
JUL 29, 2016			26%	100%	24%	100%
AUG 29, 2016			70%	100%	82%	100%
SEP 12, 2016			96%	100%	96%	100%
OCT 19, 2016			96%	100%	56%	98%
NOV 21, 2016			96%	100%	84%	100%
JAN 10, 2017			98%	100%	82%	100%
APR 4, 2017			94%	100%	80%	100%
JUL 2017			94%	100%	94%	100%
OCT 3, 2017			100%	100%	100%	100%
JAN 4, 2018			100%	100%	100%	100%
APR 3, 2018			100%	100%	100%	100%

NOTE: A grab sample of DSN 001-1 was analyzed in September 2012 to determine compliance with the requirements in Section 10(D) of the existing permit. The sample met the Instantaneous Maximum limits for Aquatic Toxicity (i.e., the LC_{50} = 64.24% for *Daphnia pulex*; the LC_{50} = 68.43% for *Pimephales promelas*).

	CHRONIC (7 DAYS)							
	Pimephales promelas Dilution Series: 100%, 64%, 32%, 16%, 8%, and 4% Dilution Water: Naugatuck River				*Ceriodaphnia dubia* Dilution Series: 100%, 64%, 32%, 16%, 8% and 4% Dilution Water: Naugatuck River			
	48 HOUR SURVIVAL	7-DAY SURVIVAL	7-DAY SURVIVAL	7-DAY GROWTH	48 HOUR SURVIVAL	7-DAY SURVIVAL	7-DAY SURVIVAL	7-DAY REPRODUCTION
	LC_{50}	LC_{50}	C-NOEC	C-NOEC	LC_{50}	LC_{50}	C-NOEC	C-NOEC
SEP 2011	NOT REPORTED	NOT REPORTED	32%	32%	81.6%	NOT REPORTED	16%	16%
SEP 2012	>100%	NOT REPORTED	32%	32%	8.20%	NOT REPORTED	<4%	<4%
AUG 2013	82.8%	NOT REPORTED	32%	32%	2.07%	NOT REPORTED	<4%	<4%
AUG 2014	NOT REPORTED	NOT REPORTED	NOT REPORTED	NOT REPORTED	15.5%	NOT REPORTED	NOT REPORTED	NOT REPORTED
AUG 2015	NOT REPORTED	NOT REPORTED	100%	100%	6.77%	NOT REPORTED	<4%	
SEP 2016	NOT REPORTED	NOT REPORTED	100%	100%	NOT REPORTED	NOT REPORTED	4%	<4%
JUL 2017	NOT REPORTED	NOT REPORTED	100%	100%	NOT REPORTED	NOT REPORTED	32%	4%

The segment of the Naugatuck River that Summit discharges into (6900-00_05) is identified on the Department's 2016 *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 TU_a/second	49.17 "gallons" of TU_c/second
$\frac{16.22\ "gallons" of\ TUa}{second} * \frac{86{,}400\ seconds}{day} = \frac{1{,}401{,}408\ "gallons" of\ TUa}{day}$	$\frac{49.17\ "gallons" of\ TUc}{second} * \frac{86{,}400\ seconds}{day} = \frac{4{,}248{,}288\ "gallons" of\ TUc}{day}$
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)
$\frac{1{,}401{,}408\ "gallons" of\ TUa}{day} * \frac{1\ day}{160{,}000\ gallons} =$ 8.75 TUa	$\frac{4{,}248{,}288\ "gallons" of\ TUc}{day} * \frac{1\ day}{160{,}000\ gallons} =$ 26.5 TUc
WLA_a= 8.75 TU_a	**WLA_c=26.5 TU_c**
$TUa = \frac{100}{LC_{50}}$	$TUc = \frac{100}{NOEC}$

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 being made, as noted below. One significant change is that the 7Q10 flow used for the development of the TMDL was 12.6 cfs; it 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 $WLA_{a,c}$:

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

$WLA_{a,c}$ = 8.75 TU_a * 10

$WLA_{a,c}$ = 87.5 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
$LTA_{a,c}$ = 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 = 28.0 * 0.527
LTA_c = 14.8

[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 = 14.8 * 1.55 **AML = 22.9 TU_c**	MDL = LTA * $e^{[z\sigma - 0.5\sigma^2]}$ MDL = 14.8 * 3.11 **MDL = 46.0 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 4.60. Since $TU_a = \frac{100}{LC_{50}}$, 4.60 TU_a results in an LC_{50} of 21%. Therefore, the MDL for acute toxicity is **21%**, 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 2.29. Since $TU_a = \frac{100}{LC_{50}}$, 2.29 TU_a results in an LC_{50} of 43%. Therefore, the AML for acute toxicity is **43%**, expressed as an LC_{50}.

6. **Chronic Toxicity (MDL)**: Since $TU_c = \frac{100}{NOEC}$, 46.0 TU_c results in a NOEC 2.17%. Therefore, the MDL for chronic toxicity is **2.1%**, expressed as C-NOEC.

7. **Chronic Toxicity (AML)**: Since $TU_c = \frac{100}{NOEC}$, 22.9 TU_c results in a NOEC 4.37%. Therefore, the AML for chronic toxicity is **4.3%**, expressed as C-NOEC.

At an average flow of 330,000 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 TU_a/second	49.17 "gallons" of TU_c/second

$\frac{16.22\ "gallons"of\ TUa}{second} * \frac{86{,}400\ seconds}{day} = \frac{1{,}401{,}408\ "gallons"of\ TUa}{day}$	$\frac{49.17\ "gallons"of\ TUc}{second} * \frac{86{,}400\ seconds}{day} = \frac{4{,}248{,}288\ "gallons"of\ TUc}{day}$
Divide the WLA by the permitted monthly average flow (330,000 gallons/day)	Divide the WLA by the permitted monthly average flow (330,000 gallons/day)
$\frac{1{,}401{,}408\ "gallons"of\ TUa}{day} * \frac{1\ day}{330{,}000\ gallons} =$ 4.25 TUa	$\frac{4{,}248{,}288\ "gallons"of\ TUc}{day} * \frac{1\ day}{330{,}000\ gallons} =$ 12.87 TUc
WLA_a= 4.25 TU_a	**WLA_c=12.87 TU_c**
$TUa = \frac{100}{LC_{50}}$	$TUc = \frac{100}{NOEC}$

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

$WLA_{a,c}$ (in TU_c) = WLA_a (in TU_a) * ACR
$WLA_{a,c}$ = 4.25 TU_a * 10
$WLA_{a,c}$ = 42.5 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:

$LTA_{a,c}$ = $WLA_{a,c}$ * $e^{[0.5\sigma^2 - z\sigma]}$
$LTA_{a,c}$ = 42.5 * 0.321
$LTA_{a,c}$ = 13.64

[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 = 12.87 * 0.527
LTA_c = 6.78

[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 = 6.78 * 1.55 **AML = 10.5 TU_c**	MDL = LTA * $e^{[z\sigma - 0.5\sigma^2]}$ MDL = 6.78 * 3.11 **MDL = 21.1 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 2.11. Since $TU_a = \frac{100}{LC_{50}}$, 2.11 TU_a results in an LC_{50} of 47.4%. Therefore, the MDL for acute toxicity is **48%**, 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 1.05. Since $TU_a = \frac{100}{LC_{50}}$, 1.05 TU_a results in an LC_{50} of 95.2%. Therefore, the AML for acute toxicity is **96%**, expressed as an LC_{50}.

6. **Chronic Toxicity (MDL)**: Since $TU_c = \frac{100}{NOEC}$, 21.1 TU_c results in a NOEC 4.74%. Therefore, the MDL for chronic toxicity is **4.7%**, expressed as C-NOEC.

7. **Chronic Toxicity (AML)**: Since $TU_c = \frac{100}{NOEC}$, 10.5 TU_c results in a NOEC 9.52%. Therefore, the AML for chronic toxicity is **9.6%**, 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 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)	Instantan-eous (mg/L)	Average Monthly (mg/L)	Maximum Daily (mg/L)	Instantan-eous (mg/L)
Cyanide, Amenable	0.32	0.86	1.29	0.1	0.2	0.3

L. WASTESTREAMS AUTHORIZED FOR DISCHARGE UNDER DSN 001B:

Hexavalent-chromium bearing wastewaters

M. BASIS FOR DSN 001B-1 PARAMETERS, LIMITS, AND MONITORING FREQUENCIES:

This is a newly-permitted internal point for monitoring Hexavalent Chromium. State limits apply to this monitoring point:

DSN 001B

PARAMETER	40 CFR 433.16			RCSA 22a-430-4(s)(2)		
	Average Monthly (mg/L)	Maximum Daily (mg/L)	Instantan-eous (mg/L)	Average Monthly (mg/L)	Maximum Daily (mg/L)	Instantan-eous (mg/L)
Hexavalent Chromium				0.1	0.2	0.3

XV. 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.

XVI. 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).

XVII. SOLVENT MANAGEMENT PLAN

Summit's *Solvent Management Plan*, 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)).

XVIII. ANTI-BACKSLIDING

An anti-backsliding analysis was conducted on the final effluent limitations. Anti-backsliding provisions are met. See Attachment 14 for a summary of the limits in the existing permit and the limits in the proposed permit.

XIX. ANTIDEGRADATION

The renewed permit does not reflect any new or expanded discharges as authorized upon issuance. However, the permittee is proposing, during this permit cycle, to treat its on-site groundwater. In order to obtain authorization to treat and discharge this wastestream, the permittee must satisfy to the Commissioner that the treatment of the groundwater will be accomplished in a manner such that all permit limits will be complied with and that all antidegradation requirements be met.

XX. SPECIAL CONDITIONS/COMPLIANCE SCHEDULE

1. The permittee must demonstrate that its wastewater treatment system can provide the necessary treatment of the on-site groundwater. RCSA section 22a-430-4(*l*)(4)(F) allows the commissioner to include any condition in a permit which he or she deems reasonably necessary to ensure compliance with chapter 446k of the Connecticut General Statutes and regulations adopted thereunder as amended, to ensure that his or her actions are consistent with the CWA and to ensure proper operation of a treatment facility or any other part thereof. This condition is added in accordance with that provision. This requirement is included in Section 10(A) of the permit.

2. The permittee must notify the Department and get written approval prior to using the hexavalent chromium treatment system. RCSA section 22a-430-4(*l*)(4)(F) allows the commissioner to include any condition in a permit which he or she deems reasonably necessary to ensure compliance with chapter 446k of the Connecticut General Statutes and regulations adopted thereunder as amended, to ensure that his or her actions are consistent with the CWA and to ensure proper operation of a treatment facility or any other part thereof. This condition is added in accordance with that provision. This requirement is included in Section 10(B) of the permit.

3. The Permittee cannot presently meet water-quality based limits for: Copper and Silver. Therefore, Tables A and B of this permit include interim limits for this parameters. These interim limits are based on the statistical procedures set forth in Appendix E of the TSD. [See Attachment 15]. Section 10 of the permit include a compliance schedule which requires the permittee to undertake remedial actions leading to compliance with final limits for these parameters, which are included in Table A and Table B of the permit. These remedial actions must be accomplished as soon as possible. Until the remedial actions have been fully implemented to the satisfaction of the Commissioner, the permittee shall provide the Department with quarterly status reports describing the efforts that it has taken to implement the remedial actions and meet its final permit limits.

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

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

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

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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)

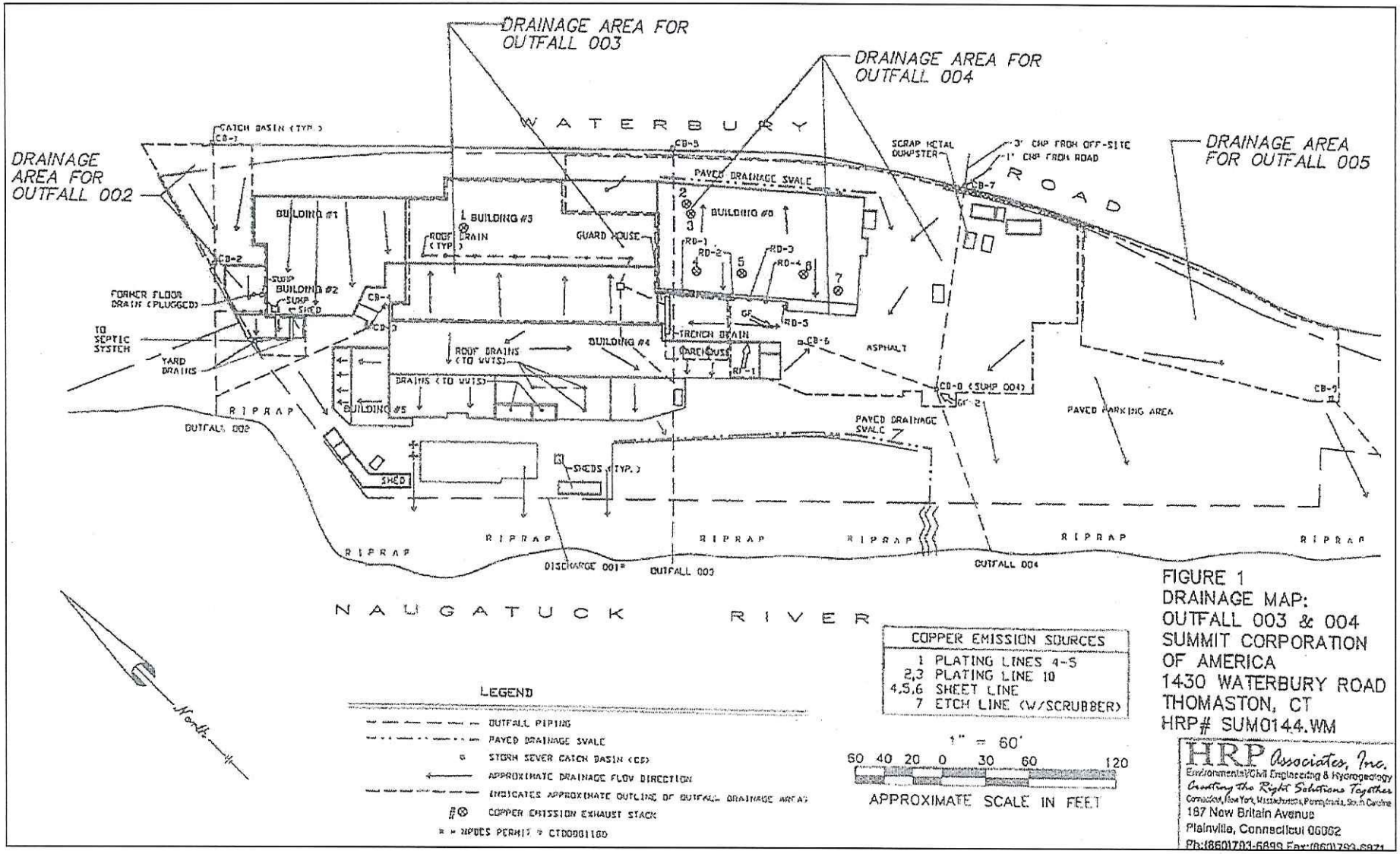
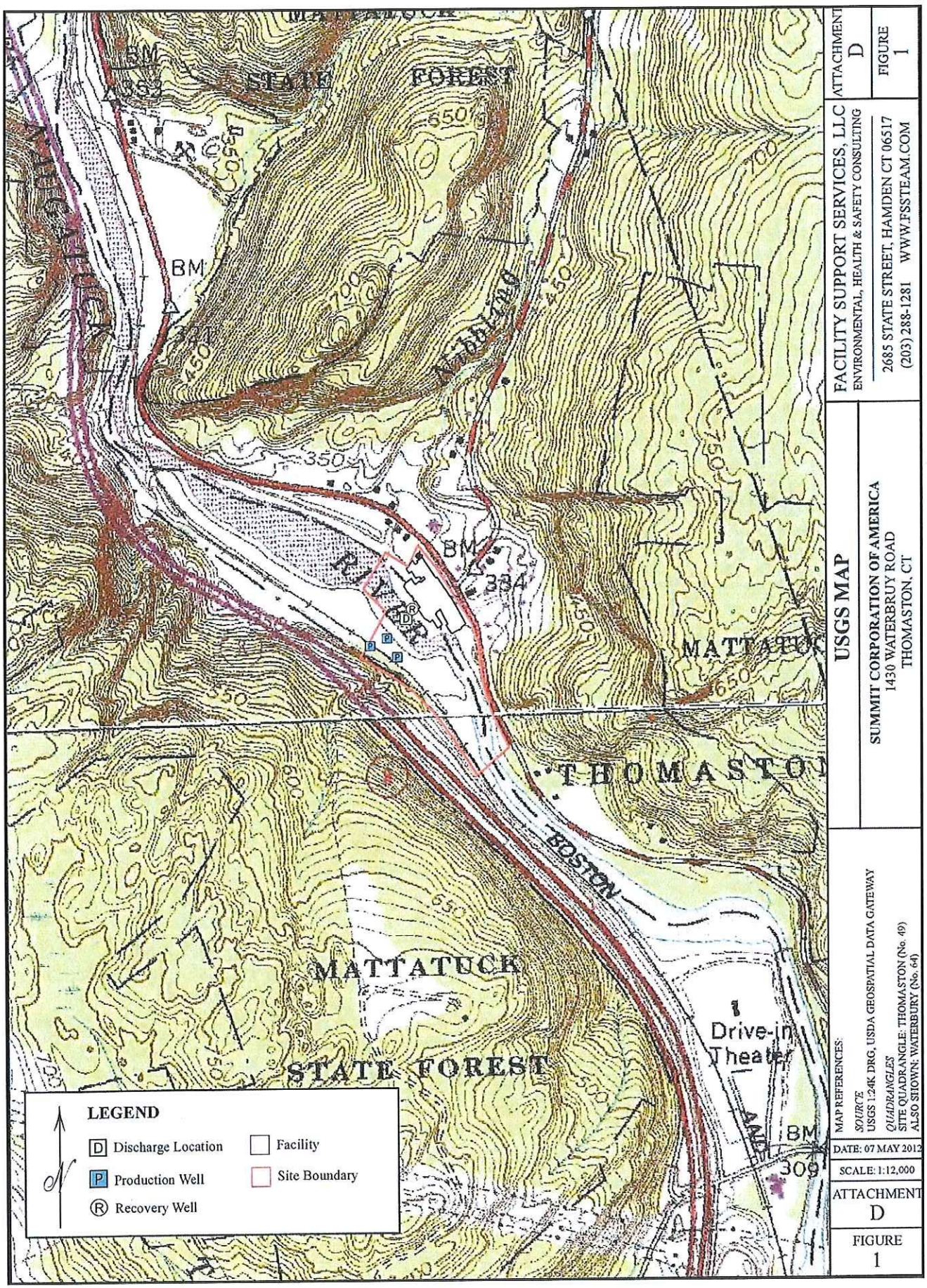


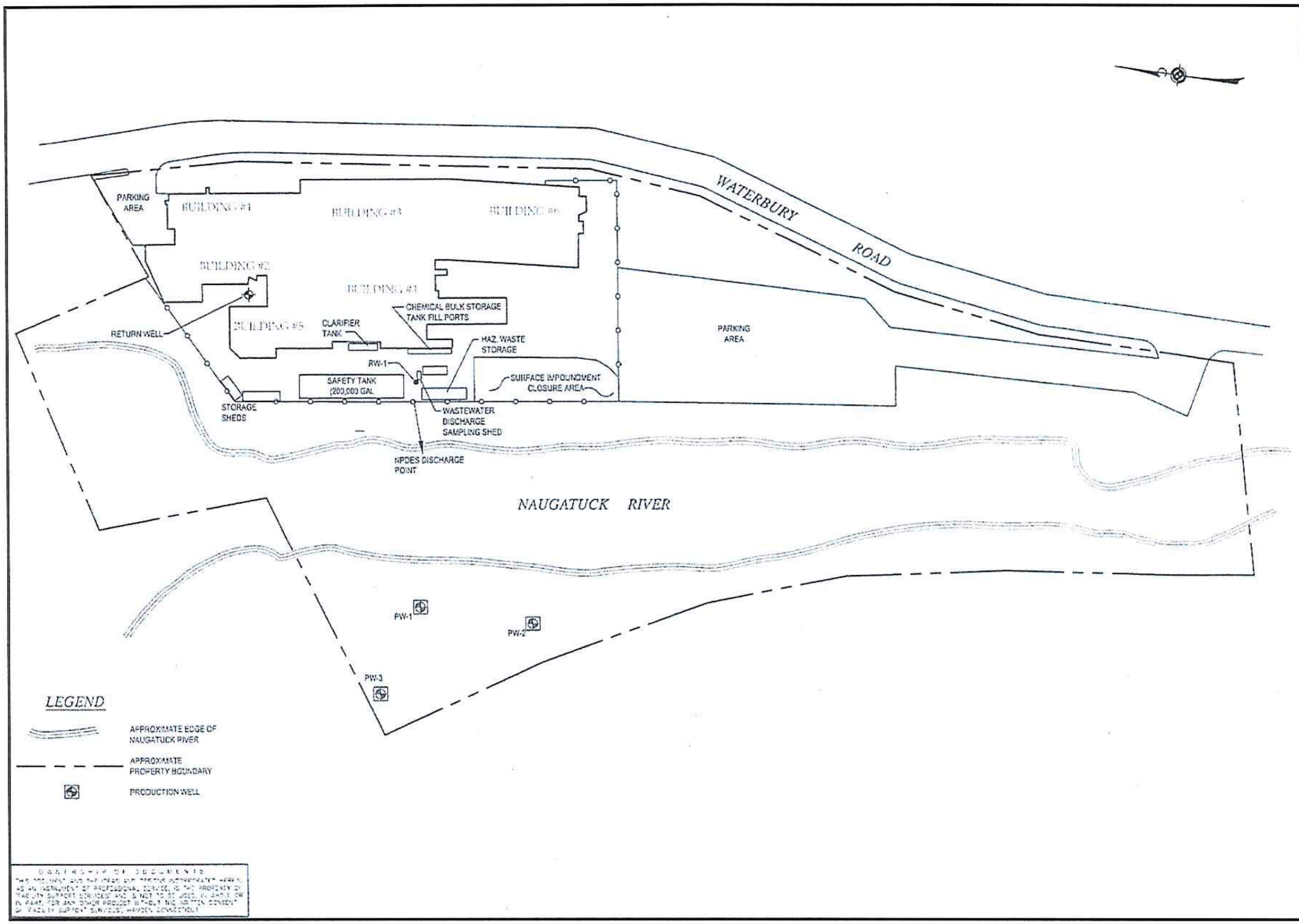
FIGURE 1
DRAINAGE MAP:
OUTFALL 003 & 004
SUMMIT CORPORATION OF AMERICA
1430 WATERBURY ROAD
THOMASTON, CT
HRP# SUM0144.WM

HRP Associates, Inc.
Environmental/Civil Engineering & Hydrogeology
Creating The Right Solutions Together
Connecticut, New York, Massachusetts, Pennsylvania, South Carolina
187 New Britain Avenue
Plainville, Connecticut 06062
Ph:(860)793-6899 Fax:(860)793-6971

ATTACHMENT 1

ATTACHMENT 2





FSS 39211
ATTACHMENT F
FIGURE 1

Facility Support Service, LLC
Environmental & Safety Consulting Engineers
2685 State Street, Hamden, CT. 06517
Phone: (203) 288-1281 www. FSSteam.com

SITE PLAN
SUMMIT CORPORATION OF AMERICA
1430 WATERBURY ROAD
THOMASTON, CONNECTICUT

MAP REFERENCE

DATE: JUNE 11, 2012
SCALE: NOT TO SCALE
PROJECT NO. 39211
ATTACHMENT F
FIGURE 1

ATTACHMENT 3

ATTACHMENT 4

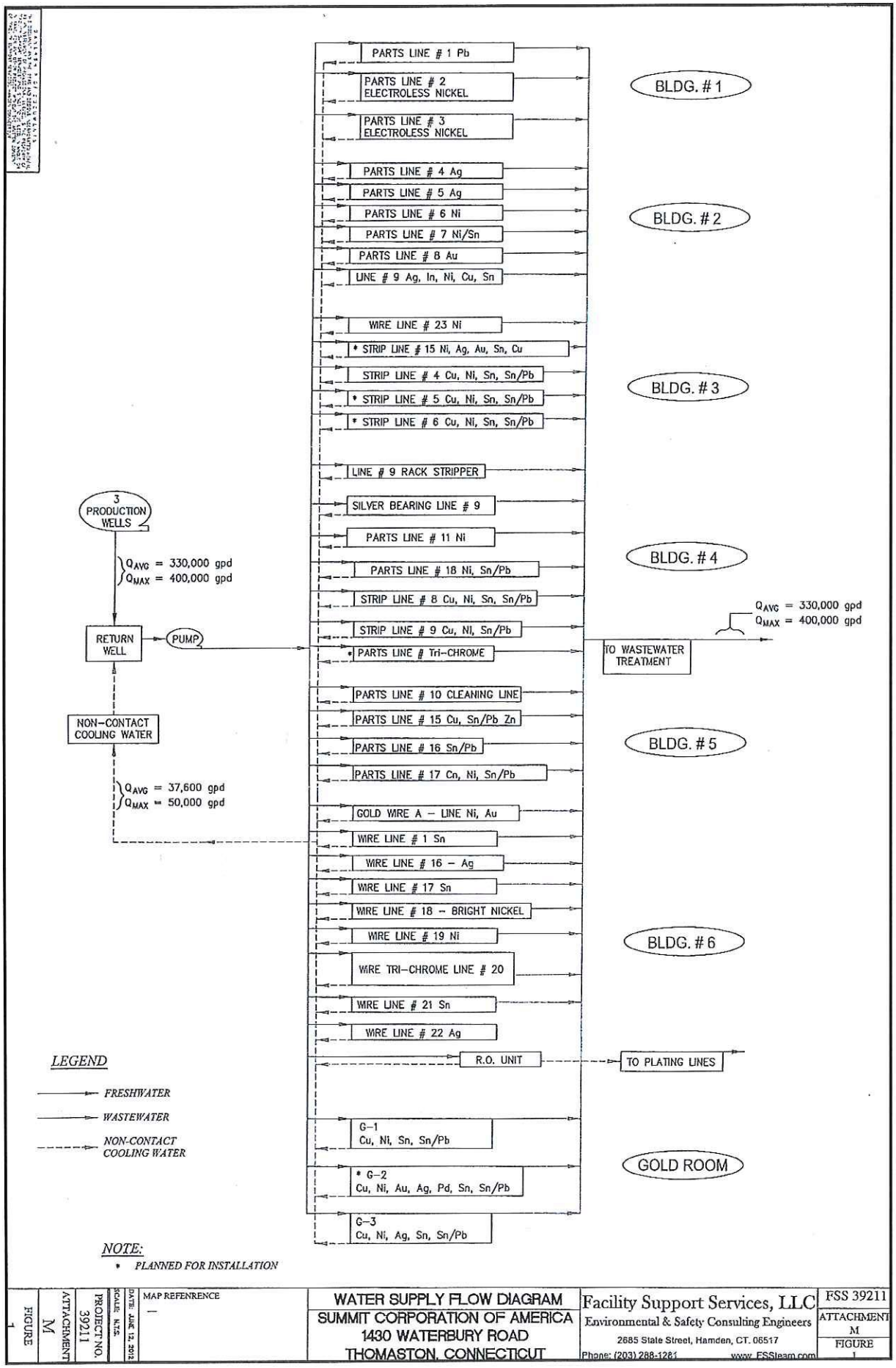
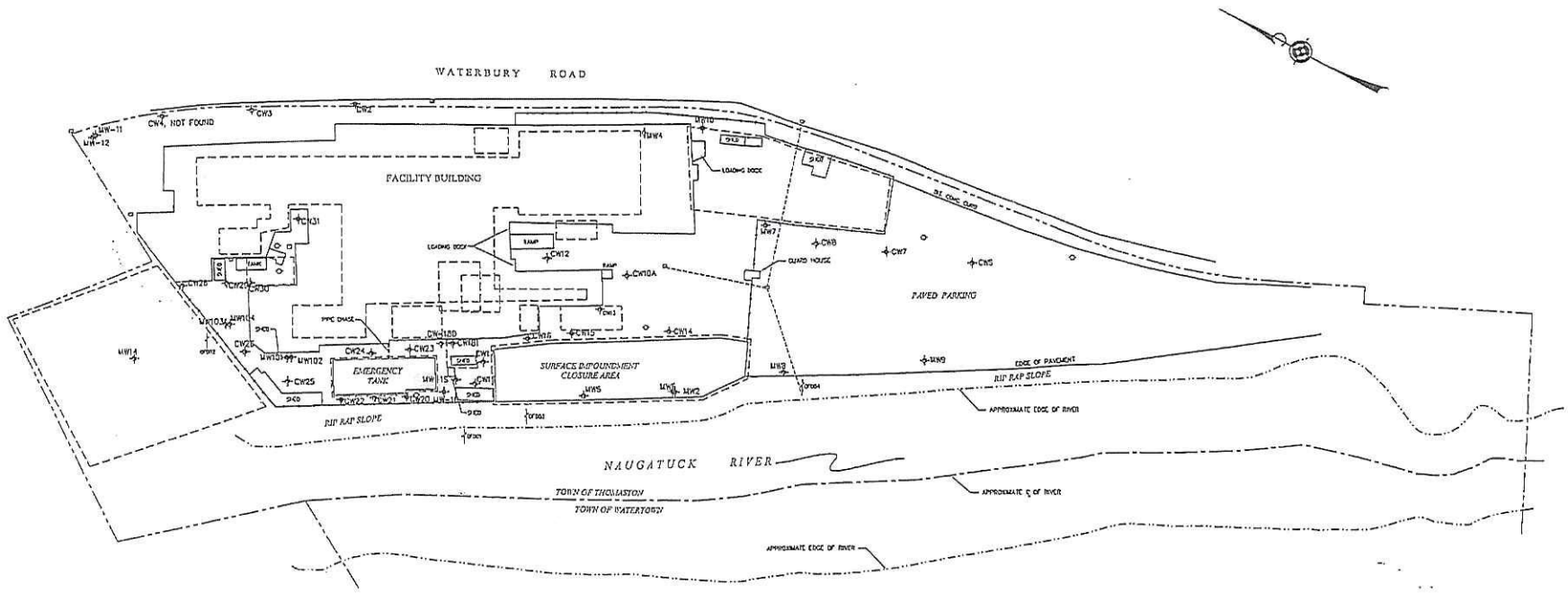


FIGURE 1	ATTACHMENT M	PROJECT NO. 39211	SCALE: N.T.S.	DATE: JUNE 12, 2012	MAP REFENRENCE —	WATER SUPPLY FLOW DIAGRAM SUMMIT CORPORATION OF AMERICA 1430 WATERBURY ROAD THOMASTON, CONNECTICUT	Facility Support Services, LLC Environmental & Safety Consulting Engineers 2685 State Street, Hamden, CT. 06517 Phone: (203) 288-1281 www.FSSteam.com	FSS 39211 ATTACHMENT M FIGURE 1



AREAS OF ENVIRONMENTAL CONCERNS (AEC)

- CERCLA (DELISTED) METAL HYDROXIDE DEWATERING AREA
- FORMER WASTEWATER TREATMENT SLUDGE LAGOONS (CLOSED)
- FORMER UNLINED WASTEWATER INFILTRATION BASINS/ EMERGENCY WASTEWATER STORAGE TANK
- FORMER SPEAL TANK
- FORMER HAZARDOUS WASTE STORAGE BUILDING
- FORMER PLATING WASTEWATER TROUGHS
- 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

- MW3 ✛ MONITORING WELL CURRENT
- CW3 ✛ MONITORING WELL FORMER, CW-1, CW-22, CW-28 & CW-31 NOT FOUND
- SOIL VAPOR EXTRACTION WELL
- CB CATCH BASIN
- DP004 OUTFALL
- 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 Hereon From Map Entitled "Property To Be Acquired By Summit Corporation Of America, Formerly Property Of Kaweckl Beryleo Industries, Inc., Thomaston And Watertown, Connecticut." Dated February 1950: Scale 1"=40'; By L.T. Scott-Smith Co.-Surveyors-Waterbury, Connecticut

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

0 30 60 90 120 180 240
Scale in Feet

Facility Support Services, LLC Environmental & Safety Consulting Engineers	1085 State Street Hamden CT 06517 (203) 288-1281
DATE: 07/22/08 DRAWN BY: M.D. APPROVED BY: J.C. CAD FILE NO. SCALE: AS SHOWN REF. MAPS: SEE NOTES	SITE PLAN SUMMIT CORP. OF AMERICA WATERBURY ROAD THOMASTON, CONNECTICUT 2

ATTACHMENT 5

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	180	230	300	280	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	280	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	680
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

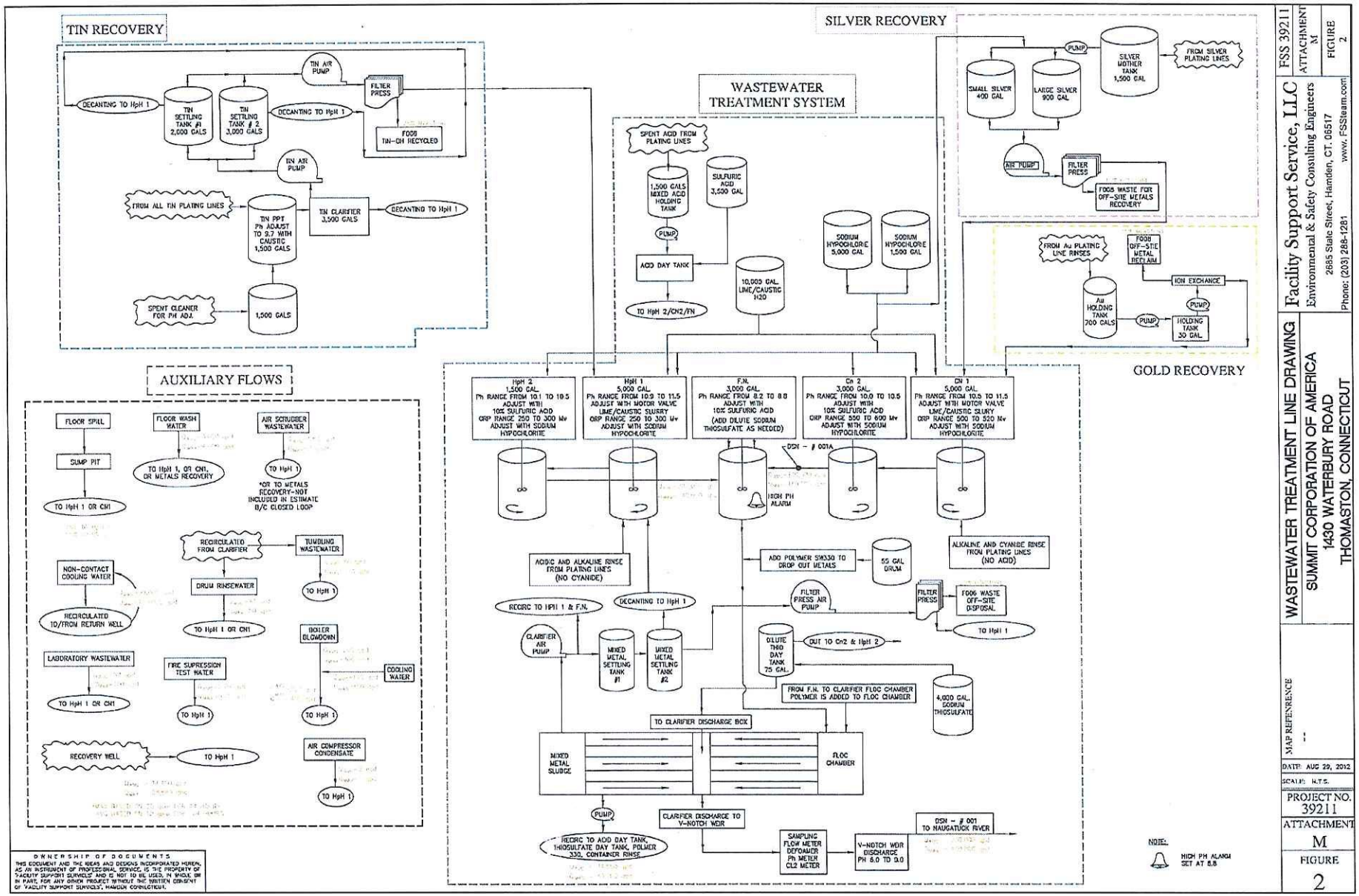
	3/11/2008	9/18/2008	3/24/2009	9/16/2009	4/7/2010	11/4/2010	3/14/2011	9/23/2011	3/26/2012
Barium	ND	ND	170	ND	ND	ND	ND	60	ND
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	ND	ND	11	ND	ND	ND	ND	ND	ND
Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND
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

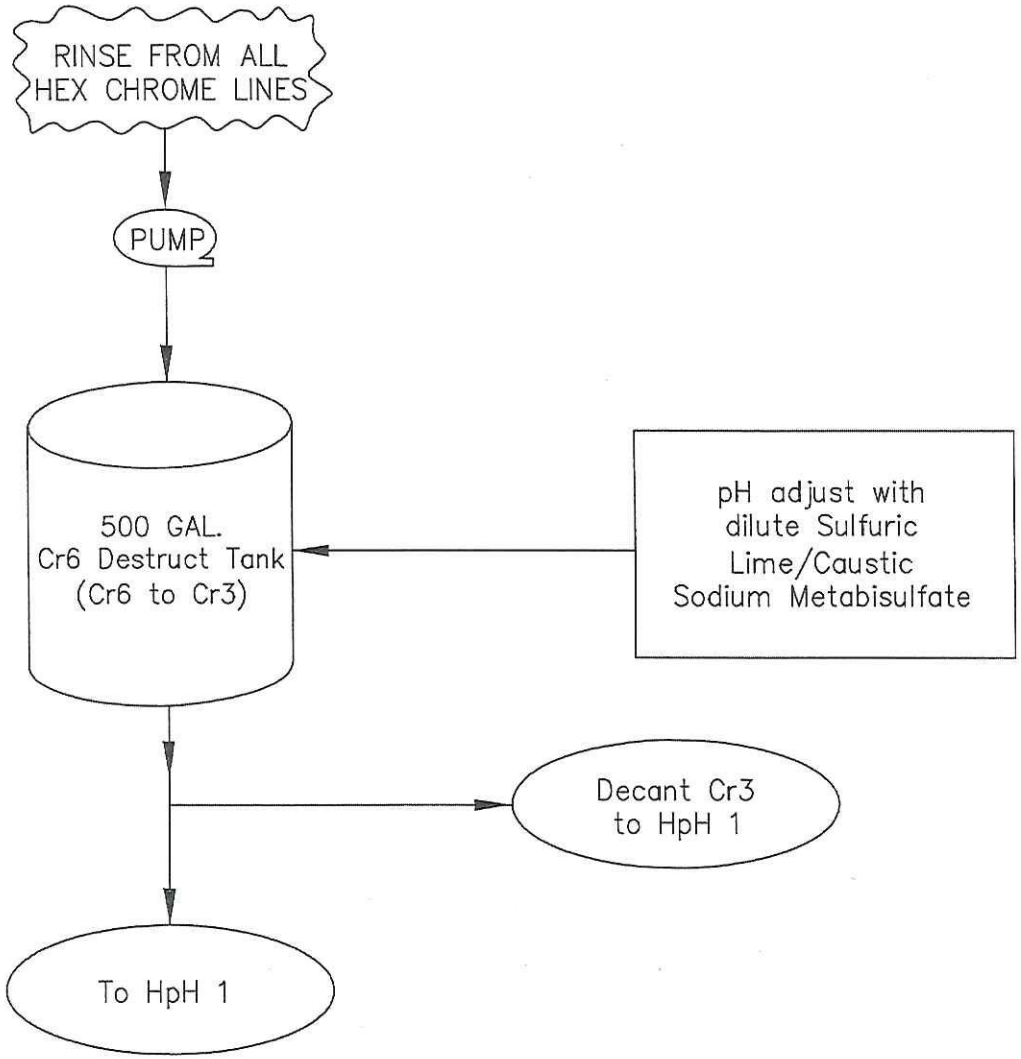
MW-10

	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



ATTACHMENT 7



FSS 39211 | ATTACHMENT N | FIGURE 1

Facility Support Services, LLC
Environmental & Safety Consulting Engineers
2685 State Street, Hamden, CT. 06517
Phone: (203) 288-1281
www. FSSteam.com

PROPOSED Cr VI DESTRUCT SYSTEM
SUMMIT CORPORATION OF AMERICA
1430 WATERBURY ROAD
THOMASTON, CONNECTICUT

MAP REFERENCE: -

DATE: June 13, 2012

SCALE: N.T.S.

