National Pollutant Discharge Elimination System Permit
issued to

Permittee:
Pharmacia & Upjohn Company LLC
c/o Pfizer Inc.
66 Hudson Boulevard East
New York, NY 10001

Location Address:
41 Stiles Lane
North Haven, CT 06473

Permit ID: CT0001341

Issuance Date: Date of Signature

Receiving Water Body: Quinnipiac River

Effective Date: 1st of the month after Issuance Date

Receiving Water Body ID: CT5200-00_01

Permit Expires: 5 years from effective date

SECTION 1: GENERAL PROVISIONS

1.1 This permit is reissued in accordance with Section 22a-430 of Chapter 446k, Connecticut General Statutes (Conn. Gen. Stat.), and Regulations of Connecticut State Agencies (Regs. Conn. State Agencies) 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 National Pollutant Discharge Elimination System ("NPDES") permit program.

1.2 **Pharmacia & Upjohn Company LLC** ("Permittee") shall comply with all conditions of this permit including the following sections of the Regs. Conn. State Agencies which have been adopted pursuant to Section 22a-430 of the Conn. Gen. Stat. 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
(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
(s) Treatment Requirements

1.3 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 Conn. Gen. Stat. and Regs. Conn. State Agencies.

1.4 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 Conn. Gen. Stat. or in accordance with Section 22a-6, under Section 53a-157b of the Conn. Gen. Stat.

1.5 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 (30) 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 Conn. Gen. Stat. and Regs. Conn. State Agencies.

1.6 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.

1.7 Nothing in this permit shall relieve the Permittee of other obligations under applicable federal, state and local law.

1.8 An annual fee shall be paid for each year this permit is in effect as set forth in Section 22a-430-7 of the Regs. Conn. State Agencies.

1.9 This permitted discharge is consistent with the applicable goals and policies of the Connecticut Coastal Management Act (Section 22a-92 of the Conn. Gen. Stat.).

1.10 The Permittee shall operate and maintain its collection and treatment system in accordance with its Operation and Maintenance Plan and with any approvals issued in accordance with Regs. Conn. State Agencies Section 22a-430-3(i)(3). The Permittee shall revise and maintain the Operation and Maintenance Plan upon the Commissioner's request or to address equipment or operational changes in accordance with Regs. Conn. State Agencies Section 22a-430-3(f)(2).

1.11 The Permittee shall implement its Spill Prevention and Control Plan in accordance with Regs. Conn. State Agencies Section 22a-430-3(p) and 22a-430-4(c)(10). The plan shall include practices, procedures and facilities designed to prevent, minimize and control spills, leaks or such other unplanned releases of all toxic or hazardous substances and any other substances to prevent pollution of the waters of the state. Such requirements shall, unless otherwise allowed by the Commissioner, apply to all facilities used for storing, handling, transferring, loading or unloading such substances, including manufacturing areas. The Permittee shall revise and maintain the Spill Prevention and Control Plan upon the Commissioner's request or to address equipment or operational changes.

1.12 The Permittee's facility is classified as a Class II wastewater treatment facility pursuant to the Wastewater Treatment Facility Operator Certification rules at Regs. Conn. State Agencies Section 22a-416. The Permittee shall employ certified operator(s) in accordance