PROJECT NO. 39211

ATTACHMENT N

FIGURE 1

ATTACHMENT 8

ATTACHMENT 9

DSN 001-1: METAL FINISHING WASTEWATERS; BUILDING MAINTENANCE WASTEWATERS; SCRUBBER WASTEWATERS

2008

PARAMETER	Units	January 2008-June 2011			JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEPT		OCT		NOV		DEC		VIOLATIONS OF AVERAGE MONTHLY LIMIT	VIOLATIONS OF MAXIMUM DAILY LIMIT
		Flow/Time-BasedLimits		Instantaneous Limits																										
		Average Monthly	Maximum Daily		Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily		
Aluminum, Total	µg/L	2000	4000		103	210	52	120	36	70	50	90	70	130	1140	2800	60	60	50	90	70	160	40	70	90	120	20	20	0	0
BOD_5	kg/day	42.7			0.00	0.00	5.00	5.00	7.82	7.82	7.00		11.1		0.0		0.0		11.2	11.2	6.25	10.1	8.8	17.6	2.81	2.81	16.9	16.9	0	
Cadmium, Total	g/day	23	46		0.0	0.0											0.0	0.0											0	0
Cadmium, Total	µg/L	100	500		0	0											0	0											0	0
Chlorine, Total Residual	µg/L	327	665		33	50	64	78	40	50	35	42	32	37	48	57	26	33	30	38	30	40	40	60	30	30	30	30	0	0
Chloroform	µg/L	—	—			113		143		99		171		74		511		638		178		435		376		245		377		
Chromium, Total	µg/L	1000	2000		0.000	0.000												0.000											0	0
Copper, Total	g/day	590	1100		79	102	44	67	84	130	193	328	79	111	63	114	45	51	52	58	83	162	38	49	41	60	33	40	0	0
Copper, Total	µg/L	474	876		140	200	68	110	136	180	295	490	110	160	100	180	77	90	80	90	140	260	70	80	80	110	80	120	0	0
Cyanide, Free	mg/L	0.1	0.2		0.01	0.01	0.01	0.01	0.01	0.01	0.013	0.052	0.00	0.00	0.00	0.00	0.00	0.00	0.004	0.013	0.008	0.03	0.003	0.01	0.014	0.025	0.013	0.02	0	0
Cyanide, Total	g/day	193	386		9	16	24	48	16	40	15	56	14	28	15	24	12	27	33	54	40	59	40	70	40	50	5	30	0	0
Cyanide, Total	µg/L	220	400		173	32	24	78	28	55	32	90	14	40	22	40	24	48	65	82	80	100	60	110	80	100	40	60	0	0
Duration of Daily Discharge	hr/day	—	—			24		24		24		24		24		24		24		24		24		24		24		24		
Flow Rate, Average Daily	gpd	330,000			166,683		166,683		161,653		161,653		156,920		143,404		143,404		145,829		120,729		109,552		93,035		89,524		0	
Flow, Day of Sampling	gpd		400,000			166,100		188,500		190,287		176,998		189,600		179,000		158,300		174,100		166,800		164,400		148,800		133,300		0
Flow, Maximum During 24 Hours	gpd		400,000			344,800		344,800		230,289		197,760		196,400		216,900		344,800		191,300		178,100		169,600		148,800		149,700		0
Fluoride, Total	mg/L	20	30		4.63	9.0	4.625	9.0	6.6	9.3	3.29	5.9	3.09	5.9	1.65	2.5	3.54	4.60	1.88	2.9	1.8	4.5	2.1	2.7	1.9	2.5	2.1	3.5	0	0
Gold, Total	mg/L	0.1	0.5		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0	0
Indium, Total	mg/L	—	—			0.01		0.01		0.01		0.01		0.01		0.01		0.01		0.01		0.01		0.01		0.01		0.01		
Iron, Total	mg/L	3.0	5.0		0.00	0.00	0.000	0.00	0.032	0.04	0.033	0.04	0.033	0.04	0.036	0.04	0.033	0.04	0.033	0.04	0.03	0.04	0.04	0.04	0.03	0.04	0.03	0.04	0	0
Lead, Total	g/day	45	89		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0
Lead, Total	µg/L	16	48		0.0	0.0	0.0	0.0	0.0	0.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel, Total	µg/L	653	1210		630	740	605	710	504	620	653	750	650	900	396	580	330	370	340	480	410	650	590	790	570	680	440	540	0	0
Nickel, Total	g/day																													
Nitrogen, Ammonia	mg/L	10	20		0.71	0.54	2.45	3.7	2.28	3.7	2.45	3.7	1.96	3.3	1.66	2.8	2.1	4.4	2.01	2.6	2.3	3.7	2.29	3.7	5.71	20.0	3.16	4.6	0	0
Nitrogen, Kjeldahl	mg/L	—	—		10.30	11.6		10.4		12.4		14		18		13.6		14.4		16.2		14		10		20.4		9.9		
Nitrogen, Nitrate	mg/L	—	—			28.97		20.24		19.79		20.41		48.58		53.66		53.7		26.6		29.3		50.18		52.4		24.4		
Nitrogen, Nitrite	mg/L	—	—																											
Nitrogen, Total	mg/L				25.10	35.11		44.11		22.54		22.17		38.19		56.96		72.5		40.73		49.7		57.80		56.4		32.9		
Nitrogen, Total	kg/day	17.7																												
Nitrogen, Total	lbs/day	38.9			31.19	47.85	40.45	61.53	33.41	47.87	37.32	44.35	53.27	73.32	55.72	77.88	60.36	92.50	47.15	53.73	45.51	69.08	56.28	79.19	55.87	69.19	27.86	36.66	0	0
Oil & Grease, Total	mg/L	10	15		0.92	1.1	1.142	2.4	1.32	2.08	2.32	3.60	1.12	2.07	1.44	3.13	2.62	3.50	1.38	1.6	1.8	2.7	1.7	2.0	1.1	1.3	1.6	2.1	0	0
Organics, Total Toxic (TTO)	mg/L			1.0		0.119												0.176												0
Palladium, Total	mg/L					0.01		0.01		0.01		0.01		0.01		0.01		0.01		0.01		0.01		0.01		0.01		0.01		0
pH, Day of Sampling	SU			6.0-9.0	8.7	9.0	8.7	9.0	8.6	9.0	8.7	9.0	8.5	9.0	8.8	9.0	8.6	8.9	8.6	8.9	8.6	9.0	8.7	9.0	8.7	9.0	8.8	9.0	0	0
pH, Continuous	SU			6.0-9.0	8.7	9.0	8.7	9.0	8.6	9.0	8.7	9.0	8.5	9.0	8.8	9.0	8.6	8.9	8.6	8.9	8.6	9.0	8.7	9.0	8.7	9.0	8.8	9.0	0	0
Silver, Total	g/day	27	54		40	50	27	31	20	36	16	46	26	35	15	27	10	17	10	19	13	19	10	18	10	16	9	10	1	0
Silver, Total	µg/L	100	430		70	100	43	50	32	50	25	70	38	50	24	40	17	30	17	30	20	30	20	30	20	30	20	20	0	0
Solids, Total Suspended	mg/L	20	30		4.3	7.0	4.0	7.0	3.6	7.0			2.5	5.0	4.2	9.0	3.3	4.0	4.33	6.0	4.4	7.0	1.8	4.0	3.3	5.0	2.3	4.0	0	0
Surfactants (MBAS)	mg/L	—	—			0.00		0.35		0.16		0.16		0.08		0.00		0.36		0.52		0.22		0.53		0.22		0.18		
Tin, Total	mg/L	2.0	4.0		0.1125	0.15	0.13	0.15	0.144	0.23	0.123	0.22	0.09	0.12	0.30	0.69	0.19	0.26	0.13	0.31	0.28	0.43	0.07	0.09	0.005	0.17	0.14	0.25	0	0
Zinc, Total	g/day	559	1120		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0
Zinc, Total	µg/L	1000	2000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0

ATTACHMENT 9

DSN 001-1 : METAL FINISHING WASTEWATERS; BUILDING MAINTENANCE WASTEWATERS; SCRUBBER WASTEWATERS

2009

PARAMETER	Units	January 2008-June 2011 Flow/Time-Based Limits		Instantaneous Limits	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEPT		OCT		NOV		DEC		VIOLATIONS OF AVERAGE MONTHLY LIMIT	VIOLATIONS OF MAXIMUM DAILY LIMIT
		Average Monthly	Maximum Daily		Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily		
Aluminum, Total	µg/L	2000	4000		80	100	40	40	40	70	50	50	100	150	80	90	60	100	92	120	75	120	65	90	44	90	43	60	0	0
BOD_5	kg/day	42.7			8.67	12.23	1.41	1.41	2.06	2.06	7.17	10	0.711	0.711	4.8	4.8	37.8	37.8	37.2	37.2	8.87	8.87	11.5	13.5	59.84	59.84	21.51	21.51	1	
Cadmium, Total	g/day	23	46		0.0	0.0											0.00	0.00											0	0
Cadmium, Total	µg/L	100	500		0	0											0	0											0	0
Chlorine, Total Residual	µg/L	327	685		30	30	30	40	26	28	20	23	30	30	20	20	20	20	21	22	18	20	20	23	19	22	23	30	0	0
Chloroform	µg/L	—	—			189		836		231		331		213		143		181		350		91		206		730		186		
Chromium, Total	µg/L	1000	2000		0.000	0.000											0.000	0.000											0	0
Copper, Total	g/day	590	1100		56	122	25	31	37	73	21	40	37	59	40	83	31	51	40	90	27	30	61	99	40	64	27	47	0	0
Copper, Total	µg/L	474	876		140	300	120	140	180	320	90	160	150	210	140	310	60	100	110	250	70	90	127	200	98	140	97	170	0	0
Cyanide, Free	mg/L	0.1	0.2		0.01	0.01	0.018	0.030	0.01	0.02	0.01	0.02	0.01	0.02	0.01	0.013	0.02	0.03	0.01	0.01	0.037	0.06	0.022	0.037	0.005	0.013	0.000	0.000	0	0
Cyanide, Total	g/day	193	386		12	17	10	20	9	14	11	11	7	17	10	14	26	34	14	21	33	50	27	33	16	21	7	9	0	0
Cyanide, Total	µg/L	220	400		31	45	60	80	42	70	40	50	30	60	50	50	50	70	39	58	46	120	59	72	40	52	28	30	0	0
Duration of Daily Discharge	hr/day	—	—			24		24		24		24		24		24		24		24		24		24		24		24		
Flow Rate, Average Daily	gpd	330,000			78,455		45,010		47,809		50,643		50,525		55,270		115,613		95,252		97,090		106,309		106,309		67,950		0	
Flow, Day of Sampling	gpd		400,000			119,200		60,900		62,900		64,800		75,200		71,100		156,100		101,800		112,100		130,900		120,200		83,900		0
Flow, Maximum During 24 Hours	gpd		400,000			121,800		60,900		63,200		73,900		75,200		75,900		156,100		108,100		119,900		130,900		124,200		95,700		0
Fluoride, Total	mg/L	20	30		2.85	4.80	2.9	6.8	2.97	6.80	2.63	5.50	1.38	2.2	1.40	2.2	1.27	1.50	1.308	2.7	1.80	3.00	1.32	2.16	1.83	2.70	1.10	1.7	0	0
Gold, Total	mg/L	0.1	0.5		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0	0
Indium, Total	mg/L	—	—			0.01		0.01	0.01	0.01		0.01		0.01		0.01		0.01		0.01		0.01		0.01		0.01		0.01		
Iron, Total	mg/L	3.0	5.0		0.04	0.04	0.03	0.04	0.032	0.040	0.04	0.04	0.02	0.03	0.03	0.04	0.03	0.04	0.028	0.03	0.035	0.04	0.035	0.04	0.03	0.04	0.025	0.03	0	0
Lead, Total	g/day	45	89		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
Lead, Total	µg/L	16	48		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel, Total	µg/L	653	1210		470	710	500	580	550	720	460	500	450	480	360	450	310	340	380	680	450	510	517	720	388	550	470	970	0	0
Nickel, Total	g/day																													
Nitrogen, Ammonia	mg/L	10	20		3.1	4.3	2.5	6.1	3.16	4.00	5.20	13	2.87	3.7	1.43	1.9	3.09	6.6	1.45	2.1	2.175	3.8	2.15	3.2	2.82	4.2	2.22	2.8	0	0
Nitrogen, Kjeldahl	mg/L	—	—			15		19		13		17.49		13.32		6.49		30		4.2		11.92		17.36		11.9		10.36		
Nitrogen, Nitrate	mg/L	—	—			19.36		28.5		13.56		19.64		21.92		30.07		16.5		29.21		23.95		11.08		17.25		33.96		
Nitrogen, Nitrite	mg/L	—	—																	0.0		0.00		0.21		0.17		0.00		
Nitrogen, Total	mg/L					34.36		34.1		24.56		31.92		31.24		35.53		40		12.195	10.701	12.597								
Nitrogen, Total	kg/day	17.7																					10.701	12.597	8.002	9.190	6.366	9.283		
Nitrogen, Total	lbs/day	38.9			21.23	32.50	12.71	16.70	9.82	11.88	12.36	17.24	14.33	17.16	12.75	20.76	32.58	45.75	14.32	26.85	23.56	27.73	23.56	27.73	17.62	20.23	14.02	20.44	0	0
Oil & Grease, Total	mg/L	10	15		0.87	1.3	1.8	2.1	2.28	3.7	1.27	2.12	0.67	1.33	1.48	1.93	0.82	1.13	0.9332	1.553	0.55	1.733	1.05	2.733	0.72	2.467	0.800	1.267	0	0
Organics, Total Toxic (TTO)	mg/L			1.0		0.191												0.182												0
Palladium, Total	mg/L					0.01		0.01		0.01		0.01		0.01		0.01		0.01		0.01		0.01		0.01		0.01		0.01		0
pH, Day of Sampling	SU			6.0-9.0	8.8	9.0	8.7	9.0	8.7	9.0	8.6	9.0	8.7	9.0	8.7	9.0	8.7	9.0	8.6	9.0	8.7	9.0	8.6	9.0	8.6	9.0	8.6	9.0	0	0
pH, Continuous	SU			6.0-9.0	8.8	9.0	8.7	9.0	8.7	9.0	8.6	9.0	8.7	9.0	8.7	9.0	8.7	9.0	8.6	9.0	8.7	9.0	8.6	9.0	8.6	9.0	8.6	9.0	0	0
Silver, Total	g/day	27	54		8.0	10.0	7.0	9.0	4.0	7.0	6.0	7.0	6.0	9.0	5.0	8.0	9.0	15.0	7.0	11.0	10.0	13.0	14.0	15.0	11.7	22.7	4.4	7.1	0	0
Silver, Total	µg/L	100	430		20	40	30	40	22	30	25	30	20	30	20	30	20	30	20	30	25	30	30	30	28	50	18	30	0	0
Solids, Total Suspended	mg/L	20	30		1.8	3.0	3.5	7.0	3.4	9.0	3.8	9.0	2.5	4.0	6.8	13.0	2.7	4.0	4.8	6.0	1.5	3.0	2.5	4.0	3.0	6.0	2.5	4.0	0	0
Surfactants (MBAS)	mg/L	—	—			0.26		0.22		0.18		0.18		0.22		0.06		0.01		0.13		0.11		0.18		0.35		0.33		
Tin, Total	mg/L	2.0	4.0		0.08	0.19	0.11	0.17	0.14	0.23	0.12	0.17	0.09	0.20	0.18	0.22	0.020	0.030	0.14	0.30	0.05	0.11	0.18	0.22	0.07	0.12	0.2525	0.82	0	0
Zinc, Total	g/day	559	1120		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0
Zinc, Total	µg/L	1000	2000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0

ATTACHMENT 9

DSN 001-1: METAL FINISHING WASTEWATERS; BUILDING MAINTENANCE WASTEWATERS; SCRUBBER WASTEWATERS

2010

PARAMETER	Units	January 2008-June 2011 Flow/Time-Based Limits		Instantaneous Limits	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEPT		OCT		NOV		DEC		VIOLATIONS OF AVERAGE MONTHLY LIMIT	VIOLATIONS OF MAXIMUM DAILY LIMIT
		Average Monthly	Maximum Daily		Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily		
Aluminum, Total	µg/L	2000	4000		20	40	0	0	6	30	20	30	15	40	6	30	16	30	22	80	8	30	5	20	26	70	5	20	0	0
BOD_5	kg/day	42.7			9.217	9.217	15.86	15.86	12.81	12.81	14.26	14.26	8.146	8.146	5.831	5.831	8.428	8.428	11.379	11.379	9.048	9.048	6.914	6.914	8.61	8.61	6.47	6.47	0	
Cadmium, Total	g/day	23	46		0.00	0.00											0.00	0.00											0	0
Cadmium, Total	µg/L	100	500		0	0											0	0											0	0
Chlorine, Total Residual	µg/L	327	665		21	25	19	22	19	22	20	23	19	22	21	28	18	20	21	22	18	20	19	22	19	25	18	18	0	0
Chloroform	µg/L	—	—			168		382		431		232		235		241		106		194		146		157		143		185		
Chromium, Total	µg/L	1000	2000		0.000	0.000											0.000	0.000					0.00	0.00	0.00	0.00	0.000	0.000	0	0
Copper, Total	g/day	590	1100		8.0	13.0	13.0	22.0	47.0	119.0	13.0	18.5	12.0	17.0	10.0	13.0	11.7	17.0	18.8	28.0	25.8	42.2	19.6	26.3	24.1	47.3	20.8	32.0	0	0
Copper, Total	µg/L	474	876		35	60	62	100	232	600	55	80	50	70	40	50	40	60	60	100	85	150	83	100	108	200	100	140	0	0
Cyanide, Free	mg/L	0.1	0.2		0.00	0.00	0.008	0.018	0.0026	0.013	0.0025	0.01	0.0045	0.018	0.00	0.000	0.004	0.013	0.019	0.04	0.009	0.022	0.000	0.000	0.021	0.038	0.0087	0.035	0	0
Cyanide, Total	g/day	193	386		6.5	10.0	6.5	10.0	4.6	9.0	5.0	14.0	5.3	11.2	3.6	7.0	9.4	17.5	20.5	32.0	15.8	28.0	2.3	6.7	16.5	30.9	9.2	155.4	0	0
Cyanide, Total	µg/L	220	400		33	50	33	40	20	42	43	63	22	45	17	27	7	30	67	98	48	85	11	30	78	140	34	68	0	0
Duration of Daily Discharge	hr/day	—	—			24		24		24		24		24		24		24		24		24		24		24		24		
Flow Rate, Average Daily	gpd	330,000			49,205		55,110		52,409		58,168		61,475		59,709		76,800		82,880		81,350		59,524		57,020		49,338		0	
Flow, Day of Sampling	gpd		400,000			59,400		63,300		57,400		66,900		70,800		72,100		77,300		93,300		89,200		69,700		62,500		60,400		0
Flow, Maximum During 24 Hours	gpd		400,000			61,900		63,900		63,000		71,800		70,800		73,100		77,300		93,300		95,700		72,900		65,500		60,900		0
Fluoride, Total	mg/L	20	30		1.60	2.70	1.16	2.2	0.844	1.34	1.67	2.40	1.245	2.3	1.084	2.2	2.283	4.5	3.706	9.25	2.88	5.60	2.37	3.80	3.67	9.00	3.302	4.85	0	0
Gold, Total	mg/L	0.1	0.5		0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
Indium, Total	mg/L	—	—			0.01		0.01		0.01		0.01		0.01		0.01		0.01		0.00		0.00		0.00		0.00		0.00		
Iron, Total	mg/L	3.0	5.0		0.032	0.04	0.03	0.04	0.03	0.04	0.03	0.04	0.03	0.04	0.028	0.04	0.03	0.04	0.030	0.04	0.0325	0.04	0.03	0.04	0.03	0.04	0.035	0.04	0	0
Lead, Total	g/day	45	89		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
Lead, Total	µg/L	16	48		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel, Total	µg/L	653	1210		350	370	390	560	340	750	460	790	340	440	400	500	500	600	440	480	505	650	267	320	304	440	402	530	0	0
Nickel, Total	kg/day																													
Nitrogen, Ammonia	mg/L	10	20		1.63	1.9	2.03	2.9	7.26	22.00	1.16	2	0.795	1.06	2.62	3.4	1.88	3.3	1.86	2.8	2.325	3.3	1.375	1.9	2.63	4.5	3.1	3.9	0	1
Nitrogen, Kjeldahl	mg/L	—	—			14.98		14.42		29.52		8.31		19.59		12.00		11.38		8.4		6.45		10.88		7.67		15.21		
Nitrogen, Nitrate	mg/L	—	—			29.54		19.66		19.03		12.53		9.45		11.28		8.45		15.6		12.24		18.38		18.93		35.00		
Nitrogen, Nitrite	mg/L	—	—			0.00		0.00		0.000		0.00		0.00		0.00		0.00		0.0		0.36		0.00		0.00		0.00		
Nitrogen, Total	kg/day	17.7				6.366		5.292		5.231		3.385		3.826	3.986		3.897		5.389		4.046		4.045		3.323		5.664			
Nitrogen, Total	lbs/day	38.9			14.02	20.44	11.65	15.53	11.52	19.10	7.45	11.62	8.42	14.58	8.78	12.53	8.58	10.33	11.87	15.63	8.91	11.25	8.91	10.16	7.32	12.17	12.43	20.53	0	0
Oil & Grease, Total	mg/L	10	15		0.766	1.4	1.184	3.667	1.36	1.933	0.650	1.067	0.366	0.667	0.853	1.267	0.511	0.733	0.64	0.933	0.25	0.600	0.116	0.267	0.3734	0.867	0.4167	1.067	0	0
Organics, Total Toxic (TTO)	mg/L			1.0		0.1726																								0
Palladium, Total	mg/L					0.01		0.01		0.01		0.01		0.01		0.01		0.01		0.00		0.00		0.00		0.00		0.00		0
pH, Day of Sampling	SU			6.0-9.0	8.6	9.0	8.6	9.0	8.6	9.0	8.6	9.0	8.6	9.0	8.6	9.0	8.7	9.0	8.6	9.0	8.6	9.0	8.7	9.0	8.6	9.0	8.6	9.0	0	0
pH, Continuous	SU			6.0-9.0	8.6	9.0	8.6	9.0	8.6	9.0	8.6	9.0	8.6	9.0	8.6	9.0	8.7	9.0	8.6	9.0	8.6	9.0	8.7	9.0	8.6	9.0	8.6	9.0	0	0
Silver, Total	g/day	27	54		3.8	6.7	4.4	6.7	3.8	6.5	2.9	7.0	3.8	7.6	4.5	6.8	5.8	8.8	5.7	7.1	7.0	10.1	4.1	5.3	3.0	4.4	5.6	6.9	0	0
Silver, Total	µg/L	100	430		17	30	17	30	32	80	12.7	30	15	30	18	30	20	30	18	20	22.5	30	18	20	14	20	28	30	0	0
Solids, Total Suspended	mg/L	20	30		2.3	4.0	4.3	7.0	4.3	7.0	4.0	7.0	2.5	3.0	2.8	4.0	2.0	5.0	2.2	4.0	2.3	3.0	2.5	5.0	4.6	8.0	4.0	9.0	0	0
Surfactants (MBAS)	mg/L	—	—			0.56		0.33		0.33		0.18		0.11		0.18		0.04		0.18		0.09		0.05		0.22		0.10		
Tin, Total	mg/L	2.0	4.0		0.1375	0.25	0.12	0.23	0.12	0.23	0.395	0.64	0.267	0.70	0.246	0.45	0.033	0.060	0.14	0.36	0.23	0.31	0.21	0.39	0.268	0.58	0.277	0.34	0	0
Zinc, Total	g/day	559	1120		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0
Zinc, Total	µg/L	1000	2000		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0

ATTACHMENT 9

DSN 001-1: METAL FINISHING WASTEWATERS; BUILDING MAINTENANCE WASTEWATERS; SCRUBBER WASTEWATERS

2011

PARAMETER	Units	January 2008-June 2011 Flow/Time-Based Limits		Instantaneous Limits	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEPT		OCT		NOV		DEC		VIOLATIONS OF AVERAGE MONTHLY LIMIT	VIOLATIONS OF MAXIMUM DAILY LIMIT
		Average Monthly	Maximum Daily		Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily		
Aluminum, Total	µg/L	2000	4000		12	60	5	20	13	30	0	0	10	30	0	0													0	0
BOD_5	kg/day	42.7			4.7251	4.7251	7.5513	7.5513	5.309	5.309	3.2135	3.2135	8.676	8.676	2.05	2.05													0	0
Cadmium, Total	g/day	23	46		0.00	0.00																							0	0
Cadmium, Total	µg/L	100	500		0	0																							0	0
Chlorine, Total Residual	µg/L	327	665		21	25	23	27	20	25	21	22	18	20	18	20													0	0
Chloroform	µg/L	—	—		115.5	115.5	117.9	117.9	118.7	118.7	56.7	56.7	155.0	155.0	73.2	73.2														
Chromium, Total	µg/L	1000	2000		0.000	0.000									0.00	0.00													0	0
Copper, Total	g/day	590	1100		33	78	27	64	21	45	27	85	15	34	7	11													0	0
Copper, Total	µg/L	474	876		138	300	118	290	88	180	85	250	60	130	30	50													0	0
Cyanide, Free	mg/L	0.1	0.2		0.005	0.025	0.037	0.098	0.038	0.087	0.02125	0.063	0.0146	0.032	0.0062	0.018													0	0
Cyanide, Total	g/day	193	386		12	28	32	86	27	54	19	34	16	26	5	9													0	0
Cyanide, Total	µg/L	220	400		50	103	145	277	115	205	89	157	59	100	25	40													0	0
Duration of Daily Discharge	hr/day	—	—		24	24	24	24	24	24	24	24	24	24	24	24														
Flow Rate, Average Daily	gpd	330,000			60,585		59,914		66,789		72,503		66,068		59,593														0	0
Flow, Day of Sampling	gpd		400,000			70,330		82,060		69,680		89,370		68,450		61,800														
Flow, Maximum During 24 Hours	gpd		400,000			78,510		82,060		80,880		89,370		72,870		63,780														
Fluoride, Total	mg/L	20	30		3.318	4.53	2.44	4.0	1.395	2.10	6.265	11.00	1.82	5.3	0.792	0.93													0	0
Gold, Total	mg/L	0.1	0.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00													0	0
Indium, Total	mg/L	—	—		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00														
Iron, Total	mg/L	3.0	5.0		0.036	0.04	0.0325	0.04	0.0325	0.04	0.03	0.04	0.034	0.04	0.032	0.04													0	0
Lead, Total	g/day	45	89		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00													0	0
Lead, Total	µg/L	16	48		0	0	0	0	0	0	0	0	0	0	0	0													0	0
Nickel, Total	µg/L	653	1210		143	200	443	490	458	600	425	550	242	430	370	530													0	0
Nickel, Total	kg/day				0.60	0.72	0.10762	0.14598	0.109	0.14	0.11533	0.15221	0.0606	0.1114	0.085	0.121													0	0
Nitrogen, Ammonia	mg/L	10	20		3.76	5.6	3.8	4.6	2.6875	3.8	5.05	6.8	3.74	8.2	1.38	2.05													0	0
Nitrogen, Kjeldahl	mg/L	—	—		10.86	13.98	10.44	16.27	9.03	11.79	9.08	14.61	9.49	14.48	5.34	6.58														
Nitrogen, Nitrate	mg/L	—	—		9.06	12.75	14.42	18.28	14.66	29.13	13.74	32.87	7.57	10.9	5.55	11.54														
Nitrogen, Nitrite	mg/L	—	—		0.00	0.00	0.00	0.00	1.97	7.86	0.00	0.00	0.00	0.00	0.00	0.00														
Nitrogen, Total	kg/day	17.7			5.318	8.895	5.922	7.314	5.985	8.822	6.640	13.500	4.302	5.834	2.430	3.864														
Nitrogen, Total	lbs/day	38.9			11.71	19.58	13.04	16.10	13.18	19.42	14.62	29.72	9.47	12.84	5.34	8.51													0	0
Oil & Grease, Total	mg/L	10	15		1.12	1.933	0.3	1.0	0.75	1.467	0.4165	0.533	0.2934	1.0	0.883	2.267													0	0
Organics, Total Toxic (TTO)	mg/L			1.0	0.0139																									
Palladium, Total	mg/L				0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00														
pH, Day of Sampling	SU			6.0-9.0	8.6	9.0	8.6	9.0	8.6	9.0	8.7	9.0	8.6	9.0	8.7	9.0													0	0
pH, Continuous	SU			6.0-9.0	8.6	9.0	8.6	9.0	8.6	9.0	8.7	9.0	8.6	9.0	8.7	9.0													0	0
Silver, Total	g/day	27	54		4.7	5.6	4.9	6.2	5.4	6.7	5.4	6.8	4.1	7.8	3.4	4.5													0	0
Silver, Total	µg/L	100	430		20	20	20	20	23	30	20	30	16	30	15	20													0	0
Solids, Total Suspended	mg/L	20	30		1.4	2.0	6.3	12.0	1.8	4.0	1.8	4.0	3.0	8.0	0.0	0.0													0	0
Surfactants (MBAS)	mg/L	—	—		0.07	0.07	0.06	0.06	0.19	0.19	0.27	0.27	0.08	0.08	0.09	0.09														
Tin, Total	mg/L	2.0	4.0		0.178	0.22	0.0775	0.12	0.3225	0.56	0.1425	0.24	0.23	0.32	0.10	0.16													0	0
Zinc, Total	g/day	559	1120		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00													0	0
Zinc, Total	µg/L	1000	2000		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00													0	0

ATTACHMENT 9

DSN 001-1 : METAL FINISHING WASTEWATERS; BUILDING MAINTENANCE WASTEWATERS; SCRUBBER WASTEWATERS

2011

PARAMETER	Units	July 2011-present			JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEPT		OCT		NOV		DEC		VIOLATIONS OF AVERAGE MONTHLY LIMIT	VIOLATIONS OF MAXIMUM DAILY LIMIT
		Flow/Time-Based Limits		Instantaneous Limits																										
		Average Monthly	Maximum Daily		Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily		
Aluminum, Total	µg/L	2000	4000														6.6	20.0	4.0	20.0	5.0	20.0	12.5	50.0	5.0	20.0	93.0	230.0	0	0
BOD_5	kg/day	42.7															5.865	5.865	7.967	7.967	6.261	6.261	4.512	4.512	2.3740	2.3740	5.012	5.012	1	0
Cadmium, Total	g/day	23	46														0.0000	0.0000											0	0
Cadmium, Total	µg/L	100	500														0	0											0	0
Chlorine, Total Residual	µg/L	115	232														16.3	17.0	18.2	20.0	18.2	20.0	18.2	22.0	16.0	17.0	20.0	22.0	0	0
Chloroform	µg/L	—	—														49	49	52	52	94	94	165	165	74	74	101	101		
Chromium, Total	µg/L	1000	2000														0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0	0
Copper, Total	g/day	228	457														9.3	14.8	7.2	9.3	10.9	18.5	8.9	14.1	20.9	47.5	43.6	65.9	0	0
Copper, Total	µg/L	474	876														43	70	32	40	48	80	38	60	93	210	210	310	0	0
Cyanide, Free	mg/L	0.1	0.2														0.0263	0.057	0.0042	0.013	0.0095	0.033	0.0215	0.073	0.0107	0.033	0.0026	0.008	0	0
Cyanide, Total	g/day	193	386														20.4	34.3	10.1	16.1	6.7	16.1	18.6	53.1	12.2	20.3	5.8	10.6	0	0
Cyanide, Total	µg/L	220	400														123	158	48	72	16	75	89	225	54	90	29	50	0	0
Duration of Daily Discharge	hr/day	—	—														24	24	24	24	24	24	24	24	24	24	24	24		
Flow Rate, Average Daily	gpd	330,000															59,593		59,395		56,710		58,013		58,011		53,552		0	0
Flow, Day of Sampling	gpd		400,000															59,730		61,800		64,800		63,750		60,200		61,030		
Flow, Maximum During 24 Hours	gpd		400,000															61,700		65,150		64,800		63,750		62,450		61,030		
Fluoride, Total	mg/L	20	30														0.90	1.25	1.146	2.2	0.7475	0.9	0.695	1.17	0.95	1.4	0.70	0.9	0	0
Gold, Total	mg/L	0.1	0.5														0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
Indium, Total	mg/L	—	—														0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Iron, Total	mg/L	3.0	5.0														0.03	0.04	0.03	0.04	0.0275	0.04	0.0375	0.05	0.0375	0.04	0.023	0.03	0	0
Lead, Total	g/day	7	13														0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
Lead, Total	µg/L	16	48														0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
Nickel, Total	µg/L	653	1210														280	380	206	370	148	170	243	550	245	320	396	460	0	0
Nickel, Total	g/day	442	887														60.0	80.0	46.0	85.0	34.1	39.3	57.2	130.0	55.5	72.4	83.4	97.8	0	0
Nitrogen, Ammonia	mg/L	10	20														3.16	3.3	3.012	10.0	1.445	1.82	1.74	2.1	1.89	2.6	2.28	2.40	0	0
Nitrogen, Kjeldahl	mg/L	—	—														8.91	16.79	5.72	13.62	4.88	6.22	6.69	9.00	3.93	5.0	6.77	9.4		
Nitrogen, Nitrate	mg/L	—	—														14.96	27.95	7.31	18.43	7.20	19.39	6.43	8.95	25.2	49.1	8.60	10.27		
Nitrogen, Nitrite	mg/L																0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.10		
Nitrogen, Total	kg/day	17.7															5.185	7.152	2.935	5.096	2.724	5.491	3.097	4.208	6.611	11.981	3.248	4.205		
Nitrogen, Total	lbs/day	38.9															11.42	15.75	6.46	11.22	6.00	12.09	6.82	9.26	14.55	17.84	7.15	9.26	0	0
Oil & Grease, Total	mg/L	10	15														0.00	0.00	0.2668	1.067	0.38325	1.20	0.61675	2.0	0.1	0.4	0.689	1.667	0	0
Organics, Total Toxic (TTO)	mg/L			1.0														0.000												
Palladium, Total	mg/L																0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
pH, Day of Sampling	SU			6.0-9.0													8.6	9.0	8.6	9.0	8.6	9.0	8.6	9.0	8.5	9.0	8.5	9.0	0	0
pH, Continuous	SU			6.0-9.0													8.6	9.0	8.6	9.0	8.5	9.0	8.1	9.0	8.1	9.0	8.5	9.0	0	0
Silver, Total	g/day	27	54														2.2	2.3	2.7	4.5	4.6	6.9	3.5	4.7	2.8	4.5	4.2	4.6	0	0
Silver, Total	µg/L	100	430														10	10	12	20	20	30	15	20	13	20	20	20	0	0
Solids, Total Suspended	mg/L	20	30														3.0	7.0	2.8	9.0	1.5	3.0	2.0	3.0	1.3	4.0	4.0	8.0	0	0
Surfactants (MBAS)	mg/L	—	—														0.18	0.18	0.08	0.08	0.16	0.16	0.13	0.13	0.06	0.06	0.14	0.14		
Tin, Total	mg/L	2.0	4.0														0.06	0.18	0.104	0.14	0.1075	0.23	0.08	0.17	0.125	0.22	0.176	0.20	0	0
Zinc, Total	g/day	28	55														0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0
Zinc, Total	µg/L	1000	2000														0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0

ATTACHMENT 9

DSN 001-1 : METAL FINISHING WASTEWATERS; BUILDING MAINTENANCE WASTEWATERS; SCRUBBER WASTEWATERS

2012

PARAMETER	Units	July 2011-present			JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEPT		OCT		NOV		DEC		VIOLATIONS OF AVERAGE MONTHLY LIMIT	VIOLATIONS OF MAXIMUM DAILY LIMIT
		Flow/Time-Based Limits		Instantaneous Limits																										
		Average Monthly	Maximum Daily		Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily		
Aluminum, Total	µg/L	2000	4000		8	20	5	20	17	30	6	30	20	30	0	0	36	90	5	20	5	20	0	0	70	260	0	0	0	0
BOD_5	kg/day	42.7			4.2394	5.6349	16.57	16.57	1.94	1.94	3.76	3.76	2.04	2.04	2.721	2.721	5.8	5.8	7.7	7.7	12.17	12.17	2.957	2.957	10.27	10.27	4.98	4.98	0	0
Cadmium, Total	g/day	23	46		0.0	0.0											0.00	0.00											0	0
Cadmium, Total	µg/L	100	500		0	0											0	0											0	0
Chlorine, Total Residual	µg/L	115	232		20.8	25.0	14.5	15.0	21.5	25.0	17.4	20.0	17.0	18.0	18.0	20.0	16.3	17.0	21.5	25.0	17.7	22.0	20.6	23.0	20.0	25.0	19.0	23.0	0	0
Chloroform	µg/L	—	—		74.2	98.7	60.8	60.8	186.0	186.0	100.3	100.3	81.0	81.0	67.0	67.0	15.1	15.1	66	66	120	120	35.3	35.3	154	154	42	42		
Chromium, Total	µg/L	1000	2000		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
Copper, Total	g/day	228	457		19	30	12	30	14	25	10	15	56	85	70	123	14	18	24	56	40	80	13	30	20	55	30	51	0	0
Copper, Total	µg/L	474	876		88	140	55	140	62	110	44	70	190	280	200	500	56	80	80	210	110	220	42	90	80	240	120	190	0	0
Cyanide, Free	mg/L	0.1	0.2		0.0036	0.015	0.000	0.000	0.0025	0.01	0.001	0.005	0.0025	0.01	0.00125	0.005	0.016	0.032	0.00825	0.018	0.012	0.038	0.027	0.035	0.023	0.043	0.003	0.010	0	0
Cyanide, Total	g/day	193	386		6.5	15.0	2.3	5.5	4.7	6.4	3.6	6.5	8.0	15.0	6.0	8.3	11.0	18.0	13.0	26.0	12.0	36.0	29.0	41.0	15.0	28.0	6.0	14.0	0	0
Cyanide, Total	µg/L	220	400		35	67	11	25	17	33	15	28	33	55	19	23	62	70	59	90	12	107	84	113	69	100	12	53	0	0
Duration of Daily Discharge	hr/day	—	—		24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24		
Flow Rate, Average Daily	gpd	330,000			57,448		56,948		58,968		59,638		74,795		72,679		67,263		70,217		82,595		82,864		66,113		59,904		0	0
Flow, Day of Sampling	gpd		400,000			60,500		62,000		64,500		69,000		80,900		95,845		69,100		84,200		96,700		107,300		75,091		71,173		
Flow, Maximum During 24 Hours	gpd		400,000			62,100		62,000		64,500		69,000		83,600		95,845		72,800		84,200		96,700		108,200		78,429		79,017		
Fluoride, Total	mg/L	20	30		1.58	3.60	0.80	1.2	1.68	2.9	0.73	0.90	2.1	4.4	1.005	1.4	0.57	0.72	0.47	0.58	2.33	7.80	1.31	1.87	0.62	0.70	0.70	0.8	0	0
Gold, Total	mg/L	0.1	0.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
Indium, Total	mg/L	—	—		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Iron, Total	mg/L	3.0	5.0		0.024	0.030	0.027	0.040	0.027	0.040	0.030	0.040	0.030	0.030	0.030	0.040	0.030	0.040	0.030	0.040	0.030	0.040	0.024	0.040	0.020	0.030	0.040	0.040	0	0
Lead, Total	kg/day	7	13		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead, Total	µg/L	16	48		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel, Total	µg/L	653	1210		360	450	380	430	420	570	390	550	470	540	460	490	430	610	600	650	550	590	548	660	580	670	570	610	0	0
Nickel, Total	g/day	442	887		82	101	85	94	98	130	94	140	140	200	130	160	109	159	169	207	191	198	173	203	153	180	136	140	0	0
Nitrogen, Ammonia	mg/L	10	20		2.73	5.8	1.82	2.6	2.33	3.10	2.76	4.8	2.51	3.05	1.65	2.2	4.01	6.5	2.55	4.4	3.09	7.8	3.73	10.8	2.71	5.0	2.86	3.4	0	0
Nitrogen, Kjeldahl	mg/L	—	—		5.86	10	4.67	5	5.12	6.2	8.28	16.8	5.60	7.20	5.44	6.42	6.66	10.5	7.08	10.9	8.34	12.85	8.52	20.56	6.62	10.0	8.09	9.60		
Nitrogen, Nitrate	mg/L	—	—		10.67	20.29	10.10	23.51	9.4	16.8	12.4	22.4	11.6	22.0	10.76	16.17	5.09	6.42	8.01	11.39	13.47	25.46	6.68	13.27	7.09	10.96	27.45	49.97		
Nitrogen, Nitrite	mg/L	—	—		0.00	0.00	0.00	0.00	0.063	0.25	0.00	0.00	0.10	0.40	0.04	0.15	0.00	0.00	0.00	0.00	0.025	0.10	0.00	0.00	0.03	0.13	0.07	0.22		
Nitrogen, Total	kg/day	17.7			3.747		3.280		3.340		4.836		5.05		4.76		2.98		4.23		7.65		5.047		3.480		8.326			
Nitrogen, Total	lbs/day	38.9			8.24		7.22		7.35		10.64		11.11		10.47		6.56		9.31		16.83		11.10		7.66		18.32		0	0
Oil & Grease, Total	mg/L	10	15		0.42	1.7	0.43	0.867	0.11	0.467	0.08	0.2	1.52	3.73	0.25	1.00	0.00	0.00	0.183	0.467	1.22	2.6	1.37	2.4	0.38	0.867	0.06	0.2	0	0
Organics, Total Toxic (TTO)	mg/L			1.0		0.0626												0.015												0
Palladium, Total	mg/L				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
pH, Day of Sampling	SU			6.0-9.0	8.6	9.0	8.5	9.0	8.7	9.0	8.6	9.0	8.1	9.0	8.2	9.0	8.3	8.9	8.6	9.0	8.0	8.9	7.2	9.0	8.2	9.0	8.4	9.0	0	0
pH, Continuous	SU			6.0-9.0	8.6	9.0	8.5	9.0	8.4	9.0	8.6	9.0	7.9	9.0	8.1	9.0	8.1	8.9	8.1	9.0	8.0	9.0	7.2	9.0	8.2	9.0	8.4	9.0	0	0
Silver, Total	g/day	27	54		3.6	4.6	2.2	2.3	2.3	2.4	2.8	4.6	3.6	5.5	2.9	3.6	2.0	3.0	2.9	3.2	7.0	7.3	4.7	8.1	3.9	5.2	4.1	5.4	0	0
Silver, Total	µg/L	100	430		16	20	10	10	5	10	12	20	13	20	0	0	10	10	2.5	10	20	20	14	20	15	20	16	20	0	0
Solids, Total Suspended	mg/L	20	30		2.4	5.0	1.3	3.0	1.8	5.0	0.8	2.0	1.8	3.0	0.0	0.0	1.0	3.0	0.05	1.0	1.3	2.0	2.8	5.0	1.3	2.0	3.7	7.0	0	0
Surfactants (MBAS)	mg/L	—	—		0.13	0.13	0.12	0.12	0.09	0.09	0.06	0.06	0.06	0.06	0.04	0.04		0.08		0.12		0.12		0.13		0.08		0.06		
Tin, Total	mg/L	2.0	4.0		0.13	0.24	0.242	0.42	0.267	0.41	0.124	0.17	0.107	0.18	0.102	0.13	0.07	0.12	0.19	0.26	0.19	0.27	0.172	0.22	0.22	0.33	0.156	0.18	0	0
Zinc, Total	g/day	28	55		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.24	5.23	0.72	2.69	0	0
Zinc, Total	µg/L	1000	2000		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12.5	20	3.3	10	0	0

ATTACHMENT 9

DSN 001-1 : METAL FINISHING WASTEWATERS; BUILDING MAINTENANCE WASTEWATERS; SCRUBBER WASTEWATERS

2013

PARAMETER	Units	July 2011-present			JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEPT		OCT		NOV		DEC		VIOLATIONS OF AVERAGE MONTHLY LIMIT	VIOLATIONS OF MAXIMUM DAILY LIMIT
		Flow/Time-Based Limits		Instantaneous Limits																										
		Average Monthly	Maximum Daily		Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily		
Aluminum, Total	µg/L	2000	4000		0	0	10	20	0	0	4	20	0	0	15	20	0	0	8	30	0	0	5	20	5	20	0	0	0	0
BOD_5	kg/day	42.7			4.97	4.97	4.07	4.07	1.83	1.83	3.23	3.23	6.86	6.86	7.2	7.2	1.5	1.5	2.8	2.8	1.94	1.94	0.000	0.000	6.27	6.27	0.00	0.00	0	0
Cadmium, Total	g/day	23	46		0.0	0.0											0.00	0.00											0	0
Cadmium, Total	µg/L	100	500		0	0											0	0											0	0
Chlorine, Total Residual	µg/L	115	232		15.5	17.0	17.0	20.0	18.0	22.0	19.6	22.0	14.0	17.0	18.0	20.0	15.6	18.0	18.0	20.0	17.0	20.0	20.7	23.0	16.0	18.0	15.0	18.0	0	0
Chloroform	µg/L	—	—		44	44	55	55	84	84	18	18	169	169	93.0	93.0	39.0	39.0	27	27	157	157	45.0	45.0	78.7	78.7	108	108		
Chromium, Total	µg/L	1000	2000		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
Copper, Total	g/day	228	457		20	38	16	26	44	68	29	86	16	30	19	30	26	59	38	73	29	74	55	91	20	45	53	114	0	0
Copper, Total	µg/L	474	876		87	170	70	130	190	320	138	400	70	130	80	140	113	250	165	320	120	310	220	380	85	190	110	250	0	0
Cyanide, Free	mg/L	0.1	0.2		0.022	0.062	0.024	0.052	0.091	0.182	0.021	0.048	0.001	0.003	0.002	0.008	0.011	0.022	0.001	0.005	0.015	0.043	0.021	0.052	0.007	0.023	0.05	0.18	0	0
Cyanide, Total	g/day	193	386		15.7	35.8	18.0	29.3	46.0	92.0	19.0	48.0	6.9	13.3	7.6	15.3	8.0	12.0	3.6	8.1	12.8	23.8	20.0	44.0	10.3	14.9	69	215	0	0
Cyanide, Total	µg/L	220	400		73	157	101	128	253	410	74	152	26	55	40	62	52	52	17	35	42	92	93	168	47	63	40	400	1	1
Duration of Daily Discharge	hr/day	—	—		24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24		
Flow Rate, Average Daily	gpd	330,000			60,417		56,511		58,149		57,661		58,532		58,532		59,656		62,363		63,767		63,704		61,884		63,767		0	0
Flow, Day of Sampling	gpd		400,000			65,300		62,880		61,620		59,900		63,950		65,300		62,950		63,650		68,400		69,800		69,000		139,900		
Flow, Maximum During 24 Hours	gpd		400,000			66,400		64,700		61,800		62,250		63,950		66,400		62,950		66,500		70,500		71,800		69,150		149,100		
Fluoride, Total	mg/L	20	30		1.02	1.70	6.04	12.5	1.53	2.5	1.94	4.20	1.382	2.4	0.93	1.9	1.50	2.10	0.73	1.10	1.25	3.10	1.60	2.70	1.33	2.50	2.08	5.6	0	0
Gold, Total	mg/L	0.1	0.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
Indium, Total	mg/L	—	—		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Iron, Total	mg/L	3	5		0.027	0.040	0.030	0.040	0.030	0.040	0.028	0.040	0.020	0.040	0.030	0.040	0.023	0.030	0.030	0.040	0.026	0.040	0.027	0.030	0.030	0.040	0.025	0.030	0	0
Lead, Total	g/day	7	13		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lead, Total	µg/L	16	48		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nickel, Total	µg/L	653	1210		380	480	520	570	440	570	490	570	480	540	500	570	510	570	480	550	500	570	560	570	470	530	520	540	0	0
Nickel, Total	g/day	442	887		87	110	110	120	100	130	108	120	110	126	110	126	118	134	110	130	120	140	140	140	110	120	260	280	0	0
Nitrogen, Ammonia	mg/L	10	20		1.58	2.95	3.02	3.3	2.94	4.10	3.35	5.0	2.38	3.02	2.61	4.7	2.35	4.5	1.79	2.2	2.20	2.6	4.70	7.8	3.00	4.6	2.40	3.5	0	0
Nitrogen, Kjeldahl	mg/L	—	—			7	6.89	10.01	9.10	11.9	8.18	9.0	6.65	7.78	8.31	12.33	5.03	8.5	3.68	4.2	5.24	11.60	7.00	10.00		7.8	6.25	12.0		
Nitrogen, Nitrate	mg/L	—	—			31.74	11.90	20.84	9.59	17.4	10.7	24.5	6.1	8.7	8.69	11.34	4.67	6.10	4.15	8.17	3.57	7.41	5.86	11.38		10.75	6.79	13.98		
Nitrogen, Nitrite	mg/L	—	—			0.00	0.00	0.00	0.025	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.15	0.00	0.00	0.00	0.00	0.00	0.18		0.00	0.00	0.00		
Nitrogen, Total	kg/day	17.7			4.834		4.159		4.196		4.135		2.969		3.806		2.269		1.831		2.155		3.319		2.752		8.005			
Nitrogen, Total	lbs/day	38.9			10.63		9.15		9.23		9.10		6.53		8.37		4.99		4.03		4.74		7.30		6.05		17.61		0	0
Oil & Grease, Total	mg/L	10	15		0.35	1.4	0.0	0.0	0.0	0.0	0.08	0.4	0.116	0.267	0.30	1.20	0.06	0.20	0.00	0.00	0.520	0.933	0.76	1.133	0.53	1.4	0.47	0.8	0	0
Organics, Total Toxic (TTO)	mg/L			1.0		0.044												0.0392												0
Palladium, Total	mg/L				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
pH, Day of Sampling	SU			6.0-9.0	7.0	8.9	8.6	9.0	8.0	9.0	7.5	9.0	8.6	8.9	8.5	9.0	7.0	8.8	8.3	8.9	8.1	9.0	7.5	8.9	8.4	9.0	8.5	9.0	0	0
pH, Continuous	SU			6.0-9.0			8.6	9.0	8.0	9.0	7.5	8.9	8.1	8.9	8.5	9.0	7.0	8.8	8.3	9.0	8.0	9.0	7.5	8.9			8.5	9.0	0	0
Silver, Total	g/day	27	54		3.4	4.6	4.4	4.7	3.9	4.6	3.6	4.0	2.9	4.8	2.7	4.3	0.0	0.0	3.5	4.8	2.9	4.8	3.88	5.24	2.4	2.6	7.3	9.6	0	0
Silver, Total	µg/L	100	430		15	20	20	20	18	20	18	20	12	20	12	20	0	0	15	20	12	20	15	20	10	10	15	20	0	0
Solids, Total Suspended	mg/L	20	30		0.5	2.0	2.3	3.0	1.0	4.0	1.4	6.0	2.0	6.0	1.3	3.0	1.0	3.0	2.50	4.0	1.6	3.0	2.5	5.0	5.8	14.0	0.8	2.0	0	0
Surfactants (MBAS)	mg/L	—	—			0.08		0.03		0.15		0.16		0.08		0.13		0.13		0.04		0.06		0.06		0.06	0.04	0.04		
Tin, Total	mg/L	2.0	4.0		0.17	0.27	0.125	0.16	0.11	0.13	0.128	0.26	0.02	0.41	0.05	0.08	0.14	0.29	0.16	0.25	0.14	0.32	0.16	0.22	0.23	0.30	0.15	0.2	0	0
Zinc, Total	g/day	28	55		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
Zinc, Total	µg/L	1000	2000		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0

ATTACHMENT 9

DSN 001-1 : METAL FINISHING WASTEWATERS; BUILDING MAINTENANCE WASTEWATERS; SCRUBBER WASTEWATERS

2014

PARAMETER	Units	July 2011-present Flow/Time-Based Limits		Instantaneous Limits	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEPT		OCT		NOV		DEC		VIOLATIONS OF AVERAGE MONTHLY LIMIT	VIOLATIONS OF MAXIMUM DAILY LIMIT
		Average Monthly	Maximum Daily		Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily		
Aluminum, Total	µg/L	2000	4000		5	20	20	50	20	40	30	90	0	0	0	0	0	0	10	40	4	20	20	30	7.5	30	6	30	0	0
BOD_5	kg/day	42.7			2.84	3.27	2.74	2.74	1.96	1.96	4.50	4.50	1.79	1.79	0.0	0.0	5.3	5.6	2.076	2.076	4.175	4.175	2.347	2.347	2.368	2.368	1.44	1.44	0	0
Cadmium, Total	g/day	23	46		0.0	0.0											0.00	0.00											0	0
Cadmium, Total	µg/L	100	500		0	0											0	0											0	0
Chlorine, Total Residual	µg/L	115	232		19.2	25	20	28	15	17	19.2	25	24	27	22	28	21.2	28.0	19.0	23.0	20	27	20	25	20	25	20	27	0	0
Chloroform	µg/L	---	---		39	48	171	171	155	155	47	47	43	43	61.6	61.6	74	74	108	108	126	126	64	64	33.6	33.6	54	54		
Chromium, Total	µg/L	1000	2000		0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	56	268	0	0	0	0	0	0	0	0
Copper, Total	g/day	228	457		16	33	16	31	25	83	14	22	11	22	10	20	55	86	44	72	35	61	51	71	54	98	67	123	0	0
Copper, Total	µg/L	474	876		70	140	60	120	90	310	60	90	45	90	30	60	160	240	135	214	145	283	214	307	215	384	278	519	0	0
Cyanide, Free	mg/L	0.1	0.2		0.11	0.13	0.01	0.03	0.01	0.03	0.06	0.18	0.00	0.00	0.010	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.030	0.020	0.070	0.050	0.100	0	0
Cyanide, Total	g/day	193	386		55	60	15	20	16	26	36	99	11	17	16	23	1	3	2	3	2	5	12	23	21	46	27	49	0	0
Cyanide, Total	µg/L	220	400		230	250	60	80	70	110	150	400	50	70	50	70	2.5	10	10	10	10	20	50	100	20	70	120	240	1	1
Duration of Daily Discharge	hr/day	---	---		24		24		24		24		24		24		24		24		24		24		24		24			
Flow Rate, Average Daily	gpd	330,000			61,833		66,290		62,667		64,570		62,667		83,065		89,004		58,851		59,911		61,678		56,555		57,865		0	0
Flow, Day of Sampling	gpd		400,000			68,000		70,500		70,850		65,400		69,750		89,620		100,575		71,313		69,286		69,478		72,472		72,755		
Flow, Maximum During 24 Hours	gpd		400,000			68,000		75,500		70,850		69,600		74,600		89,990		130,724		88,051		77,750		87,744		86,858		85,639		
Fluoride, Total	mg/L	20	30		0.88	1.1	1.31	1.7	8.38	28.0	4.93	8.00	2.37	2.9	1.89	2.5	3.09	4.80	4.34	5.90	2.10	4.00	2.12	3.70	2.29	4.70	3.82	14.0	0	0
Gold, Total	mg/L	0.1	0.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
Indium, Total	mg/L	---	---		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Iron, Total	mg/L	3	5		0.027	0.040	0.025	0.030	0.028	0.040	0.025	0.030	0.030	0.040	0.020	0.030	0.012	0.020	0.01	0.03	0.038	0.060	0.035	0.050	0.03	0.05	0.032	0.050	0	0
Lead, Total	g/day	7	13		0	0	0.2	0.2	0.2	0.2	0	0	1.4	4.9	2	4.4	2.4	3.6	0.4	1.5	1.2	2.3	0.9	3.4	0.5	2	3.2	9	0	0
Lead, Total	µg/L	16	48		0	0	1	1	1	1	0	0	5	20	6	13	7	11	1	5	5	9	3.7	15	2.2	9	13.2	44	0	0
Nickel, Total	µg/L	653	1210		440	520	460	520	500	580	510	560	510	590	645	680	730	880	424	620	539	780	470	550	513	579	568	607	1	0
Nickel, Total	g/day	442	887		109	123	110	130	120	150	119	130	120	140	210	220	255	316	138	189	131	168	112	128	128	148	135	165	0	0
Nitrogen, Ammonia	mg/L	10	20		2.87	6.50	3.05	6.5	3.34	8.00	2.92	4.3	2.35	5.00	3.05	4.5	3.82	4.5	4.2	5.6	3.9	5.8	2.35	3.5	5.03	13.0	2.66	5.0	0	0
Nitrogen, Kjeldahl	mg/L	---	---		6.05	8.6	6.7	11.0	4.80	8.2	8.25	16.2	3.95	5.40	5.60	8.60	11.60	26.0	6.80	8.8	5.84	7.80	7.80	10.20	7.85	16.6	5.72	8.00		
Nitrogen, Nitrate	mg/L	---	---		3.20	4.98	9.00	12.02	6.10	11.6	7.0	8.3	3.4	4.5	6.74	11.72	6.20	10.27	5.54	7.67	4.80	8.00	3.24	5.38	1.00	1.28	4.20	13.32		
Nitrogen, Nitrite	mg/L	---	---		0.04	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.04	0.18	0.00	0.00	0.00	0.00	0.00	0.00		
Nitrogen, Total	kg/day	17.7			3.487		3.984		2.669		3.556		1.833		4.089		6.169		4.269		2.641		2.630		2.131		2.468			
Nitrogen, Total	lbs/day	38.9			7.67		8.76		5.87		7.82		4.03		9.00		13.57		9.39		5.81		5.79		4.69		5.43		0	0
Oil & Grease, Total	mg/L	10	15		0.59	1.26	0.75	1.6	1.09	2.86	0.81	2.0	0.116	0.467	0.28	0.67	0.15	0.40	0.27	0.67	0.213	0.667	0.25	0.800	0.15	0.4	0.186	0.733	0	0
Organics, Total Toxic (TTO)	mg/L			1.0		0.062																								0
Palladium, Total	mg/L				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
pH, Day of Sampling	SU			6.0-9.0	7.9	8.7	8.2	8.9	8.7	9.0	8.1	9.1	7.9	8.7	8.0	9.0	7.5	9.1	8.4	8.9	8.4	8.9	8.2	8.8	8.0	8.9	8.4	8.9	0	0
pH, Continuous	SU			6.0-9.0	7.7	8.7	8.2	8.9	8.4	9.1	8.1	9.1	7.8	8.8	2.8	9.0	7.3	9.1	7.7	8.9	8.2	8.9	8.2	8.9	8.0	8.9	7.9	8.9	0	0
Silver, Total	g/day	27	54		3.0	4.7	0.0	0.0	3.0	5.3	2.9	4.9	3.1	5.1	4.0	6.1	9.2	19.5	17.8	37.5	5.0	14.7	8.5	16	5.7	9.6	7.0	13.2	0	0
Silver, Total	µg/L	100	430		12	20	0	0	4	20	12	20	12	20	12	20	27	60	56	123	20	59	35	67	22	35	27	48	0	0
Solids, Total Suspended	mg/L	20	30		2.0	4.0	2.5	4.0	1.2	2.0	4.0	7.0	0.3	1.0	0.3	1.0	1.8	3.0	3.3	6.0	3.0	6.0	2.8	3.0	2.0	3.0	4.2	6.0	0	0
Surfactants (MBAS)	mg/L	---	---		0.07	0.08	0.08	0.08	0.05	0.05	0.06	0.06	0.16	0.16	0.05	0.05	0.07	0.09	0.07	0.07	0.06	0.06	0.03	0.03	0.03	0.03	0.09	0.09		
Tin, Total	mg/L	2.0	4.0		0.13	0.18	0.202	0.28	0.36	0.62	0.210	0.52	0.087	0.14	0.15	0.34	0.24	0.38	0.047	0.13	0.086	0.20	0.265	0.33	0.21	0.25	0.22	0.26	0	0
Zinc, Total	g/day	28	55		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.20	3.80	8.2	16.9	6.4	7.8	5.3	6.8	6.3	10.2	4.1	8.9	0	0
Zinc, Total	µg/L	1000	2000		0	0	0	0	0	0	0	0	0	0	0	0	9	10	25	50	26.2	30	22	30	25	40	18	40	0	0

ATTACHMENT 9

DSN 001-1 : METAL FINISHING WASTEWATERS; BUILDING MAINTENANCE WASTEWATERS; SCRUBBER WASTEWATERS

2015

PARAMETER	UNITS	Flow/Time-BasedLimits		Instantaneous Limits	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		VIOLATIONS OF AVERAGE MONTHLY LIMIT	VIOLATIONS OF MAXIMUM DAILY LIMIT
		Average Monthly	Maximum Daily		Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily		
Aluminum, Total	µg/L	2000	4000		7.5	30	0	0	4	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.0	20	0	0	0	0
BOD_5	kg/day	42.7			3.93	5.32	5.12	6.96	3.28	3.31	7.73	7.73	9.03	9.03	2.7	2.7	14.8	14.8	8.34	14.2	11.2	11.2	6.34	7.48	7.09	7.09	3.90	3.90	0	0
Cadmium, Total	g/day	23	46		0.0	0.0	0.0	0.0	0.00	0.00			0.00	0.00			0.00	0.00			0.00	0.00	0.00	0.00					0	0
Cadmium, Total	µg/L	100	500		0	0	0	0	0.00	0.00			0.00	0.00			0	0			0.00	0.00	0.00	0.00					0	0
Chlorine, Total Residual	µg/L	115	232		20.2	23	19.7	27	19.4	25	18.0	25	26.5	30	20.2	27	21	25	15	18	27	37	19.5	25	20	25	20	25	0	0
Chloroform	µg/L	—	—		47.9	75.5	35.1	35.2	27.9	33	69.4	69.4	40	40	112	112	59	59	64.7	87	88.4	88.4	41.3	41.2	56.9	56.9	80	80		
Chromium, Total	µg/L	1000	2000		0	0	1.25	5	3.4	6	0	0	0	0	3	6	1	5	3	8	5	5	1.25	5	30	60	20	43	0	0
Copper, Total	g/day	228	457		89	106	165	276	147	218	188	317	77	122	125	271	144	245	69	110	51	92	119	185	118	287	53	67	0	0
Copper, Total	µg/L	474	876		209	274	317	518	297	468	348	538	144	245	202	403	235	395	101	163	189	256	186	278	186	401	102	118	0	0
Cyanide, Free	mg/L	0.1	0.2		0.02	0.03	0.04	0.05	0.004	0.01	0.03	0.10	0.02	0.04	0.03	0.05	0.00	0.00	0.01	0.01	0.003	0.010	0.010	0.030	0.000	0.010	0.010	0.010	0	0
Cyanide, Total	g/day	193	386		28	37	46	63	9	15	66	223	28	49	26	37	1.6	6.2	8	14	6	7	15	47	11	20	3.8	10.4	0	0
Cyanide, Total	µg/L	220	400		60	90	80	110	20	30	120	400	50	90	50	80	2.5	10	10	20	10	10	20	70	20	40	10	20	0	0
Duration of Daily Discharge	hr/day	—	—			24		24		24		24		24		24		24		24		24		24		24		24		
Flow Rate, Average Daily	gpd	330,000			116,681		129,031		128,671		130,675		113,093		144,787		158,134		169,430		146,506		154,411		144,108		119,021		0	0
Flow, Day of Sampling	gpd		400,000			130,776		152,047		142,968		155,820		161,921		177,967		172,003		199,418		173,196		178,015		189,002		169,291		
Flow, Maximum During 24 Hours	gpd		400,000			172,824		178,860		194,618		175,975		175,874		226,858		237,355		269,018		213,026		255,257		214,831		180,410		
Fluoride, Total	mg/L	20	30		2.83	5.6	1.90	3.1	1.38	1.8	2.82	5.30	2.22	2.88	1.62	2.74	10.78	35.50	3.25	5.10	3.73	10.00	1.73	2.90	1.32	2.00	1.70	3.4	0	0
Gold, Total	mg/L	0.1	0.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
Indium, Total	mg/L	—	—		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Iron, Total	mg/L	3	5		0.031	0.050	0.021	0.032	0.045	0.053	0.021	0.033	0.023	0.030	0.035	0.050	0.026	0.060	0.03	0.05	0.047	0.060	0.040	0.040	0.04	0.05	0.040	0.060	0	0
Lead, Total	g/day	7	13		1.7	4.4	1.2	4.8	4.2	6.6	0.8	3.3	1.2	4.9	4.8	8.1	3.7	10.6	0.0	0.0	6.3	17.8	6.6	18.0	6.0	24.3	0.9	3.5	0	0
Lead, Total	µg/L	16	48		4	9	2	9	8	13	1	7	2	9	9	15	6	17	0	0	11	27	10.2	27	8.8	34	2.0	8	0	0
Nickel, Total	µg/L	653	1210		420	630	320	360	550	730	379	475	386	520	400	550	480	580	370	503	459	496	601	714	470	640	455	520	0	0
Nickel, Total	g/day	442	887		177	223	172	202	277	340	206	280	213	284	241	370	300	377	252	341	272	325	379	427	294	457	239	333	0	0
Nitrogen, Ammonia	mg/L	10	20		2.32	3.50	2.9	3.5	3.18	6.50	2.82	5.0	4.30	7.40	3.1	5.9	3.62	6.6	2.6	5.2	2.4	3.9	1.21	1.8	1.62	2.1	1.85	3.2	0	0
Nitrogen, Kjeldahl	mg/L	—	—		5.85	7.8	5.8	7.2	7.60	9.0	6.35	9.0	6.25	10.00	5.40	7.80	7.95	11.8	6.24	8.6	4.75	7.40	3.34	4.80	4.08	5.2	4.50	6.40		
Nitrogen, Nitrate	mg/L	—	—		4.28	7.21	2.07	3.64	3.56	4.48	5.4	8.9	5.9	9.4	3.93	7.04	8.99	21.69	3.84	5.8	4.05	11.00	2.37	4.25	3.77	8.70	2.16	3.96		-
Nitrogen, Nitrite	mg/L	—	—		0.21	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.11	0.00	0.00	0.00	0.00	0.04	0.18	0.00	0.00	0.00	0.00	0.02	0.11	0.00	0.00		
Nitrogen, Total	kg/day				4.41		4.17		5.57		6.37		6.75		5.56		10.35		6.91		5.19		3.59		4.61		3.62			
Nitrogen, Total	lbs/day				9.70		9.17		12.25		14.01		14.85		12.23		22.77		15.20		11.42		7.90		10.14		7.96		0	0
Nitrogen, Total	mg/L				10.34		7.82		11.16		11.75		12.18		9.33		16.94		10.12		8.80		5.71		7.87		6.66			
Oil & Grease, Total	mg/L	10	15		0.00	0.00	0.00	0.0	0.41	0.73	0.90	1.4	0.65	1.20	0.35	0.73	1.30	1.87	1.02	1.80	0.98	1.8	0.77	2.267	1.62	2.1	0.430	1.00	0	0
Organics, Total Toxic (TTO)	mg/L			1.0		0.0996		0.0428		0.0228								0.0509												0
Palladium, Total	mg/L				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
pH, Day of Sampling	SU			6.0-9.0	8.6	8.8	8.3	8.9	7.6	8.8	7.4	9.0	8.0	8.7	7.5	8.9	7.9	8.9	7.7	8.9	8.2	9.0	8.3	8.8	8.2	9.0	8.3	8.8	0	0
pH, Continuous	SU			6.0-9.0	7.0	8.9	7.5	8.9	7.6	8.8	7.4	9.0	8.0	8.8	7.5	8.9	7.9	8.9	7.7	8.9	8.0	9.0	8.2	8.9	8.2	9.0	8.0	8.9	0	0
Silver, Total	g/day	27	54		40	87	27	56	20	35	34	54	50	70	44	69	37	65	22	32	21	26	23	47	24	49	14	21	0	0
Silver, Total	µg/L	100	430		90.5	189	51.7	106	39.6	68	61	91	91	128	82	149	59	104	32	47	35	40	36	70	38	69	26	32	0	0
Solids, Total Suspended	mg/L	20	30		3.5	9.0	1.8	2.0	4.4	7.0	4.3	8.0	1.3	2.0	2.5	3.0	3.8	4.0	4.0	6.0	4.5	9.0	2.5	4.0	3.8	6.0	2.5	5.0	0	0
Surfactants (MBAS)	mg/L	—	—		0.05	0.08	0.06	0.06	0.05	0.05	0.08	0.08	0.12	0.12	0.00	0.00	0.03	0.03	0.06	0.06	0.06	0.06	0.05	0.06	0.03	0.03	0.03	0.03		
Tin, Total	mg/L	2.0	4.0		0.11	0.17	0.091	0.12	0.081	0.124	0.045	0.055	0.045	0.11	0.15	0.26	0.09	0.18	0.052	0.10	0.065	0.90	0.070	0.12	0.08	0.11	0.09	0.11	0	0
Zinc, Total	g/day	28	55		9	13	12	24	25	34	12	18	15	28	13	21	21	40	18	24	26	30	26	36	22	55	16	26	0	0
Zinc, Total	µg/L	1000	2000		21.5	26	21.2	45	49.8	73	23	39	28	56	21	31	34	64	27	36	44	61	41	55	34	77	31	53	0	0

ATTACHMENT 9

DSN 001-1 : METAL FINISHING WASTEWATERS; BUILDING MAINTENANCE WASTEWATERS; SCRUBBER WASTEWATERS

2016

PARAMETER	UNITS	Flow/Time-BasedLimits		Instantaneous Limits	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		VIOLATIONS OF AVERAGE MONTLY LIMIT	VIOLATIONS OF MAXIMUM DAILY LIMIT
		Average Monthly	Maximum Daily		Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily		
Aluminum, Total	µg/L	2000	4000		5.0	20	0	0	6	30	15	60	6	30	0	0	30	40	18	30	10	20	0	0	10	50	0	0	0	0
BOD_5	kg/day	42.7			5.08	5.08	7.93	7.93	6.47	6.47	10.5	10.5	1.53	1.53	3.6	3.6	8.2	9.0	4.43	4.43	16.8	16.8	14.62	14.62	0.00	0.00	5.31	5.31	0	0
Cadmium, Total	g/day	23	46		0.0	0.0											0.0	0.0											0	0
Cadmium, Total	µg/L	100	500		0	0											0	0											0	0
Chlorine, Total Residual	µg/L	115	232		20.7	25	12	13	19	23	18	23	17	20	18	20	21	27	18	23	18	22	16	27	23	27	18	28	0	0
Chloroform	µg/L	—	—		94.6	94.6	95.9	95.9	92.2	92.2	95.0	95.0	149	149	46	46	77	83	34.7	34.7	86.2	86.2	46.1	46.1	36.1	36.1	102	102		
Chromium, Total	µg/L	1000	2000		6	12	1.50	6	0	0	3.5	14	7.6	20	4	9	3	5	1	5	1	7	0	0	0	0	1.5	6	0	0
Copper, Total	g/day	228	457		73	111	62	88	48	60	68	83	50.8	75	64	70	126	156	88	106	80	89	58	76	109	131	72	116	0	0
Copper, Total	µg/L	474	876		139	189	99	120	81	105	106	142	95	138	119	138	240	287	157	183	126	162	107	132	55	71	119	163	0	0
Cyanide, Free	mg/L	0.1	0.2		0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0	0
Cyanide, Total	g/day	193	386		1.2	4.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	14	2	6	0	0	7	28	0	0
Cyanide, Total	µg/L	220	400		2	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	20	4	10	0	0	10	50	0	0
Duration of Daily Discharge	hr/day	—	—			24		24		24		24		24		24		24		24		24		24		24		24		
Flow Rate, Average Daily	gpd	330,000			137,129		150,842		152,321		133,596		119,001		126,652		126,392		132,917		143,002		141,507		137,759		114,822		0	0
Flow, Day of Sampling	gpd		400,000			156,542		193,519		185,904		189,701		161,544		179,812		149,716		165,846		187,731		164,392		148,195		188,285		
Flow, Maximum During 24 Hours	gpd		400,000			206,242		215,942		201,866		206,614		162,585		179,812		204,938		223,090		222,679		172,998		197,621		188,285		
Fluoride, Total	mg/L	20	30		5.25	12.5	2.09	3.0	3.20	5.0	2.70	3.70	2.77	3.32	3.54	5.30	2.43	3.20	1.67	2.50	1.74	2.70	3.29	6.00	2.67	2.90	3.18	4.42	0	0
Gold, Total	mg/L	0.1	0.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
Indium, Total	mg/L	—	—		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Iron, Total	mg/L	3	5		0.035	0.060	0.017	0.030	0.020	0.030	0.038	0.050	0.054	0.13	0.047	0.060	0.053	0.060	0.048	0.06	0.052	0.080	0.026	0.050	0.04	0.09	0.05	0.13	0	0
Lead, Total	g/day	7	13		4.0	10.6	4.1	7.3	0.6	3.1	3.1	4.7	1.1	2.7	5.2	8.7	2.1	3.6	3.6	5.0	0.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0	0
Lead, Total	µg/L	16	48		7	18	7	14	1.2	6	5	8	2	5	10	18	4	8	6.4	8	1.5	6.0	0.0	0.0	0.0	0.0	0.0	0	0	0
Nickel, Total	µg/L	653	1210		271	410	168	290	78	120	118	140	120	175	136	164	87	98	95	110	70	120	84	122	97	131	94	114	0	0
Nickel, Total	g/day	442	887		138	220	107	198	47	70	76	83	65	95	74	94	45	56	53	60	43	63	46	70	49	73	56	81	0	0
Nitrogen, Ammonia	mg/L	10	20		3.73	5.40	1.92	2.5	2.84	6.00	2.77	3.8	3.70	4.30	2.4	3.8	2.77	3.4	2.6	4.2	2.6	2.8	3.04	5.0	2.90	3.2	2.70	5.0	0	0
Nitrogen, Kjeldahl	mg/L	—	—		8.50	10.0	6.3	9.4	6.52	6.8	8.05	10.6	10.48	15.80	5.75	8.40	6.73	9.2	5.56	7.4	5.80	6.60	7.76	10.00	7.20	8.6	7.70	9.60		
Nitrogen, Nitrate	mg/L	—	—		6.40	15.45	4.40	7.17	5.36	6.64	5.2	7.3	3.2	3.9	5.26	6.16	5.11	9.65	3.00	6.95	3.84	7.23	4.48	11.01	6.45	11.73	5.47	6.81		
Nitrogen, Nitrite	mg/L	—	—		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.25	0.00	0.00	0.03	0.10	0.00	0.00		
Nitrogen, Total	kg/day				7.43		6.61		6.97		8.66		7.40		6.043		6.110		4.799		6.331		6.523		6.84		7.87			
Nitrogen, Total	lbs/day				16.35		14.54		15.33		19.05		16.28		13.29		13.44		10.56		13.93		14.35		15.05		17.31		0	0
Nitrogen, Total	mg/L				14.90		10.65		11.88		13.25		13.72		11.01		11.84		8.56		9.70		12.24		13.68		13.17			
Oil & Grease, Total	mg/L	10	15		0.78	1.20	0.93	1.2	0.51	1.40	0.42	0.93	0.77	1.92	0.42	0.67	0.13	0.20	0.41	1.20	1.08	2.2	1.27	1.667	1.1	2.3	1.8	2.7	0	0
Organics, Total Toxic (TTO)	mg/L			1.0		0.0946																		0.0527						0
Palladium, Total	mg/L				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
pH, Day of Sampling	SU			6.0-9.0	7.4	8.9	7.0	8.6	7.4	8.9	7.5	9.0	7.2	8.9	7.2	8.9	7.3	8.9	6.5	9.0	7.5	9.0	6.5	9.0	7.3	9.0	7.8	9.0	0	0
pH, Continuous	SU			6.0-9.0	7.0	8.9	7.0	8.9	7.0	8.9	7.4	9.0	7.0	9.0	7.2	9.0	7.0	9.0	6.5	9.0	7.4	9.0	6.5	9.0	6.5	9.0			0	0
Silver, Total	g/day	27	54		30	58	23	33	8	10	21	36	11	17	13	17	9.9	11	11.3	15.8	12.5	18.6	11.7	26.4	8	11	11	17	0	0
Silver, Total	µg/L	100	430		63	143	37	49	13.4	20	31	55	21	35	22	27	19	24	21	34	20	34	21	46	17	20	19	29	0	0
Solids, Total Suspended	mg/L	20	30		2.8	6.0	2.0	2.0	1.8	4.0	2.3	3.0	2.0	5.0	3.3	6.0	3.7	5.0	3.2	9.0	7.0	11.0	3.2	5.0	6.5	7.0	3.3	4.0	0	0
Surfactants (MBAS)	mg/L	—	—		0.06	0.06	0.06	0.06	0.03	0.03	0.04	0.04	0.03	0.03	0.05	0.05	0.04	0.06	0.13	0.13	0.04	0.04	0.00	0.00	0.02	0.02	0.06	0.06		
Tin, Total	mg/L	2.0	4.0		0.082	0.11	0.015	0.03	0.026	0.110	0.03	0.04	0.030	0.08	0.04	0.10	0.01	0.03	0.038	0.11	0.000	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0	0
Zinc, Total	g/day	28	55		21	32	18	22	16	20	22	23	16	21	24	27	19	22	23	27	20	24	15	17	19	27	18	26	0	0
Zinc, Total	µg/L	1000	2000		44.5	54	29	33	28.2	34	33	40	29	39	44	58	37	38	42	47	32	40	27	33	38	48	30	37	0	0

ATTACHMENT 9

DSN 001-1: METAL FINISHING WASTEWATERS; BUILDING MAINTENANCE WASTEWATERS; SCRUBBER WASTEWATERS

2017

PARAMETER	UNITS	Flow/Time-Based Limits		Instantaneous Limits	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		VIOLATIONS OF AVERAGE MONTLY LIMIT	VIOLATIONS OF MAXIMUM DAILY LIMIT
		Average Monthly	Maximum Daily		Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily		
Aluminum, Total	µg/L	2000	4000		0.0	0.0	0	0	0	0	30	90	0	0	10	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BOD_5	kg/day	42.7			5.12	5.12	0.00	0.00	8.31	8.31	10.7	10.7	2.11	2.11	8.1	8.1	10.5	10.5	10.54	10.54	5.0	5.0	15.82	15.82	18.99	18.99	5.97	5.97	0	0
Cadmium, Total	g/day	23	46		0.0	0.0											0.0	0.0											0	0
Cadmium, Total	µg/L	100	500		0	0											0	0											0	0
Chlorine, Total Residual	µg/L	115	232		20	25	19	22	16	17	20	25	18	23	21	25	14	17	20	23	21	27	17	22	20	23	23	28	0	0
Chloroform	µg/L	—	—		166	166	102	102	89	89	54.0	54.0	133	133	69	69	16	16	18.2	18.2	61.8	61.8	30.4	30.4	54.0	54.0	96	96		
Chromium, Total	µg/L	1000	2000		0	0	1.25	5	6	7	0.0	0	4.0	8	9	16	6	13	0	0	6.5	16	1	6	2	6	2.0	5	0	0
Copper, Total	g/day	228	457		54	75	58	95	69	94	98	160	54	62	81	124	41	62	53	88	36	42	46	63	48	50	31	43	0	0
Copper, Total	µg/L	474	876		98	132	112	157	127	170	166	249	102	112	144	226	78	109	89	132	66	80	82	103	91	114	70	91	0	0
Cyanide, Free	mg/L	0.1	0.2		0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.01	0.03	0.00	0.00	0.00	0.01	0.01	0.04	0.00	0.00	0	0
Cyanide, Total	g/day	193	386		11	35	1	4	0	0	0	0	6	12	0	10	4	6	12	40	0	0	5	6	15	43	0	0	0	0
Cyanide, Total	µg/L	220	400		10	70	2.5	10	0	0	0	0	10	30	10	20	10	10	20	60	0	0	4	10	30	100	0	0	0	0
Duration of Daily Discharge	hr/day	—	—			24		24		24		24		24		24		24		24		24		24		24		24		
Flow Rate, Average Daily	gpd	330,000			129,633		116,423		115,907		135,008		117,200		122,446		118,856		131,446		119,148		132,254		127,132		88,756		0	0
Flow, Day of Sampling	gpd		400,000			179,304		160,573		169,619		134,513		168,218		196,839		160,757		177,174		158,713		162,938		160,048		126,261		
Flow, Maximum During 24 Hours	gpd		400,000			195,015		198,537		185,251		205,747		178,985		197,621		183,483		183,369		203,300		186,302		172,151		158,333		
Fluoride, Total	mg/L	20	30		3.67	5.2	6.91	12.6	1.85	2.7	1.74	3.00	1.42	2.30	1.54	2.20	2.85	4.70	3.87	7.00	4.78	8.00	3.02	3.50	9.77	15.60	2.46	3.90	0	0
Gold, Total	mg/L	0.1	0.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
Indium, Total	mg/L	—	—		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Iron, Total	mg/L	3	5		0.000	0.000	0.028	0.030	0.025	0.040	0.035	0.040	0.030	0.05	0.043	0.050	0.037	0.050	0.034	0.05	0.038	0.060	0.042	0.060	0.04	0.05	0.03	0.06	0	0
Lead, Total	g/day	7	13		0.0	0.0	0.0	0.0	3.0	3.0	4.0	5.0	3.0	3.0	3.0	3.9	0.0	0.0	0.0	0.0	3.0	3.3	2.7	3.0	0.0	0.0	0.0	0.0	0	0
Lead, Total	µg/L	16	48		0	0	0	0	5.0	6.0	7	8	5	5	5	6	0	0	0	0	1.7	7.0	0	0	0	0	0	0	0	0
Nickel, Total	µg/L	653	1210		67	100	102	158	138	163	136	175	108	140	113	136	76	103	96	140	69	80	95	124	133	190	95	140	0	0
Nickel, Total	g/day	442	887		36	47	50	65	75	91	80	106	57	79	63	74	40	58	57	91	38	49	52	73	70	80	42	54	0	0
Nitrogen, Ammonia	mg/L	10	20		3.10	4.40	4.00	4.9	4.20	5.50	5.90	7.0	2.40	3.60	3.5	5.0	2.67	3.35	4.4	6.0	5.1	8.5	2.5	3.4	6.30	10.0	5.30	8.0	0	0
Nitrogen, Kjeldahl	mg/L	—	—		10.88	14.0	8.4	9.8	8.30	9.4	12.25	16.0	8.52	11.00	9.85	14.40	11.87	14.0	14.16	22.0	13.85	17.00	11.72	17.60	17.70	19.8	15.56	18.20		
Nitrogen, Nitrate	mg/L	—	—		4.57	7.71	2.99	3.74	6.00	9.40	3.3	6.1	5.1	7.6	5.72	12.48	2.67	3.35	3.65	6.17	5.06	8.52	8.44	16.60	7.83	10.67	9.11	18.18		
Nitrogen, Nitrite	mg/L	—	—		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.18		
Nitrogen, Total	kg/day				8.62		5.75		7.66		9.00		7.32		8.60		7.81		10.35		10.39		11.06		13.60		11.23			
Nitrogen, Total	lbs/day				18.96		12.65		16.85		19.80		16.10		18.92		17.18		22.77		22.86		24.33		29.92		24.71		0	0
Nitrogen, Total	mg/L				15.45		11.39		14.30		15.52		13.69		15.57		14.54		17.81		18.91		20.16		25.53		24.72			
Oil & Grease, Total	mg/L	10	15		0.90	1.70	1.20	3.2	0.50	0.60	0.88	1.30	0.60	0.87	0.70	1.10	0.84	1.40	0.53	0.80	0.70	0.9	0.57	1.067	1.0	1.8	0.9	2.3	0	0
Organics, Total Toxic (TTO)	mg/L			1.0		0.1660												0.0163												0
Palladium, Total	mg/L				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
pH, Day of Sampling	SU			6.0-9.0	7.4	9.0	7.8	8.9	6.9	9.0	7.3	9.0	7.4	8.9	7.6	9.0	7.3	8.9	7.9	8.9	8.0	8.9	8.0	8.8	8.0	8.8	7.9	8.7	0	0
pH, Continuous	SU			6.0-9.0	7.4	9.0	7.8	8.9	6.9	9.0	7.3	9.0	7.0	9.0	6.7	9.0	7.3	8.9	7.7	8.9	8.0	9.0	7.1	9.0	7.8	8.9	7.1	9.0	0	0
Silver, Total	g/day	27	54		21	37	10	12	11	15	16	22	12	16	13	20	7	8	7	10	11	14	12.4	16.6	12	15	11.3	17.6	0	0
Silver, Total	µg/L	100	430		39	75	20	21	21	32	27	34	22	26	22	31	13	16	12	17	20	27	22	32	23	35	25	37	0	0
Solids, Total Suspended	mg/L	20	30		3.4	8.0	2.3	4.0	3.5	5.0	2.0	4.0	2.3	4.0	4.5	7.0	1.7	3.0	1.2	2.0	1.0	2.0	1.4	3.0	5.8	9.0	2.5	5.0	0	0
Surfactants (MBAS)	mg/L	—	—		0.00	0.00	0.03	0.03	0.04	0.04	0.03	0.03	0.04	0.04	0.02	0.02	0.02	0.02	0.05	0.05	0.05	0.05	0.04	0.04	0.00	0.00	0.08	0.08		
Tin, Total	mg/L	2.0	4.0		0.012	0.06	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.005	0.02	0.012	0.06	0.02	0.06	0.00	0.00	0	0
Zinc, Total	g/day	28	55		13	16	15	24	17	21	17	20	15	17	16	17	11	12	12	14	16	17	20	27	13	17	8	10	0	0
Zinc, Total	µg/L	1000	2000		23	34	30	39	32	35	30	37	27	30	28	30	20	20	20	25	29	36	37	51	26	29	17	21	0	0

ATTACHMENT 9

DSN 001-1: METAL FINISHING WASTEWATERS; BUILDING MAINTENANCE WASTEWATERS; SCRUBBER WASTEWATERS

2018

PARAMETER	UNITS	Flow/Time-BasedLimits		Instantaneous Limits	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		VIOLATIONS OF AVERAGE MONTLY LIMIT	VIOLATIONS OF MAXIMUM DAILY LIMIT
		Average Monthly	Maximum Daily		Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily		
Aluminum, Total	µg/L	2000	4000		0.0	0.0	10	20	0	0	0	0	4	20	10	20													0	0
BOD_5	kg/day	42.7			17.08	17.08	8.92	8.92	2.46	2.46	4.5	4.5	0.00	0.00	1.9	1.9													0	0
Cadmium, Total	g/day	23	46		0.0	0.0																							0	0
Cadmium, Total	µg/L	100	500		0	0																							0	0
Chlorine, Total Residual	µg/L	115	232		23	27	21	25	22	23	21	27	21	28	4	10													0	0
Chloroform	µg/L	---	---		75.5	75.5	43	43	34	34	24.4	24.4	26	26	62	62														
Chromium, Total	µg/L	1000	2000		2	8	3	10	3	7	0.0	0	2.0	5	0	0													0	0
Copper, Total	g/day	228	457		29	32	60	92	55	77	50	80	59	78	38	51													0	0
Copper, Total	µg/L	474	876		60	75	99	144	100	157	90	119	100	138	72	91													0	0
Cyanide, Free	mg/L	0.1	0.2		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02													0	0
Cyanide, Total	g/day	193	386		5	10	5	6	0	0	0	0	0	0	14	42													0	0
Cyanide, Total	µg/L	220	400		10	20	2.5	10	0	0	0	0	0	0	26	90													0	0
Duration of Daily Discharge	hr/day	---	---			24		24		24		24		24		24														
Flow Rate, Average Daily	gpd	330,000			121,721		133,493		135,289		129,638		134,727		113,689														0	0
Flow, Day of Sampling	gpd		400,000			153,931		170,484		165,786		178,390		198,816		149,362														
Flow, Maximum During 24 Hours	gpd		400,000			175,691		170,484		198,820		184,815		205,470		158,893														
Fluoride, Total	mg/L	20	30		2.99	7.6	1.86	3.3	2.35	2.9	2.44	5.35	2.58	3.40	1.97	2.74													0	0
Gold, Total	mg/L	0.1	0.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00													0	0
Indium, Total	mg/L	---	---		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00														
Iron, Total	mg/L	3	5		0.040	0.050	0.047	0.090	0.035	0.060	0.040	0.050	0.032	0.05	0.020	0.050													0	0
Lead, Total	g/day	7	13		4.0	8.1	5.0	11.0	0.0	0.0	3.0	5.4	0.0	0.0	3.0	4.5													0	0
Lead, Total	µg/L	16	48		8	19	9	22	0.0	0.0	2	8	0	0	6	9													0	0
Nickel, Total	µg/L	653	1210		103	150	106	126	118	127	141	185	125	146	74	97													0	0
Nickel, Total	g/day	442	887		50	76	62	74	67	74	80	124	75	90	39	52													0	0
Nitrogen, Ammonia	mg/L	10	20		3.70	6.00	4.00	7.4	3.80	6.00	2.70	3.4	3.50	5.00	5.2	8.6													0	0
Nitrogen, Kjeldahl	mg/L	---	---		8.56	12.0	7.6	15.8	10.05	17.8	6.40	8.0	7.32	10.80	10.25	15.80														
Nitrogen, Nitrate	mg/L	---	---		3.80	5.89	7.51	14.19	5.34	8.86	5.2	9.4	3.4	6.5	8.38	19.94														
Nitrogen, Nitrite	mg/L	---	---		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00														
Nitrogen, Total	kg/day				6.17		8.95		9.10		6.53		6.34		9.49															
Nitrogen, Total	lbs/day				13.57		19.69		20.02		14.37		13.95		20.88														0	0
Nitrogen, Total	mg/L				12.36		15.06		15.39		11.55		10.67		18.63															
Oil & Grease, Total	mg/L	10	15		0.48	0.60	0.35	0.4	0.42	0.67	0.40	0.80	0.89	1.47	0.55	1.00													0	0
Organics, Total Toxic (TTO)	mg/L			1.0																										0
Palladium, Total	mg/L				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00														
pH, Day of Sampling	SU			6.0-9.0	8.0	9.0	7.8	8.7	8.0	8.7	8.0	8.8	8.0	8.9	7.8	9.0													0	0
pH, Continuous	SU			6.0-9.0	7.9	9.0	7.0	8.9	7.8	8.9	7.3	8.8	7.9	9.0	7.8	9.0													0	0
Silver, Total	g/day	27	54		7	13	7	9	10	13	5	10	11	21	11	21													0	0
Silver, Total	µg/L	100	430		14	22	12	17	18	21	9	17	19	34	23	45													0	0
Solids, Total Suspended	mg/L	20	30		3.0	6.0	1.3	2.0	1.8	3.0	1.8	3.0	1.4	3.0	1.8	3.0													0	0
Surfactants (MBAS)	mg/L	---	---		0.05	0.05	0.00	0.00	0.08	0.08	0.06	0.06	0.00	0.00	0.00	0.00														
Tin, Total	mg/L	2.0	4.0		0.040	0.02	0.045	0.12	0.00	0.00	0.03	0.06	0.02	0.06	0.06	0.22													0	0
Zinc, Total	g/day	28	55		8	11	12	23	18	22	11	19	17	28	9	19													0	0
Zinc, Total	µg/L	1000	2000		16	23	21	36	32	44	20	31	27	37	18	34													0	0

ATTACHMENT 9

DSN 001A : PRETREATED CYANIDE-BEARING WASTEWATERS

2008

Parameter	Units	Flow/Time-BasedLimits		Instantaneous Limits	JAN		FEB		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPT		OCT		NOV		DEC		VIOLATIONS OF AVERAGE MONTLY LIMIT	VIOLATIONS OF MAXIMUM DAILY LIMIT
		Average Monthly	Maximum Daily		Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily		
Cyanide, Amenable	mg/L	0.32	0.86		0.039	0.082	0.039	0.082	0.054	0.103	0.060	0.103	0.025	0.06	0.036	0.048	0.044	0.05	0.060	0.108	0.08	0.10	0.06	0.10	0.05	0.05	0.06	0.10	0	0

2009

Parameter	Units	Flow/Time-BasedLimits		Instantaneous Limits	JAN		FEB		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPT		OCT		NOV		DEC		VIOLATIONS OF AVERAGE MONTLY LIMIT	VIOLATIONS OF MAXIMUM DAILY LIMIT
		Average Monthly	Maximum Daily		Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily		
Cyanide, Amenable	mg/L	0.32	0.86		0.04	0.04	0.05	0.08	0.041	0.063	0.05	0.06	0.04	0.05	0.07	0.08	0.06	0.08	0.052	0.073	0.07	0.08	0.05	0.062	0.061	0.088	0.03	0.040	0	0

2010

Parameter	Units	Flow/Time-BasedLimits		Instantaneous Limits	JAN		FEB		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPT		OCT		NOV		DEC		VIOLATIONS OF AVERAGE MONTLY LIMIT	VIOLATIONS OF MAXIMUM DAILY LIMIT
		Average Monthly	Maximum Daily		Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily		
Cyanide, Amenable	mg/L	0.32	0.86		0.045	0.058	0.0375	0.047	0.0375	0.047	0.0557	0.088	0.0666	0.088	0.0388	0.055	0.0323	0.042	0.0582	0.077	0.061	0.075	0.026	0.032	0.0708	0.11	0.0637	0.087	0	0

2011

Parameter	Units	Flow/Time-BasedLimits		Instantaneous Limits	JAN		FEB		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPT		OCT		NOV		DEC		VIOLATIONS OF AVERAGE MONTLY LIMIT	VIOLATIONS OF MAXIMUM DAILY LIMIT
		Average Monthly	Maximum Daily		Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily		
Cyanide, Amenable	mg/L	0.32	0.86		0.0050	0.025	0.07275	0.097	0.07625	0.090	0.0655	0.077	0.0512	0.083	0.048	0.062	0.047	0.062	0.0374	0.050	0.04975	0.067	0.07225	0.137	0.0455	0.057	0.0483	0.010	0	0

2012

Parameter	Units	Flow/Time-BasedLimits		Instantaneous Limits	JAN		FEB		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPT		OCT		NOV		DEC		VIOLATIONS OF AVERAGE MONTLY LIMIT	VIOLATIONS OF MAXIMUM DAILY LIMIT
		Average Monthly	Maximum Daily		Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily		
Cyanide, Amenable	mg/L	0.32	0.86		0.0314	0.040	0.0282	0.043	0.051	0.068	0.0632	0.083	0.029	0.043	0.033	0.067	0.027	0.033	0.0385	0.050	0.03	0.052	0.0606	0.073	0.06	0.093	0.0980	0.102	0	0

2013

Parameter	Units	Flow/Time-BasedLimits		Instantaneous Limits	JAN		FEB		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPT		OCT		NOV		DEC		VIOLATIONS OF AVERAGE MONTLY LIMIT	VIOLATIONS OF MAXIMUM DAILY LIMIT
		Average Monthly	Maximum Daily		Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily		
Cyanide, Amenable	mg/L	0.32	0.86		0.0612	0.080	0.0760	0.100	0.072	0.110	0.0496	0.068	0.055	0.115	0.050	0.107	0.031	0.035	0.0700	0.118	0.08	0.137	0.0617	0.090	0.03	0.055	0.0350	0.085	0	0

2014

Parameter	Units	Flow/Time-BasedLimits		Instantaneous Limits	JAN		FEB		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPT		OCT		NOV		DEC		VIOLATIONS OF AVERAGE MONTLY LIMIT	VIOLATIONS OF MAXIMUM DAILY LIMIT
		Average Monthly	Maximum Daily		Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily		
Cyanide, Amenable	mg/L	0.32	0.86		0.0350	0.060	0.0870	0.120	0.042	0.090	0.1050	0.210	0.045	0.140	0.037	0.060	0.012	0.040	0.0270	0.040	0.02	0.060	0.0125	0.020	0.03	0.060	0.0040	0.010	0	0

2015

Parameter	Units	Flow/Time-BasedLimits		Instantaneous Limits	JAN		FEB		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPT		OCT		NOV		DEC		VIOLATIONS OF AVERAGE MONTLY LIMIT	VIOLATIONS OF MAXIMUM DAILY LIMIT
		Average Monthly	Maximum Daily		Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily		
Cyanide, Amenable	mg/L	0.32	0.86		0.04	0.06	0.0325	0.050	0.004	0.010	0.0075	0.020	0.013	0.020	0.005	0.010	0.000	0.000	0.002	0.010	0.005	0.020	0.0025	0.010	0.00	0.000	0.0000	0.000	0	0

2016

Parameter	Units	Flow/Time-BasedLimits		Instantaneous Limits	JAN		FEB		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPT		OCT		NOV		DEC		VIOLATIONS OF AVERAGE MONTLY LIMIT	VIOLATIONS OF MAXIMUM DAILY LIMIT
		Average Monthly	Maximum Daily		Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily		
Cyanide, Amenable	mg/L	0.32	0.86		0.0000	0.000	0.0000	0.000	0.004	0.020	0.0000	0.000	0.000	0.000	0.000	0.000	0.007	0.010	0.0040	0.020	0.00	0.000	0.0000	0.000	0.01	0.020	0.0230	0.070	0	0

2017

Parameter	Units	Flow/Time-BasedLimits		Instantaneous Limits	JAN		FEB		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPT		OCT		NOV		DEC		VIOLATIONS OF AVERAGE MONTHLY LIMIT	VIOLATIONS OF MAXIMUM DAILY LIMIT
		Average Monthly	Maximum Daily		Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily		
Cyanide, Amenable	mg/L	0.32	0.86		0.0000	0.000	0.0100	0.020	0.000	0.010	0.0000	0.000	0.000	0.020	0.000	0.010	0.000	0.000	0.0120	0.060	0.00	0.000	0.0020	0.010	0.02	0.070	0.0125	0.040	0	0

2018

Parameter	Units	Flow/Time-BasedLimits		Instantaneous Limits	JAN		FEB		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPT		OCT		NOV		DEC		Exceedenc	Exceedenc
		Average Monthly	Maximum Daily		Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily	Average Monthly	Maximum Daily		
Cyanide, Amenable	mg/L	0.32	0.86		0.0226	0.050	0.0100	0.030	0.008	0.010	0.0000	0.000	0.000	0.000	0.013	0.050													0	0

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)
Treated metal finishing and cleaning rinsewaters; Laboratory wastewater; Water Treatment Wastewater; Drum rinsing wastewaters; Tumbling wastewaters; Groundwater remediation wastewater; Floorwash water/Building maintenance wastewater; Air scrubber wastewater	159,847		
Boiler blowdown; Air compressor condensate/blowdown; Fire suppression test water		153	
Cyanide-bearing wastewaters			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**	**1035**	**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**	**36329**	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)

DSN 001-1 WASTESTREAMS	Average Process Wastewater Flow (gpd)	Average Non-Process Wastewater Flow (gpd)	Average Cyanide-Bearing Wastewater Flow (gpd)
Treated metal finishing and cleaning rinsewaters; Laboratory wastewater; Drum rinsing wastewaters; Tumbling wastewaters; Groundwater remediation wastewater; Floorwash water/Building maintenance wastewater; Air scrubber wastewater	329,685		
Boiler blowdown; Air compressor condensate/blowdown; Fire suppression test water		315	
Cyanide-bearing wastewaters			130,000
	329,685	315	130,000

PROCESS FLOW: **329,685** gpd 99.90%
TOTAL FLOW: **330,000** 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	329,685	330,000							2.0	4.0	**2.0**	**4.0**	**2498**	**4995**
Cadmium, Total	329,685	330,000	0.07	0.11	**0.07**	**0.11**	**87**	**137**	0.07	0.11	**0.07**	**0.11**	**87**	**137**
Chromium, Total	329,685	330,000	1.71	2.77	**1.71**	**2.77**	**2135**	**3459**	1.0	2.0	**1.0**	**2.0**	**1249**	**2498**
Copper, Total	329,685	330,000	2.07	3.38	**2.07**	**3.38**	**2585**	**4221**	1.0	2.0	**1.0**	**2.0**	**1249**	**2498**
Cyanide, Amenable	329,685	330,000							0.1	0.2	**0.1**	**0.2**	**125**	**250**
Cyanide, Total*	130,000	330,000	0.65	1.20	**0.26**	**0.47**	**320**	**591**	0.65	1.2	**0.26**	**0.47**	**320**	**591**
Fluoride	329,685	330,000							20	30	**20**	**30**	**24976**	**37464**
Gold, Total	329,685	330,000							0.1	0.5	**0.1**	**0.5**	**125**	**624**
Iron, Total	329,685	330,000							3.0	5.0	**3.0**	**5.0**	**3746**	**6244**
Lead, Total	329,685	330,000	0.43	0.69	**0.43**	**0.69**	**537**	**862**	0.1	0.5	**0.1**	**0.5**	**125**	**624**
Nickel, Total	329,685	330,000	2.38	3.98	**2.38**	**3.98**	**2972**	**4970**	1.0	2.0	**1.0**	**2.0**	**1249**	**2498**
Oil & Grease	329,685	330,000	26	52	**26**	**52**	**32469**	**64938**	10		**10**		**12488**	
pH	329,685	330,000	6.0	9.0										
Silver, Total	329,685	330,000	0.24	0.43	**0.24**	**0.43**	**300**	**537**	0.1	0.5	**0.1**	**0.5**	**125**	**624**
Tin, Total	329,685	330,000							2.0	4.0	**2.0**	**4.0**	**2498**	**4995**
Total Suspended Solids	329,685	330,000	31	60	**31**	**60**	**38713**	**74928**	20	30	**20**	**30**	**24976**	**37464**
TTO	329,685	330,000		2.13		**2.13**								
Zinc, Total	329,685	330,000	1.48	2.61	**1.48**	**2.61**	**1848**	**3259**	1.0	2.0	**1.0**	**2.0**	**1249**	**2498**

* 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(*l*). 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 meet 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.

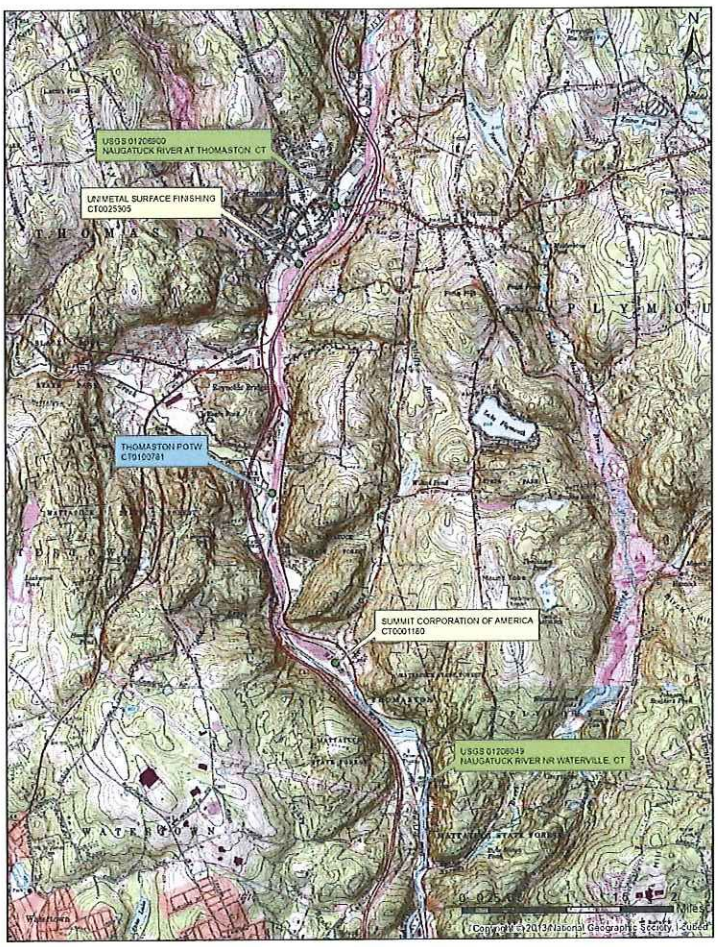
- **Prevention of Acutely Toxic Conditions**. Among other thing, the WQS require that discharges to surface waters do not cause acute or chronic toxicity to freshwater and marine aquatic life. Acutely toxic conditions are defined as those lethal to aquatic organisms that may pass through the mixing zone. 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 discharges 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-                                    Variance    95-Pct Confidence
 exceedance     Recurrence  Parameter        of            Intervals
 Probability     Interval     Value       Estimate     Lower       Upper
 -----------    ----------  ---------    --------   ---------   ---------
      0.1000         10.00      10.965       1.002       9.158      12.504
```

N-Day_Low_Annual_Time_Series_and_Ranking - Notepad

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```
N-Day Low Annual Time Series and Ranking
STAID   01206900
STANAM  NAUGATUCK RIVER AT THOMASTON, CT
Year    LOO7    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    18.571  1981/09/06 24:00        29
1983    20      1982/09/20 24:00        34
1984    13.571  1983/09/10 24:00        15
1985    22.743  1984/10/01 24:00        38
1986    24.586  1985/08/24 24:00        41
1987    19.271  1986/09/20 24:00        31
1988    16.571  1987/08/26 24:00        20
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**:

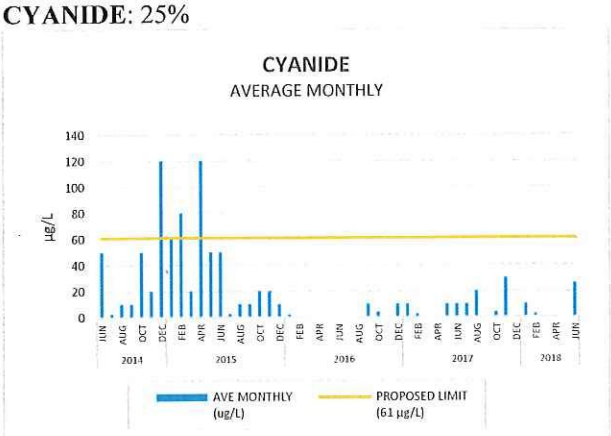
$$7Q10\ Flow_{Summit} = 7Q10\ Flow_{USGS\ 01206900} * \frac{Drainage\ Area_{Summit}}{Drainage\ Area_{USGS\ 01206900}}$$

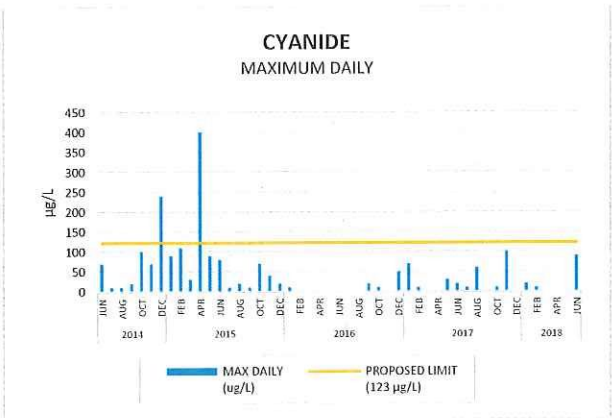
$$7Q10\ Flow_{Summit} = 10.965 * \frac{136}{99.8} = \mathbf{14.94\ cfs}$$

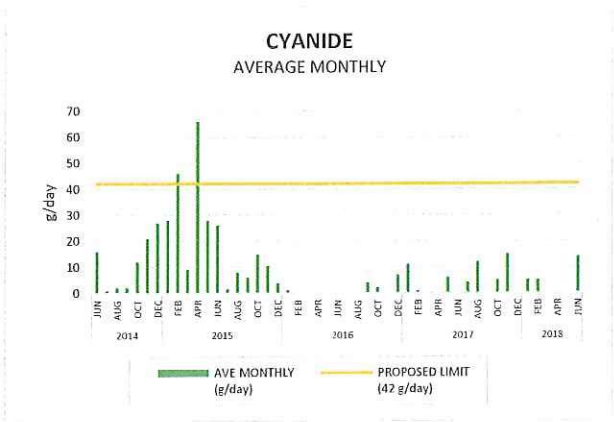
MIXING ZONE ALLOCATIONS

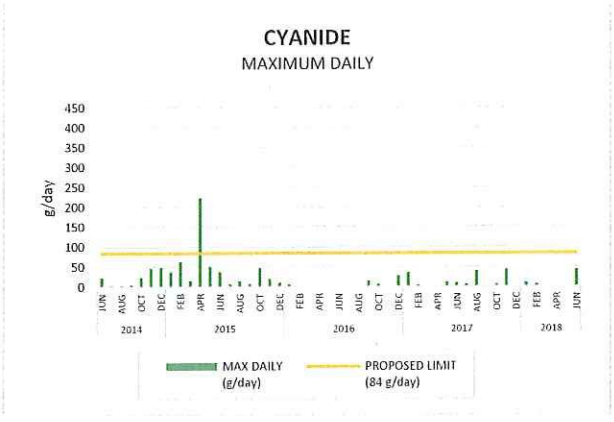
Mixing zones are required to be limited to the maximum extent possible and are allocated on a case-by-case basis contingent on several factors, including the physical, chemical, and biological characteristics of the discharge and the receiving system; the organisms in the receiving system; and a determination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

CYANIDE: 25%

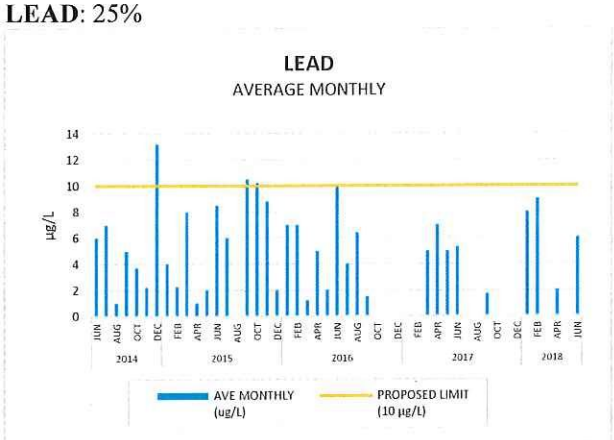


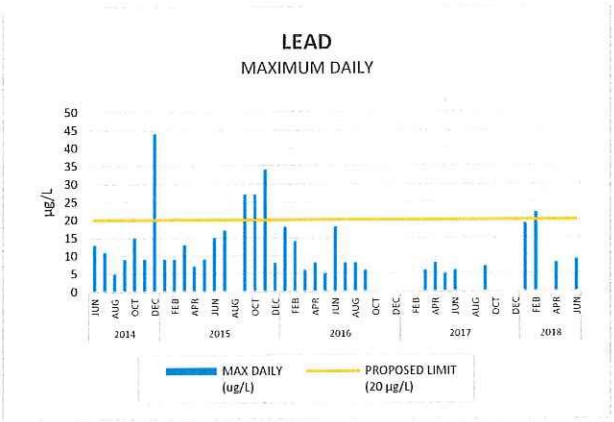


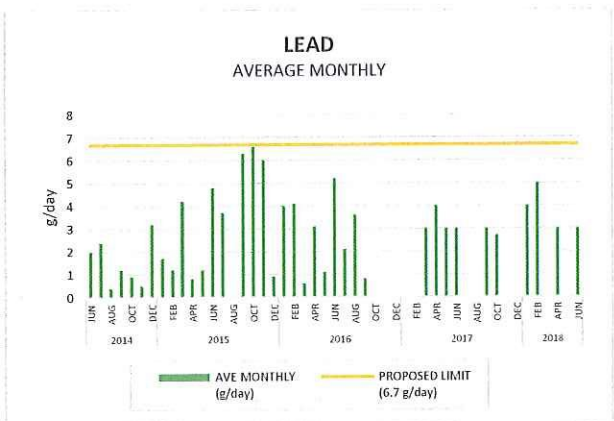


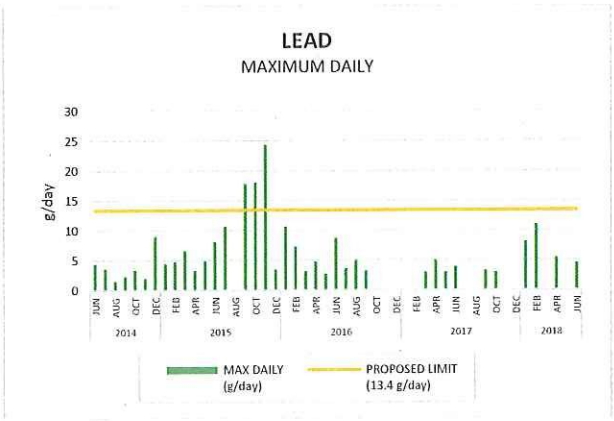


LEAD: 25%

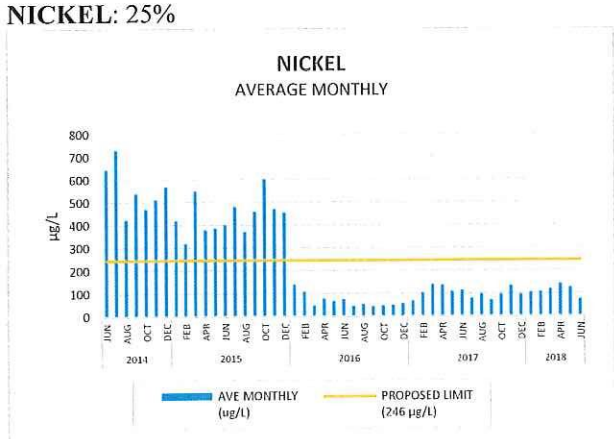


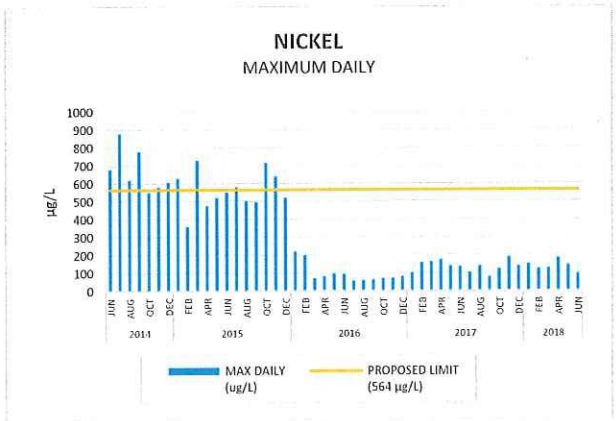


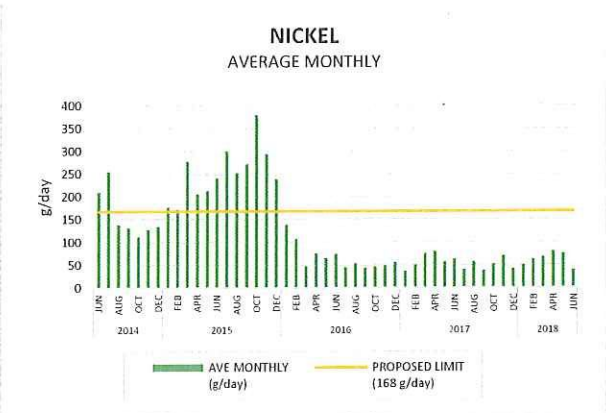


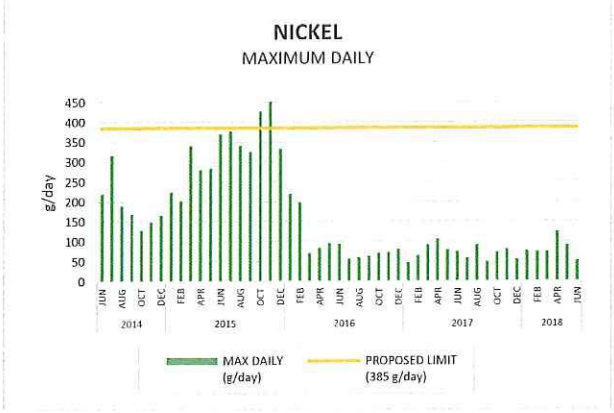


NICKEL: 25%

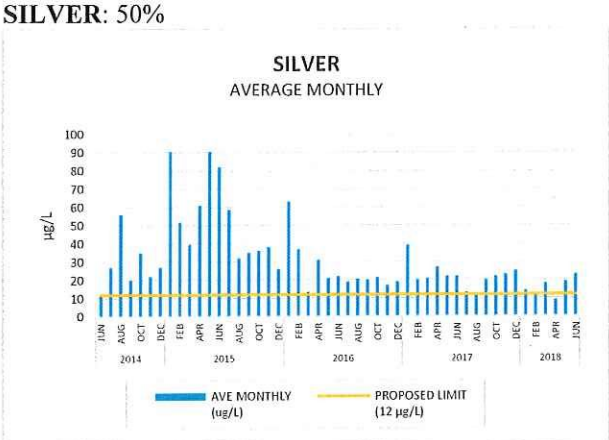


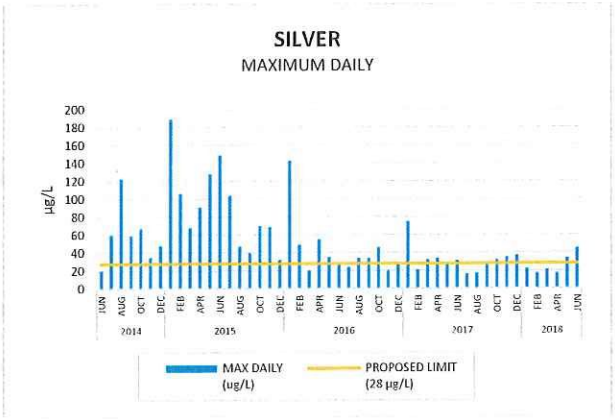


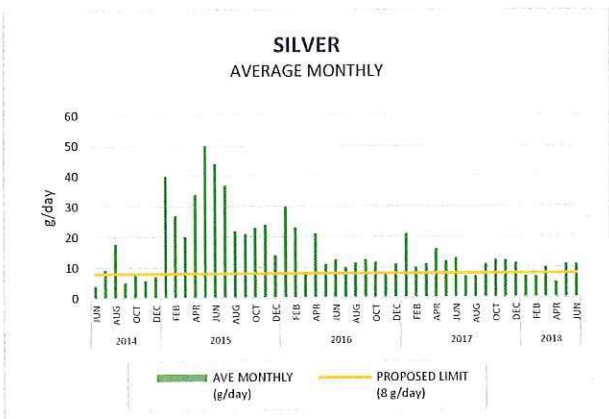




SILVER: 50%







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 tool-box 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.

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ATTACHMENT 12
WATER QUALITY-BASED LIMITS

Facility: SUMMIT CORPORATION OF AMERICA, THOMASTON

DSN: 001-1
Average Monthly Flow: 160,000 gpd 0.248 cfs
Duration of Discharge: 24 hrs/day
7Q10 Flow of River at Site: 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 Aquatic Life Acute µg/L	Aquatic Life Chronic µg/L	Human Health (Fish Consumption) µg/L	CV	Dilution Factor	Naugatuck River Concentration µg/L	WLA (acute) µg/L	WLA (chronic) µg/L	WLA (human health) µg/L	LTA (acute)	LTA (chronic)	LTA (human health)	Limiting LTA	Limiting criteria	Anticipated Number of Samples per Month	Average Monthly Limit µg/L	Maximum Daily Limit µg/L	Instantaneous Limit µg/L	Average Monthly Limit g/day	Maximum Daily Limit g/day
Cadmium		1.0	0.125	10,769	0.6	1.0		1.0	0.125	10,769	0.32	0.07	10,769	0.07	CHRONIC	1	0.14	0.21	0.31	0.09	0.12
Chromium		323	42	1,009,615	0.6	1.0		323	42	1,009,615	104	22	1,009,615	22	CHRONIC	1	47	69	103	29	42
Copper		25.7	18.1		0.6	1.0		26	18		8	10		8	ACUTE	4	13	26	39	8	16
Cyanide		22	5.20	140	0.6	16.1	0	354	84	2,253	114	44	2,253	44	CHRONIC	4	69	137	206	42	83
Lead		30	1.2		0.6	16.1	0.40	477	13.3		153	7.0		7.0	CHRONIC	4	11	22	33	6.6	13.2
Nickel		260.5	28.9	4,600	0.8	16.1	7.2	4,083	356	73,904	1,018	157	73,904	157	CHRONIC	4	274	628	942	166	381
Silver		1.02		107,692	0.9	31.2		31.80		3,357,770	7.13		3,357,770	7.13	ACUTE	4	13	32	48	8.0	19.3
Zinc		65	65	26,000	0.4	1.0	25	65	65	26,000	29	42	26,000	29	ACUTE	4	39	65	98	24	39

The background concentration of Copper is in excess of the applicable ambient water quality criteria. Therefore, the Dilution Factor is 1.0
No dilution is necessary for: Cadmium, Chromium, or Zinc. The water quality criteria can be met end-of-pipe.

Facility: SUMMIT CORPORATION OF AMERICA, THOMASTON

DSN: 001-1
Average Monthly Flow: 330,000 gpd 0.511 cfs
Duration of Discharge: 24 hrs/day
7Q10 Flow of River at Site: 14.94 cfs

%Allocation:	50 %	7.5 cfs
Dilution Factor	15.6 :1	

%Allocation:	25 %	3.74 cfs
Dilution Factor	8.3 :1	

POLLUTANT	A, C, or HB	Water Quality Criteria October 10, 2013 Aquatic Life Acute µg/L	Aquatic Life Chronic µg/L	Human Health (Fish Consumption) µg/L	CV	Dilution Factor	Naugatuck River Concentration µg/L	WLA (acute) µg/L	WLA (chronic) µg/L	WLA (human health) µg/L	LTA (acute)	LTA (chronic)	LTA (human health)	Limiting LTA	Limiting criteria	Anticipated Number of Samples per Month	Average Monthly Limit µg/L	Maximum Daily Limit µg/L	Instantaneous Limit µg/L	Average Monthly Limit g/day	Maximum Daily Limit g/day
Cadmium		1.0	0.125	10,769	0.6	1.0		1.0	0.125	10,769	0.32	0.07	10,769	0.07	CHRONIC	1	0.14	0.21	0.31	0.18	0.26
Chromium		323	42	1,009,615	0.6	1.0		323	42	1,009,615	104	22	1,009,615	22	CHRONIC	1	47	69	103	59	86
Copper		25.7	18.1		0.6	1.0		26	18		8	10		8	ACUTE	4	13	26	39	16	32
Cyanide		22	5.20	140	0.6	8.3	0	183	43	1,164	59	23	1,164	23	CHRONIC	4	35	71	107	44	89
Lead		30	1.2		0.6	8.3	0.40	247	7.1		79	3.7		3.7	CHRONIC	4	5.8	12	17	7.2	14.5
Nickel		260.5	28.9	4,600	0.8	8.3	7.2	2,114	188	38,202	527	82	38,202	82	CHRONIC	4	144	331	496	180	413
Silver		1.02		107,692	0.9	15.6		15.95		1,683,487	3.58		1,683,487	3.58	ACUTE	4	6.6	16	24	8.3	19.9
Zinc		65	65	26,000	0.4	1.0	25	65	65	26,000	29	42	26,000	29	ACUTE	4	39	65	98	49	81

The background concentration of Copper is in excess of the applicable ambient water quality criteria. Therefore, the Dilution Factor is 1.0
No dilution is necessary for: Cadmium, Chromium, or Zinc. 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 following waterbodies in the State:

Waterbody	*Reach*
Bantam 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
Pootatuck River	Newington POTW to confluence with Housatonic River
Quinnipiac River	Southington POTW to Broadway, North Haven
Still River	Winsted POTW to confluence with Farmington River
	Lymekiln Brook to confluence with Housatonic River
Williams Brook	Ledyard POTW to mouth
Willimantic River	Stafford Springs POTW to Trout Management Area (Willington)
	Eagleville Dam to confluence with Shetucket River

DSN 001-1 discharges into a waterbody that subject to site-specific criteria.

COEFFICIENT OF VARIANCE (CV): CV = Mean/Standard Deviation. CVs were calculated from the DMR data

DILUTION FACTOR: $\frac{[(\%Allocation * 7Q10\ Flow\ of\ River\ at\ Site) + Average\ Monthly\ Effluent\ Flow]}{Average\ Monthly\ Effluent\ Flow}$ (Dilution is not allowed for "A", "C" or "HB" pollutants)

BACKGROUND DATA: Naugatuck River water from Summit's chronic toxicity testing, 2008 - 2018

WASTELOAD ALLOCATION (WLA): WLA (acute, chronic, human health)=[(Criteria)*(Dilution Factor)]-[Maximum Background Receiving Water Concentration*(Dilution Factor-1)]

LONG-TERM AVERAGE (LTA):
LTA (acute)=$WLA_{acute} * \exp[0.5\sigma^2 - z\sigma]$
LTA (chronic)=$WLA_{chronic} * \exp[0.5\sigma_4^2 - z\sigma_4]$
LTA (human health)=$WLA_{human\ health}$

LIMITING LTA: Limiting LTA is the lowest LTA of the applicable criteria

SAMPLES/MONTH: A value of "4" is used for a weekly monitoring frequency; "1" is used for a frequency of monthly or any period less frequent than monthly.

AVERAGE MONTHLY LIMIT (mg/L):
AML (acute,chronic)=$LTA_{acute\ or\ chronic} * \exp[z\sigma_n - 0.5\sigma_n^2]$
AML (human health)=$WLA_{human\ health}$

MAXIMUM DAILY LIMIT (mg/L):
MDL (acute,chronic)=$LTA_{acute\ or\ chronic} * \exp[z\sigma - 0.5\sigma^2]$
MDL (human health)=$WLA_{human\ health} * \exp[z\sigma - 0.5\sigma^2]$

AVERAGE MONTHLY LIMIT (kg/day): AML (kg/day)=((AML (mg/L) * 0.000001 * Average Monthly Flow)/0.264)/1000

MAXIMUM DAILY LIMIT (kg/day): MDL (kg/day)=((MDL (mg/L) * 0.000001 * Average Monthly Flow)/0.264)/1000

ATTACHMENT 12

Summit Corporation of America

Water Quality Based Limit Determination: Data Summary

DSN 001-1 DMR Data: January 2008-June 2018

Cadmium		Chromium		Copper		Cyanide, Total		Lead		Nickel		Silver		Zinc	
DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L
Jan 08, 2008	0	Jan 08, 2008	0	Jan 08, 2008	140	Jan 08, 2008	10	Jan 08, 2008	0	Jan 08, 2008	670	Jan 08, 2008	90	Jan 08, 2008	0
Jul 14, 2008	0	Jul 01, 2008	0	Jan 15, 2008	120	Jan 15, 2008	10	Jan 15, 2008	0	Jan 15, 2008	740	Jan 15, 2008	40	Jan 15, 2008	0
Jan 06, 2009	0	Jan 06, 2009	0	Jan 21, 2008	100	Jan 21, 2008	10	Jan 21, 2008	0	Jan 21, 2008	500	Jan 21, 2008	30	Jan 21, 2008	0
Jul 13, 2009	0	Jul 13, 2009	0	Jan 28, 2008	200	Jan 28, 2008	32	Jan 28, 2008	0	Jan 28, 2008	590	Jan 28, 2008	100	Jan 28, 2008	0
Jan 11, 2010	0	Jan 11, 2010	0	Feb 05, 2008	110	Feb 05, 2008	78	Feb 05, 2008	0	Feb 05, 2008	710	Feb 05, 2008	50	Feb 05, 2008	0
Jul 13, 2010	0	Jul 13, 2010	0	Feb 01, 2008	60	Feb 01, 2008	52	Feb 01, 2008	0	Feb 01, 2008	540	Feb 01, 2008	40	Feb 01, 2008	0
Jan 03, 2011	0	Oct 11, 2010	0	Feb 18, 2008	36	Feb 18, 2008	10	Feb 18, 2008	0	Feb 18, 2008	490	Feb 18, 2008	50	Feb 18, 2008	0
Jul 11, 2011	0	Oct 18, 2010	0	Feb 25, 2008	67	Feb 25, 2008	10	Feb 25, 2008	0	Feb 25, 2008	680	Feb 25, 2008	30	Feb 25, 2008	0
Jan 02, 2012	0	Oct 25, 2010	0	Mar 04, 2008	150	Mar 04, 2008	6	Mar 04, 2008	0	Mar 04, 2008	400	Mar 04, 2008	20	Mar 04, 2008	0
Jan 30, 2012	0	Nov 01, 2010	0	Mar 10, 2008	90	Mar 10, 2008	21	Mar 10, 2008	0	Mar 10, 2008	620	Mar 10, 2008	10	Mar 10, 2008	0
Jul 16, 2012	0	Nov 08, 2010	0	Mar 17, 2008	120	Mar 17, 2008	6	Mar 17, 2008	0	Mar 17, 2008	580	Mar 17, 2008	30	Mar 17, 2008	0
Jul 15, 2013	0	Nov 15, 2010	0	Mar 24, 2008	180	Mar 24, 2008	40	Mar 24, 2008	0	Mar 24, 2008	460	Mar 24, 2008	50	Mar 24, 2008	0
Jan 06, 2014	0	Nov 22, 2010	0	Mar 31, 2008	140	Mar 31, 2008	5	Mar 31, 2008	0	Mar 31, 2008	460	Mar 31, 2008	50	Mar 31, 2008	0
Jan 13, 2014	0	Nov 29, 2010	0	Apr 07, 2008	470	Apr 07, 2008	0	Apr 07, 2008	0	Apr 07, 2008	630	Apr 07, 2008	70	Apr 07, 2008	0
Jul 14, 2014	0	Dec 06, 2010	0	Apr 14, 2008	490	Apr 14, 2008	0	Apr 14, 2008	0	Apr 14, 2008	750	Apr 14, 2008	9	Apr 14, 2008	0
Jan 05, 2015	0	Dec 13, 2010	0	Apr 21, 2008	120	Apr 21, 2008	5	Apr 21, 2008	0	Apr 21, 2008	740	Apr 21, 2008	20	Apr 21, 2008	0
Jan 12, 2015	0	Dec 20, 2010	0	Apr 28, 2008	100	Apr 28, 2008	90	Apr 28, 2008	0	Apr 28, 2008	490	Apr 28, 2008	0	Apr 28, 2008	0
Jan 19, 2015	0	Dec 27, 2010	0	May 05, 2008	130	May 05, 2008	40	May 05, 2008	0	May 05, 2008	900	May 05, 2008	40	May 05, 2008	0
Feb 02, 2015	0	Jan 03, 2011	0	May 12, 2008	50	May 12, 2008	0	May 12, 2008	0	May 12, 2008	560	May 12, 2008	30	May 12, 2008	0
Feb 16, 2015	0	Jan 10, 2011	0	May 19, 2008	110	May 19, 2008	30	May 19, 2008	0	May 19, 2008	550	May 19, 2008	30	May 19, 2008	0
Mar 09, 2015	0	Jan 17, 2011	0	May 27, 2008	160	May 27, 2008	13	May 27, 2008	0	May 27, 2008	580	May 27, 2008	50	May 27, 2008	0
May 04, 2015	0	Jan 24, 2011	0	Jun 02, 2008	180	Jun 02, 2008	35	Jun 02, 2008	0	Jun 02, 2008	450	Jun 02, 2008	40	Jun 02, 2008	0
Jul 13, 2015	0	Jan 31, 2011	0	Jun 09, 2008	100	Jun 09, 2008	23	Jun 09, 2008	0	Jun 09, 2008	580	Jun 09, 2008	40	Jun 09, 2008	0
Aug 03, 2015	0	Jun 06, 2011	0	Jun 16, 2008	110	Jun 16, 2008	0	Jun 16, 2008	0	Jun 16, 2008	320	Jun 16, 2008	0	Jun 16, 2008	0
Aug 17, 2015	0	Jun 13, 2011	0	Jun 24, 2008	100	Jun 24, 2008	25	Jun 24, 2008	0	Jun 24, 2008	230	Jun 24, 2008	20	Jun 24, 2008	0
Sep 14, 2015	0	Jun 21, 2011	0	Jun 30, 2008	10	Jun 30, 2008	40	Jun 30, 2008	0	Jun 30, 2008	400	Jun 30, 2008	20	Jun 30, 2008	0
Oct 05, 2015	0	Jun 27, 2011	0	Jul 07, 2008	60	Jul 07, 2008	8	Jul 07, 2008	0	Jul 07, 2008	350	Jul 07, 2008	10	Jul 07, 2008	0
Jan 18, 2016	0	Jul 11, 2011	0	Jul 14, 2008	90	Jul 14, 2008	27	Jul 14, 2008	0	Jul 14, 2008	370	Jul 14, 2008	30	Jul 14, 2008	0
Jul 19, 2016	0	Jul 18, 2011	0	Jul 21, 2008	80	Jul 21, 2008	0	Jul 21, 2008	0	Jul 21, 2008	270	Jul 21, 2008	10	Jul 21, 2008	0
Jul 29, 2016	0	Jul 25, 2011	0	Aug 11, 2008	90	Aug 11, 2008	28	Aug 11, 2008	0	Aug 11, 2008	200	Aug 11, 2008	10	Aug 11, 2008	0
Jan 10, 2017	0	Aug 01, 2011	0	Aug 18, 2008	90	Aug 18, 2008	47	Aug 18, 2008	0	Aug 18, 2008	480	Aug 18, 2008	30	Aug 18, 2008	0
Jul 11, 2017	0	Aug 08, 2011	0	Aug 26, 2008	70	Aug 26, 2008	82	Aug 26, 2008	0	Aug 26, 2008	340	Aug 26, 2008	10	Aug 26, 2008	0
Jan 04, 2018	0	Aug 15, 2011	0	Sep 03, 2008	90	Sep 03, 2008	0	Sep 03, 2008	0	Sep 03, 2008	650	Sep 03, 2008	12	Sep 03, 2008	0
		Aug 22, 2011	0	Sep 08, 2008	190	Sep 08, 2008	80	Sep 08, 2008	0	Sep 08, 2008	350	Sep 08, 2008	13	Sep 08, 2008	0
		Aug 29, 2011	0	Sep 15, 2008	80	Sep 15, 2008	60	Sep 15, 2008	0	Sep 15, 2008	340	Sep 15, 2008	11	Sep 15, 2008	0
		Sep 06, 2011	0	Sep 22, 2008	260	Sep 22, 2008	90	Sep 22, 2008	0	Sep 22, 2008	370	Sep 22, 2008	19	Sep 22, 2008	0
		Sep 12, 2011	0	Sep 30, 2008	70	Sep 30, 2008	100	Sep 30, 2008	0	Sep 30, 2008	360	Sep 30, 2008	112	Sep 30, 2008	0
		Sep 19, 2011	0	Oct 06, 2008	80	Oct 06, 2008	110	Oct 06, 2008	0	Oct 06, 2008	790	Oct 06, 2008	30	Oct 06, 2008	0
		Sep 26, 2011	0	Oct 14, 2008	70	Oct 14, 2008	60	Oct 14, 2008	0	Oct 14, 2008	310	Oct 14, 2008	10	Oct 14, 2008	0
		Oct 03, 2011	0	Oct 20, 2008	70	Oct 20, 2008	80	Oct 20, 2008	0	Oct 20, 2008	690	Oct 20, 2008	10	Oct 20, 2008	0
		Oct 10, 2011	0	Oct 27, 2008	40	Oct 27, 2008	40	Oct 27, 2008	0	Oct 27, 2008	580	Oct 27, 2008	20	Oct 27, 2008	0
		Oct 17, 2011	0	Nov 03, 2008	60	Nov 03, 2008	30	Nov 03, 2008	0	Nov 03, 2008	520	Nov 03, 2008	30	Nov 03, 2008	0
		Oct 24, 2011	0	Nov 10, 2008	60	Nov 10, 2008	80	Nov 10, 2008	0	Nov 10, 2008	490	Nov 10, 2008	20	Nov 10, 2008	0
		Nov 07, 2011	0	Nov 17, 2008	30	Nov 17, 2008	100	Nov 17, 2008	0	Nov 17, 2008	580	Nov 17, 2008	10	Nov 17, 2008	0
		Nov 14, 2011	0	Nov 24, 2008	30	Nov 24, 2008	60	Nov 24, 2008	0	Nov 24, 2008	680	Nov 24, 2008	20	Nov 24, 2008	0
		Nov 21, 2011	0	Dec 01, 2008	50	Dec 01, 2008	10	Dec 01, 2008	0	Dec 01, 2008	490	Dec 01, 2008	20	Dec 01, 2008	0
		Nov 28, 2011	0	Dec 08, 2008	70	Dec 08, 2008	60	Dec 08, 2008	0	Dec 08, 2008	540	Dec 08, 2008	20	Dec 08, 2008	0
		Dec 05, 2011	0	Dec 15, 2008	120	Dec 15, 2008	10	Dec 15, 2008	0	Dec 15, 2008	300	Dec 15, 2008	20	Dec 15, 2008	0
		Dec 12, 2011	0	Jan 06, 2009	70	Jan 06, 2009	37	Jan 06, 2009	0	Jan 06, 2009	380	Jan 06, 2009	10	Jan 06, 2009	0
		Dec 19, 2011	0	Jan 12, 2009	300	Jan 12, 2009	38	Jan 12, 2009	0	Jan 12, 2009	710	Jan 12, 2009	20	Jan 12, 2009	0
		Jan 02, 2012	0	Jan 19, 2009	120	Jan 19, 2009	10	Jan 19, 2009	0	Jan 19, 2009	350	Jan 19, 2009	20	Jan 19, 2009	0
		Jan 09, 2012	0	Jan 26, 2009	80	Jan 26, 2009	45	Jan 26, 2009	0	Jan 26, 2009	420	Jan 26, 2009	40	Jan 26, 2009	0
		Jan 16, 2012	0	Feb 02, 2009	23	Feb 02, 2009	60	Feb 02, 2009	0	Feb 02, 2009	580	Feb 02, 2009	40	Feb 02, 2009	0
		Jan 23, 2012	0	Feb 09, 2009	25	Feb 09, 2009	80	Feb 09, 2009	0	Feb 09, 2009	450	Feb 09, 2009	30	Feb 09, 2009	0
		Jan 30, 2012	0	Feb 16, 2009	31	Feb 16, 2009	50	Feb 16, 2009	0	Feb 16, 2009	490	Feb 16, 2009	30	Feb 16, 2009	0
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		Mar 12, 2012	0	Mar 30, 2009	320	Mar 30, 2009	30	Mar 30, 2009	0	Mar 30, 2009	720	Mar 30, 2009	10	Mar 30, 2009	0
		Mar 19, 2012	0	Apr 07, 2009	80	Apr 07, 2009	50	Apr 07, 2009	0	Apr 07, 2009	500	Apr 07, 2009	20	Apr 07, 2009	0
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		Apr 02, 2012	0	Apr 20, 2009	50	Apr 20, 2009	40	Apr 20, 2009	0	Apr 20, 2009	490	Apr 20, 2009	20	Apr 20, 2009	0
		Apr 09, 2012	0	Apr 27, 2009	160	Apr 27, 2009	40	Apr 27, 2009	0	Apr 27, 2009	450	Apr 27, 2009	30	Apr 27, 2009	0
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		Dec 10, 2012	0	Dec 28, 2009	60	Dec 28, 2009	30	Dec 28, 2009	0	Dec 28, 2009	250	Dec 28, 2009	10	Dec 28, 2009	0
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		May 06, 2013	0	Apr 12, 2010	40	Apr 12, 2010	18	Apr 12, 2010	0	Apr 12, 2010	790	Apr 12, 2010	10	Apr 19, 2010	0
		May 13, 2013	0	Apr 19, 2010	80	Apr 19, 2010	50	Apr 19, 2010	0	Apr 19, 2010	590	Apr 19, 2010	30	Apr 26, 2010	0

ATTACHMENT 12

Summit Corporation of America

Water Quality Based Limit Determination: Data Summary

DSN 001-1 DMR Data: January 2008-June 2018

Cadmium		Chromium		Copper		Cyanide, Total		Lead		Nickel		Silver		Zinc	
DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L
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		Mar 24, 2014	0	Feb 14, 2011	70	Feb 14, 2011	277	Feb 14, 2011	0	Feb 14, 2011	470	Feb 14, 2011	20	Feb 21, 2011	0
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		Mar 23, 2015	5	Feb 27, 2012	30	Feb 27, 2012	5	Feb 27, 2012	0	Feb 27, 2012	370	Feb 27, 2012	10	Mar 05, 2012	0
		Mar 30, 2015	6	Mar 05, 2012	40	Mar 05, 2012	27	Mar 05, 2012	0	Mar 05, 2012	420	Mar 05, 2012	0	Mar 12, 2012	0
		Apr 06, 2015	0	Mar 12, 2012	80	Mar 12, 2012	33	Mar 12, 2012	0	Mar 12, 2012	470	Mar 12, 2012	10	Mar 19, 2012	0
		Apr 13, 2015	0	Mar 19, 2012	20	Mar 19, 2012	12	Mar 19, 2012	0	Mar 19, 2012	230	Mar 19, 2012	0	Mar 26, 2012	0
		Apr 20, 2015	0	Mar 26, 2012	110	Mar 26, 2012	7	Mar 26, 2012	0	Mar 26, 2012	570	Mar 26, 2012	10	Apr 02, 2012	0
		Apr 27, 2015	0	Apr 02, 2012	70	Apr 02, 2012	15	Apr 02, 2012	0	Apr 02, 2012	250	Apr 02, 2012	0	Apr 09, 2012	0
		May 04, 2015	0	Apr 09, 2012	20	Apr 09, 2012	7	Apr 09, 2012	0	Apr 09, 2012	290	Apr 09, 2012	0	Apr 16, 2012	0
		May 11, 2015	0	Apr 16, 2012	40	Apr 16, 2012	12	Apr 16, 2012	0	Apr 16, 2012	380	Apr 16, 2012	10	Apr 23, 2012	0
		May 18, 2015	0	Apr 23, 2012	50	Apr 23, 2012	28	Apr 23, 2012	0	Apr 23, 2012	550	Apr 23, 2012	20	Apr 30, 2012	0
		May 26, 2015	0	Apr 30, 2012	40	Apr 30, 2012	15	Apr 30, 2012	0	Apr 30, 2012	500	Apr 30, 2012	10	May 07, 2012	0
		Jun 01, 2015	5	May 07, 2012	100	May 07, 2012	20	May 07, 2012	0	May 07, 2012	460	May 07, 2012	20	May 14, 2012	0
		Jun 08, 2015	6	May 14, 2012	250	May 14, 2012	33	May 14, 2012	0	May 14, 2012	520	May 14, 2012	10	May 21, 2012	0
		Jun 15, 2015	0	May 21, 2012	130	May 21, 2012	55	May 21, 2012	0	May 21, 2012	350	May 21, 2012	10	May 29, 2012	0
		Jun 22, 2015	0	May 29, 2012	280	May 29, 2012	10	May 29, 2012	0	May 29, 2012	540	May 29, 2012	10	Jun 04, 2012	0
		Jul 08, 2015	0	Jun 04, 2012	100	Jun 04, 2012	23	Jun 04, 2012	0	Jun 04, 2012	450	Jun 04, 2012	0	Jun 11, 2012	0
		Jul 13, 2015	0	Jun 11, 2012	250	Jun 11, 2012	17	Jun 11, 2012	0	Jun 11, 2012	480	Jun 11, 2012	0	Jun 18, 2012	0
		Jul 20, 2015	5	Jun 18, 2012	500	Jun 18, 2012	18	Jun 18, 2012	0	Jun 18, 2012	490	Jun 18, 2012	0	Jun 25, 2012	0
		Jul 27, 2015	0	Jun 25, 2012	170	Jun 25, 2012	23	Jun 25, 2012	0	Jun 25, 2012	420	Jun 25, 2012	0	Jul 16, 2012	0
		Aug 03, 2015	8	Jul 16, 2012	80	Jul 16, 2012	0	Jul 16, 2012	0	Jul 16, 2012	330	Jul 16, 2012	10	Jul 23, 2012	0
		Aug 10, 2015	6	Jul 23, 2012	20	Jul 23, 2012	56	Jul 23, 2012	0	Jul 23, 2012	360	Jul 23, 2012	10	Jul 30, 2012	0
		Aug 17, 2015	0	Jul 30, 2012	70	Jul 30, 2012	70	Jul 30, 2012	0	Jul 30, 2012	610	Jul 30, 2012	10	Aug 06, 2012	0
		Aug 24, 2015	0	Aug 06, 2012	90	Aug 06, 2012	13	Aug 06, 2012	0	Aug 06, 2012	650	Aug 06, 2012	0	Aug 13, 2012	0

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Water Quality Based Limit Determination: Data Summary

DSN 001-1 DMR Data: January 2008-June 2018

Cadmium		Chromium		Copper		Cyanide, Total		Lead		Nickel		Silver		Zinc	
DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L
		Aug 31, 2015	0	Aug 13, 2012	20	Aug 13, 2012	90	Aug 13, 2012	0	Aug 13, 2012	490	Aug 13, 2012	10	Aug 20, 2012	0
		Sep 08, 2015	5	Aug 20, 2012	30	Aug 20, 2012	50	Aug 20, 2012	0	Aug 20, 2012	600	Aug 20, 2012	0	Aug 27, 2012	0
		Sep 14, 2015	5	Aug 27, 2012	210	Aug 27, 2012	37	Aug 27, 2012	0	Aug 27, 2012	660	Aug 27, 2012	0	Sep 04, 2012	0
		Sep 21, 2015	5	Sep 04, 2012	30	Sep 04, 2012	107	Sep 04, 2012	0	Sep 04, 2012	590	Sep 04, 2012	20	Sep 10, 2012	0
		Sep 28, 2015	5	Sep 10, 2012	220	Sep 10, 2012	10	Sep 10, 2012	0	Sep 10, 2012	500	Sep 10, 2012	20	Sep 17, 2012	0
		Oct 05, 2015	0	Sep 17, 2012	120	Sep 17, 2012	23	Sep 17, 2012	0	Sep 17, 2012	570	Sep 17, 2012	20	Sep 24, 2012	0
		Oct 12, 2015	5	Sep 24, 2012	90	Sep 24, 2012	5	Sep 24, 2012	0	Sep 24, 2012	540	Sep 24, 2012	20	Oct 01, 2012	0
		Oct 19, 2015	0	Oct 01, 2012	90	Oct 01, 2012	113	Oct 01, 2012	0	Oct 01, 2012	500	Oct 01, 2012	20	Oct 08, 2012	0
		Oct 26, 2015	0	Oct 08, 2012	20	Oct 08, 2012	103	Oct 08, 2012	0	Oct 08, 2012	500	Oct 08, 2012	20	Oct 15, 2012	0
		Nov 03, 2015	0	Oct 15, 2012	30	Oct 15, 2012	78	Oct 15, 2012	0	Oct 15, 2012	550	Oct 15, 2012	0	Oct 22, 2012	0
		Nov 09, 2015	60	Oct 22, 2012	40	Oct 22, 2012	48	Oct 22, 2012	0	Oct 22, 2012	530	Oct 22, 2012	0	Oct 30, 2012	0
		Nov 16, 2015	48	Oct 30, 2012	30	Oct 30, 2012	108	Oct 30, 2012	0	Oct 30, 2012	660	Oct 30, 2012	0	Nov 05, 2012	10
		Nov 23, 2015	28	Nov 05, 2012	60	Nov 05, 2012	25	Nov 05, 2012	0	Nov 05, 2012	650	Nov 05, 2012	20	Nov 12, 2012	0
		Nov 30, 2015	15	Nov 12, 2012	20	Nov 12, 2012	100	Nov 12, 2012	0	Nov 12, 2012	590	Nov 12, 2012	0	Nov 19, 2012	0
		Dec 07, 2015	43	Nov 19, 2012	240	Nov 19, 2012	10	Nov 19, 2012	0	Nov 19, 2012	440	Nov 19, 2012	10	Nov 26, 2012	20
		Dec 14, 2015	22	Nov 26, 2012	20	Nov 26, 2012	97	Nov 26, 2012	0	Nov 26, 2012	670	Nov 26, 2012	20	Dec 03, 2012	0
		Dec 21, 2015	12	Dec 03, 2012	190	Dec 03, 2012	53	Dec 03, 2012	0	Dec 03, 2012	510	Dec 03, 2012	20	Dec 10, 2012	10
		Dec 28, 2015	9	Dec 10, 2012	110	Dec 10, 2012	20	Dec 10, 2012	0	Dec 10, 2012	610	Dec 10, 2012	0	Dec 17, 2012	0
		Jan 04, 2016	12	Dec 17, 2012	70	Dec 17, 2012	5	Dec 17, 2012	0	Dec 17, 2012	610	Dec 17, 2012	20	Feb 04, 2013	0
		Jan 11, 2016	10	Feb 04, 2013	40	Feb 04, 2013	25	Feb 04, 2013	0	Feb 04, 2013	560	Feb 04, 2013	20	Feb 11, 2013	0
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		Feb 01, 2016	0	Feb 25, 2013	70	Feb 25, 2013	82	Feb 25, 2013	0	Feb 25, 2013	520	Feb 25, 2013	20	Mar 04, 2013	0
		Feb 08, 2016	0	Mar 04, 2013	210	Mar 04, 2013	78	Mar 04, 2013	0	Mar 04, 2013	570	Mar 04, 2013	20	Mar 11, 2013	0
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		Mar 21, 2016	0	Apr 15, 2013	50	Apr 15, 2013	123	Apr 15, 2013	0	Apr 15, 2013	480	Apr 15, 2013	20	Apr 22, 2013	0
		Mar 28, 2016	0	Apr 22, 2013	170	Apr 22, 2013	93	Apr 22, 2013	0	Apr 22, 2013	450	Apr 22, 2013	20	Apr 29, 2013	0
		Apr 05, 2016	0	Apr 29, 2013	20	Apr 29, 2013	47	Apr 29, 2013	0	Apr 29, 2013	490	Apr 29, 2013	10	May 06, 2013	0
		Apr 11, 2016	0	May 06, 2013	40	May 06, 2013	40	May 06, 2013	0	May 06, 2013	530	May 06, 2013	10	May 13, 2013	0
		Apr 18, 2016	0	May 13, 2013	60	May 13, 2013	55	May 13, 2013	0	May 13, 2013	430	May 13, 2013	20	May 20, 2013	0
		Apr 25, 2016	14	May 20, 2013	130	May 20, 2013	23	May 20, 2013	0	May 20, 2013	540	May 20, 2013	10	May 28, 2013	0
		May 03, 2016	0	May 28, 2013	50	May 28, 2013	0	May 28, 2013	0	May 28, 2013	440	May 28, 2013	10	Jun 03, 2013	0
		May 09, 2016	0	Jun 03, 2013	30	Jun 03, 2013	12	Jun 03, 2013	0	Jun 03, 2013	570	Jun 03, 2013	10	Jun 10, 2013	0
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		May 23, 2016	0	Jun 17, 2013	70	Jun 17, 2013	62	Jun 17, 2013	0	Jun 17, 2013	510	Jun 17, 2013	10	Jun 24, 2013	0
		May 31, 2016	18	Jun 24, 2013	110	Jun 24, 2013	0	Jun 24, 2013	0	Jun 24, 2013	430	Jun 24, 2013	10	Jul 15, 2013	0
		Jun 06, 2016	0	Jul 15, 2013	60	Jul 15, 2013	7	Jul 15, 2013	0	Jul 15, 2013	440	Jul 15, 2013	0	Jul 22, 2013	0
		Jun 13, 2016	6	Jul 22, 2013	250	Jul 22, 2013	52	Jul 22, 2013	0	Jul 22, 2013	530	Jul 22, 2013	0	Jul 29, 2013	0
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		Jul 12, 2016	5	Aug 12, 2013	200	Aug 12, 2013	0	Aug 12, 2013	0	Aug 12, 2013	510	Aug 12, 2013	20	Aug 19, 2013	0
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		Jul 29, 2016	5	Aug 26, 2013	30	Aug 26, 2013	35	Aug 26, 2013	0	Aug 26, 2013	420	Aug 26, 2013	10	Sep 03, 2013	0
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		Aug 08, 2016	5	Sep 09, 2013	50	Sep 09, 2013	72	Sep 09, 2013	0	Sep 09, 2013	520	Sep 09, 2013	0	Sep 16, 2013	0
		Aug 16, 2016	0	Sep 16, 2013	40	Sep 16, 2013	43	Sep 16, 2013	0	Sep 16, 2013	410	Sep 16, 2013	0	Sep 23, 2013	0
		Aug 25, 2016	0	Sep 23, 2013	310	Sep 23, 2013	45	Sep 23, 2013	0	Sep 23, 2013	570	Sep 23, 2013	10	Sep 30, 2013	0
		Aug 29, 2016	0	Sep 30, 2013	130	Sep 30, 2013	8	Sep 30, 2013	0	Sep 30, 2013	510	Sep 30, 2013	20	Oct 07, 2013	0
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		Sep 12, 2016	0	Oct 14, 2013	380	Oct 14, 2013	18	Oct 14, 2013	0	Oct 14, 2013	570	Oct 14, 2013	10	Oct 21, 2013	0
		Sep 19, 2016	0	Oct 21, 2013	290	Oct 21, 2013	93	Oct 21, 2013	0	Oct 21, 2013	570	Oct 21, 2013	20	Oct 28, 2013	0
		Sep 26, 2016	0	Oct 28, 2013	120	Oct 28, 2013	168	Oct 28, 2013	0	Oct 28, 2013	550	Oct 28, 2013	20	Nov 04, 2013	0
		Oct 03, 2016	0	Nov 04, 2013	60	Nov 04, 2013	32	Nov 04, 2013	0	Nov 04, 2013	400	Nov 04, 2013	10	Nov 11, 2013	0
		Oct 11, 2016	0	Nov 11, 2013	190	Nov 11, 2013	63	Nov 11, 2013	0	Nov 11, 2013	530	Nov 11, 2013	10	Nov 18, 2013	0
		Oct 19, 2016	0	Nov 18, 2013	40	Nov 18, 2013	27	Nov 18, 2013	0	Nov 18, 2013	440	Nov 18, 2013	0	Nov 25, 2013	0
		Oct 25, 2016	0	Nov 25, 2013	50	Nov 25, 2013	53	Nov 25, 2013	0	Nov 25, 2013	520	Nov 25, 2013	0	Dec 02, 2013	0
		Oct 31, 2016	0	Dec 02, 2013	120	Dec 02, 2013	400	Dec 02, 2013	0	Dec 02, 2013	540	Dec 02, 2013	20	Dec 09, 2013	0
		Nov 08, 2016	0	Dec 09, 2013	40	Dec 09, 2013	7	Dec 09, 2013	0	Dec 09, 2013	490	Dec 09, 2013	0	Dec 16, 2013	0
		Nov 16, 2016	0	Dec 16, 2013	40	Dec 16, 2013	60	Dec 16, 2013	0	Dec 16, 2013	530	Dec 16, 2013	0	Dec 30, 2013	0
		Nov 21, 2016	0	Dec 30, 2013	250	Dec 30, 2013	50	Dec 30, 2013	0	Dec 30, 2013	530	Dec 30, 2013	20	Jan 06, 2014	0
		Nov 28, 2016	5	Jan 06, 2014	140	Jan 06, 2014	200	Jan 06, 2014	0	Jan 06, 2014	520	Jan 06, 2014	20	Jan 13, 2014	0
		Dec 06, 2016	0	Jan 13, 2014	60	Jan 13, 2014	250	Jan 13, 2014	0	Jan 13, 2014	450	Jan 13, 2014	10	Jan 20, 2014	0
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		Jan 10, 2017	0	Feb 17, 2014	40	Feb 17, 2014	40	Feb 17, 2014	1	Feb 17, 2014	520	Feb 17, 2014	0	Feb 24, 2014	0
		Jan 17, 2017	0	Feb 24, 2014	50	Feb 24, 2014	60	Feb 24, 2014	1	Feb 24, 2014	310	Feb 24, 2014	0	Mar 03, 2014	0
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		Feb 28, 2017	0	Apr 07, 2014	60	Apr 07, 2014	10	Apr 07, 2014	0	Apr 07, 2014	560	Apr 07, 2014	0	Apr 14, 2014	0
		Mar 07, 2017	6	Apr 14, 2014	50	Apr 14, 2014	30	Apr 14, 2014	0	Apr 14, 2014	530	Apr 14, 2014	0	Apr 21, 2014	0
		Mar 16, 2017	7	Apr 21, 2014	90	Apr 21, 2014	400	Apr 21, 2014	0	Apr 21, 2014	480	Apr 21, 2014	20	Apr 28, 2014	0
		Mar 21, 2017	5	Apr 28, 2014	40	Apr 28, 2014	160	Apr 28, 2014	0	Apr 28, 2014	470	Apr 28, 2014	0	May 05, 2014	0
		Mar 28, 2017	5	May 05, 2014	40	May 05, 2014	30	May 05, 2014	1	May 05, 2014	440	May 05, 2014	10	May 12, 2014	0
		Apr 04, 2017	0	May 12, 2014	90	May 12, 2014	60	May 12, 2014	20	May 12, 2014	510	May 12, 2014	0	May 19, 2014	0
		Apr 11, 2017	0	May 19, 2014	20	May 19, 2014	70	May 19, 2014	1	May 19, 2014	510	May 19, 2014	20	May 27, 2014	0
		Apr 18, 2017	0	May 27, 2014	30	May 27, 2014	20	May 27, 2014	1	May 27, 2014	590	May 27, 2014	0	Jun 02, 2014	0
		Apr 25, 2017	0	Jun 02, 2014	20	Jun 02, 2014	30	Jun 02, 2014	2	Jun 02, 2014	620	Jun 02, 2014	20	Jun 09, 2014	0
		May 02, 2017	0	Jun 09, 2014	30	Jun 09, 2014	70	Jun 09, 2014	6	Jun 09, 2014	680	Jun 09, 2014	10	Jun 16, 2014	0
		May 09, 2017	0	Jun 16, 2014	60	Jun 16, 2014	30	Jun 16, 2014	3	Jun 16, 2014	620	Jun 16, 2014	10	Jun 23, 2014	0
		May 16, 2017	6	Jun 23, 2014	20	Jun 23, 2014	70	Jun 23, 2014	13	Jun 23, 2014	660	Jun 23, 2014	10	Jul 08, 2014	10
		May 23, 2017	8	Jul 08, 2014	190	Jul 08, 2014	10	Jul 08, 2014	7	Jul 08, 2014	640	Jul 08, 2014	20	Jul 14, 2014	10
		May 31, 2017	7	Jul 14, 2014	240	Jul 14, 2014	0	Jul 14, 2014	0	Jul 14, 2014	880	Jul 14, 2014	20	Jul 21, 2014	10
		Jun 06, 2017	7	Jul 21, 2014	120	Jul 21, 2014	0	Jul 21, 2014	9	Jul 21, 2014	720	Jul 21, 2014	0	Jul 28, 2014	7
		Jun 13, 2017	16	Jul 28, 2014	90	Jul 28, 2014	0	Jul 28, 2014	11	Jul 28, 2014	710	Jul 28, 2014	60	Aug 04, 2014	20
		Jun 20, 2017	8	Aug 04, 2014	134	Aug 04, 2014	10	Aug 04, 2014	5	Aug 04, 2014	620	Aug 04, 2014	123	Aug 11, 2014	10
		Jun 27, 2017	5	Aug 11, 2014	86	Aug 11, 2014	10	Aug 11, 2014	0	Aug 11, 2014	328	Aug 11, 2014	33	Aug 18, 2014	20
		Jul 11, 2017	5	Aug 18, 2014	106	Aug 18, 2014	0	Aug 18, 2014	0	Aug 18, 2014	527	Aug 18, 2014	15	Aug 25, 2014	50
		Jul 18, 2017	0	Aug 25, 2014	214	Aug 25, 2014	10	Aug 25, 2014	0	Aug 25, 2014	230	Aug 25, 2014	53	Sep 02, 2014	29
		Jul 24, 2017	13	Sep 02, 2014	215	Sep 02, 2014	10	Sep 02, 2014	7	Sep 02, 2014	480	Sep 02, 2014	59	Sep 08, 2014	30
		Aug 01, 2017	0	Sep 08, 2014	160	Sep 08, 2014	0	Sep 08, 2014	9	Sep 08, 2014	578	Sep 08, 2014	10	Sep 15, 2014	30
		Aug 08, 2017	0	Sep 15, 2014	283	Sep 15, 2014	10	Sep 15, 2014	9	Sep 15, 2014	780	Sep 15, 2014	12	Sep 22, 2014	20
		Aug 15, 2017	0	Sep 22, 2014	70	Sep 22, 2014	20	Sep 22, 2014	0	Sep 22, 2014	370	Sep 22, 2014	7	Sep 29, 2014	22
		Aug 22, 2017	0	Sep 29, 2014	5	Sep 29, 2014	0	Sep 29, 2014	0	Sep 29, 2014	488	Sep 29, 2014	14	Oct 06, 2014	20
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		Sep 05, 2017	5	Oct 13, 2014	180	Oct 13, 2014	10	Oct 13, 2014	0	Oct 13, 2014	512	Oct 13, 2014	3	Oct 20, 2014	20
		Sep 12, 2017	5	Oct 20, 2014	307	Oct 20, 2014	60	Oct 20, 2014	15	Oct 20, 2014	406	Oct 20, 2014	67	Oct 27, 2014	20
		Sep 19, 2017	0	Oct 27, 2014	272	Oct 27, 2014	40	Oct 27, 2014	0	Oct 27, 2014	420	Oct 27, 2014	61	Nov 03, 2014	20
		Sep 26, 2017	16	Nov 03, 2014	152	Nov 03, 2014	60	Nov 03, 2014	9	Nov 03, 2014	530	Nov 03, 2014	19	Nov 10, 2014	20
		Oct 03, 2017	0	Nov 10, 2014	169	Nov 10, 2014	20	Nov 10, 2014	0	Nov 10, 2014	441	Nov 10, 2014	35	Nov 17, 2014	40
		Oct 10, 2017	6	Nov 17, 2014	384	Nov 17, 2014	180	Nov 17, 2014	0	Nov 17, 2014	579	Nov 17, 2014	26	Nov 24, 2014	20
		Oct 17, 2017	0	Nov 24, 2014	157	Nov 24, 2014	80	Nov 24, 2014	0	Nov 24, 2014	510	Nov 24, 2014	9	Dec 01, 2014	40
		Oct 24, 2017	0	Dec 01, 2014	132	Dec 01, 2014	180	Dec 01, 2014	44	Dec 01, 2014	580	Dec 01, 2014	7	Dec 08, 2014	10
		Oct 31, 2017	0	Dec 08, 2014	251	Dec 08, 2014	180	Dec 08, 2014	10	Dec 08, 2014	602	Dec 08, 2014	48	Dec 15, 2014	20
		Nov 09, 2017	0	Dec 15, 2014	283	Dec 15, 2014	0	Dec 15, 2014	12	Dec 15, 2014	542	Dec 15, 2014	45	Dec 22, 2014	0
		Nov 14, 2017	0	Dec 22, 2014	519	Dec 22, 2014	0	Dec 22, 2014	0	Dec 22, 2014	510	Dec 22, 2014	34	Dec 29, 2014	20

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Water Quality Based Limit Determination: Data Summary

DSN 001-1 DMR Data: January 2008-June 2018

Cadmium		Chromium		Copper		Cyanide, Total		Lead		Nickel		Silver		Zinc	
DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L
		Nov 21, 2017	0	Dec 29, 2014	207	Dec 29, 2014	240	Dec 29, 2014	0	Dec 29, 2014	607	Dec 29, 2014	4	Jan 05, 2015	20
		Nov 28, 2017	6	Jan 05, 2015	274	Jan 05, 2015	60	Jan 05, 2015	7	Jan 05, 2015	630	Jan 05, 2015	33	Jan 12, 2015	20
		Dec 05, 2017	0	Jan 12, 2015	130	Jan 12, 2015	90	Jan 12, 2015	0	Jan 12, 2015	347	Jan 12, 2015	122	Jan 19, 2015	20
		Dec 12, 2017	0	Jan 19, 2015	230	Jan 19, 2015	40	Jan 19, 2015	0	Jan 19, 2015	315	Jan 19, 2015	189	Jan 28, 2015	26
		Dec 19, 2017	5	Jan 28, 2015	202	Jan 28, 2015	70	Jan 28, 2015	9	Jan 28, 2015	400	Jan 28, 2015	18	Feb 02, 2015	0
		Dec 27, 2017	5	Feb 02, 2015	368	Feb 02, 2015	40	Feb 02, 2015	0	Feb 02, 2015	280	Feb 02, 2015	62	Feb 09, 2015	19
		Jan 04, 2018	0	Feb 09, 2015	268	Feb 09, 2015	90	Feb 09, 2015	0	Feb 09, 2015	303	Feb 09, 2015	106	Feb 16, 2015	21
		Jan 09, 2018	0	Feb 16, 2015	117	Feb 16, 2015	110	Feb 16, 2015	0	Feb 16, 2015	352	Feb 16, 2015	18	Feb 23, 2015	45
		Jan 16, 2018	8	Feb 23, 2015	518	Feb 23, 2015	100	Feb 23, 2015	9	Feb 23, 2015	360	Feb 23, 2015	21	Mar 02, 2015	73
		Jan 23, 2018	0	Mar 02, 2015	468	Mar 02, 2015	30	Mar 02, 2015	8	Mar 02, 2015	730	Mar 02, 2015	43	Mar 09, 2015	18
		Jan 30, 2018	0	Mar 09, 2015	190	Mar 09, 2015	10	Mar 09, 2015	0	Mar 09, 2015	391	Mar 09, 2015	26	Mar 17, 2015	60
		Feb 06, 2018	0	Mar 17, 2015	369	Mar 17, 2015	10	Mar 17, 2015	13	Mar 17, 2015	657	Mar 17, 2015	68	Mar 23, 2015	41
		Feb 13, 2018	0	Mar 23, 2015	243	Mar 23, 2015	10	Mar 23, 2015	13	Mar 23, 2015	390	Mar 23, 2015	49	Mar 30, 2015	57
		Feb 20, 2018	10	Mar 30, 2015	217	Mar 30, 2015	30	Mar 30, 2015	9	Mar 30, 2015	610	Mar 30, 2015	12	Apr 06, 2015	39
		Feb 27, 2018	0	Apr 06, 2015	379	Apr 06, 2015	30	Apr 06, 2015	7	Apr 06, 2015	260	Apr 06, 2015	22	Apr 13, 2015	12
		Mar 06, 2018	5	Apr 13, 2015	157	Apr 13, 2015	20	Apr 13, 2015	0	Apr 13, 2015	327	Apr 13, 2015	52	Apr 20, 2015	23
		Mar 13, 2018	7	Apr 20, 2015	538	Apr 20, 2015	30	Apr 20, 2015	0	Apr 20, 2015	475	Apr 20, 2015	91	Apr 27, 2015	18
		Mar 20, 2018	0	Apr 27, 2015	318	Apr 27, 2015	400	Apr 27, 2015	0	Apr 27, 2015	450	Apr 27, 2015	79	May 04, 2015	15
		Mar 27, 2018	0	May 04, 2015	92	May 04, 2015	90	May 04, 2015	0	May 04, 2015	520	May 04, 2015	128	May 11, 2015	21
		Apr 03, 2018	0	May 11, 2015	45	May 11, 2015	40	May 11, 2015	0	May 11, 2015	265	May 11, 2015	85	May 18, 2015	56
		Apr 10, 2018	0	May 18, 2015	245	May 18, 2015	0	May 18, 2015	0	May 18, 2015	286	May 18, 2015	115	May 26, 2015	20
		Apr 17, 2018	0	May 26, 2015	194	May 26, 2015	70	May 26, 2015	9	May 26, 2015	480	May 26, 2015	34	Jun 01, 2015	21
		Apr 24, 2018	0	Jun 01, 2015	117	Jun 01, 2015	80	Jun 01, 2015	15	Jun 01, 2015	320	Jun 01, 2015	149	Jun 08, 2015	17
		May 01, 2018	0	Jun 08, 2015	150	Jun 08, 2015	50	Jun 08, 2015	7	Jun 08, 2015	440	Jun 08, 2015	69	Jun 15, 2015	16
		May 08, 2018	5	Jun 15, 2015	138	Jun 15, 2015	30	Jun 15, 2015	0	Jun 15, 2015	298	Jun 15, 2015	110	Jun 22, 2015	31
		May 15, 2018	0	Jun 22, 2015	403	Jun 22, 2015	30	Jun 22, 2015	12	Jun 22, 2015	550	Jun 22, 2015	0	Jul 08, 2015	64
		May 22, 2018	0	Jul 08, 2015	395	Jul 08, 2015	10	Jul 08, 2015	17	Jul 08, 2015	460	Jul 08, 2015	104	Jul 13, 2015	31
		May 30, 2018	5	Jul 13, 2015	212	Jul 13, 2015	0	Jul 13, 2015	0	Jul 13, 2015	403	Jul 13, 2015	25	Jul 20, 2015	18
		Jun 05, 2018	0	Jul 20, 2015	142	Jul 20, 2015	0	Jul 20, 2015	7	Jul 20, 2015	502	Jul 20, 2015	31	Jul 27, 2015	23
		Jun 12, 2018	0	Jul 27, 2015	193	Jul 27, 2015	0	Jul 27, 2015	0	Jul 27, 2015	580	Jul 27, 2015	74	Aug 03, 2015	20
		Jun 19, 2018	0	Aug 03, 2015	99	Aug 03, 2015	20	Aug 03, 2015	0	Aug 03, 2015	350	Aug 03, 2015	37	Aug 10, 2015	30
		Jun 26, 2018	0	Aug 10, 2015	72	Aug 10, 2015	10	Aug 10, 2015	0	Aug 10, 2015	369	Aug 10, 2015	28	Aug 17, 2015	28
				Aug 17, 2015	51	Aug 17, 2015	20	Aug 17, 2015	0	Aug 17, 2015	224	Aug 17, 2015	14	Aug 24, 2015	20
				Aug 24, 2015	124	Aug 24, 2015	10	Aug 24, 2015	0	Aug 24, 2015	410	Aug 24, 2015	34	Aug 31, 2015	36
				Aug 31, 2015	163	Aug 31, 2015	2	Aug 31, 2015	0	Aug 31, 2015	503	Aug 31, 2015	47	Sep 08, 2015	40
				Sep 08, 2015	131	Sep 08, 2015	10	Sep 08, 2015	0	Sep 08, 2015	400	Sep 08, 2015	40	Sep 14, 2015	27
				Sep 14, 2015	150	Sep 14, 2015	10	Sep 14, 2015	0	Sep 14, 2015	446	Sep 14, 2015	26	Sep 21, 2015	48
				Sep 21, 2015	220	Sep 21, 2015	10	Sep 21, 2015	27	Sep 21, 2015	496	Sep 21, 2015	40	Sep 28, 2015	61
				Sep 28, 2015	256	Sep 28, 2015	10	Sep 28, 2015	15	Sep 28, 2015	490	Sep 28, 2015	36	Oct 05, 2015	39
				Oct 05, 2015	147	Oct 05, 2015	70	Oct 05, 2015	0	Oct 05, 2015	460	Oct 05, 2015	22	Oct 12, 2015	38
				Oct 12, 2015	278	Oct 12, 2015	10	Oct 12, 2015	27	Oct 12, 2015	581	Oct 12, 2015	70	Oct 19, 2015	32
				Oct 19, 2015	156	Oct 19, 2015	10	Oct 19, 2015	6	Oct 19, 2015	714	Oct 19, 2015	24	Oct 26, 2015	55
				Oct 26, 2015	163	Oct 26, 2015	0	Oct 26, 2015	8	Oct 26, 2015	650	Oct 26, 2015	29	Nov 03, 2015	77
				Nov 03, 2015	401	Nov 03, 2015	10	Nov 03, 2015	34	Nov 03, 2015	640	Nov 03, 2015	69	Nov 09, 2015	22
				Nov 09, 2015	118	Nov 09, 2015	30	Nov 09, 2015	5	Nov 09, 2015	482	Nov 09, 2015	36	Nov 16, 2015	29
				Nov 16, 2015	164	Nov 16, 2015	0	Nov 16, 2015	5	Nov 16, 2015	447	Nov 16, 2015	27	Nov 23, 2015	23
				Nov 23, 2015	130	Nov 23, 2015	10	Nov 23, 2015	0	Nov 23, 2015	410	Nov 23, 2015	29	Nov 30, 2015	20
				Nov 30, 2015	117	Nov 30, 2015	40	Nov 30, 2015	0	Nov 30, 2015	410	Nov 30, 2015	30	Dec 07, 2015	21
				Dec 07, 2015	94	Dec 07, 2015	20	Dec 07, 2015	0	Dec 07, 2015	450	Dec 07, 2015	26	Dec 14, 2015	20
				Dec 14, 2015	118	Dec 14, 2015	0	Dec 14, 2015	8	Dec 14, 2015	435	Dec 14, 2015	27	Dec 21, 2015	53
				Dec 21, 2015	91	Dec 21, 2015	10	Dec 21, 2015	0	Dec 21, 2015	414	Dec 21, 2015	19	Dec 28, 2015	29
				Dec 28, 2015	105	Dec 28, 2015	0	Dec 28, 2015	0	Dec 28, 2015	520	Dec 28, 2015	32	Jan 04, 2016	43
				Jan 04, 2016	129	Jan 04, 2016	0	Jan 04, 2016	0	Jan 04, 2016	410	Jan 04, 2016	143	Jan 11, 2016	54
				Jan 11, 2016	189	Jan 11, 2016	0	Jan 11, 2016	18	Jan 11, 2016	374	Jan 11, 2016	33	Jan 18, 2016	35
				Jan 18, 2016	126	Jan 18, 2016	10	Jan 18, 2016	11	Jan 18, 2016	168	Jan 18, 2016	34	Jan 25, 2016	28
				Jan 25, 2016	115	Jan 25, 2016	0	Jan 25, 2016	0	Jan 25, 2016	140	Jan 25, 2016	42	Feb 01, 2016	28
				Feb 01, 2016	107	Feb 01, 2016	0	Feb 01, 2016	0	Feb 01, 2016	290	Feb 01, 2016	49	Feb 08, 2016	33
				Feb 08, 2016	84	Feb 08, 2016	0	Feb 08, 2016	5	Feb 08, 2016	150	Feb 08, 2016	45	Feb 16, 2016	30
				Feb 16, 2016	120	Feb 16, 2016	0	Feb 16, 2016	9	Feb 16, 2016	168	Feb 16, 2016	31	Feb 22, 2016	25
				Feb 22, 2016	88	Feb 22, 2016	0	Feb 22, 2016	14	Feb 22, 2016	60	Feb 22, 2016	23	Mar 01, 2016	26
				Mar 01, 2016	55	Mar 01, 2016	0	Mar 01, 2016	0	Mar 01, 2016	40	Mar 01, 2016	15	Mar 07, 2016	24
				Mar 07, 2016	84	Mar 07, 2016	0	Mar 07, 2016	0	Mar 07, 2016	90	Mar 07, 2016	7	Mar 14, 2016	26
				Mar 14, 2016	61	Mar 14, 2016	0	Mar 14, 2016	6	Mar 14, 2016	61	Mar 14, 2016	20	Mar 21, 2016	34
				Mar 21, 2016	103	Mar 21, 2016	0	Mar 21, 2016	0	Mar 21, 2016	120	Mar 21, 2016	12	Mar 28, 2016	31
				Mar 28, 2016	105	Mar 28, 2016	0	Mar 28, 2016	0	Mar 28, 2016	84	Mar 28, 2016	13	Apr 05, 2016	40
				Apr 05, 2016	142	Apr 05, 2016	0	Apr 05, 2016	8	Apr 05, 2016	140	Apr 05, 2016	24	Apr 11, 2016	30
				Apr 11, 2016	92	Apr 11, 2016	0	Apr 11, 2016	0	Apr 11, 2016	99	Apr 11, 2016	27	Apr 18, 2016	32
				Apr 18, 2016	87	Apr 18, 2016	0	Apr 18, 2016	6	Apr 18, 2016	103	Apr 18, 2016	55	Apr 25, 2016	33
				Apr 25, 2016	104	Apr 25, 2016	0	Apr 25, 2016	6	Apr 25, 2016	130	Apr 25, 2016	21	May 03, 2016	28
				May 03, 2016	75	May 03, 2016	0	May 03, 2016	0	May 03, 2016	115	May 03, 2016	16	May 09, 2016	27
				May 09, 2016	90	May 09, 2016	0	May 09, 2016	0	May 09, 2016	97	May 09, 2016	35	May 16, 2016	25
				May 16, 2016	108	May 16, 2016	0	May 16, 2016	5	May 16, 2016	118	May 16, 2016	12	May 23, 2016	26
				May 23, 2016	65	May 23, 2016	0	May 23, 2016	0	May 23, 2016	100	May 23, 2016	18	May 31, 2016	39
				May 31, 2016	138	May 31, 2016	0	May 31, 2016	5	May 31, 2016	175	May 31, 2016	27	Jun 06, 2016	42
				Jun 06, 2016	111	Jun 06, 2016	0	Jun 06, 2016	5	Jun 06, 2016	148	Jun 06, 2016	27	Jun 13, 2016	42
				Jun 13, 2016	132	Jun 13, 2016	0	Jun 13, 2016	18	Jun 13, 2016	164	Jun 13, 2016	18	Jun 20, 2016	58
				Jun 20, 2016	138	Jun 20, 2016	0	Jun 20, 2016	12	Jun 20, 2016	146	Jun 20, 2016	21	Jun 27, 2016	37
				Jun 27, 2016	95	Jun 27, 2016	0	Jun 27, 2016	6	Jun 27, 2016	90	Jun 27, 2016	23	Jul 12, 2016	37
				Jul 12, 2016	287	Jul 12, 2016	0	Jul 12, 2016	0	Jul 12, 2016	70	Jul 12, 2016	20	Jul 19, 2016	38
				Jul 19, 2016	225	Jul 19, 2016	0	Jul 19, 2016	5	Jul 19, 2016	98	Jul 19, 2016	14	Jul 29, 2016	35
				Jul 29, 2016	208	Jul 29, 2016	0	Jul 29, 2016	8	Jul 29, 2016	90	Jul 29, 2016	24	Aug 01, 2016	38
				Aug 01, 2016	169	Aug 01, 2016	0	Aug 01, 2016	8	Aug 01, 2016	80	Aug 01, 2016	22	Aug 08, 2016	38
				Aug 08, 2016	183	Aug 08, 2016	0	Aug 08, 2016	8	Aug 08, 2016	97	Aug 08, 2016	14	Aug 16, 2016	46
				Aug 16, 2016	159	Aug 16, 2016	0	Aug 16, 2016	5	Aug 16, 2016	91	Aug 16, 2016	22	Aug 25, 2016	47
				Aug 25, 2016	157	Aug 25, 2016	0	Aug 25, 2016	6	Aug 25, 2016	110	Aug 25, 2016	34	Aug 29, 2016	39
				Aug 29, 2016	118	Aug 29, 2016	0	Aug 29, 2016	5	Aug 29, 2016	99	Aug 29, 2016	11	Sep 07, 2016	40
				Sep 07, 2016	162	Sep 07, 2016	0	Sep 07, 2016	6	Sep 07, 2016	120	Sep 07, 2016	34	Sep 12, 2016	34
				Sep 12, 2016	126	Sep 12, 2016	14	Sep 12, 2016	0	Sep 12, 2016	77	Sep 12, 2016	20	Sep 19, 2016	30
				Sep 19, 2016	94	Sep 19, 2016	0	Sep 19, 2016	0	Sep 19, 2016	30	Sep 19, 2016	15	Sep 26, 2016	22
				Sep 26, 2016	124	Sep 26, 2016	0	Sep 26, 2016	0	Sep 26, 2016	60	Sep 26, 2016	11	Oct 03, 2016	27
				Oct 03, 2016	104	Oct 03, 2016	0	Oct 03, 2016	0	Oct 03, 2016	70	Oct 03, 2016	21	Oct 11, 2016	21
				Oct 11, 2016	111	Oct 11, 2016	10	Oct 11, 2016	0	Oct 11, 2016	55	Oct 11, 2016	12	Oct 19, 2016	25
				Oct 19, 2016	90	Oct 19, 2016	10	Oct 19, 2016	0	Oct 19, 2016	71	Oct 19, 2016	10	Oct 25, 2016	33
				Oct 25, 2016	100	Oct 25, 2016	0	Oct 25, 2016	0	Oct 25, 2016	104	Oct 25, 2016	18	Oct 31, 2016	27
				Oct 31, 2016	132	Oct 31, 2016	0	Oct 31, 2016	0	Oct 31, 2016	122	Oct 31, 2016	46	Nov 08, 2016	33
				Nov 08, 2016	86	Nov 08, 2016	0	Nov 08, 2016	0	Nov 08, 2016	80	Nov 08, 2016	20	Nov 16, 2016	28
				Nov 16, 2016	131	Nov 16, 2016	0	Nov 16, 2016	0	Nov 16, 2016	75	Nov 16, 2016	9	Nov 21, 2016	41
				Nov 21, 2016	110	Nov 21, 2016	0	Nov 21, 2016	0	Nov 21, 2016	100	Nov 21, 2016	19	Nov 28, 2016	48
				Nov 28, 2016	109	Nov 28, 2016	0	Nov 28, 2016	0	Nov 28, 2016	131	Nov 28, 2016	20	Dec 06, 2016	23
				Dec 06, 2016	133	Dec 06, 2016	0	Dec 06, 2016	0	Dec 06, 2016	80	Dec 06, 2016	29	Dec 12, 2016	37
				Dec 12, 2016	163	Dec 12, 2016	0	Dec 12, 2016	0	Dec 12, 2016	114	Dec 12, 2016	10	Dec 20, 2016	31
				Dec 20, 2016	103	Dec 20, 2016	50	Dec 20, 2016	0	Dec 20, 2016	96	Dec 20, 2016	10	Dec 28, 2016	28
				Dec 28, 2016	75	Dec 28, 2016	0	Dec 28, 2016	0	Dec 28, 2016	80	Dec 28, 2016	25	Jan 04, 2017	23
				Jan 04, 2017	68	Jan 04, 2017	70	Jan 04, 2017	0	Jan 04, 2017	60	Jan 04, 2017	75	Jan 10, 2017	34
				Jan 10, 2017	82	Jan 10, 2017	0	Jan 10, 2017	0	Jan 10, 2017	100	Jan 10, 2017	44	Jan 17, 2017	23
				Jan 17, 2017	79	Jan 17, 2017	0	Jan 17, 2017	0	Jan 17, 2017	54	Jan 17, 2017	30	Jan 24, 2017	12
				Jan 24, 2017	131	Jan 24, 2017	0	Jan 24, 2017	0	Jan 24, 2017	60	Jan 24, 2017	27	Jan 31, 2017	25
				Jan 31, 2017	132	Jan 31, 2017	0	Jan 31, 2017	0	Jan 31, 2017	66	Jan 31, 2017	19	Feb 06, 2017	39
				Feb 06, 2017	157	Feb 06, 2017	0	Feb 06, 2017	0	Feb 06, 2017	100	Feb 06, 2017	21	Feb 14, 2017	30
				Feb 14, 2017	114	Feb 14, 2017	0	Feb 14, 2017	0	Feb 14, 2017	158	Feb 14, 2017	19	Feb 21, 2017	21
				Feb 21, 2017	83	Feb 21, 2017	0	Feb 21, 2017	0	Feb 21, 2017	69	Feb 21, 2017	20	Feb 28, 2017	29
				Feb 28, 2017	92	Feb 28, 2017	10	Feb 28, 2017	0	Feb 28, 2017	80	Feb 28, 2017	20	Mar 07, 2017	35
				Mar 07, 2017	170	Mar 07, 2017	0	Mar 07, 2017	6	Mar 07, 2017	140	Mar 07, 2017	20	Mar 16, 2017	30
				Mar 16, 2017	132	Mar 16, 2017	0	Mar 16, 2017	0	Mar 16, 2017	163	Mar 16, 2017	32	Mar 21, 2017	30

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Summit Corporation of America

Water Quality Based Limit Determination: Data Summary

DSN 001-1 DMR Data: January 2008-June 2018

Cadmium		Chromium		Copper		Cyanide, Total		Lead		Nickel		Silver		Zinc	
DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L
				Mar 21, 2017	79	Mar 21, 2017	0	Mar 21, 2017	0	Mar 21, 2017	108	Mar 21, 2017	18	Mar 28, 2017	32
				Mar 28, 2017	128	Mar 28, 2017	0	Mar 28, 2017	0	Mar 28, 2017	140	Mar 28, 2017	14	Apr 04, 2017	28
				Apr 04, 2017	159	Apr 04, 2017	0	Apr 04, 2017	7	Apr 04, 2017	80	Apr 04, 2017	23	Apr 11, 2017	26
				Apr 11, 2017	101	Apr 11, 2017	0	Apr 11, 2017	8	Apr 11, 2017	120	Apr 11, 2017	34	Apr 18, 2017	37
				Apr 18, 2017	155	Apr 18, 2017	0	Apr 18, 2017	6	Apr 18, 2017	175	Apr 18, 2017	33	Apr 25, 2017	28
				Apr 25, 2017	249	Apr 25, 2017	0	Apr 25, 2017	6	Apr 25, 2017	170	Apr 25, 2017	17	May 02, 2017	27
				May 02, 2017	112	May 02, 2017	0	May 02, 2017	0	May 02, 2017	140	May 02, 2017	20	May 09, 2017	22
				May 09, 2017	89	May 09, 2017	0	May 09, 2017	0	May 09, 2017	74	May 09, 2017	26	May 16, 2017	28
				May 16, 2017	96	May 16, 2017	0	May 16, 2017	0	May 16, 2017	134	May 16, 2017	22	May 23, 2017	30
				May 23, 2017	105	May 23, 2017	0	May 23, 2017	0	May 23, 2017	100	May 23, 2017	17	May 31, 2017	31
				May 31, 2017	108	May 31, 2017	30	May 31, 2017	5	May 31, 2017	99	May 31, 2017	24	Jun 06, 2017	30
				Jun 06, 2017	100	Jun 06, 2017	20	Jun 06, 2017	0	Jun 06, 2017	110	Jun 06, 2017	26	Jun 13, 2017	25
				Jun 13, 2017	144	Jun 13, 2017	0	Jun 13, 2017	6	Jun 13, 2017	114	Jun 13, 2017	31	Jun 20, 2017	30
				Jun 20, 2017	226	Jun 20, 2017	0	Jun 20, 2017	5	Jun 20, 2017	136	Jun 20, 2017	18	Jun 27, 2017	27
				Jun 27, 2017	105	Jun 27, 2017	0	Jun 27, 2017	0	Jun 27, 2017	90	Jun 27, 2017	13	Jul 11, 2017	20
				Jul 11, 2017	50	Jul 11, 2017	10	Jul 11, 2017	0	Jul 11, 2017	50	Jul 11, 2017	10	Jul 18, 2017	20
				Jul 18, 2017	109	Jul 18, 2017	10	Jul 18, 2017	0	Jul 18, 2017	103	Jul 18, 2017	14	Jul 24, 2017	20
				Jul 24, 2017	74	Jul 24, 2017	0	Jul 24, 2017	0	Jul 24, 2017	74	Jul 24, 2017	16	Aug 01, 2017	25
				Aug 01, 2017	52	Aug 01, 2017	0	Aug 01, 2017	0	Aug 01, 2017	90	Aug 01, 2017	17	Aug 08, 2017	22
				Aug 08, 2017	115	Aug 08, 2017	10	Aug 08, 2017	0	Aug 08, 2017	117	Aug 08, 2017	17	Aug 15, 2017	18
				Aug 15, 2017	66	Aug 15, 2017	0	Aug 15, 2017	0	Aug 15, 2017	72	Aug 15, 2017	8	Aug 22, 2017	19
				Aug 22, 2017	132	Aug 22, 2017	60	Aug 22, 2017	0	Aug 22, 2017	140	Aug 22, 2017	9	Aug 29, 2017	18
				Aug 29, 2017	80	Aug 29, 2017	10	Aug 29, 2017	0	Aug 29, 2017	63	Aug 29, 2017	7	Sep 05, 2017	30
				Sep 05, 2017	80	Sep 05, 2017	0	Sep 05, 2017	0	Sep 05, 2017	80	Sep 05, 2017	27	Sep 12, 2017	36
				Sep 12, 2017	52	Sep 12, 2017	0	Sep 12, 2017	7	Sep 12, 2017	54	Sep 12, 2017	9	Sep 19, 2017	29
				Sep 19, 2017	70	Sep 19, 2017	0	Sep 19, 2017	0	Sep 19, 2017	60	Sep 19, 2017	23	Sep 26, 2017	22
				Sep 26, 2017	60	Sep 26, 2017	0	Sep 26, 2017	0	Sep 26, 2017	80	Sep 26, 2017	19	Oct 03, 2017	31
				Oct 03, 2017	63	Oct 03, 2017	10	Oct 03, 2017	0	Oct 03, 2017	70	Oct 03, 2017	32	Oct 10, 2017	39
				Oct 10, 2017	60	Oct 10, 2017	10	Oct 10, 2017	0	Oct 10, 2017	70	Oct 10, 2017	22	Oct 17, 2017	31
				Oct 17, 2017	103	Oct 17, 2017	0	Oct 17, 2017	0	Oct 17, 2017	64	Oct 17, 2017	27	Oct 24, 2017	32
				Oct 24, 2017	103	Oct 24, 2017	0	Oct 24, 2017	0	Oct 24, 2017	119	Oct 24, 2017	21	Oct 31, 2017	51
				Oct 31, 2017	83	Oct 31, 2017	0	Oct 31, 2017	0	Oct 31, 2017	100	Oct 31, 2017	12	Nov 09, 2017	24
				Nov 09, 2017	114	Nov 09, 2017	100	Nov 09, 2017	0	Nov 09, 2017	186	Nov 09, 2017	35	Nov 14, 2017	27
				Nov 14, 2017	83	Nov 14, 2017	0	Nov 14, 2017	0	Nov 14, 2017	114	Nov 14, 2017	22	Nov 21, 2017	24
				Nov 21, 2017	87	Nov 21, 2017	0	Nov 21, 2017	0	Nov 21, 2017	123	Nov 21, 2017	13	Nov 28, 2017	29
				Nov 28, 2017	83	Nov 28, 2017	0	Nov 28, 2017	0	Nov 28, 2017	110	Nov 28, 2017	24	Dec 05, 2017	21
				Dec 05, 2017	91	Dec 05, 2017	0	Dec 05, 2017	0	Dec 05, 2017	60	Dec 05, 2017	37	Dec 12, 2017	14
				Dec 12, 2017	51	Dec 12, 2017	0	Dec 12, 2017	0	Dec 12, 2017	79	Dec 12, 2017	13	Dec 19, 2017	13
				Dec 19, 2017	68	Dec 19, 2017	0	Dec 19, 2017	0	Dec 19, 2017	104	Dec 19, 2017	27	Dec 27, 2017	21
				Dec 27, 2017	71	Dec 27, 2017	0	Dec 27, 2017	0	Dec 27, 2017	140	Dec 27, 2017	23	Jan 04, 2018	13
				Jan 04, 2018	39	Jan 04, 2018	0	Jan 04, 2018	0	Jan 04, 2018	100	Jan 04, 2018	3	Jan 09, 2018	12
				Jan 09, 2018	59	Jan 09, 2018	20	Jan 09, 2018	0	Jan 09, 2018	93	Jan 09, 2018	14	Jan 16, 2018	0
				Jan 16, 2018	68	Jan 16, 2018	2	Jan 16, 2018	0	Jan 16, 2018	96	Jan 16, 2018	22	Jan 23, 2018	21
				Jan 23, 2018	61	Jan 23, 2018	0	Jan 23, 2018	7	Jan 23, 2018	150	Jan 23, 2018	9	Jan 30, 2018	23
				Jan 30, 2018	75	Jan 30, 2018	0	Jan 30, 2018	19	Jan 30, 2018	79	Jan 30, 2018	20	Feb 06, 2018	12
				Feb 06, 2018	42	Feb 06, 2018	0	Feb 06, 2018	22	Feb 06, 2018	120	Feb 06, 2018	17	Feb 13, 2018	18
				Feb 13, 2018	77	Feb 13, 2018	0	Feb 13, 2018	0	Feb 13, 2018	80	Feb 13, 2018	5	Feb 20, 2018	19
				Feb 20, 2018	134	Feb 20, 2018	0	Feb 20, 2018	0	Feb 20, 2018	126	Feb 20, 2018	13	Feb 27, 2018	36
				Feb 27, 2018	144	Feb 27, 2018	10	Feb 27, 2018	0	Feb 27, 2018	100	Feb 27, 2018	13	Mar 06, 2018	44
				Mar 06, 2018	157	Mar 06, 2018	0	Mar 06, 2018	0	Mar 06, 2018	119	Mar 06, 2018	10	Mar 13, 2018	28
				Mar 13, 2018	104	Mar 13, 2018	0	Mar 13, 2018	0	Mar 13, 2018	127	Mar 13, 2018	20	Mar 20, 2018	31
				Mar 20, 2018	82	Mar 20, 2018	0	Mar 20, 2018	0	Mar 20, 2018	120	Mar 20, 2018	21	Mar 27, 2018	23
				Mar 27, 2018	58	Mar 27, 2018	0	Mar 27, 2018	0	Mar 27, 2018	106	Mar 27, 2018	20	Apr 03, 2018	31
				Apr 03, 2018	66	Apr 03, 2018	0	Apr 03, 2018	0	Apr 03, 2018	119	Apr 03, 2018	17	Apr 10, 2018	14
				Apr 10, 2018	119	Apr 10, 2018	0	Apr 10, 2018	0	Apr 10, 2018	142	Apr 10, 2018	3	Apr 17, 2018	23
				Apr 17, 2018	119	Apr 17, 2018	0	Apr 17, 2018	8	Apr 17, 2018	185	Apr 17, 2018	8	Apr 24, 2018	11
				Apr 24, 2018	56	Apr 24, 2018	0	Apr 24, 2018	0	Apr 24, 2018	116	Apr 24, 2018	6	May 01, 2018	11
				May 01, 2018	37	May 01, 2018	0	May 01, 2018	0	May 01, 2018	98	May 01, 2018	34	May 08, 2018	16
				May 08, 2018	138	May 08, 2018	0	May 08, 2018	0	May 08, 2018	142	May 08, 2018	22	May 15, 2018	28
				May 15, 2018	88	May 15, 2018	0	May 15, 2018	0	May 15, 2018	120	May 15, 2018	7	May 22, 2018	14.2
				May 22, 2018	125	May 22, 2018	0	May 22, 2018	0	May 22, 2018	146	May 22, 2018	20	May 30, 2018	15.5
				May 30, 2018	112	May 30, 2018	0	May 30, 2018	0	May 30, 2018	117	May 30, 2018	10	Jun 05, 2018	0
				Jun 05, 2018	76	Jun 05, 2018	0	Jun 05, 2018	9	Jun 05, 2018	97	Jun 05, 2018	3	Jun 12, 2018	34
				Jun 12, 2018	91	Jun 12, 2018	4	Jun 12, 2018	6	Jun 12, 2018	92	Jun 12, 2018	25	Jun 19, 2018	16
				Jun 19, 2018	58	Jun 19, 2018	90	Jun 19, 2018	0	Jun 19, 2018	28	Jun 19, 2018	45	Jun 26, 2018	11
				Jun 26, 2018	64	Jun 26, 2018	10	Jun 26, 2018	0	Jun 26, 2018	79	Jun 26, 2018	17		

ML:	1	10		10		1		10		10	

	Cadmium	Chromium	Copper	Cyanide, Total	Lead	Nickel	Silver	Zinc
MEAN	0	2	143	18	4	248	30	28
SD	0	15	91	44	6	201	28	12
CV (est)	#DIV/0!	6.04	0.64	2.45	1.77	0.81	0.92	0.44
CV (to 1 decimal place)	#DIV/0!	6.0	0.6	2.4	1.8	0.8	0.9	0.4
MAX	0	268	600	410	44	970	123	50
MIN	0	0	5	0	0	10	0	0
N	33	374	522	522	522	522	343	343
	Default CV of 0.6 used	Default CV of 0.6 used		Default CV of 0.6 used	Default CV of 0.6 used			Default CV of 0.6 used

NOTE: Prior to July/August 2014, the analytical for these parameters was conducted in Summit's on-site laboratory. After this time frame, the analytical was performed at an off-site certified laboratory. The difference in the sample results for some of the parameters has the effect of elevating the CVs. Therefore, a default CV of 0.6 was used.

ATTACHMENT 12

Summit Corporation of America
Background Data: Naugatuck River (upstream of discharge)

PARAMETER	UNITS	Aug 19, 2008	Aug 21, 2008	Aug 23, 2008	Jun 16, 2009	Jun 17, 2009	Jun 19, 2009	Sep 23, 2009	Sep 26, 2009	Sep 28, 2009	Sep 14, 2010	Sep 15, 2010	Sep 17, 2010	Sep 20, 2011	Sep 21, 2011	Sep 23, 2011	Sep 18, 2012	Sep 19, 2012	Sep 21, 2012	Aug 05, 2013	Aug 07, 2013	Aug 09, 2013	Sep 15, 2014	Sep 16, 2014	Sep 18, 2014	Sep 21, 2015	Sep 22, 2015	Sep 24, 2015	Sep 12, 2016	Sep 13, 2016	Sep 15, 2016	Jul 24, 2017	Jul 25, 2017	Jul 27, 2017	Average concentration	Max
Alkalinity	mg/L	30.2	30.3	31	0	7.51	15.85	34.41	32.91	30.64	35.97	37.64	35.86	19.5	18.82	28.26	35.35	36.56	25.7	29.99	32.01	29.61	35.24	36.73	31.83	46.15	46.53	46.05	28	27.96	29.18	25.77	20.16	27.72	29.68	
Aluminum (Dissolved)	µg/L				40	40	50	30	30	40	0	0	0	30	20	70	0	0	0	30	30	20	22	26	24	27	0	0	0	0	0	68	25	26	22	
Aluminum (Total)	µg/L				250	190	420	60	80	60	0	30	0	60	70	100	30	30	100	50	50	60	30	30	30	27	37	24	21	20	26	75	87	87	71	
Ammonia (as N)	µg/L	140	220	140	170	0	0	0	260	0	0	170	140	0	110	240	300	510	1260	0	0	140	350	280	310	0	0	0	1600	320	120	0	140	0	210	
BOD_5	mg/L				0	0	1.2	0	0	1.2	0	0	0	0	1	0	0	1	18	0	0	0	1.2	0	1	0	0	1.3	4	2.8	4.8	1.5	3.2	1.4	1	
Chlorine, Total Residual	µg/L	100	0	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5.2	
Conductivity	µmhos/cm	215	214	224	117	122	91	244	251	224	359	366	397	143	160	124	288	266	161	281	207	289	340	371	390	384	414	426	525	519	507	327	248	316	288	
Copper (Dissolved)	µg/L	4	5	2	6	0	0	7	6	6	0	0	0	0	8	6	7	0	14	25	27	20	8	18	0	8	6	8	16	14	7	0	10	8	7	
Copper (Total)	µg/L	4	5	3	6	0	0	7	6	6	6	0	0	6	10	8	13	5	14	112	209	154	11	25	0	11	9	9	35	32	15	7	14	14	23	
Cyanide (Total)	µg/L				0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Hardness	mg/L	40.5	39.6	40.6	32.9	34.78	33.62	56.23	54.54	49.68	83.51	75.63	62.95	28.23	35.69	28.74	48.53	34.81	36.41	46.39	46.89	51.3	59.19	61.17	56.43	156.2	67.18	70.98	75.54	76.16	72.22	57.04	45.34	55.76	54.99	
Iron (Dissolved)	µg/L				230	240	160	130	100	170	90	90	0	220	170	160	180	100	130	230	270	130	92	112	85	125	278	119	88	162	365	175	235	118	159	
Iron (Total)	µg/L				750	640	700	350	360	380	240	350	130	320	350	360	470	100	460	340	330	350	286	260	240	501	509	320	358	330	513	476	569	576	398	
Lead (Dissolved)	µg/L				6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.20	
Lead (Total)	µg/L				12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.49	
Nickel (Dissolved)	µg/L				0	0	8	8	0	6	0	0	0	0	0	0	9	17	0	0	0	0	15	18	0	6	6	7	31	0	8	0	0	0	5	
Nickel (Total)	µg/L				0	0	10	8	7	6	0	10	0	0	0	0	15	17	0	5	5	6	23	24	7	6	6	8	36	0	13	0	0	5	7.2	
Nitrate (as N)	mg/L	0.48	0.31	0.83	0.44	0.14	0.2	1.24	0.78	0.59	0.64	0.61	0.49	0.71	0.31	0.28	0.66	0.55	0.2	0.53	1.07	1.69	0.76	0.98	1.1	0.75	0.64	0.9	0.64	0.77	0.59	0.65	0.54	0.73	0.7	
Nitrite (as N)	mg/L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
pH	SU	7.52	7.54	7.56	7.40		7.71	7.44	7.14	7.05	7.20	6.99	7.18	6.92	7.20	7.08	6.91	7.40	7.71	6.73	7.06	7.03	6.72	6.76	6.74	6.70	6.82	6.79	6.98	7.46	6.84	6.73	6.73	6.76		7.71
Surfactants	mg/L				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total Suspended Solids	mg/L	0	5	0	0	6	11	0	2	1	0	0	3	2	7	2	0	1	2	0	0	1	2	1	3	8	3	4	4	10	3	5	3	6	3	
Zinc (Dissolved)	µg/L	5	5	6	12	15	18	20	18	15	10	15	0	10	14	10	10	78	19	27	18	26	0	18	0	14	23	21	19	14	21	20	12	16	16	
Zinc (Total)	µg/L	7	10	7	19	20	21	25	22	21	14	21	0	18	29	20	72	78	20	37	27	37	14	24	13	27	33	38	29	22	26	24	19	24	25	

NOTE:
The concentration of Copper is higher than the most stringent ambient water quality criteria

ATTACHMENT 13
REASONABLE POTENTIAL DETERMINATION

Discharger:	Summit Corporation of America	Receiving Water:	Naugatuck River	
Address:	1430 Waterbury Road, Thomaston	Type:	Freshwater	
Permit Number:	CT0001180	Average Effluent Flow:	160,000 gpd	0.248 cfs
Application Number:	201205290			
DSN:	001-1	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	

POLLUTANT	A,C,HB	Water Quality Criteria			Maximum Measured Effluent Concentration µg/L	Total Observations for Maximum Effluent Concentration	CV	Multiplier	Dilution Factor	Naugatuck River Concentration µg/L	Receiving Water Concentration (acute) µg/L	Receiving Water Concentration (chronic) µg/L	Receiving Water Concentration (human health) µg/L	Is there reasonable potential?
		Aquatic Life		Human Health										
		Acute	Chronic											
		µg/L	µg/L	µg/L										
Aluminum		750	87		2800	522	0.6	1.0	16.1	71	241	241		YES
Ammonia (Total as N) SUMMER		8,547	1,378		22000	522	0.7	1.0	16.1	210	1564	1564		YES
Ammonia (Total as N) WINTER		8,547	3,242		22000	522	0.7	1.0	16.1	210	1564	1564		NO
Chlorine, Total Residual		19	11		78	522	0.4	1.0	31.2	5.2	7.5	7.5		NO
Chloroform	C			470	836	138	0.6	1.0	1.0				836	YES
Fluoride					35500	522	0.6	1.0	1.0		35500	35500	35500	N/A, NO CRITERIA
Iron			1,000		130	522	0.5	1.0	1.0	398		130		NO
Tin					820	521	0.6	1.0	1.0		820	820	820	N/A, NO CRITERIA

NOTES:

1. The criteria for Iron is from EPA's *National Recommended Water Quality Criteria*

Discharger:	Summit Corporation of America	Receiving Water:	Naugatuck River	
Address:	1430 Waterbury Road, Thomaston	Type:	Freshwater	
Permit Number:	CT0001180	Average Effluent Flow:	330,000 gpd	0.511 cfs
Application Number:	201205290			
DSN:	001-1	7Q10 Flow of Receiving Water @ Site:	14.94 cfs	
		Allocation:	50 %	25 %
		Dilution Factor:	15.6	8.3
		Dilution Factor$_{A,C,HB}$:	1.0	

POLLUTANT	A,C,HB	Water Quality Criteria			Maximum Measured Effluent Concentration µg/L	Total Observations for Maximum Effluent Concentration	CV	Multiplier	Dilution Factor	Naugatuck River Concentration µg/L	Receiving Water Concentration (acute) µg/L	Receiving Water Concentration (chronic) µg/L	Receiving Water Concentration (human health) µg/L	Is there reasonable potential?
		Aquatic Life		Human Health										
		Acute	Chronic											
		µg/L	µg/L	µg/L										
Aluminum		750	87		2800	522	0.6	1.0	8.3	71	399	399		YES
Ammonia (Total as N) SUMMER		8,547	1,378		22000	522	0.7	1.0	8.3	210	2830	2830		YES
Ammonia (Total as N) WINTER		8,547	3,242		22000	522	0.7	1.0	8.3	210	2830	2830		NO
Chlorine, Total Residual		19	11		78	522	0.4	1.0	15.6	5.2	9.9	9.9		NO
Chloroform	C			470	836	138	0.6	1.0	1.0				836	YES
Fluoride					35500	522	0.6	1.0	1.0		35500	35500	35500	N/A, NO CRITERIA
Iron			1,000		130	522	0.5	1.0	1.0	398		130		NO
Tin					820	521	0.6	1.0	1.0		820	820	820	N/A, NO CRITERIA

NOTES:

1. 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
Address: 1430 Waterbury Road, Thomaston
Permit Number: CT0001180
Application Number: 201205290
DSN: 001-1

Receiving Water: Naugatuck River
Average Effluent Flow: 160,000 gpd 0.248 cfs

Dilution Factors 31.2 16.1
Dilution Factor$_{A,C}$ 1.0

POLLUTANT	A,C,HB	Dilution Factor	WLA (acute) µg/L	WLA (chronic) µg/L	WLA (human health) µg/L	LTA CV	LTA (acute)	LTA (chronic)	LTA (human health)	Limiting LTA	Limiting criteria	Anticipated Number of Samples per Month	Average Monthly Limit µg/L	Maximum Daily Limit µg/L	Instantaneous Limit µg/L	Average Monthly Limit g/day	Maximum Daily Limit g/day
Aluminum		16.1		328		0.6		173.2		173.2	CHRONIC	4	269	540	809	163	327
Ammonia (Total as N) SUMMER		16.1		18,998		0.7		9128.4		9128.4	CHRONIC	4	15,072	32,487	48,731	9134	19689
Ammonia (Total as N) WINTER																	
Chlorine, Total Residual																	
Chloroform		1			470	0.6			470	470	HUMAN HEALTH	1	470	686	1,028	285	416
Fluoride																	
Iron																	
Tin																	

Discharger: Summit Corporation of America
Address: 1430 Waterbury Road, Thomaston
Permit Number: CT0001180
Application Number: 201205290
DSN: 001-1

Receiving Water: Naugatuck River
Average Effluent Flow: 330,000 gpd 0.511 cfs

Dilution Factors 15.6 8.3
Dilution Factor$_{A,C}$ 1.0

POLLUTANT	A,C,HB	Dilution Factor	WLA (acute) µg/L	WLA (chronic) µg/L	WLA (human health) µg/L	LTA CV	LTA (acute)	LTA (chronic)	LTA (human health)	Limiting LTA	Limiting criteria	Anticipated Number of Samples per Month	Average Monthly Limit µg/L	Maximum Daily Limit µg/L	Instantaneous Limit µg/L	Average Monthly Limit g/day	Maximum Daily Limit g/day
Aluminum		8.3		204		0.6		107.6		107.6	CHRONIC	4	167	335	503	209	419
Ammonia (Total as N) SUMMER		8.3		9,921		0.7		4766.9		4766.9	CHRONIC	4	7,870	16,965	25,447	9838	21206
Ammonia (Total as N) WINTER																	
Chlorine, Total Residual																	
Chloroform		1			470	0.6			470	470	HUMAN HEALTH	1	470	686	1,028	588	857
Fluoride																	
Iron																	
Tin																	

ATTACHMENT 13

Summit Corporation of America

Reasonable Potential Evaluation: Data Summary

DSN 001-1 DMR Data: January 2008-June 2018

Aluminum		Chlorine, TR		Chloroform		Fluoride		Iron		Nitrogen, Ammonia		Tin	
DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L
Jan 08, 2008	40	Jan 08, 2008	37	Jan 15, 2008	113	Jan 08, 2008	3100	Jan 08, 2008	40	Jan 08, 2008	180	Jan 08, 2008	80
Jan 15, 2008	50	Jan 15, 2008	28	Feb 05, 2008	143	Jan 15, 2008	3700	Jan 15, 2008	40	Jan 15, 2008	1000	Jan 15, 2008	150
Jan 21, 2008	210	Jan 21, 2008	50	Mar 04, 2008	99	Jan 21, 2008	9000	Jan 21, 2008	30	Jan 21, 2008	540	Jan 21, 2008	120
Jan 28, 2008	11	Jan 28, 2008	18	Apr 07, 2008	171	Jan 28, 2008	2700	Jan 28, 2008	30	Jan 28, 2008	1100	Jan 28, 2008	100
Feb 05, 2008	20	Feb 05, 2008	47	May 05, 2008	74	Feb 05, 2008	3100	Feb 05, 2008	30	Feb 05, 2008	3700	Feb 05, 2008	150
Feb 01, 2008	120	Feb 01, 2008	63	Jun 02, 2008	511	Feb 01, 2008	3700	Feb 01, 2008	40	Feb 01, 2008	1800	Feb 01, 2008	90
Feb 18, 2008	40	Feb 18, 2008	67	Jul 07, 2008	639	Feb 18, 2008	9000	Feb 18, 2008	40	Feb 18, 2008	3200	Feb 18, 2008	140
Feb 25, 2008	30	Feb 25, 2008	78	Aug 11, 2008	178	Feb 25, 2008	2700	Feb 25, 2008	30	Feb 25, 2008	1100	Feb 25, 2008	140
Mar 04, 2008	60	Mar 04, 2008	50	Sep 03, 2008	435	Mar 04, 2008	6750	Mar 04, 2008	40	Mar 04, 2008	3700	Mar 04, 2008	30
Mar 10, 2008	70	Mar 10, 2008	43	Sep 08, 2008	268	Mar 10, 2008	9300	Mar 10, 2008	40	Mar 10, 2008	1800	Mar 10, 2008	110
Mar 17, 2008	10	Mar 17, 2008	33	Oct 06, 2008	564	Mar 17, 2008	7500	Mar 17, 2008	30	Mar 17, 2008	3200	Mar 17, 2008	130
Mar 24, 2008	30	Mar 24, 2008	43	Oct 14, 2008	189	Mar 24, 2008	9100	Mar 24, 2008	30	Mar 24, 2008	1100	Mar 24, 2008	220
Mar 31, 2008	10	Mar 31, 2008	27	Nov 03, 2008	245	Mar 31, 2008	380	Mar 31, 2008	20	Mar 31, 2008	1600	Mar 31, 2008	230
Apr 07, 2008	50	Apr 07, 2008	33	Dec 01, 2008	377	Apr 07, 2008	860	Apr 07, 2008	30	Apr 07, 2008	3700	Apr 07, 2008	30
Apr 14, 2008	60	Apr 14, 2008	42	Jan 06, 2009	189	Apr 14, 2008	5900	Apr 14, 2008	30	Apr 14, 2008	1800	Apr 14, 2008	110
Apr 21, 2008	90	Apr 21, 2008	30	Jan 12, 2009	186	Apr 21, 2008	4300	Apr 21, 2008	40	Apr 21, 2008	3200	Apr 21, 2008	130
Apr 28, 2008	0	Apr 28, 2008	35	Feb 02, 2009	836	Apr 28, 2008	2200	Apr 28, 2008	30	Apr 28, 2008	1100	Apr 28, 2008	220
May 05, 2008	0	May 05, 2008	35	Mar 02, 2009	231	May 05, 2008	860	May 05, 2008	30	May 05, 2008	3300	May 05, 2008	60
May 12, 2008	60	May 12, 2008	27	Apr 07, 2009	113	May 12, 2008	5900	May 12, 2008	40	May 12, 2008	3100	May 12, 2008	120
May 19, 2008	130	May 19, 2008	37	Apr 13, 2009	331	May 19, 2008	4300	May 19, 2008	40	May 19, 2008	320	May 19, 2008	120
May 27, 2008	100	May 27, 2008	28	May 04, 2009	213	May 27, 2008	1300	May 27, 2008	20	May 27, 2008	1100	May 27, 2008	60
Jun 02, 2008	40	Jun 02, 2008	33	Jun 01, 2009	143	Jun 02, 2008	1760	Jun 02, 2008	40	Jun 02, 2008	1100	Jun 02, 2008	690
Jun 09, 2008	80	Jun 09, 2008	40	Jul 13, 2009	181	Jun 09, 2008	900	Jun 09, 2008	30	Jun 09, 2008	520	Jun 09, 2008	150
Jun 16, 2008	2700	Jun 16, 2008	53	Aug 03, 2009	350	Jun 16, 2008	2200	Jun 16, 2008	40	Jun 16, 2008	2700	Jun 16, 2008	130
Jun 24, 2008	2800	Jun 24, 2008	57	Sep 08, 2009	91	Jun 24, 2008	2500	Jun 24, 2008	30	Jun 24, 2008	2800	Jun 24, 2008	420
Jun 30, 2008	70	Jun 30, 2008	55	Oct 05, 2009	72	Jun 30, 2008	940	Jun 30, 2008	40	Jun 30, 2008	1200	Jun 30, 2008	110
Jul 07, 2008	60	Jul 07, 2008	33	Oct 12, 2009	206	Jul 07, 2008	1460	Jul 07, 2008	30	Jul 07, 2008	4400	Jul 07, 2008	120
Jul 14, 2008	50	Jul 14, 2008	25	Nov 02, 2009	730	Jul 14, 2008	4600	Jul 14, 2008	40	Jul 14, 2008	1100	Jul 14, 2008	190
Jul 21, 2008	60	Jul 21, 2008	20	Dec 08, 2009	186	Jul 21, 2008	4600	Jul 21, 2008	30	Jul 21, 2008	800	Jul 21, 2008	260
Aug 11, 2008	50	Aug 11, 2008	25	Jan 11, 2010	168	Aug 11, 2008	2900	Aug 11, 2008	40	Aug 11, 2008	2600	Aug 11, 2008	40
Aug 18, 2008	90	Aug 18, 2008	38	Feb 01, 2010	382	Aug 18, 2008	1100	Aug 18, 2008	20	Aug 18, 2008	2600	Aug 18, 2008	40
Aug 26, 2008	0	Aug 26, 2008	23	Mar 01, 2010	431	Aug 26, 2008	1700	Aug 26, 2008	40	Aug 26, 2008	820	Aug 26, 2008	310
Sep 03, 2008	160	Sep 03, 2008	20	Apr 05, 2010	232	Sep 03, 2008	1620	Sep 03, 2008	20	Sep 03, 2008	2500	Sep 03, 2008	80
Sep 08, 2008	40	Sep 08, 2008	30	May 03, 2010	235	Sep 08, 2008	600	Sep 08, 2008	30	Sep 08, 2008	1000	Sep 08, 2008	290
Sep 15, 2008	40	Sep 15, 2008	30	Jun 01, 2010	241	Sep 15, 2008	1800	Sep 15, 2008	40	Sep 15, 2008	3700	Sep 15, 2008	300
Sep 22, 2008	80	Sep 22, 2008	40	Jul 13, 2010	108	Sep 22, 2008	600	Sep 22, 2008	20	Sep 22, 2008	1900	Sep 22, 2008	280
Sep 30, 2008	40	Sep 30, 2008	30	Aug 02, 2010	194	Sep 30, 2008	4500	Sep 30, 2008	40	Sep 30, 2008	2400	Sep 30, 2008	430
Oct 06, 2008	50	Oct 06, 2008	30	Sep 07, 2010	146	Oct 06, 2008	2700	Oct 06, 2008	30	Oct 06, 2008	3700	Oct 06, 2008	60
Oct 14, 2008	70	Oct 14, 2008	20	Oct 11, 2010	157	Oct 14, 2008	1500	Oct 14, 2008	40	Oct 14, 2008	2300	Oct 14, 2008	90
Oct 20, 2008	30	Oct 20, 2008	30	Nov 01, 2010	143	Oct 20, 2008	2100	Oct 20, 2008	40	Oct 20, 2008	2600	Oct 20, 2008	50
Oct 27, 2008	0	Oct 27, 2008	60	Dec 06, 2010	185	Oct 27, 2008	2000	Oct 27, 2008	40	Oct 27, 2008	560	Oct 27, 2008	60
Nov 03, 2008	40	Nov 03, 2008	30	Jan 03, 2011	116	Nov 03, 2008	1900	Nov 03, 2008	30	Nov 03, 2008	250	Nov 03, 2008	170
Nov 10, 2008	90	Nov 10, 2008	20	Feb 07, 2011	118	Nov 10, 2008	2500	Nov 10, 2008	20	Nov 10, 2008	1300	Nov 10, 2008	0
Nov 17, 2008	120	Nov 17, 2008	30	Mar 07, 2011	119	Nov 17, 2008	1100	Nov 17, 2008	40	Nov 17, 2008	20000	Nov 17, 2008	0
Nov 24, 2008	110	Nov 24, 2008	30	Apr 04, 2011	57	Nov 24, 2008	2200	Nov 24, 2008	30	Nov 24, 2008	1300	Nov 24, 2008	0
Dec 01, 2008	20	Dec 01, 2008	20	May 02, 2011	155	Dec 01, 2008	3500	Dec 01, 2008	40	Dec 01, 2008	2300	Dec 01, 2008	20
Dec 08, 2008	20	Dec 08, 2008	30	Jun 06, 2011	73	Dec 08, 2008	1900	Dec 08, 2008	30	Dec 08, 2008	2600	Dec 08, 2008	150
Dec 15, 2008	20	Dec 15, 2008	30	Jul 18, 2011	49	Dec 15, 2008	900	Dec 15, 2008	30	Dec 15, 2008	4600	Dec 15, 2008	250
Jan 06, 2009	100	Jan 06, 2009	30	Aug 01, 2011	52	Jan 06, 2009	1060	Jan 06, 2009	40	Jan 06, 2009	4300	Jan 06, 2009	0
Jan 12, 2009	50	Jan 12, 2009	30	Sep 06, 2011	94	Jan 12, 2009	1200	Jan 12, 2009	40	Jan 12, 2009	2200	Jan 12, 2009	190
Jan 19, 2009	80	Jan 19, 2009	30	Oct 03, 2011	165	Jan 19, 2009	4400	Jan 19, 2009	30	Jan 19, 2009	3400	Jan 19, 2009	50
Jan 26, 2009	80	Jan 26, 2009	20	Nov 07, 2011	74	Jan 26, 2009	4800	Jan 26, 2009	30	Jan 26, 2009	2400	Jan 26, 2009	90
Feb 02, 2009	30	Feb 02, 2009	30	Dec 05, 2011	101	Feb 02, 2009	6800	Feb 02, 2009	20	Feb 02, 2009	700	Feb 02, 2009	40
Feb 09, 2009	30	Feb 09, 2009	30	Jan 02, 2012	50	Feb 09, 2009	1000	Feb 09, 2009	30	Feb 09, 2009	2200	Feb 09, 2009	110
Feb 16, 2009	70	Feb 16, 2009	20	Jan 30, 2012	99	Feb 16, 2009	2600	Feb 16, 2009	40	Feb 16, 2009	6100	Feb 16, 2009	100
Feb 23, 2009	20	Feb 23, 2009	40	Feb 06, 2012	61	Feb 23, 2009	1300	Feb 23, 2009	20	Feb 23, 2009	980	Feb 23, 2009	170
Mar 02, 2009	20	Mar 02, 2009	27	Mar 05, 2012	186	Mar 02, 2009	2100	Mar 02, 2009	30	Mar 02, 2009	4000	Mar 02, 2009	160
Mar 09, 2009	40	Mar 09, 2009	25	Apr 02, 2012	100	Mar 09, 2009	2500	Mar 09, 2009	30	Mar 09, 2009	2500	Mar 09, 2009	160
Mar 16, 2009	70	Mar 16, 2009	27	May 07, 2012	81	Mar 16, 2009	6800	Mar 16, 2009	40	Mar 16, 2009	3900	Mar 16, 2009	40
Mar 23, 2009	40	Mar 23, 2009	28	Jun 04, 2012	67	Mar 23, 2009	2500	Mar 23, 2009	40	Mar 23, 2009	1800	Mar 23, 2009	110
Mar 30, 2009	20	Mar 30, 2009	22	Jul 16, 2012	15	Mar 30, 2009	920	Mar 30, 2009	20	Mar 30, 2009	3600	Mar 30, 2009	230
Apr 07, 2009	50	Apr 07, 2009	22	Aug 06, 2012	66	Apr 07, 2009	5500	Apr 07, 2009	30	Apr 07, 2009	5000	Apr 07, 2009	100
Apr 13, 2009	40	Apr 13, 2009	17	Sep 04, 2012	120	Apr 13, 2009	1400	Apr 13, 2009	40	Apr 13, 2009	2100	Apr 13, 2009	160
Apr 20, 2009	50	Apr 20, 2009	20	Oct 01, 2012	35	Apr 20, 2009	1400	Apr 20, 2009	30	Apr 20, 2009	720	Apr 20, 2009	170
Apr 27, 2009	50	Apr 27, 2009	23	Nov 05, 2012	154	Apr 27, 2009	2200	Apr 27, 2009	40	Apr 27, 2009	13000	Apr 27, 2009	50
May 04, 2009	70	May 04, 2009	30	Dec 03, 2012	42	May 04, 2009	1500	May 04, 2009	20	May 04, 2009	1700	May 04, 2009	200
May 12, 2009	100	May 12, 2009	20	Feb 04, 2013	55	May 12, 2009	900	May 12, 2009	30	May 12, 2009	4000	May 12, 2009	40
May 18, 2009	70	May 18, 2009	30	Mar 04, 2013	84	May 18, 2009	2200	May 18, 2009	30	May 18, 2009	2100	May 18, 2009	100
May 26, 2009	150	May 26, 2009	30	Apr 01, 2013	18	May 26, 2009	900	May 26, 2009	10	May 26, 2009	3700	May 26, 2009	30
Jun 01, 2009	80	Jun 01, 2009	20	May 06, 2013	169	Jun 01, 2009	1500	Jun 01, 2009	40	Jun 01, 2009	1900	Jun 01, 2009	220
Jun 08, 2009	70	Jun 08, 2009	20	Jun 03, 2013	93	Jun 08, 2009	1300	Jun 08, 2009	20	Jun 08, 2009	1100	Jun 08, 2009	120
Jun 15, 2009	90	Jun 15, 2009	20	Jul 15, 2013	39	Jun 15, 2009	800	Jun 15, 2009	20	Jun 15, 2009	1200	Jun 15, 2009	160
Jun 22, 2009	90	Jun 22, 2009	10	Aug 05, 2013	27	Jun 22, 2009	2000	Jun 22, 2009	30	Jun 22, 2009	1500	Jun 22, 2009	220
Jul 13, 2009	50	Jul 13, 2009	20	Sep 03, 2013	157	Jul 13, 2009	1500	Jul 13, 2009	20	Jul 13, 2009	1700	Jul 13, 2009	20
Jul 20, 2009	40	Jul 20, 2009	20	Oct 14, 2013	45	Jul 20, 2009	1300	Jul 20, 2009	30	Jul 20, 2009	6600	Jul 20, 2009	30
Jul 27, 2009	100	Jul 27, 2009	20	Nov 04, 2013	79	Jul 27, 2009	1100	Jul 27, 2009	40	Jul 27, 2009	960	Jul 27, 2009	20
Aug 03, 2009	120	Aug 03, 2009	22	Dec 02, 2013	108	Aug 03, 2009	620	Aug 03, 2009	30	Aug 03, 2009	920	Aug 03, 2009	110
Aug 10, 2009	120	Aug 10, 2009	22	Jan 06, 2014	29	Aug 10, 2009	1200	Aug 10, 2009	30	Aug 10, 2009	1350	Aug 10, 2009	80
Aug 17, 2009	70	Aug 17, 2009	17	Jan 13, 2014	48	Aug 17, 2009	1400	Aug 17, 2009	30	Aug 17, 2009	1130	Aug 17, 2009	300
Aug 24, 2009	70	Aug 24, 2009	20	Feb 03, 2014	171	Aug 24, 2009	2700	Aug 24, 2009	20	Aug 24, 2009	2100	Aug 24, 2009	90
Aug 31, 2009	80	Aug 31, 2009	22	Mar 03, 2014	155	Aug 31, 2009	540	Aug 31, 2009	30	Aug 31, 2009	1750	Aug 31, 2009	120
Sep 08, 2009	60	Sep 08, 2009	17	Apr 07, 2014	47	Sep 08, 2009	3000	Sep 08, 2009	30	Sep 08, 2009	2000	Sep 08, 2009	0
Sep 14, 2009	90	Sep 14, 2009	17	May 05, 2014	43	Sep 14, 2009	500	Sep 14, 2009	40	Sep 14, 2009	3800	Sep 14, 2009	20
Sep 21, 2009	30	Sep 21, 2009	20	Jun 02, 2014	62	Sep 21, 2009	2600	Sep 21, 2009	30	Sep 21, 2009	1300	Sep 21, 2009	110
Sep 28, 2009	120	Sep 28, 2009	20	Jul 14, 2014	78	Sep 28, 2009	1100	Sep 28, 2009	40	Sep 28, 2009	1600	Sep 28, 2009	100
Oct 05, 2009	90	Oct 05, 2009	18	Jul 21, 2014	70	Oct 05, 2009	2160	Oct 05, 2009	40	Oct 05, 2009	1600	Oct 05, 2009	170
Oct 12, 2009	60	Oct 12, 2009	23	Aug 04, 2014	108	Oct 12, 2009	1000	Oct 12, 2009	30	Oct 12, 2009	3200	Oct 12, 2009	180
Oct 19, 2009	60	Oct 19, 2009	18	Sep 02, 2014	126	Oct 19, 2009	1100	Oct 19, 2009	40	Oct 19, 2009	2200	Oct 19, 2009	220
Oct 26, 2009	50	Oct 26, 2009	20	Oct 06, 2014	64	Oct 26, 2009	1100	Oct 26, 2009	30	Oct 26, 2009	1600	Oct 26, 2009	160
Nov 02, 2009	90	Nov 02, 2009	17	Nov 03, 2014	34	Nov 02, 2009	1960	Nov 02, 2009	20	Nov 02, 2009	4200	Nov 02, 2009	30
Nov 09, 2009	80	Nov 09, 2009	20	Dec 01, 2014	54	Nov 09, 2009	2700	Nov 09, 2009	40	Nov 09, 2009	2000	Nov 09, 2009	60
Nov 16, 2009	50	Nov 16, 2009	22	Jan 05, 2015	76	Nov 16, 2009	1500	Nov 16, 2009	30	Nov 16, 2009	2800	Nov 16, 2009	120
Nov 23, 2009	0	Nov 23, 2009	18	Jan 12, 2015	28	Nov 23, 2009	1600	Nov 23, 2009	20	Nov 23, 2009	1900	Nov 23, 2009	60
Nov 30, 2009	0	Nov 30, 2009	17	Jan 19, 2015	41	Nov 30, 2009	1340	Nov 30, 2009	40	Nov 30, 2009	3200	Nov 30, 2009	80
Dec 08, 2009	60	Dec 08, 2009	30	Feb 02, 2015	35	Dec 08, 2009	760	Dec 08, 2009	20	Dec 08, 2009	2400	Dec 08, 2009	820
Dec 14, 2009	60	Dec 14, 2009	23	Feb 16, 2015	35	Dec 14, 2009	900	Dec 14, 2009	30	Dec 14, 2009	2100	Dec 14, 2009	50
Dec 21, 2009	50	Dec 21, 2009	22	Mar 02, 2015	33	Dec 21, 2009	1100	Dec 21, 2009	20	Dec 21, 2009	1600	Dec 21, 2009	110
Dec 28, 2009	0	Dec 28, 2009	20	Mar 09, 2015	23	Dec 28, 2009	1700	Dec 28, 2009	30	Dec 28, 2009	2800	Dec 28, 2009	30
Jan 04, 2010	0	Jan 04, 2010	22	Apr 13, 2015	69	Jan 04, 2010	2700	Jan 04, 2010	40	Jan 04, 2010	1900	Jan 04, 2010	110
Jan 11, 2010	0	Jan 11, 2010	17	May 04, 2015	40	Jan 11, 2010	500	Jan 11, 2010	20	Jan 11, 2010	1520	Jan 11, 2010	40
Jan 18, 2010	40	Jan 18, 2010	25	Aug 03, 2015	87	Jan 18, 2010	1200	Jan 18, 2010	40	Jan 18, 2010	1600	Jan 18, 2010	150
Jan 26, 2010	30	Jan 26, 2010	20	Aug 17, 2015	42	Jan 26, 2010	2000	Jan 26, 2010	30	Jan 26, 2010	1500	Jan 26, 2010	250
Feb 01, 2010	0	Feb 01, 2010	18	Sep 14, 2015	88	Feb 01, 2010	960	Feb 01, 2010	30	Feb 01, 2010	2900	Feb 01, 2010	60
Feb 08, 2010	0	Feb 08, 2010	22	Oct 05, 2015	41	Feb 08, 2010	700	Feb 08, 2010	20	Feb 08, 2010	1500	Feb 08, 2010	230
Feb 15, 2010	0	Feb 15, 2010	17	Oct 19, 2015	41	Feb 15, 2010	2200	Feb 15, 2010	40	Feb 15, 2010	2800	Feb 15, 2010	90
Feb 22, 2010	0	Feb 22, 2010	20	Nov 16, 2015	57	Feb 22, 2010	800	Feb 22, 2010	30	Feb 22, 2010	920	Feb 22, 2010	100
Mar 01, 2010	30	Mar 01, 2010	22	Dec 07, 2015	80	Mar 01, 2010	1340	Mar 01, 2010	20	Mar 01, 2010	1200	Mar 01, 2010	60
Mar 08, 2010	0	Mar 08, 2010	15	Jan 18, 2016	95	Mar 08, 2010	600	Mar 08, 2010	20	Mar 08, 2010	3700	Mar 08, 2010	230
Mar 15, 2010	0	Mar 15, 2010	22	Feb 01, 2016	96	Mar 15, 2010	500	Mar 15, 2010	40	Mar 15, 2010	2600	Mar 15, 2010	90
Mar 22, 2010	0	Mar 22, 2010	18	Mar 01, 2016	92	Mar 22, 2010	800	Mar 22, 2010	30	Mar 22, 2010	22000	Mar 22, 2010	100
Mar 29, 2010	0	Mar 29, 2010	18	Apr 05, 2016	95	Mar 29, 2010	1000	Mar 29, 2010	40	Mar 29, 2010	680	Apr 05, 2010	260

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DSN 001-1 DMR Data: January 2008-June 2018

Aluminum		Chlorine, TR		Chloroform		Fluoride		Iron		Nitrogen, Ammonia		Tin	
DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L
Apr 05, 2010	20	Apr 05, 2010	20	May 03, 2016	149	Apr 05, 2010	1200	Apr 05, 2010	30	Apr 05, 2010	620	Apr 12, 2010	260
Apr 12, 2010	0	Apr 12, 2010	18	Jun 06, 2016	46	Apr 12, 2010	2000	Apr 12, 2010	30	Apr 12, 2010	1200	Apr 19, 2010	640
Apr 19, 2010	30	Apr 19, 2010	17	Jul 19, 2016	83	Apr 19, 2010	2400	Apr 19, 2010	40	Apr 19, 2010	2000	Apr 26, 2010	420
Apr 26, 2010	20	Apr 26, 2010	23	Jul 29, 2016	70	Apr 26, 2010	1100	Apr 26, 2010	20	Apr 26, 2010	840	May 03, 2010	230
May 03, 2010	20	May 03, 2010	15	Aug 29, 2016	35	May 03, 2010	2300	May 03, 2010	30	May 03, 2010	900	May 10, 2010	100
May 10, 2010	0	May 10, 2010	22	Sep 12, 2016	86	May 10, 2010	1000	May 10, 2010	20	May 10, 2010	480	May 17, 2010	40
May 17, 2010	0	May 17, 2010	22	Oct 19, 2016	46	May 17, 2010	600	May 17, 2010	40	May 17, 2010	740	May 24, 2010	70
May 24, 2010	40	May 24, 2010	17	Nov 21, 2016	36	May 24, 2010	1100	May 24, 2010	30	May 24, 2010	1060	Jun 01, 2010	450
Jun 01, 2010	0	Jun 01, 2010	20	Dec 06, 2016	102	Jun 01, 2010	440	Jun 01, 2010	40	Jun 01, 2010	2200	Jun 07, 2010	120
Jun 07, 2010	0	Jun 07, 2010	28	Jan 10, 2017	166	Jun 07, 2010	600	Jun 07, 2010	30	Jun 07, 2010	3400	Jun 14, 2010	200
Jun 14, 2010	30	Jun 14, 2010	17	Feb 06, 2017	102	Jun 14, 2010	2200	Jun 14, 2010	20	Jun 14, 2010	2500	Jun 21, 2010	350
Jun 21, 2010	0	Jun 21, 2010	20	Mar 07, 2017	89	Jun 21, 2010	600	Jun 21, 2010	20	Jun 21, 2010	2200	Jun 28, 2010	110
Jun 28, 2010	0	Jun 28, 2010	20	Apr 04, 2017	54	Jun 28, 2010	1500	Jun 28, 2010	30	Jun 28, 2010	2800	Jul 13, 2010	0
Jul 13, 2010	0	Jul 13, 2010	18	May 02, 2017	133	Jul 13, 2010	1240	Jul 13, 2010	20	Jul 13, 2010	3300	Jul 19, 2010	60
Jul 19, 2010	20	Jul 19, 2010	17	Jun 06, 2017	69	Jul 19, 2010	1200	Jul 19, 2010	40	Jul 19, 2010	950	Jul 26, 2010	40
Jul 26, 2010	30	Jul 26, 2010	20	Jul 11, 2017	16	Jul 26, 2010	4500	Jul 26, 2010	30	Jul 26, 2010	1400	Aug 02, 2010	0
Aug 02, 2010	30	Aug 02, 2010	20	Aug 01, 2017	18	Aug 02, 2010	9250	Aug 02, 2010	40	Aug 02, 2010	1200	Aug 09, 2010	80
Aug 09, 2010	0	Aug 09, 2010	17	Sep 05, 2017	62	Aug 09, 2010	2300	Aug 09, 2010	30	Aug 09, 2010	2300	Aug 16, 2010	140
Aug 16, 2010	0	Aug 16, 2010	22	Oct 03, 2017	30	Aug 16, 2010	4000	Aug 16, 2010	30	Aug 16, 2010	2100	Aug 23, 2010	120
Aug 23, 2010	80	Aug 23, 2010	22	Nov 21, 2017	54	Aug 23, 2010	1300	Aug 23, 2010	30	Aug 23, 2010	2800	Aug 30, 2010	360
Aug 30, 2010	0	Aug 30, 2010	22	Dec 05, 2017	96	Aug 30, 2010	1680	Aug 30, 2010	30	Aug 30, 2010	940	Sep 07, 2010	270
Sep 07, 2010	0	Sep 07, 2010	18	Jan 04, 2018	76	Sep 07, 2010	5600	Sep 07, 2010	40	Sep 07, 2010	1300	Sep 13, 2010	230
Sep 13, 2010	0	Sep 13, 2010	17	Feb 06, 2018	43	Sep 13, 2010	2800	Sep 13, 2010	30	Sep 13, 2010	3300	Sep 20, 2010	120
Sep 20, 2010	0	Sep 20, 2010	17	Mar 06, 2018	34	Sep 20, 2010	1600	Sep 20, 2010	20	Sep 20, 2010	2800	Sep 27, 2010	310
Sep 27, 2010	30	Sep 27, 2010	20	Apr 03, 2018	24	Sep 27, 2010	1500	Sep 27, 2010	40	Sep 27, 2010	1900	Oct 04, 2010	130
Oct 04, 2010	20	Oct 04, 2010	20	May 01, 2018	26	Oct 04, 2010	2000	Oct 04, 2010	30	Oct 04, 2010	1900	Oct 11, 2010	390
Oct 11, 2010	0	Oct 11, 2010	17	Jun 05, 2018	62	Oct 11, 2010	3800	Oct 11, 2010	40	Oct 11, 2010	1200	Oct 18, 2010	180
Oct 18, 2010	0	Oct 18, 2010	22			Oct 18, 2010	2300	Oct 18, 2010	20	Oct 18, 2010	1100	Oct 25, 2010	150
Oct 25, 2010	0	Oct 25, 2010	20			Oct 25, 2010	1400	Oct 25, 2010	30	Oct 25, 2010	1300	Nov 01, 2010	180
Nov 01, 2010	60	Nov 01, 2010	18			Nov 01, 2010	1680	Nov 01, 2010	20	Nov 01, 2010	350	Nov 08, 2010	580
Nov 08, 2010	70	Nov 08, 2010	15			Nov 08, 2010	1540	Nov 08, 2010	40	Nov 08, 2010	4500	Nov 15, 2010	180
Nov 15, 2010	0	Nov 15, 2010	25			Nov 15, 2010	9000	Nov 15, 2010	30	Nov 15, 2010	3600	Nov 22, 2010	80
Nov 22, 2010	0	Nov 22, 2010	18			Nov 22, 2010	3700	Nov 22, 2010	40	Nov 22, 2010	2600	Nov 29, 2010	320
Nov 29, 2010	0	Nov 29, 2010	18			Nov 29, 2010	2440	Nov 29, 2010	20	Nov 29, 2010	2100	Dec 06, 2010	300
Dec 06, 2010	0	Dec 06, 2010	18			Dec 06, 2010	4850	Dec 06, 2010	30	Dec 06, 2010	3200	Dec 13, 2010	340
Dec 13, 2010	0	Dec 13, 2010	17			Dec 13, 2010	1600	Dec 13, 2010	40	Dec 13, 2010	1800	Dec 20, 2010	160
Dec 20, 2010	0	Dec 20, 2010	18			Dec 20, 2010	2300	Dec 20, 2010	30	Dec 20, 2010	3900	Dec 27, 2010	310
Dec 27, 2010	20	Dec 27, 2010	17			Dec 27, 2010	4400	Dec 27, 2010	40	Dec 27, 2010	3500	Jan 03, 2011	130
Jan 03, 2011	0	Jan 03, 2011	22			Jan 03, 2011	2320	Jan 03, 2011	40	Jan 03, 2011	640	Jan 10, 2011	190
Jan 10, 2011	60	Jan 10, 2011	20			Jan 10, 2011	4530	Jan 10, 2011	30	Jan 10, 2011	2800	Jan 17, 2011	220
Jan 17, 2011	0	Jan 17, 2011	20			Jan 17, 2011	4440	Jan 17, 2011	30	Jan 17, 2011	4700	Jan 24, 2011	160
Jan 24, 2011	0	Jan 24, 2011	25			Jan 24, 2011	3300	Jan 24, 2011	40	Jan 24, 2011	5100	Jan 31, 2011	190
Jan 31, 2011	0	Jan 31, 2011	17			Jan 31, 2011	2000	Jan 31, 2011	40	Jan 31, 2011	5600	Feb 07, 2011	110
Feb 07, 2011	0	Feb 07, 2011	20			Feb 07, 2011	4000	Feb 07, 2011	30	Feb 07, 2011	4600	Feb 14, 2011	0
Feb 14, 2011	20	Feb 14, 2011	22			Feb 14, 2011	1600	Feb 14, 2011	40	Feb 14, 2011	3500	Feb 21, 2011	80
Feb 21, 2011	0	Feb 21, 2011	23			Feb 21, 2011	1800	Feb 21, 2011	20	Feb 21, 2011	2600	Feb 28, 2011	120
Feb 28, 2011	0	Feb 28, 2011	27			Feb 28, 2011	2400	Feb 28, 2011	40	Feb 28, 2011	4500	Mar 07, 2011	170
Mar 07, 2011	30	Mar 07, 2011	25			Mar 07, 2011	1520	Mar 07, 2011	30	Mar 07, 2011	1850	Mar 14, 2011	560
Mar 14, 2011	20	Mar 14, 2011	18			Mar 14, 2011	1500	Mar 14, 2011	20	Mar 14, 2011	2300	Mar 21, 2011	330
Mar 21, 2011	0	Mar 21, 2011	20			Mar 21, 2011	2100	Mar 21, 2011	40	Mar 21, 2011	3800	Mar 28, 2011	230
Mar 28, 2011	0	Mar 28, 2011	15			Mar 28, 2011	500	Mar 28, 2011	40	Mar 28, 2011	2800	Apr 04, 2011	240
Apr 04, 2011	0	Apr 04, 2011	20			Apr 04, 2011	10500	Apr 04, 2011	30	Apr 04, 2011	6800	Apr 11, 2011	190
Apr 11, 2011	0	Apr 11, 2011	20			Apr 11, 2011	1200	Apr 11, 2011	40	Apr 11, 2011	4400	Apr 18, 2011	50
Apr 18, 2011	0	Apr 18, 2011	22			Apr 18, 2011	11000	Apr 18, 2011	20	Apr 18, 2011	5800	Apr 25, 2011	90
Apr 25, 2011	0	Apr 25, 2011	20			Apr 25, 2011	2300	Apr 25, 2011	30	Apr 25, 2011	3200	May 02, 2011	320
May 02, 2011	20	May 02, 2011	20			May 02, 2011	1460	May 02, 2011	40	May 02, 2011	4700	May 09, 2011	100
May 09, 2011	0	May 09, 2011	18			May 09, 2011	5300	May 09, 2011	20	May 09, 2011	2700	May 16, 2011	200
May 16, 2011	30	May 16, 2011	20			May 16, 2011	820	May 16, 2011	30	May 16, 2011	1600	May 23, 2011	250
May 23, 2011	0	May 23, 2011	15			May 23, 2011	1000	May 23, 2011	40	May 23, 2011	1500	May 31, 2011	280
May 31, 2011	0	May 31, 2011	18			May 31, 2011	570	May 31, 2011	40	May 31, 2011	8200	Jun 06, 2011	80
Jun 06, 2011	0	Jun 06, 2011	20			Jun 06, 2011	770	Jun 06, 2011	20	Jun 06, 2011	2050	Jun 13, 2011	160
Jun 13, 2011	0	Jun 13, 2011	20			Jun 13, 2011	930	Jun 13, 2011	30	Jun 13, 2011	680	Jun 21, 2011	70
Jun 21, 2011	0	Jun 21, 2011	15			Jun 21, 2011	740	Jun 21, 2011	40	Jun 21, 2011	1900	Jun 27, 2011	90
Jun 27, 2011	0	Jun 27, 2011	18			Jun 27, 2011	730	Jun 27, 2011	40	Jun 27, 2011	900	Jul 11, 2011	0
Jul 11, 2011	0	Jul 11, 2011	15			Jul 11, 2011	1250	Jul 11, 2011	40	Jul 11, 2011	320	Jul 18, 2011	180
Jul 18, 2011	20	Jul 18, 2011	17			Jul 18, 2011	800	Jul 18, 2011	30	Jul 18, 2011	300	Jul 25, 2011	0
Jul 25, 2011	0	Jul 25, 2011	17			Jul 25, 2011	600	Jul 25, 2011	20	Jul 25, 2011	330	Aug 01, 2011	100
Aug 01, 2011	0	Aug 01, 2011	20			Aug 01, 2011	2200	Aug 01, 2011	30	Aug 01, 2011	10000	Aug 08, 2011	80
Aug 08, 2011	0	Aug 08, 2011	18			Aug 08, 2011	1000	Aug 08, 2011	30	Aug 08, 2011	580	Aug 15, 2011	140
Aug 15, 2011	0	Aug 15, 2011	20			Aug 15, 2011	400	Aug 15, 2011	20	Aug 15, 2011	580	Aug 22, 2011	110
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Aug 29, 2011	0	Aug 29, 2011	18			Aug 29, 2011	1080	Aug 29, 2011	40	Aug 29, 2011	1700	Sep 06, 2011	230
Sep 06, 2011	20	Sep 06, 2011	17			Sep 06, 2011	740	Sep 06, 2011	20	Sep 06, 2011	1820	Sep 12, 2011	80
Sep 12, 2011	0	Sep 12, 2011	20			Sep 12, 2011	900	Sep 12, 2011	30	Sep 12, 2011	980	Sep 19, 2011	70
Sep 19, 2011	0	Sep 19, 2011	18			Sep 19, 2011	500	Sep 19, 2011	40	Sep 19, 2011	1450	Sep 26, 2011	50
Sep 26, 2011	0	Sep 26, 2011	18			Sep 26, 2011	800	Sep 26, 2011	20	Sep 26, 2011	1530	Oct 03, 2011	0
Oct 03, 2011	0	Oct 03, 2011	18			Oct 03, 2011	1170	Oct 03, 2011	40	Oct 03, 2011	2100	Oct 10, 2011	70
Oct 10, 2011	0	Oct 10, 2011	15			Oct 10, 2011	700	Oct 10, 2011	20	Oct 10, 2011	960	Oct 17, 2011	80
Oct 17, 2011	50	Oct 17, 2011	18			Oct 17, 2011	500	Oct 17, 2011	40	Oct 17, 2011	2100	Oct 24, 2011	170
Oct 24, 2011	0	Oct 24, 2011	22			Oct 24, 2011	500	Oct 24, 2011	50	Oct 24, 2011	1800	Nov 07, 2011	190
Nov 07, 2011	0	Nov 07, 2011	17			Nov 07, 2011	520	Nov 07, 2011	40	Nov 07, 2011	1540	Nov 14, 2011	220
Nov 14, 2011	20	Nov 14, 2011	17			Nov 14, 2011	1400	Nov 14, 2011	40	Nov 14, 2011	2100	Nov 21, 2011	90
Nov 21, 2011	0	Nov 21, 2011	13			Nov 21, 2011	1200	Nov 21, 2011	30	Nov 21, 2011	2600	Nov 28, 2011	0
Nov 28, 2011	0	Nov 28, 2011	17			Nov 28, 2011	700	Nov 28, 2011	40	Nov 28, 2011	1330	Dec 05, 2011	140
Dec 05, 2011	30	Dec 05, 2011	22			Dec 05, 2011	780	Dec 05, 2011	30	Dec 05, 2011	2150	Dec 12, 2011	200
Dec 12, 2011	20	Dec 12, 2011	20			Dec 12, 2011	900	Dec 12, 2011	20	Dec 12, 2011	2400	Dec 19, 2011	190
Dec 19, 2011	230	Dec 19, 2011	20			Dec 19, 2011	400	Dec 19, 2011	20	Dec 19, 2011	2300	Jan 02, 2012	70
Jan 02, 2012	20	Jan 02, 2012	22			Jan 02, 2012	860	Jan 02, 2012	30	Jan 02, 2012	1800	Jan 09, 2012	160
Jan 09, 2012	20	Jan 09, 2012	20			Jan 09, 2012	3600	Jan 09, 2012	30	Jan 09, 2012	5800	Jan 16, 2012	110
Jan 16, 2012	0	Jan 16, 2012	20			Jan 16, 2012	1400	Jan 16, 2012	20	Jan 16, 2012	2000	Jan 23, 2012	80
Jan 23, 2012	0	Jan 23, 2012	25			Jan 23, 2012	1100	Jan 23, 2012	20	Jan 23, 2012	3100	Jan 30, 2012	240
Jan 30, 2012	0	Jan 30, 2012	17			Jan 30, 2012	850	Jan 30, 2012	20	Jan 30, 2012	980	Feb 06, 2012	240
Feb 06, 2012	0	Feb 06, 2012	15			Feb 06, 2012	790	Feb 06, 2012	20	Feb 06, 2012	1270	Feb 13, 2012	170
Feb 13, 2012	0	Feb 13, 2012	13			Feb 13, 2012	1200	Feb 13, 2012	30	Feb 13, 2012	1860	Feb 20, 2012	140
Feb 20, 2012	0	Feb 20, 2012	15			Feb 20, 2012	700	Feb 20, 2012	20	Feb 20, 2012	2600	Feb 27, 2012	420
Feb 27, 2012	0	Feb 27, 2012	15			Feb 27, 2012	500	Feb 27, 2012	40	Feb 27, 2012	1550	Mar 05, 2012	240
Mar 05, 2012	20	Mar 05, 2012	23			Mar 05, 2012	1050	Mar 05, 2012	20	Mar 05, 2012	2100	Mar 12, 2012	410
Mar 12, 2012	30	Mar 12, 2012	20			Mar 12, 2012	2900	Mar 12, 2012	40	Mar 12, 2012	2700	Mar 19, 2012	250
Mar 19, 2012	20	Mar 19, 2012	18			Mar 19, 2012	2100	Mar 19, 2012	20	Mar 19, 2012	3100	Mar 26, 2012	170
Mar 26, 2012	0	Mar 26, 2012	25			Mar 26, 2012	700	Mar 26, 2012	30	Mar 26, 2012	1450	Apr 02, 2012	170
Apr 02, 2012	0	Apr 02, 2012	20			Apr 02, 2012	820	Apr 02, 2012	40	Apr 02, 2012	1460	Apr 09, 2012	100
Apr 09, 2012	0	Apr 09, 2012	20			Apr 09, 2012	700	Apr 09, 2012	40	Apr 09, 2012	4800	Apr 16, 2012	170
Apr 16, 2012	30	Apr 16, 2012	17			Apr 16, 2012	600	Apr 16, 2012	20	Apr 16, 2012	3300	Apr 23, 2012	80
Apr 23, 2012	0	Apr 23, 2012	17			Apr 23, 2012	900	Apr 23, 2012	30	Apr 23, 2012	1660	Apr 30, 2012	100
Apr 30, 2012	0	Apr 30, 2012	13			Apr 30, 2012	650	Apr 30, 2012	20	Apr 30, 2012	2600	May 07, 2012	110
May 07, 2012	30	May 07, 2012	15			May 07, 2012	2100	May 07, 2012	30	May 07, 2012	2500	May 14, 2012	70
May 14, 2012	20	May 14, 2012	17			May 14, 2012	4400	May 14, 2012	30	May 14, 2012	3050	May 21, 2012	70
May 21, 2012	0	May 21, 2012	17			May 21, 2012	1100	May 21, 2012	30	May 21, 2012	2320	May 29, 2012	180
May 29, 2012	20	May 29, 2012	18			May 29, 2012	800	May 29, 2012	30	May 29, 2012	2200	Jun 04, 2012	70
Jun 04, 2012	0	Jun 04, 2012	18			Jun 04, 2012	1050	Jun 04, 2012	40	Jun 04, 2012	2050	Jun 11, 2012	110
Jun 11, 2012	0	Jun 11, 2012	17			Jun 11, 2012	1000	Jun 11, 2012	30	Jun 11, 2012	850	Jun 18, 2012	130

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DSN 001-1 DMR Data: January 2008-June 2018

Aluminum		Chlorine, TR		Chloroform		Fluoride		Iron		Nitrogen, Ammonia		Tin	
DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L
Jun 18, 2012	0	Jun 18, 2012	20			Jun 18, 2012	500	Jun 18, 2012	20	Jun 18, 2012	2200	Jun 25, 2012	100
Jun 25, 2012	0	Jun 25, 2012	18			Jun 25, 2012	1400	Jun 25, 2012	40	Jun 25, 2012	1520	Jul 16, 2012	120
Jul 16, 2012	90	Jul 16, 2012	15			Jul 16, 2012	720	Jul 16, 2012	20	Jul 16, 2012	2200	Jul 23, 2012	0
Jul 23, 2012	20	Jul 23, 2012	17			Jul 23, 2012	600	Jul 23, 2012	30	Jul 23, 2012	6500	Jul 30, 2012	90
Jul 30, 2012	0	Jul 30, 2012	17			Jul 30, 2012	400	Jul 30, 2012	40	Jul 30, 2012	3350	Aug 06, 2012	190
Aug 06, 2012	0	Aug 06, 2012	22			Aug 06, 2012	580	Aug 06, 2012	20	Aug 06, 2012	2000	Aug 13, 2012	170
Aug 13, 2012	0	Aug 13, 2012	25			Aug 13, 2012	500	Aug 13, 2012	30	Aug 13, 2012	2400	Aug 20, 2012	260
Aug 20, 2012	0	Aug 20, 2012	22			Aug 20, 2012	400	Aug 20, 2012	40	Aug 20, 2012	1420	Aug 27, 2012	170
Aug 27, 2012	20	Aug 27, 2012	17			Aug 27, 2012	500	Aug 27, 2012	30	Aug 27, 2012	4400	Sep 04, 2012	140
Sep 04, 2012	0	Sep 04, 2012	15			Sep 04, 2012	370	Sep 04, 2012	40	Sep 04, 2012	1800	Sep 10, 2012	270
Sep 10, 2012	20	Sep 10, 2012	17			Sep 10, 2012	800	Sep 10, 2012	30	Sep 10, 2012	960	Sep 17, 2012	150
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Nov 05, 2012	260	Nov 05, 2012	22			Nov 05, 2012	560	Nov 05, 2012	20	Nov 05, 2012	1560	Nov 12, 2012	170
Nov 12, 2012	0	Nov 12, 2012	25			Nov 12, 2012	500	Nov 12, 2012	10	Nov 12, 2012	2700	Nov 19, 2012	330
Nov 19, 2012	20	Nov 19, 2012	15			Nov 19, 2012	700	Nov 19, 2012	30	Nov 19, 2012	5000	Nov 26, 2012	250
Nov 26, 2012	0	Nov 26, 2012	18			Nov 26, 2012	700	Nov 26, 2012	30	Nov 26, 2012	1600	Dec 03, 2012	180
Dec 03, 2012	0	Dec 03, 2012	15			Dec 03, 2012	720	Dec 03, 2012	40	Dec 03, 2012	3400	Dec 10, 2012	180
Dec 10, 2012	0	Dec 10, 2012	20			Dec 10, 2012	800	Dec 10, 2012	40	Dec 10, 2012	3400	Dec 17, 2012	130
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Feb 04, 2013	0	Feb 04, 2013	20			Feb 04, 2013	580	Feb 04, 2013	30	Feb 04, 2013	3300	Feb 11, 2013	60
Feb 11, 2013	20	Feb 11, 2013	17			Feb 11, 2013	12500	Feb 11, 2013	40	Feb 11, 2013	2800	Feb 18, 2013	160
Feb 18, 2013	20	Feb 18, 2013	17			Feb 18, 2013	2500	Feb 18, 2013	30	Feb 18, 2013	3300	Feb 25, 2013	120
Feb 25, 2013	0	Feb 25, 2013	15			Feb 25, 2013	8600	Feb 25, 2013	30	Feb 25, 2013	2700	Mar 04, 2013	100
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Mar 11, 2013	0	Mar 11, 2013	18			Mar 11, 2013	800	Mar 11, 2013	30	Mar 11, 2013	3200	Mar 18, 2013	130
Mar 18, 2013	0	Mar 18, 2013	22			Mar 18, 2013	1100	Mar 18, 2013	30	Mar 18, 2013	760	Mar 25, 2013	80
Mar 25, 2013	0	Mar 25, 2013	15			Mar 25, 2013	1700	Mar 25, 2013	40	Mar 25, 2013	4100	Apr 01, 2013	80
Apr 01, 2013	0	Apr 01, 2013	18			Apr 01, 2013	1030	Apr 01, 2013	20	Apr 01, 2013	2050	Apr 08, 2013	110
Apr 08, 2013	0	Apr 08, 2013	22			Apr 08, 2013	4200	Apr 08, 2013	20	Apr 08, 2013	3100	Apr 15, 2013	110
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Apr 22, 2013	0	Apr 22, 2013	22			Apr 22, 2013	1300	Apr 22, 2013	30	Apr 22, 2013	3100	Apr 29, 2013	260
Apr 29, 2013	0	Apr 29, 2013	18			Apr 29, 2013	1250	Apr 29, 2013	40	Apr 29, 2013	3500	May 06, 2013	130
May 06, 2013	0	May 06, 2013	17			May 06, 2013	880	May 06, 2013	30	May 06, 2013	2200	May 13, 2013	80
May 13, 2013	0	May 13, 2013	13			May 13, 2013	1400	May 13, 2013	20	May 13, 2013	3020	May 20, 2013	410
May 20, 2013	0	May 20, 2013	17			May 20, 2013	2400	May 20, 2013	40	May 20, 2013	1500	May 28, 2013	180
May 28, 2013	0	May 28, 2013	12			May 28, 2013	800	May 28, 2013	20	May 28, 2013	2800	Jun 03, 2013	80
Jun 03, 2013	20	Jun 03, 2013	18			Jun 03, 2013	420	Jun 03, 2013	40	Jun 03, 2013	2450	Jun 10, 2013	70
Jun 10, 2013	20	Jun 10, 2013	20			Jun 10, 2013	400	Jun 10, 2013	40	Jun 10, 2013	4700	Jun 17, 2013	50
Jun 17, 2013	0	Jun 17, 2013	18			Jun 17, 2013	1900	Jun 17, 2013	20	Jun 17, 2013	500	Jun 24, 2013	30
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Jul 29, 2013	0	Jul 29, 2013	18			Jul 29, 2013	1700	Jul 29, 2013	20	Jul 29, 2013	1460	Aug 05, 2013	230
Aug 05, 2013	0	Aug 05, 2013	20			Aug 05, 2013	530	Aug 05, 2013	40	Aug 05, 2013	1800	Aug 12, 2013	250
Aug 12, 2013	0	Aug 12, 2013	17			Aug 12, 2013	600	Aug 12, 2013	40	Aug 12, 2013	1200	Aug 19, 2013	90
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Sep 09, 2013	0	Sep 09, 2013	17			Sep 09, 2013	500	Sep 09, 2013	40	Sep 09, 2013	2600	Sep 16, 2013	320
Sep 16, 2013	0	Sep 16, 2013	18			Sep 16, 2013	500	Sep 16, 2013	30	Sep 16, 2013	2200	Sep 23, 2013	110
Sep 23, 2013	0	Sep 23, 2013	13			Sep 23, 2013	400	Sep 23, 2013	20	Sep 23, 2013	1500	Sep 30, 2013	110
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Oct 21, 2013	0	Oct 21, 2013	20			Oct 21, 2013	1600	Oct 21, 2013	30	Oct 21, 2013	4100	Oct 28, 2013	150
Oct 28, 2013	0	Oct 28, 2013	18			Oct 28, 2013	2700	Oct 28, 2013	30	Oct 28, 2013	3000	Nov 04, 2013	170
Nov 04, 2013	20	Nov 04, 2013	18			Nov 04, 2013	2500	Nov 04, 2013	20	Nov 04, 2013	3100	Nov 11, 2013	300
Nov 11, 2013	0	Nov 11, 2013	13			Nov 11, 2013	1000	Nov 11, 2013	30	Nov 11, 2013	3500	Nov 18, 2013	210
Nov 18, 2013	0	Nov 18, 2013	17			Nov 18, 2013	800	Nov 18, 2013	30	Nov 18, 2013	800	Nov 25, 2013	250
Nov 25, 2013	0	Nov 25, 2013	18			Nov 25, 2013	1000	Nov 25, 2013	40	Nov 25, 2013	4600	Dec 02, 2013	130
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Jan 06, 2014	0	Jan 06, 2014	17			Jan 06, 2014	820	Jan 06, 2014	30	Jan 06, 2014	1000	Jan 13, 2014	40
Jan 13, 2014	0	Jan 13, 2014	18			Jan 13, 2014	1000	Jan 13, 2014	20	Jan 13, 2014	2600	Jan 20, 2014	160
Jan 20, 2014	20	Jan 20, 2014	17			Jan 20, 2014	1100	Jan 20, 2014	20	Jan 20, 2014	6500	Jan 27, 2014	180
Jan 27, 2014	0	Jan 27, 2014	25			Jan 27, 2014	600	Jan 27, 2014	40	Jan 27, 2014	1400	Feb 03, 2014	160
Feb 03, 2014	0	Feb 03, 2014	22			Feb 03, 2014	1250	Feb 03, 2014	30	Feb 03, 2014	1700	Feb 10, 2014	170
Feb 10, 2014	0	Feb 10, 2014	28			Feb 10, 2014	1200	Feb 10, 2014	30	Feb 10, 2014	6500	Feb 17, 2014	200
Feb 17, 2014	30	Feb 17, 2014	18			Feb 17, 2014	1100	Feb 17, 2014	20	Feb 17, 2014	2000	Feb 24, 2014	280
Feb 24, 2014	50	Feb 24, 2014	15			Feb 24, 2014	1700	Feb 24, 2014	20	Feb 24, 2014	2000	Mar 03, 2014	340
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Mar 10, 2014	40	Mar 10, 2014	13			Mar 10, 2014	6800	Mar 10, 2014	40	Mar 10, 2014	1500	Mar 17, 2014	620
Mar 17, 2014	40	Mar 17, 2014	17			Mar 17, 2014	28000	Mar 17, 2014	30	Mar 17, 2014	8000	Mar 24, 2014	370
Mar 24, 2014	30	Mar 24, 2014	17			Mar 24, 2014	2800	Mar 24, 2014	20	Mar 24, 2014	3200	Mar 31, 2014	70
Mar 31, 2014	0	Mar 31, 2014	17			Mar 31, 2014	3420	Mar 31, 2014	30	Mar 31, 2014	3500	Apr 07, 2014	130
Apr 07, 2014	40	Apr 07, 2014	20			Apr 07, 2014	2620	Apr 07, 2014	20	Apr 07, 2014	1200	Apr 14, 2014	520
Apr 14, 2014	90	Apr 14, 2014	22			Apr 14, 2014	5300	Apr 14, 2014	20	Apr 14, 2014	3500	Apr 21, 2014	110
Apr 21, 2014	0	Apr 21, 2014	30			Apr 21, 2014	8000	Apr 21, 2014	30	Apr 21, 2014	2700	Apr 28, 2014	90
Apr 28, 2014	0	Apr 28, 2014	25			Apr 28, 2014	3800	Apr 28, 2014	30	Apr 28, 2014	4300	May 05, 2014	40
May 05, 2014	0	May 05, 2014	25			May 05, 2014	1980	May 05, 2014	30	May 05, 2014	800	May 12, 2014	80
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Jun 09, 2014	0	Jun 09, 2014	27			Jun 09, 2014	2500	Jun 09, 2014	20	Jun 09, 2014	2500	Jun 16, 2014	130
Jun 16, 2014	0	Jun 16, 2014	13			Jun 16, 2014	1900	Jun 16, 2014	30	Jun 16, 2014	4500	Jun 23, 2014	90
Jun 23, 2014	0	Jun 23, 2014	28			Jun 23, 2014	1900	Jun 23, 2014	20	Jun 23, 2014	3000	Jul 08, 2014	380
Jul 08, 2014	0	Jul 08, 2014	25			Jul 08, 2014	4800	Jul 08, 2014	0	Jul 08, 2014	4500	Jul 14, 2014	340
Jul 14, 2014	0	Jul 14, 2014	17			Jul 14, 2014	1800	Jul 14, 2014	0	Jul 14, 2014	4500	Jul 21, 2014	140
Jul 21, 2014	0	Jul 21, 2014	28			Jul 21, 2014	2500	Jul 21, 2014	20	Jul 21, 2014	3500	Jul 28, 2014	120
Jul 28, 2014	0	Jul 28, 2014	15			Jul 28, 2014	3400	Jul 28, 2014	10	Jul 28, 2014	2800	Aug 04, 2014	60
Aug 04, 2014	0	Aug 04, 2014	18			Aug 04, 2014	3400	Aug 04, 2014	0	Aug 04, 2014	5600	Aug 11, 2014	130
Aug 11, 2014	0	Aug 11, 2014	23			Aug 11, 2014	3800	Aug 11, 2014	20	Aug 11, 2014	3400	Aug 18, 2014	0
Aug 18, 2014	0	Aug 18, 2014	15			Aug 18, 2014	4300	Aug 18, 2014	30	Aug 18, 2014	4100	Aug 25, 2014	0
Aug 25, 2014	40	Aug 25, 2014	20			Aug 25, 2014	5900	Aug 25, 2014	0	Aug 25, 2014	3700	Sep 02, 2014	130
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Sep 15, 2014	20	Sep 15, 2014	22			Sep 15, 2014	1500	Sep 15, 2014	30	Sep 15, 2014	4400	Sep 22, 2014	100
Sep 22, 2014	0	Sep 22, 2014	17			Sep 22, 2014	2400	Sep 22, 2014	20	Sep 22, 2014	2560	Sep 29, 2014	200
Sep 29, 2014	0	Sep 29, 2014	18			Sep 29, 2014	880	Sep 29, 2014	60	Sep 29, 2014	5800	Oct 06, 2014	180
Oct 06, 2014	0	Oct 06, 2014	22			Oct 06, 2014	730	Oct 06, 2014	30	Oct 06, 2014	3500	Oct 13, 2014	250
Oct 13, 2014	30	Oct 13, 2014	18			Oct 13, 2014	1000	Oct 13, 2014	30	Oct 13, 2014	510	Oct 20, 2014	330
Oct 20, 2014	30	Oct 20, 2014	25			Oct 20, 2014	3700	Oct 20, 2014	30	Oct 20, 2014	2700	Oct 27, 2014	300

ATTACHMENT 13

Summit Corporation of America

Reasonable Potential Evaluation: Data Summary

DSN 001-1 DMR Data: January 2008-June 2018

Aluminum		Chlorine, TR		Chloroform		Fluoride		Iron		Nitrogen, Ammonia		Tin	
DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L
Oct 27, 2014	20	Oct 27, 2014	15			Oct 27, 2014	3100	Oct 27, 2014	50	Oct 27, 2014	2700	Nov 03, 2014	250
Nov 03, 2014	30	Nov 03, 2014	23			Nov 03, 2014	4700	Nov 03, 2014	40	Nov 03, 2014	13000	Nov 10, 2014	170
Nov 10, 2014	1	Nov 10, 2014	25			Nov 10, 2014	1400	Nov 10, 2014	0	Nov 10, 2014	1000	Nov 17, 2014	240
Nov 17, 2014	0	Nov 17, 2014	15			Nov 17, 2014	1600	Nov 17, 2014	30	Nov 17, 2014	5100	Nov 24, 2014	160
Nov 24, 2014	0	Nov 24, 2014	17			Nov 24, 2014	1500	Nov 24, 2014	50	Nov 24, 2014	1000	Dec 01, 2014	240
Dec 01, 2014	0	Dec 01, 2014	17			Dec 01, 2014	1200	Dec 01, 2014	30	Dec 01, 2014	1700	Dec 08, 2014	240
Dec 08, 2014	0	Dec 08, 2014	17			Dec 08, 2014	1600	Dec 08, 2014	30	Dec 08, 2014	3600	Dec 15, 2014	260
Dec 15, 2014	0	Dec 15, 2014	18			Dec 15, 2014	14000	Dec 15, 2014	50	Dec 15, 2014	5000	Dec 22, 2014	200
Dec 22, 2014	30	Dec 22, 2014	22			Dec 22, 2014	1400	Dec 22, 2014	20	Dec 22, 2014	1700	Dec 29, 2014	160
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Jan 12, 2015	30	Jan 12, 2015	20			Jan 12, 2015	2400	Jan 12, 2015	20	Jan 12, 2015	3500	Jan 19, 2015	80
Jan 19, 2015	0	Jan 19, 2015	23			Jan 19, 2015	5600	Jan 19, 2015	30	Jan 19, 2015	3200	Jan 28, 2015	69
Jan 28, 2015	0	Jan 28, 2015	18			Jan 28, 2015	1900	Jan 28, 2015	24	Jan 28, 2015	1600	Feb 02, 2015	101
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Feb 09, 2015	0	Feb 09, 2015	27			Feb 09, 2015	1900	Feb 09, 2015	26	Feb 09, 2015	1900	Feb 16, 2015	62
Feb 16, 2015	0	Feb 16, 2015	17			Feb 16, 2015	3100	Feb 16, 2015	24	Feb 16, 2015	3000	Feb 23, 2015	84
Feb 23, 2015	0	Feb 23, 2015	15			Feb 23, 2015	1100	Feb 23, 2015	32	Feb 23, 2015	3200	Mar 02, 2015	82
Mar 02, 2015	0	Mar 02, 2015	20			Mar 02, 2015	1600	Mar 02, 2015	48	Mar 02, 2015	4000	Mar 09, 2015	71
Mar 09, 2015	0	Mar 09, 2015	17			Mar 09, 2015	1300	Mar 09, 2015	31	Mar 09, 2015	6500	Mar 17, 2015	124
Mar 17, 2015	20	Mar 17, 2015	20			Mar 17, 2015	1800	Mar 17, 2015	53	Mar 17, 2015	1900	Mar 23, 2015	46
Mar 23, 2015	0	Mar 23, 2015	15			Mar 23, 2015	1300	Mar 23, 2015	39	Mar 23, 2015	2500	Mar 30, 2015	84
Mar 30, 2015	0	Mar 30, 2015	20			Mar 30, 2015	840	Mar 30, 2015	52	Mar 30, 2015	1000	Apr 06, 2015	27
Apr 06, 2015	0	Apr 06, 2015	25			Apr 06, 2015	1040	Apr 06, 2015	28	Apr 06, 2015	1300	Apr 13, 2015	47
Apr 13, 2015	0	Apr 13, 2015	15			Apr 13, 2015	3600	Apr 13, 2015	0	Apr 13, 2015	1980	Apr 20, 2015	54
Apr 20, 2015	0	Apr 20, 2015	18			Apr 20, 2015	5300	Apr 20, 2015	33	Apr 20, 2015	3000	Apr 27, 2015	55
Apr 27, 2015	0	Apr 27, 2015	17			Apr 27, 2015	1400	Apr 27, 2015	24	Apr 27, 2015	5000	May 04, 2015	41
May 04, 2015	0	May 04, 2015	30			May 04, 2015	2880	May 04, 2015	22	May 04, 2015	4800	May 11, 2015	30
May 11, 2015	0	May 11, 2015	28			May 11, 2015	2400	May 11, 2015	20	May 11, 2015	3300	May 18, 2015	0
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Jun 01, 2015	0	Jun 01, 2015	0			Jun 01, 2015	2740	Jun 01, 2015	40	Jun 01, 2015	1800	Jun 08, 2015	190
Jun 08, 2015	0	Jun 08, 2015	0			Jun 08, 2015	1600	Jun 08, 2015	30	Jun 08, 2015	2100	Jun 15, 2015	60
Jun 15, 2015	0	Jun 15, 2015	0			Jun 15, 2015	1200	Jun 15, 2015	20	Jun 15, 2015	2600	Jun 22, 2015	260
Jun 22, 2015	0	Jun 22, 2015	0			Jun 22, 2015	900	Jun 22, 2015	50	Jun 22, 2015	5900	Jul 08, 2015	80
Jul 08, 2015	0	Jul 08, 2015	22			Jul 08, 2015	1560	Jul 08, 2015	60	Jul 08, 2015	1900	Jul 13, 2015	180
Jul 13, 2015	0	Jul 13, 2015	17			Jul 13, 2015	35500	Jul 13, 2015	45	Jul 13, 2015	6600	Jul 20, 2015	60
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Aug 24, 2015	0	Aug 24, 2015	15			Aug 24, 2015	2600	Aug 24, 2015	20	Aug 24, 2015	5200	Aug 31, 2015	60
Aug 31, 2015	0	Aug 31, 2015	18			Aug 31, 2015	3140	Aug 31, 2015	50	Aug 31, 2015	830	Sep 08, 2015	80
Sep 08, 2015	0	Sep 08, 2015	27			Sep 08, 2015	1460	Sep 08, 2015	60	Sep 08, 2015	1880	Sep 14, 2015	50
Sep 14, 2015	0	Sep 14, 2015	30			Sep 14, 2015	10800	Sep 14, 2015	30	Sep 14, 2015	2400	Sep 21, 2015	90
Sep 21, 2015	0	Sep 21, 2015	37			Sep 21, 2015	1500	Sep 21, 2015	51	Sep 21, 2015	1300	Sep 28, 2015	40
Sep 28, 2015	20	Sep 28, 2015	15			Sep 28, 2015	1100	Sep 28, 2015	50	Sep 28, 2015	3900	Oct 05, 2015	50
Oct 05, 2015	0	Oct 05, 2015	15			Oct 05, 2015	880	Oct 05, 2015	40	Oct 05, 2015	1800	Oct 12, 2015	120
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Nov 09, 2015	0	Nov 09, 2015	17			Nov 09, 2015	1200	Nov 09, 2015	40	Nov 09, 2015	1500	Nov 16, 2015	90
Nov 16, 2015	0	Nov 16, 2015	17			Nov 16, 2015	2000	Nov 16, 2015	40	Nov 16, 2015	1400	Nov 23, 2015	110
Nov 23, 2015	0	Nov 23, 2015	23			Nov 23, 2015	1500	Nov 23, 2015	50	Nov 23, 2015	2000	Nov 30, 2015	36
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Jan 04, 2016	0	Jan 04, 2016	22			Jan 04, 2016	12500	Jan 04, 2016	40	Jan 04, 2016	5400	Jan 11, 2016	110
Jan 11, 2016	20	Jan 11, 2016	25			Jan 11, 2016	3400	Jan 11, 2016	60	Jan 11, 2016	2200	Jan 18, 2016	50
Jan 18, 2016	0	Jan 18, 2016	18			Jan 18, 2016	2400	Jan 18, 2016	40	Jan 18, 2016	2900	Jan 26, 2016	60
Jan 26, 2016	0	Jan 26, 2016	18			Jan 26, 2016	2700	Jan 26, 2016	0	Jan 26, 2016	4400	Feb 01, 2016	0
Feb 01, 2016	0	Feb 01, 2016	13			Feb 01, 2016	1220	Feb 01, 2016	30	Feb 01, 2016	1100	Feb 08, 2016	0
Feb 08, 2016	0	Feb 08, 2016	13			Feb 08, 2016	1500	Feb 08, 2016	20	Feb 08, 2016	2500	Feb 16, 2016	30
Feb 16, 2016	0	Feb 16, 2016	12			Feb 16, 2016	3000	Feb 16, 2016	20	Feb 16, 2016	2000	Feb 22, 2016	30
Feb 22, 2016	0	Feb 22, 2016	12			Feb 22, 2016	2600	Feb 22, 2016	0	Feb 22, 2016	2100	Mar 01, 2016	0
Mar 01, 2016	0	Mar 01, 2016	20			Mar 01, 2016	1660	Mar 01, 2016	20	Mar 01, 2016	2200	Mar 07, 2016	0
Mar 07, 2016	0	Mar 07, 2016	20			Mar 07, 2016	1800	Mar 07, 2016	0	Mar 07, 2016	2000	Mar 14, 2016	0
Mar 14, 2016	0	Mar 14, 2016	20			Mar 14, 2016	2900	Mar 14, 2016	20	Mar 14, 2016	2200	Mar 21, 2016	110
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Apr 05, 2016	0	Apr 05, 2016	17			Apr 05, 2016	2200	Apr 05, 2016	50	Apr 05, 2016	2100	Apr 11, 2016	30
Apr 11, 2016	0	Apr 11, 2016	23			Apr 11, 2016	3700	Apr 11, 2016	30	Apr 11, 2016	3800	Apr 18, 2016	20
Apr 18, 2016	0	Apr 18, 2016	15			Apr 18, 2016	2000	Apr 18, 2016	30	Apr 18, 2016	3600	Apr 25, 2016	30
Apr 25, 2016	60	Apr 25, 2016	17			Apr 25, 2016	2900	Apr 25, 2016	40	Apr 25, 2016	1600	May 03, 2016	0
May 03, 2016	0	May 03, 2016	17			May 03, 2016	3180	May 03, 2016	20	May 03, 2016	3500	May 09, 2016	30
May 09, 2016	0	May 09, 2016	20			May 09, 2016	2400	May 09, 2016	20	May 09, 2016	3500	May 16, 2016	40
May 16, 2016	0	May 16, 2016	17			May 16, 2016	3300	May 16, 2016	130	May 16, 2016	3800	May 23, 2016	0
May 23, 2016	0	May 23, 2016	20			May 23, 2016	1600	May 23, 2016	20	May 23, 2016	3400	May 31, 2016	80
May 31, 2016	30	May 31, 2016	13			May 31, 2016	3320	May 31, 2016	80	May 31, 2016	4300	Jun 06, 2016	50
Jun 06, 2016	0	Jun 06, 2016	17			Jun 06, 2016	2100	Jun 06, 2016	30	Jun 06, 2016	1500	Jun 13, 2016	0
Jun 13, 2016	0	Jun 13, 2016	20			Jun 13, 2016	3000	Jun 13, 2016	60	Jun 13, 2016	1700	Jun 20, 2016	0
Jun 20, 2016	0	Jun 20, 2016	18			Jun 20, 2016	5300	Jun 20, 2016	60	Jun 20, 2016	3800	Jun 27, 2016	100
Jun 27, 2016	0	Jun 27, 2016	20			Jun 27, 2016	3800	Jun 27, 2016	40	Jun 27, 2016	2600	Jul 12, 2016	0
Jul 12, 2016	30	Jul 12, 2016	27			Jul 12, 2016	2760	Jul 12, 2016	50	Jul 12, 2016	2700	Jul 19, 2016	0
Jul 19, 2016	40	Jul 19, 2016	15			Jul 19, 2016	1300	Jul 19, 2016	60	Jul 19, 2016	3400	Jul 29, 2016	30
Jul 29, 2016	20	Jul 29, 2016	22			Jul 29, 2016	3200	Jul 29, 2016	50	Jul 29, 2016	2200	Aug 01, 2016	0
Aug 01, 2016	30	Aug 01, 2016	23			Aug 01, 2016	2500	Aug 01, 2016	50	Aug 01, 2016	1900	Aug 08, 2016	80
Aug 08, 2016	30	Aug 08, 2016	23			Aug 08, 2016	2400	Aug 08, 2016	60	Aug 08, 2016	2600	Aug 16, 2016	110
Aug 16, 2016	30	Aug 16, 2016	17			Aug 16, 2016	1300	Aug 16, 2016	60	Aug 16, 2016	1500	Aug 25, 2016	0
Aug 25, 2016	0	Aug 25, 2016	17			Aug 25, 2016	1300	Aug 25, 2016	40	Aug 25, 2016	4200	Aug 29, 2016	0
Aug 29, 2016	0	Aug 29, 2016	13			Aug 29, 2016	760	Aug 29, 2016	30	Aug 29, 2016	2800	Sep 07, 2016	0
Sep 07, 2016	0	Sep 07, 2016	15			Sep 07, 2016	1840	Sep 07, 2016	80	Sep 07, 2016	2500	Sep 12, 2016	0
Sep 12, 2016	20	Sep 12, 2016	17			Sep 12, 2016	2700	Sep 12, 2016	70	Sep 12, 2016	2800	Sep 19, 2016	0
Sep 19, 2016	20	Sep 19, 2016	22			Sep 19, 2016	1500	Sep 19, 2016	40	Sep 19, 2016	2500	Sep 26, 2016	0
Sep 26, 2016	0	Sep 26, 2016	20			Sep 26, 2016	900	Sep 26, 2016	20	Sep 26, 2016	2500	Oct 03, 2016	0
Oct 03, 2016	0	Oct 03, 2016	27			Oct 03, 2016	1740	Oct 03, 2016	30	Oct 03, 2016	2800	Oct 11, 2016	0
Oct 11, 2016	0	Oct 11, 2016	13			Oct 11, 2016	2200	Oct 11, 2016	30	Oct 11, 2016	2800	Oct 19, 2016	0
Oct 19, 2016	0	Oct 19, 2016	12			Oct 19, 2016	6000	Oct 19, 2016	20	Oct 19, 2016	3300	Oct 25, 2016	0
Oct 25, 2016	0	Oct 25, 2016	12			Oct 25, 2016	3500	Oct 25, 2016	50	Oct 25, 2016	1300	Oct 31, 2016	0
Oct 31, 2016	0	Oct 31, 2016	18			Oct 31, 2016	3100	Oct 31, 2016	0	Oct 31, 2016	5000	Nov 08, 2016	0
Nov 08, 2016	0	Nov 08, 2016	20			Nov 08, 2016	2800	Nov 08, 2016	30	Nov 08, 2016	3100	Nov 16, 2016	0
Nov 16, 2016	50	Nov 16, 2016	23			Nov 16, 2016	2260	Nov 16, 2016	20	Nov 16, 2016	2300	Nov 21, 2016	0
Nov 21, 2016	0	Nov 21, 2016	23			Nov 21, 2016	2900	Nov 21, 2016	20	Nov 21, 2016	3200	Nov 28, 2016	0
Nov 28, 2016	0	Nov 28, 2016	27			Nov 28, 2016	2700	Nov 28, 2016	90	Nov 28, 2016	3100	Dec 06, 2016	0
Dec 06, 2016	0	Dec 06, 2016	15			Dec 06, 2016	4420	Dec 06, 2016	0	Dec 06, 2016	5000	Dec 12, 2016	0
Dec 12, 2016	0	Dec 12, 2016	17			Dec 12, 2016	2400	Dec 12, 2016	130	Dec 12, 2016	1800	Dec 20, 2016	0
Dec 20, 2016	0	Dec 20, 2016	12			Dec 20, 2016	3000	Dec 20, 2016	50	Dec 20, 2016	1800	Dec 28, 2016	0

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Reasonable Potential Evaluation: Data Summary

DSN 001-1 DMR Data: January 2008-June 2018

Aluminum		Chlorine, TR		Chloroform		Fluoride		Iron		Nitrogen, Ammonia		Tin	
DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L	DATE	ug/L
Dec 28, 2016	0	Dec 28, 2016	28			Dec 28, 2016	2900	Dec 28, 2016	0	Dec 28, 2016	2000	Jan 04, 2017	0
Jan 04, 2017	0	Jan 04, 2017	15			Jan 04, 2017	3520	Jan 04, 2017	0	Jan 04, 2017	3300	Jan 10, 2017	0
Jan 10, 2017	0	Jan 10, 2017	23			Jan 10, 2017	2400	Jan 10, 2017	0	Jan 10, 2017	2700	Jan 17, 2017	60
Jan 17, 2017	0	Jan 17, 2017	25			Jan 17, 2017	5200	Jan 17, 2017	0	Jan 17, 2017	3200	Jan 24, 2017	0
Jan 24, 2017	0	Jan 24, 2017	20			Jan 24, 2017	5000	Jan 24, 2017	0	Jan 24, 2017	4400	Jan 31, 2017	0
Jan 31, 2017	0	Jan 31, 2017	15			Jan 31, 2017	2240	Jan 31, 2017	0	Jan 31, 2017	1900	Feb 06, 2017	0
Feb 06, 2017	0	Feb 06, 2017	20			Feb 06, 2017	5420	Feb 06, 2017	20	Feb 06, 2017	4000	Feb 14, 2017	0
Feb 14, 2017	0	Feb 14, 2017	13			Feb 14, 2017	12600	Feb 14, 2017	30	Feb 14, 2017	4900	Feb 21, 2017	0
Feb 21, 2017	0	Feb 21, 2017	20			Feb 21, 2017	7500	Feb 21, 2017	30	Feb 21, 2017	3900	Feb 28, 2017	0
Feb 28, 2017	0	Feb 28, 2017	22			Feb 28, 2017	2100	Feb 28, 2017	30	Feb 28, 2017	3300	Mar 07, 2017	0
Mar 07, 2017	0	Mar 07, 2017	17			Mar 07, 2017	1480	Mar 07, 2017	30	Mar 07, 2017	4500	Mar 16, 2017	40
Mar 16, 2017	0	Mar 16, 2017	15			Mar 16, 2017	1300	Mar 16, 2017	40	Mar 16, 2017	4500	Mar 21, 2017	0
Mar 21, 2017	0	Mar 21, 2017	17			Mar 21, 2017	1900	Mar 21, 2017	0	Mar 21, 2017	2100	Mar 28, 2017	0
Mar 28, 2017	0	Mar 28, 2017	13			Mar 28, 2017	2700	Mar 28, 2017	30	Mar 28, 2017	5500	Apr 04, 2017	0
Apr 04, 2017	40	Apr 04, 2017	25			Apr 04, 2017	1260	Apr 04, 2017	30	Apr 04, 2017	4800	Apr 11, 2017	0
Apr 11, 2017	0	Apr 11, 2017	23			Apr 11, 2017	3000	Apr 11, 2017	30	Apr 11, 2017	4700	Apr 18, 2017	0
Apr 18, 2017	90	Apr 18, 2017	17			Apr 18, 2017	1700	Apr 18, 2017	40	Apr 18, 2017	6900	Apr 25, 2017	0
Apr 25, 2017	0	Apr 25, 2017	15			Apr 25, 2017	1000	Apr 25, 2017	40	Apr 25, 2017	7000	May 02, 2017	0
May 02, 2017	0	May 02, 2017	23			May 02, 2017	1240	May 02, 2017	30	May 02, 2017	2200	May 09, 2017	0
May 09, 2017	0	May 09, 2017	17			May 09, 2017	1000	May 09, 2017	0	May 09, 2017	1700	May 16, 2017	0
May 16, 2017	0	May 16, 2017	13			May 16, 2017	1000	May 16, 2017	30	May 16, 2017	2400	May 23, 2017	0
May 23, 2017	0	May 23, 2017	20			May 23, 2017	1700	May 23, 2017	30	May 23, 2017	2200	May 31, 2017	0
May 31, 2017	0	May 31, 2017	17			May 31, 2017	2300	May 31, 2017	50	May 31, 2017	3600	Jun 06, 2017	0
Jun 06, 2017	0	Jun 06, 2017	20			Jun 06, 2017	1340	Jun 06, 2017	50	Jun 06, 2017	1900	Jun 13, 2017	0
Jun 13, 2017	20	Jun 13, 2017	17			Jun 13, 2017	900	Jun 13, 2017	40	Jun 13, 2017	5000	Jun 20, 2017	0
Jun 20, 2017	20	Jun 20, 2017	25			Jun 20, 2017	1700	Jun 20, 2017	40	Jun 20, 2017	3300	Jun 27, 2017	0
Jun 27, 2017	0	Jun 27, 2017	22			Jun 27, 2017	2200	Jun 27, 2017	40	Jun 27, 2017	3700	Jul 11, 2017	0
Jul 11, 2017	0	Jul 11, 2017	17			Jul 11, 2017	1540	Jul 11, 2017	30	Jul 11, 2017	2800	Jul 18, 2017	0
Jul 18, 2017	0	Jul 18, 2017	13			Jul 18, 2017	4700	Jul 18, 2017	50	Jul 18, 2017	2000	Jul 24, 2017	0
Jul 24, 2017	0	Jul 24, 2017	13			Jul 24, 2017	2300	Jul 24, 2017	30	Jul 24, 2017	4300	Aug 01, 2017	0
Aug 01, 2017	0	Aug 01, 2017	23			Aug 01, 2017	1860	Aug 01, 2017	30	Aug 01, 2017	2000	Aug 08, 2017	0
Aug 08, 2017	0	Aug 08, 2017	18			Aug 08, 2017	7000	Aug 08, 2017	50	Aug 08, 2017	4500	Aug 15, 2017	0
Aug 15, 2017	0	Aug 15, 2017	22			Aug 15, 2017	3200	Aug 15, 2017	30	Aug 15, 2017	5100	Aug 22, 2017	0
Aug 22, 2017	0	Aug 22, 2017	22			Aug 22, 2017	1500	Aug 22, 2017	40	Aug 22, 2017	6000	Aug 29, 2017	0
Aug 29, 2017	0	Aug 29, 2017	17			Aug 29, 2017	5800	Aug 29, 2017	20	Aug 29, 2017	4300	Sep 05, 2017	20
Sep 05, 2017	0	Sep 05, 2017	15			Sep 05, 2017	8000	Sep 05, 2017	20	Sep 05, 2017	2600	Sep 12, 2017	0
Sep 12, 2017	0	Sep 12, 2017	20			Sep 12, 2017	7500	Sep 12, 2017	60	Sep 12, 2017	3300	Sep 19, 2017	0
Sep 19, 2017	0	Sep 19, 2017	20			Sep 19, 2017	1800	Sep 19, 2017	30	Sep 19, 2017	3100	Sep 26, 2017	0
Sep 26, 2017	0	Sep 26, 2017	27			Sep 26, 2017	1800	Sep 26, 2017	40	Sep 26, 2017	2200	Oct 03, 2017	0
Oct 03, 2017	0	Oct 03, 2017	22			Oct 03, 2017	2800	Oct 03, 2017	40	Oct 03, 2017	3400	Oct 10, 2017	0
Oct 10, 2017	0	Oct 10, 2017	17			Oct 10, 2017	3300	Oct 10, 2017	30	Oct 10, 2017	2000	Oct 17, 2017	0
Oct 17, 2017	0	Oct 17, 2017	17			Oct 17, 2017	3500	Oct 17, 2017	60	Oct 17, 2017	1900	Oct 24, 2017	60
Oct 24, 2017	0	Oct 24, 2017	17			Oct 24, 2017	3200	Oct 24, 2017	40	Oct 24, 2017	2900	Oct 31, 2017	0
Oct 31, 2017	0	Oct 31, 2017	15			Oct 31, 2017	2300	Oct 31, 2017	40	Oct 31, 2017	2300	Nov 09, 2017	0
Nov 09, 2017	0	Nov 09, 2017	20			Nov 09, 2017	12000	Nov 09, 2017	50	Nov 09, 2017	10000	Nov 14, 2017	0
Nov 14, 2017	0	Nov 14, 2017	20			Nov 14, 2017	15600	Nov 14, 2017	30	Nov 14, 2017	5100	Nov 21, 2017	0
Nov 21, 2017	0	Nov 21, 2017	17			Nov 21, 2017	8300	Nov 21, 2017	40	Nov 21, 2017	5000	Nov 28, 2017	60
Nov 28, 2017	0	Nov 28, 2017	23			Nov 28, 2017	3200	Nov 28, 2017	50	Nov 28, 2017	5100	Dec 05, 2017	0
Dec 05, 2017	0	Dec 05, 2017	28			Dec 05, 2017	3900	Dec 05, 2017	0	Dec 05, 2017	4100	Dec 12, 2017	0
Dec 12, 2017	0	Dec 12, 2017	20			Dec 12, 2017	1400	Dec 12, 2017	40	Dec 12, 2017	3000	Dec 19, 2017	0
Dec 19, 2017	0	Dec 19, 2017	20			Dec 19, 2017	1700	Dec 19, 2017	60	Dec 19, 2017	8000	Dec 27, 2017	0
Dec 27, 2017	0	Dec 27, 2017	25			Dec 27, 2017	2800	Dec 27, 2017	30	Dec 27, 2017	6200	Jan 04, 2018	0
Jan 04, 2018	0	Jan 04, 2018	22			Jan 04, 2018	820	Jan 04, 2018	40	Jan 04, 2018	2800	Jan 09, 2018	0
Jan 09, 2018	0	Jan 09, 2018	27			Jan 09, 2018	1900	Jan 09, 2018	30	Jan 09, 2018	2900	Jan 16, 2018	15
Jan 16, 2018	0	Jan 16, 2018	22			Jan 16, 2018	7600	Jan 16, 2018	50	Jan 16, 2018	6000	Jan 23, 2018	70
Jan 23, 2018	0	Jan 23, 2018	27			Jan 23, 2018	1700	Jan 23, 2018	40	Jan 23, 2018	4300	Jan 30, 2018	0
Jan 30, 2018	0	Jan 30, 2018	20			Jan 30, 2018	2950	Jan 30, 2018	40	Jan 30, 2018	2300	Feb 06, 2018	0
Feb 06, 2018	0	Feb 06, 2018	25			Feb 06, 2018	1500	Feb 06, 2018	30	Feb 06, 2018	2500	Feb 13, 2018	60
Feb 13, 2018	20	Feb 13, 2018	22			Feb 13, 2018	1400	Feb 13, 2018	30	Feb 13, 2018	3700	Feb 20, 2018	0
Feb 20, 2018	0	Feb 20, 2018	22			Feb 20, 2018	1200	Feb 20, 2018	40	Feb 20, 2018	7400	Feb 27, 2018	120
Feb 27, 2018	20	Feb 27, 2018	15			Feb 27, 2018	3300	Feb 27, 2018	90	Feb 27, 2018	2300	Mar 06, 2018	0
Mar 06, 2018	0	Mar 06, 2018	23			Mar 06, 2018	2560	Mar 06, 2018	60	Mar 06, 2018	3300	Mar 13, 2018	0
Mar 13, 2018	0	Mar 13, 2018	23			Mar 13, 2018	2700	Mar 13, 2018	30	Mar 13, 2018	3000	Mar 20, 2018	0
Mar 20, 2018	0	Mar 20, 2018	23			Mar 20, 2018	2900	Mar 20, 2018	30	Mar 20, 2018	2800	Mar 27, 2018	0
Mar 27, 2018	0	Mar 27, 2018	18			Mar 27, 2018	1230	Mar 27, 2018	20	Mar 27, 2018	6000	Apr 03, 2018	40
Apr 03, 2018	0	Apr 03, 2018	17			Apr 03, 2018	5350	Apr 03, 2018	40	Apr 03, 2018	3400	Apr 10, 2018	0
Apr 10, 2018	0	Apr 10, 2018	23			Apr 10, 2018	1820	Apr 10, 2018	40	Apr 10, 2018	3000	Apr 17, 2018	60
Apr 17, 2018	0	Apr 17, 2018	18			Apr 17, 2018	1650	Apr 17, 2018	50	Apr 17, 2018	2500	Apr 24, 2018	0
Apr 24, 2018	0	Apr 24, 2018	27			Apr 24, 2018	970	Apr 24, 2018	30	Apr 24, 2018	1800	May 01, 2018	60
May 01, 2018	0	May 01, 2018	28			May 01, 2018	2160	May 01, 2018	20	May 01, 2018	5000	May 08, 2018	0
May 08, 2018	0	May 08, 2018	27			May 08, 2018	2540	May 08, 2018	40	May 08, 2018	3400	May 15, 2018	0
May 15, 2018	0	May 15, 2018	15			May 15, 2018	2000	May 15, 2018	50	May 15, 2018	1500	May 22, 2018	0
May 22, 2018	20	May 22, 2018	17			May 22, 2018	3400	May 22, 2018	0	May 22, 2018	4900	May 30, 2018	50
May 30, 2018	0	May 30, 2018	18			May 30, 2018	2800	May 30, 2018	50	May 30, 2018	2800	Jun 05, 2018	0
Jun 05, 2018	0	Jun 05, 2018	10			Jun 05, 2018	2740	Jun 05, 2018	0	Jun 05, 2018	2200	Jun 12, 2018	220
Jun 12, 2018	20	Jun 12, 2018	2			Jun 12, 2018	1880	Jun 12, 2018	50	Jun 12, 2018	3200	Jun 19, 2018	0
Jun 19, 2018	20	Jun 19, 2018	0			Jun 19, 2018	1380	Jun 19, 2018	0	Jun 19, 2018	8600	Jun 26, 2018	0
Jun 26, 2018	0	Jun 26, 2018	5			Jun 26, 2018	1860	Jun 26, 2018	30	Jun 26, 2018	6700		
ML:	20								20				20

	Aluminum	Chlorine, TR	Chloroform	Fluoride	Iron	Nitrogen, Ammonia	Tin
MEAN	28	21	130	2479	32	2888	116
SD	172	8	133	2829	14	2074	115
CV	6.12	0.37	1.03	1.14	0.45	0.72	0.99
CV (to 1 decimal place)	6.1	0.4	1.0	1.1	0.5	0.7	1.0
MAX	2800	78	836	35500	130	22000	820
MIN	0	0	15	370	0	180	0
N	522	522	138	522	522	522	521
S	1.91	0.39	0.83	0.89	0.47	0.63	0.83
Percentile	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Pn	0.99	0.99	0.97	0.99	0.99	0.99	0.99
Multiplier	0.9	1.0	1.5	1.0	1.0	1.0	1.0
	CV outside of acceptable range. A default CV of 0.6 and a default multiplier of 1.0 used		CV outside of acceptable range. A default CV of 0.6 and a default multiplier of 1.0 used	CV outside of acceptable range. A default CV of 0.6 and a default multiplier of 1.0 used			CV outside of acceptable range A default CV of 0.6 and a default multiplier of 1.0 used

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Reasonable Potential Evaluation: Temperature Data (USGS 01208049)

#
agency_cd - Agency Code
site_no - Station number
sample_dt - Begin date
sample_tm - Beg/n time
P00010 - Temperature degrees Celsius
#
Data for the following sites are included:
USGS 01208049 NAUGATUCK RIVER NR WATERVILLE
#

agency_cd	site_no	sample_dt	sample_tm	p00010
USGS	1208049	10/5/1967	14:30	19
USGS	1208049	10/20/1980	11:30	11
USGS	1208049	11/20/1980	13:10	6
USGS	1208049	12/16/1980	14:00	1.5
USGS	1208049	1/19/1981	9:45	0.5
USGS	1208049	2/9/1981	13:30	1
USGS	1208049	3/9/1981	13:45	4
USGS	1208049	4/13/1981	14:00	13.5
USGS	1208049	5/11/1981	12:30	16.5
USGS	1208049	6/15/1981	13:10	21
USGS	1208049	7/7/1981	14:15	24
USGS	1208049	8/3/1981	14:00	27.5
USGS	1208049	9/1/1981	11:40	22.5
USGS	1208049	10/19/1981	13:45	10
USGS	1208049	11/20/1981	11:10	4.5
USGS	1208049	12/18/1981	10:40	2
USGS	1208049	1/12/1982	13:30	0.5
USGS	1208049	2/10/1982	13:15	2
USGS	1208049	3/19/1982	12:00	5.5
USGS	1208049	4/14/1982	13:50	7
USGS	1208049	5/10/1982	12:45	17
USGS	1208049	6/14/1982	13:45	14.5
USGS	1208049	7/14/1982	12:15	25
USGS	1208049	8/16/1982	10:45	23
USGS	1208049	9/1/1982	8:40	20
USGS	1208049	10/21/1982	12:10	13.5
USGS	1208049	11/16/1982	10:25	8
USGS	1208049	12/15/1982	13:15	1
USGS	1208049	1/11/1983	10:30	4
USGS	1208049	3/8/1983	13:00	3
USGS	1208049	4/13/1983	13:00	9
USGS	1208049	5/16/1983	14:15	13.5
USGS	1208049	6/13/1983	10:20	21
USGS	1208049	7/18/1983	10:00	27
USGS	1208049	8/8/1983	11:45	27
USGS	1208049	9/3/1983	15:30	27
USGS	1208049	10/24/1983	14:30	9
USGS	1208049	11/22/1983	11:10	8.5
USGS	1208049	12/14/1983	13:00	5
USGS	1208049	12/28/1983	8:40	0.5
USGS	1208049	1/26/1984	15:30	0.5
USGS	1208049	3/12/1984	13:05	1
USGS	1208049	4/16/1984	14:30	6.5
USGS	1208049	5/14/1984	10:40	14
USGS	1208049	6/18/1984	12:55	19
USGS	1208049	7/10/1984	13:05	21
USGS	1208049	8/17/1984	15:31	26
USGS	1208049	9/7/1984	14:30	19
USGS	1208049	10/26/1984	13:15	14.4
USGS	1208049	11/16/1984	12:50	5.7
USGS	1208049	12/15/1984	10:40	4.6
USGS	1208049	1/17/1985	14:00	2
USGS	1208049	3/12/1985	11:30	4.5
USGS	1208049	4/17/1985	8:30	11
USGS	1208049	5/13/1985	11:00	19
USGS	1208049	6/18/1985	8:00	10
USGS	1208049	7/10/1985	12:30	24.5
USGS	1208049	8/13/1985	8:40	21
USGS	1208049	9/5/1985	12:05	23
USGS	1208049	10/25/1985	9:10	11
USGS	1208049	11/14/1985	10:00	9.5
USGS	1208049	12/18/1985	13:30	1.5
USGS	1208049	1/21/1986	10:10	0.5
USGS	1208049	3/12/1986	10:00	2
USGS	1208049	4/17/1986	9:45	9.5
USGS	1208049	5/14/1986	9:50	16
USGS	1208049	6/19/1986	9:30	19
USGS	1208049	6/19/1986	14:33	20
USGS	1208049	7/9/1986	12:30	26
USGS	1208049	8/13/1986	8:50	23
USGS	1208049	9/3/1986	7:15	19
USGS	1208049	10/23/1986	11:00	11.5
USGS	1208049	11/17/1986	13:00	3
USGS	1208049	12/18/1986	12:40	3
USGS	1208049	1/15/1987	13:15	2
USGS	1208049	3/11/1987	9:45	0.5
USGS	1208049	4/22/1987	8:40	14.5
USGS	1208049	5/13/1987	8:30	15
USGS	1208049	6/17/1987	11:30	25
USGS	1208049	7/9/1987	9:00	22.5
USGS	1208049	8/14/1987	10:55	23
USGS	1208049	9/3/1987	8:50	18
USGS	1208049	10/19/1987	9:00	11
USGS	1208049	11/10/1987	12:40	7
USGS	1208049	12/15/1987	12:00	3
USGS	1208049	1/14/1988	13:45	0.5
USGS	1208049	3/11/1988	13:15	2.5
USGS	1208049	4/12/1988	8:40	9.5
USGS	1208049	5/10/1988	13:40	14.5
USGS	1208049	6/14/1988	8:45	22
USGS	1208049	7/13/1988	9:00	26
USGS	1208049	8/10/1988	9:25	27
USGS	1208049	9/2/1988	9:20	21
USGS	1208049	10/19/1988	12:45	12
USGS	1208049	11/9/1988	11:40	8
USGS	1208049	12/13/1988	10:45	0.5
USGS	1208049	1/13/1989	12:45	1
USGS	1208049	3/14/1989	13:15	4
USGS	1208049	4/11/1989	9:00	8
USGS	1208049	5/10/1989	11:00	12
USGS	1208049	6/16/1989	8:30	14
USGS	1208049	7/14/1989	10:05	22
USGS	1208049	8/8/1989	10:30	23
USGS	1208049	9/2/1989	8:15	21
USGS	1208049	10/19/1989	13:00	10
USGS	1208049	11/16/1989	15:15	13
USGS	1208049	12/8/1989	9:44	1
USGS	1208049	1/9/1990	9:45	1.5
USGS	1208049	3/21/1990	9:10	6
USGS	1208049	4/9/1990	15:08	7
USGS	1208049	5/4/1990	12:45	15
USGS	1208049	6/15/1990	11:30	19
USGS	1208049	7/9/1990	12:30	22
USGS	1208049	8/9/1990	12:15	22
USGS	1208049	9/6/1990	8:50	20
USGS	1208049	10/25/1990	10:15	13
USGS	1208049	11/20/1990	15:15	3
USGS	1208049	12/14/1990	10:10	1

MAX_{SUMMER}= 27.5 °C

MAX_{WINTER}= 13.0 °C

agency_cd	site_no	sample_dt	sample_tm	p00010
USGS	1208049	1/9/1991	13:20	4
USGS	1208049	3/20/1991	13:45	3
USGS	1208049	4/9/1991	10:15	12
USGS	1208049	6/11/1991	12:15	22
USGS	1208049	7/19/1991	13:00	26
USGS	1208049	8/16/1991	12:00	24
USGS	1208049	9/5/1991	11:50	19
USGS	1208049	10/28/1991	13:45	14
USGS	1208049	11/15/1991	9:40	4
USGS	1208049	12/18/1991	10:30	0
USGS	1208049	1/22/1992	14:15	0.5
USGS	1208049	3/20/1992	13:15	2
USGS	1208049	4/23/1992	9:15	11
USGS	1208049	5/19/1992	12:45	15.5
USGS	1208049	6/18/1992	13:00	19.5
USGS	1208049	7/16/1992	14:05	18.5
USGS	1208049	8/5/1992	9:00	19
USGS	1208049	9/16/1992	13:50	20
USGS	1208049	11/18/1992	9:45	4
USGS	1208049	1/25/1993	15:00	2.5
USGS	1208049	3/10/1993	12:45	3
USGS	1208049	5/17/1993	13:30	18.5
USGS	1208049	6/7/1993	14:30	17
USGS	1208049	7/13/1993	10:30	26.5
USGS	1208049	8/4/1993	14:15	28
USGS	1208049	9/2/1993	13:45	26
USGS	1208049	11/19/1993	15:15	6
USGS	1208049	1/19/1994	15:20	0
USGS	1208049	3/18/1994	16:15	1
USGS	1208049	5/18/1994	13:45	12
USGS	1208049	6/20/1994	9:15	24.5
USGS	1208049	7/14/1994	12:40	26.5
USGS	1208049	8/3/1994	12:50	25
USGS	1208049	8/23/1994	12:45	19.3
USGS	1208049	9/13/1994	13:55	19.5
USGS	1208049	11/8/1994	14:15	11
USGS	1208049	1/9/1995	15:20	0.5
USGS	1208049	3/7/1995	15:00	4
USGS	1208049	5/8/1995	14:00	13.5
USGS	1208049	6/6/1995	14:00	22
USGS	1208049	7/7/1995	14:45	24
USGS	1208049	8/1/1995		
USGS	1208049	8/4/1995	13:15	28
USGS	1208049	9/15/1995	13:15	22.5
USGS	1208049	11/28/1995	14:40	5
USGS	1208049	1/25/1996	13:15	0
USGS	1208049	3/25/1996	14:15	5.5
USGS	1208049	6/7/1996	12:45	20.5
USGS	1208049	7/17/1996	12:45	23
USGS	1208049	8/22/1996	13:55	26.5
USGS	1208049	9/19/1996	12:45	15
USGS	1208049	11/15/1996	14:45	4
USGS	1208049	1/13/1997	13:45	0.5
USGS	1208049	3/11/1997	14:15	3
USGS	1208049	5/23/1997	9:15	13
USGS	1208049	6/24/1997	13:15	23.5
USGS	1208049	7/24/1997	13:55	21.5
USGS	1208049	8/20/1997	13:20	21.5
USGS	1208049	9/17/1997	12:30	21.5
USGS	1208049	11/18/1997	14:50	3.5
USGS	1208049	1/15/1998	13:30	0.5
USGS	1208049	3/18/1998	15:00	3.5
USGS	1208049	5/14/1998	13:45	13
USGS	1208049	6/5/1998	9:45	16
USGS	1208049	7/15/1998	13:00	25
USGS	1208049	8/10/1998	14:00	26.5
USGS	1208049	9/14/1998	12:40	21.5
USGS	1208049	11/6/1998	14:20	7.5
USGS	1208049	1/13/1999	13:45	0.5
USGS	1208049	3/8/1999	15:00	1
USGS	1208049	5/4/1999	15:00	14.5
USGS	1208049	6/2/1999	14:15	22.5
USGS	1208049	7/14/1999	13:45	24
USGS	1208049	8/4/1999	9:00	24
USGS	1208049	9/14/1999	13:45	22
USGS	1208049	11/15/1999	14:15	7
USGS	1208049	1/10/2000	14:40	3
USGS	1208049	3/8/2000	14:10	6
USGS	1208049	5/9/2000	14:15	23.5
USGS	1208049	6/5/2000	13:15	18
USGS	1208049	7/5/2000	14:40	25
USGS	1208049	8/21/2000	15:30	20.5
USGS	1208049	9/18/2000	14:25	19.5
USGS	1208049	11/15/2000	15:20	8
USGS	1208049	1/16/2001	16:05	1
USGS	1208049	3/29/2001	11:30	4
USGS	1208049	5/15/2001	10:10	17.5
USGS	1208049	6/12/2001	14:25	18.5
USGS	1208049	7/9/2001	14:45	23.5
USGS	1208049	8/21/2001	15:15	25.5
USGS	1208049	9/6/2001	14:00	24.5
USGS	1208049	11/5/2001	15:15	11
USGS	1208049	1/16/2002	16:10	1.5
USGS	1208049	3/20/2002	14:30	5
USGS	1208049	5/2/2002	15:15	11
USGS	1208049	6/11/2002	13:25	20
USGS	1208049	7/1/2002	12:55	26.5
USGS	1208049	8/12/2002	13:15	28
USGS	1208049	9/9/2002	14:00	25
USGS	1208049	11/6/2002	14:15	6.5
USGS	1208049	1/7/2003	14:50	1.5
USGS	1208049	3/5/2003	14:15	0.5
USGS	1208049	5/12/2003	14:00	15
USGS	1208049	6/17/2003	14:05	17.5
USGS	1208049	7/15/2003	12:00	22.5
USGS	1208049	8/12/2003	13:30	24
USGS	1208049	9/11/2003	11:15	19
USGS	1208049	11/12/2003	14:15	6

MAX_{SUMMER}= 28.0 °C

MAX_{WINTER}= 11.0 °C

agency_cd	site_no	sample_dt	sample_tm	p00010
USGS	1208049	1/14/2004	14:15	0
USGS	1208049	3/10/2004	14:15	4.5
USGS	1208049	5/5/2004	13:30	11.5
USGS	1208049	6/2/2004	13:30	15
USGS	1208049	7/19/2004	13:30	23.5
USGS	1208049	8/18/2004	13:45	21.5
USGS	1208049	9/16/2004	12:00	21
USGS	1208049	11/16/2004	13:45	5
USGS	1208049	1/13/2005	14:45	2.5
USGS	1208049	3/14/2005	13:30	1.5
USGS	1208049	5/9/2005	13:15	12
USGS	1208049	6/7/2005	12:45	23.5
USGS	1208049	7/7/2005	13:00	22
USGS	1208049	8/8/2005	13:45	27
USGS	1208049	9/20/2005	13:30	21.5
USGS	1208049	11/7/2005	14:15	11.5
USGS	1208049	1/18/2006	14:30	2.6
USGS	1208049	3/20/2006	15:00	4
USGS	1208049	5/16/2006	9:00	11.5
USGS	1208049	6/13/2006	13:30	19
USGS	1208049	7/12/2006	13:00	22.5
USGS	1208049	8/10/2006	12:30	27
USGS	1208049	9/25/2006	13:00	18.5
USGS	1208049	11/8/2006	13:30	8
USGS	1208049	1/22/2007	14:15	0.5
USGS	1208049	3/9/2007	14:30	0.5
USGS	1208049	5/3/2007	13:00	13
USGS	1208049	6/4/2007	13:30	19.5
USGS	1208049	7/5/2007	13:30	21
USGS	1208049	8/15/2007	13:30	24
USGS	1208049	9/12/2007	12:30	23
USGS	1208049	11/13/2007	14:15	6.5
USGS	1208049	1/9/2008	12:45	2.5
USGS	1208049	3/25/2008	7:30	3.7
USGS	1208049	5/20/2008	12:00	12.8
USGS	1208049	6/19/2008	11:00	19
USGS	1208049	7/29/2008	8:30	23
USGS	1208049	8/18/2008	12:15	22.5
USGS	1208049	9/18/2008	12:30	18
USGS	1208049	11/18/2008	9:15	6.5
USGS	1208049	1/13/2009	13:30	0.5
USGS	1208049	3/26/2009	12:30	5.5
USGS	1208049	5/12/2009	13:15	14.5
USGS	1208049	6/23/2009	13:15	17.5
USGS	1208049	7/7/2009	13:30	20
USGS	1208049	8/5/2009	11:45	21.5
USGS	1208049	9/21/2009	12:15	18
USGS	1208049	11/10/2009	7:45	8
USGS	1208049	1/11/2010	8:00	0
USGS	1208049	3/8/2010	9:00	3.5
USGS	1208049	5/20/2010	7:00	13.5
USGS	1208049	6/21/2010	7:00	23
USGS	1208049	7/6/2010	7:15	25.5
USGS	1208049	8/18/2010	7:45	23
USGS	1208049	9/16/2010	8:15	17.5
USGS	1208049	11/16/2010	8:00	7.5
USGS	1208049	1/13/2011	9:00	0
USGS	1208049	3/14/2011	8:30	2.5
USGS	1208049	5/12/2011	9:15	15.5
USGS	1208049	6/9/2011	7:15	22.6
USGS	1208049	7/7/2011	7:30	23.2
USGS	1208049	8/9/2011	8:00	24.2
USGS	1208049	9/22/2011	8:00	17.5
USGS	1208049	11/22/2011	9:30	8.5
USGS	1208049	1/4/2012	9:45	0.1
USGS	1208049	3/15/2012	7:30	10.5
USGS	1208049	5/14/2012	8:45	18
USGS	1208049	6/12/2012	7:15	20.1
USGS	1208049	7/12/2012	7:45	24.7
USGS	1208049	8/14/2012	8:30	25
USGS	1208049	9/10/2012	7:45	21.2
USGS	1208049	11/26/2012	9:30	4
USGS	1208049	1/8/2013	9:45	1.1
USGS	1208049	3/21/2013	9:15	2.7
USGS	1208049	5/2/2013	8:15	14.9
USGS	1208049	6/18/2013	9:00	16.8
USGS	1208049	7/17/2013	9:00	26.6
USGS	1208049	8/1/2013	8:15	22.7
USGS	1208049	9/13/2013	9:00	21.8
USGS	1208049	11/12/2013	9:30	6.5
USGS	1208049	1/23/2014	14:15	0.2
USGS	1208049	3/6/2014	15:15	0.9
USGS	1208049	5/8/2014	8:45	11.7
USGS	1208049	6/6/2014	8:15	18.2
USGS	1208049	7/22/2014	9:00	22.9
USGS	1208049	8/19/2014	8:00	19.7
USGS	1208049	9/18/2014	8:30	16.6
USGS	1208049	11/17/2014	10:15	5.1
USGS	1208049	1/15/2015	9:45	0
USGS	1208049	3/25/2015	8:45	2.6
USGS	1208049	5/14/2015	8:30	17.5
USGS	1208049	6/11/2015	8:30	20.8
USGS	1208049	7/9/2015	10:00	23.2
USGS	1208049	8/26/2015	9:00	23.9
USGS	1208049	9/24/2015	9:15	18.8
USGS	1208049	11/30/2015	13:30	6.6
USGS	1208049	1/6/2016	9:45	0.7
USGS	1208049	3/17/2016	8:30	9.2
USGS	1208049	5/16/2016	9:00	13.4
USGS	1208049	6/8/2016	14:15	21.9
USGS	1208049	7/14/2016	7:45	24.5
USGS	1208049	8/15/2016	8:00	27.3
USGS	1208049	9/12/2016	7:15	22
USGS	1208049	11/9/2016	9:30	8.3
USGS	1208049	1/9/2017	9:30	0.2
USGS	1208049	3/9/2017	9:00	5.9
USGS	1208049	5/22/2017	9:15	16.8
USGS	1208049	6/19/2017	8:45	21.7
USGS	1208049	7/20/2017	8:15	25.7
USGS	1208049	8/1/2017	8:30	22.3
USGS	1208049	9/14/2017	9:15	19.1
USGS	1208049	11/14/2017	9:45	4
USGS	1208049	1/11/2018	9:30	0.3
USGS	1208049	3/27/2018	9:45	5.2
USGS	1208049	5/10/2018	10:00	17.5
USGS	1208049	6/7/2018	9:30	16.8

MAX_{SUMMER}= 27.3 °C

MAX_{WINTER}= 11.5 °C

ATTACHMENT 13

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 pollutant has 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 2008-June 2018
Background Data: Naugatuck River water from Summit's chronic toxicity testing, 2008 - 2018; Temperature: USGS Station 01208049 (All to 2018)

DETERMINATION OF FRESHWATER OR SALTWATER CRITERIA:

EPA's document *National Guidance of the Applicablity of Freshwater and Saltwater Criteria* (EPA-822-R-02-047) is used to determine if freshwater criteria or salt water criteria are appropriate.
This 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 1 ppt and 10 ppt, 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:

	Waterbody	*Reach*
	Bantam 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
	Pootatuck River	Newington POTW to confluence with Housatonic River
	Quinnipiac River	Southington POTW to Broadway, North Haven
	Still River	Winsted POTW to confluence with Farmington River
		Lymekiln Brook to confluence with Housatonic River
	Williams Brook	Ledyard POTW to mouth
	Willimantic River	Stafford Springs POTW to Trout Management Area (Willington)
		Eagleville Dam to confluence with Shetucket River

AMMONIA CRITERIA: (FRESHWATER)

Freshwater ammonia criteria in the State's *Water Quality Standards* are expressed in terms of ambient surface water temperature and pH. Ammonia concentrations are determined as follows:

SUMMER (April 1 to October 31):

ACUTE:

$pH_{ambient}$=	7.77	*[Enter the highest pH]*
Ammonia-nitrogen criteria (if salmonids are present)=	8.5	mg/L as N
Ammonia-nitrogen criteria (if salmonids are absent)=	12.8	mg/L as N
Ammonia-nitrogen criteria (if salmonids are present)=	**8,547**	**ug/L as N**
Ammonia-nitrogen criteria (if salmonids are absent)=	**12,798**	**ug/L as N**

CHRONIC:

$T_{ambient}$=	C	28	*[Enter the highest seasonal temperature]*
$pH_{ambient}$=		7.77	*[Enter the highest pH]*
Ammonia-nitrogen criteria (when early life stages are present)=		1.38	mg/L as N
Ammonia-nitrogen criteria (when early life stages are absent)=		1.38	mg/L as N
Ammonia-nitrogen criteria (when early life stages are present)=		**1,378**	**ug/L as N**
Ammonia-nitrogen criteria (when early life stages are absent)=		**1,378**	**ug/L as N**

WINTER (November 1 to March 31):

ACUTE:

$pH_{ambient}$=	7.77	*[Enter the highest pH]*
Ammonia-nitrogen criteria (if salmonids are present)=	8.5	mg/L as N
Ammonia-nitrogen criteria (if salmonids are absent)=	12.8	mg/L as N
Ammonia-nitrogen criteria (if salmonids are present)=	**8,547**	**ug/L as N**
Ammonia-nitrogen criteria (if salmonids are absent)=	**12,798**	**ug/L as N**

CHRONIC:

$T_{ambient}$=	C	13	*[Enter the highest seasonal temperature]*
$pH_{ambient}$=		7.77	*[Enter the highest pH]*
Ammonia-nitrogen criteria (when early life stages are present)=		3.24	mg/L as N
Ammonia-nitrogen criteria (when early life stages are absent)=		3.57	mg/L as N
Ammonia-nitrogen criteria (when early life stages are present)=		**3,242**	**ug/L as N**
Ammonia-nitrogen criteria (when early life stages are absent)=		**3,572**	**ug/L as N**

DILUTION FACTOR:

Average flow of DSN 001 (gpd):	180,000	gpd	Average flow of DSN 001 (gpd):	330,000	gpd
Average flow of DSN 001 (cfs):	0.278	cfs	Average flow of DSN 001 (cfs):	0.511	cfs
Maximum hours of discharge/day	24	hours	Maximum hours of discharge/day	24	hours
7Q10 Flow of River @ Site:	14.94	cfs	7Q10 Flow of River @ Site:	14.94	cfs
Allocation for DSN 001:	50	%	Allocation for DSN 001:	50	%
Dilution Factor =	**27.8**		Dilution Factor =	**15.6**	
IWC%=	**3.6**		IWC%=	**6.4**	

Dilution is not allowed for carcinogens/bioaccumulative pollutants.

BASIS FOR REASONABLE POTENTIAL:

The maximum receiving water concentration for each pollutant is compared to the appropriate criteria where the maximum receiving water concentration is determined as follows:
MAXIMUM RECEIVING WATER CONCENTRATION=[[(Statistical Multiplier)*(Maximum Effluent Concentration)]+[(Maximum Background Receiving Water Concentration)*(Dilution Factor-1)]]/[Dilution Factor]

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 (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 (acute)=WLA_{acute}*exp[0.5σ^2-zσ]

LTA (chronic)=$WLA_{chronic}$*exp[0.5σ_4^2-zσ_4]

LTA (human health)=$WLA_{human\ health}$

3. Determine the limiting LTA (i.e., the lowest LTA of the applicable criteria)

4. Calculate the Average Monthly Limit (AML):

AML (acute,chronic)=$LTA_{acute\ or\ chronic}$*exp[zσ_n-0.5σ_n^2]

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

5. Calculate the Maximum Daily Limit (MDL):

MDL (acute,chronic)=$LTA_{acute\ or\ chronic}$*exp[zσ-0.5σ^2]

MDL (human health)=$WLA_{human\ health}$*exp[zσ-0.5σ^2]

ATTACHMENT 14
ANTI-BACKSLIDING ANALYSIS

DSN 001-1

PARAMETER	UNITS	EXISTING PERMIT								PROPOSED PERMIT							
		Average Monthly Limit	Maximum Daily Limit	Sampling/ Reporting Frequency	Sample Type	Instantaneous Limit	Sampling/ Reporting Frequency	Sample Type	Limit Basis	Average Monthly Limit	Maximum Daily Limit	Sampling/ Reporting Frequency	Sample Type	Instantaneous Limit	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}>96	LC_{50}>47	Quarterly	DC	LC_{50}≥16	NR	Grab	TMDL
Acute Toxicity, *Pimephales promelas*	%									LC_{50}>96	LC_{50}>47	Quarterly	DC	LC_{50}≥16	NR	Grab	TMDL
Chronic Toxicity, *Ceriodaphnia dubia*	%									C-NOEC>9.(	C-NOEC>4.7	Annual	DC	NA	NR	NA	TMDL
Chronic Toxicity, *Pimephales promelas*	%									C-NOEC>9.(	C-NOEC>4.7	Annual	DC	NA	NR	NA	TMDL
Alkalinity	mg/L									---	---	Weekly	DC	NA	NR	NA	BPJ
Aluminum	ug/L	2000	4000	Weekly	DC	6.0	NR	Grab	STATE	167	335	Weekly	DC	502.5	NR	Grab	WQ
Aluminum	g/day									209	419	Weekly	DC	NA	NR	NA	WQ
Ammonia (as N)	mg/L	10	20	Monthly	DC	30	NR	NA	BPJ*	7.87	16.9	Weekly	DC	25.35	NR	Grab	WQ
Ammonia (as N)	kg/day									9.83	21.2	Weekly	DC	NA	NR	NA	WQ
BOD_5	kg/day	42.7	---	Monthly	DC	NA	NR	NA	BPJ								
BOD_5	mg/L									30	50	Monthly	DC	75	NR	Grab	BPJ
BOD_5	lbs/day									82.5	---	Monthly	DC	NA	NR	NA	BPJ
Cadmium, Total	ug/L	100	500	Semi-annual	DC	750	NR	Grab	STATE	0.14	0.21	Weekly	DC	0.31	NA	Grab	WQ
Cadmium, Total	g/day	23	46	Semi-annual	DC	NA	NR	NA	BPJ*	0.18	0.26	Weekly	DC	NA	NR	NA	WQ
Chloride, Total	mg/L									---	---	Monthly	DC	NA	NR	NA	BPJ
Chlorine, Total Residual	ug/L	115	232	Weekly	GSA	1000	NR	Grab	WQ	---	---	Weekly	GSA	NA	NR	Grab	WQ
Chlorine, Total Residual	g/day									---	---	Weekly	GSA	NA	NR	NA	WQ
Chromium, Total	ug/L	1000	2000	Semi-annual	DC	3000	NR	Grab	STATE	47	69	Weekly	DC	103.5	NR	Grab	WQ
Chromium, Total	g/day									59	86	Weekly	DC	NA	NR	NA	
Copper, Total	ug/L	474	876	Weekly	DC	1320	NR	Grab	BPJ*	13	26	Weekly	DC	39	NR	Grab	WQ
Copper, Total	g/day	228	457	Weekly	DC	NA	NR	NA	BPJ*	16	32	Weekly	DC	NA	NR	NA	WQ
Cyanide, Amenable	ug/L	100	200	Weekly	GSA	300	NR	NA	STATE	100	200	Weekly	DC	300	NR	Grab	STATE
Cyanide, Total	ug/L	220	400	Weekly	GSA	600	NR	Grab	BPJ*	35	71	Weekly	DC	106.5	NR	Grab	WQ
Cyanide, Total	g/day	193	386	Weekly	GSA	NA	NR	NA	BPJ*	44	89	Weekly	DC	NA	NR	NA	WQ
Flow Rate (Average Daily)	gpd	330,000	NA	Continuous	Flow	NA	NR	NA		330,000	NA	Continuous	Flow	NA	NR	NA	
Flow, Maximum during 24 hours	gpd	NA	400,000	Continuous	Flow	NA	NR	NA		NA	400,000	Continuous	Flow	NA	NR	NA	
Flow (Day of Sampling)	gpd	---	400,000	Weekly	Flow	NA	NR	NA		---	400,000	Weekly	Flow	NA	NR	NA	
Fluoride	mg/L	20	30	Weekly	DC	45	NR	Grab	STATE	20	30	Monthly	DC	45	NR	Grab	STATE
Formaldehyde	ug/L									---	---	Monthly	DC	NA	NR	NA	BPJ
Gold, Total	mg/L	0.1	0.5	Weekly	DC	0.75	NR	Grab	STATE	0.1	0.5	Monthly	DC	0.713	NR	Grab	STATE
Iron, Total	mg/L	3.0	5.0	Weekly	DC	7.5	NR	Grab	STATE	3.0	5.0	Monthly	DC	7.1	NR	Grab	STATE
Kjeldahl Nitrogen, Total (as N)	mg/L	---	---	Weekly	DC	NA	NR	NA	BPJ	---	---	Weekly	DC	NA	NR	NA	BPJ
Lead, Total	ug/L	16	48	Weekly	DC	150	NR	Grab	BPJ*	5.8	12	Weekly	DC	18	NR	Grab	WQ
Lead, Total	g/day	7	13	Weekly	DC	639	NR	NA	BPJ*	7.2	14.5	Weekly	DC	NA	NR	NA	WQ
Mercury, Total	ug/L									---	---	Monthly	DC	NA	NR	NA	BPJ
Mercury, Total	g/day									---	---	Monthly	DC	NA	NR	NA	BPJ
Nickel, Total	ug/L	653	1210	Weekly	DC	3000	NR	Grab	BPJ*	144	331	Weekly	DC	496.5	NR	Grab	WQ
Nickel, Total	g/day	442	887	Weekly	DC	NA	NR	NA	BPJ*	180	413	Weekly	DC	NA	NR	NA	WQ
Nitrate (as N)	mg/L	---	---	Weekly	DC	NA	NR	NA	BPJ	---	---	Weekly	DC	NA	NR	NA	BPJ
Nitrite (as N)	mg/L	---	---	Weekly	DC	NA	NR	NA	BPJ	---	---	Weekly	DC	NA	NR	NA	BPJ
Nitrogen (Total)	kg/day	17.7	NA	Weekly	DC	NA	NR	NA	BPJ								
Nitrogen (Total)	lbs/day									26.7	---	Weekly	DC	NA	NR	NA	BPJ
Oil & Grease, Total	mg/L	10.0	15.0	Weekly	GSA	20	NR	Grab	STATE	10.0	---	Weekly	GSA	20	NR	NA	STATE
Oil & Grease, Total	kg/day									12.5	---	Weekly	GSA	NA	NR	NA	STATE
pH, Minimum	SU	NA	NA	NR	NA	6.0	Continuous	RDM	BPT	NA	NA	NR	NA	6.0	Continuous	Minimum	NSPS
pH, Maximum	SU	NA	NA	NR	NA	9.0	Continuous	RDM	BPT	NA	NA	NR	NA	9.0	Continuous	Maximum	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	RDS	NSPS
Phosphorus, Total	mg/L									---	---	Monthly	DC	NA	NR	NA	BPJ
Phosphorus, Total	lbs/day									---	---	Monthly	DC	NA	NR	NA	BPJ
Silver, Total	ug/L	100	430	Weekly	DC	NA	NR	NA	STATE	6.6	16	Weekly	DC	24	NR	Grab	WQ
Silver, Total	g/day	27	54	Weekly	DC	NA	NR	NA	BPJ*	8.3	19.9	Weekly	DC	NA	NR	NA	WQ
Surfactants, Anionic	mg/L	NA	---	Monthly	DC	NA	NR	NA	BPJ	---	---	Monthly	DC	NA	NR	NA	BPJ
Tin, Total	mg/L	2.0	4.0	Weekly	DC	6.0	NR	Grab	STATE	2.0	4.0	Monthly	DC	NA	NR	NA	STATE
Total Suspended Solids	mg/L	20	30	Weekly	DC	45	NR	Grab	STATE	20	30	Weekly	DC	45	NR	Grab	STATE
Total Suspended Solids	kg/day									24.9	37.4	Weekly	DC	NA	NR	NA	
Total Toxic Organics	mg/L	NA	NA	NR	NA	1.0	Monthly	Grab	BPJ	NA	NA	NR	NA	~~2.12~~	NR	NA	BPJ
Zinc, Total	ug/L	1000	2000	Weekly	DC	3000	NR	Grab	STATE	39	65	Weekly	DC	97.5	NR	Grab	WQ
Zinc, Total	g/day	28	55	Weekly	DC	3.0	NR	Grab	BPJ*	49	81	Weekly	DC	NA	NR	NA	WQ

NOTES REGARDING EXISTING PERMIT

BPJ*: The fact sheet for the existing permit indicates that this limit was a water quality-based limit.

NOTES REGARDING PROPOSED PERMIT

TTO: The TTO limit in the existing permit is more stringent than the limit calculated for this permit renewal. Therefore, the TTO limit in the existing permit will be carried forward.

Zinc: The fact sheet for the previous permit indicates that the zinc limits were water-quality based limits. However, these limits were not calculated in accordance with the procedures for developing water quality-based limits. The limits in the proposed permit are calculated in accordance with the correct procedures.

Connecticut Department of
ENERGY &
ENVIRONMENTAL
PROTECTION

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NOTICE OF TENTATIVE DECISION
INTENT TO RENEW
A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT
FOR THE FOLLOWING DISCHARGES
INTO THE WATERS OF THE STATE OF CONNECTICUT

TENTATIVE DECISION

The Commissioner of Energy and Environmental Protection ("Commissioner") hereby gives notice of a tentative decision to renew a permit to discharge into the waters of the state based on an application submitted by **SUMMIT CORPORATION OF AMERICA** ("the applicant") under section 22a-430 of the Connecticut General Statutes ("CGS"). The receiving water associated with this permit renewal is the Naugatuck River.

In accordance with applicable federal and state law, the Commissioner has made a tentative decision that modification of the existing system would protect the waters of the state from pollution.

The proposed permit, if issued by the Commissioner, will require that the subject wastewater be treated to meet the applicable effluent limitations/conditions and will require periodic monitoring to demonstrate that the discharge will not cause pollution.

ACTIVITIES THAT ARE THE SUBJECT OF THE DRAFT PERMIT

Summit Corporation of America ("Summit") has submitted an application for the renewal of its NPDES permit, CT0001180. The activities which are the subject of this application take place at Summit's facility at 1430 Waterbury Road in Thomaston, Connecticut. The activity involves the collection, treatment, and discharge of wastewater generated from Summit's metal finishing operations. The type of wastewater treatment that occurs on-site includes: cyanide destruction, equalization, metals precipitation, flocculation, and clarification. Hexavalent chromium treatment is proposed. The discharge consists of the following types of wastewaters: metal finishing wastewaters; laboratory wastewater; water treatment wastewater; air scrubber wastewater; floor wash water/building maintenance wastewater; tumbling wastewater; on-site groundwater remediation wastewater (proposed); drum rinsing wastewater; reverse osmosis backwash water; boiler blowdown; air compressor blowdown/condensate; and fire suppression test water. The treated wastewater contains the following types of toxic pollutants: metals, cyanide, and total toxic organics. Following treatment, this wastewater is discharged into the Naugatuck River through one outfall, identified as Discharge Serial Number ("DSN") 001-1, location as follows:

DISCHARGE ID	LATITUDE	LONGITUDE	LOCATION
DSN 001-1	41° 37' 38.38"	73° 04' 10.53"	Approx. 2 miles south of Reynolds Bridge, east side of the Naugatuck River

The draft permit allows for up to 400,000 gallons per day of treated wastewater to be discharged from DSN 001-1. This is a continuous discharge. The wastewater discharge is subject to 40 CFR 433 (Metal Finishing Point Source Category).

REGULATORY CONDITIONS

Effluent Limitations and Conditions: Consistent with section 22a-430-4(*l*) of the Regulations of Connecticut State Agencies (RCSA), limitations and conditions in this permit are based on: 1) Section 301(b)(1)(C) of the Clean Water Act; 2) 40 CFR 433.16, New Source Performance Standards; 3) Section 22a-430-4(s) of the RCSA; 4) a Case-by-Case determination established in accordance with section 22a-430-4(m) of the RCSA. In addition, the permit contains limitations on internal waste streams. The permit limits and conditions will ensure that the state's Water Quality Standards, including the antidegradation standards and policies, are met.

Compliance Schedule: This permit contains an enforceable compliance schedule which requires the applicant to take steps to comply with water quality based permit limits.

COMMISSIONER'S AUTHORITY

The Commissioner is authorized to approve or deny such permits pursuant to section 22a-430 of the Connecticut General Statutes and the Water Discharge Permit Regulations (Sections 22a-430-3 and 22a-430-4 of the RCSA).

INFORMATION REQUESTS

The application has been assigned the following numbers by the Department of Energy and Environmental Protection. Please use these numbers when corresponding with this office regarding this application.

APPLICATION NO. **201205290** PERMIT ID NO. **CT0001180** FACILITY ID NO. **140-011**

The name and mailing address of the permit applicant are: Summit Corporation of America, 1430 Waterbury Road, Thomaston, Connecticut 06787

Interested persons may obtain copies of the application by contacting Mark Conti, Plant Manager, Summit Corporation of America, Thomaston, Connecticut at (860) 283-4391 ext. 273

The application is available for inspection by contacting Christine Gleason at (860) 424-3278 at the Department of Energy and Environmental Protection, Bureau of Materials Management and Compliance Assurance, 79 Elm Street, Hartford, CT 06106-5127 from 8:30-4:30, Monday through Friday.

The draft permit and fact sheet are available on the Department's website at http://www.ct.gov/deep/ under "Public Notices".

Any interested person may request in writing that his or her name be put on a mailing list to receive notice of intent to issue any permit to discharge to the surface waters of the state. Such request may be for the entire state or any geographic area of the state and shall clearly state in writing the name and mailing address of the interested person and the area for which notices are requested.

PUBLIC COMMENT

Prior to making a final determination to approve or deny any application, the Commissioner shall consider written comments on the application from interested persons that are received within thirty days of this public notice. Written comments should be directed to Christine Gleason, Bureau of Materials Management and Compliance Assurance, Department of Energy and Environmental Protection, 79 Elm Street, Hartford, CT, 06106-5127. The Commissioner may hold a public hearing prior to approving or denying an application if in the Commissioner's discretion the public interest will be best served thereby, and shall hold a hearing upon receipt of a petition signed by at least twenty-five persons. Notice of any public hearing shall be published at least thirty days prior to the hearing.

Petitions for a hearing should include the application number noted above and also identify a contact person to receive notifications. Petitions may also identify a person who is authorized to engage in discussions regarding the application and, if resolution is reached, withdraw the petition. Original signed petitions may be scanned and sent electronically to deep.adjudications@ct.gov or may be mailed or delivered to: DEEP Office of Adjudications, 79 Elm Street, 3rd floor, Hartford, CT 06106-5127. If submitted electronically, original signed petitions must also be mailed or delivered to the address above within ten days of electronic submittal.

The Connecticut Department of Energy and Environmental Protection is an Affirmative Action and Equal Opportunity Employer that is committed to complying with the Americans with Disabilities Act. To request an accommodation contact us at (860) 418-5910 or deep.accommodations@ct.gov

OSWALD INGLESE, JR., Director
Water Permitting and Enforcement Division
Bureau of Materials Management and Compliance Assurance

Dated: May 24, 2019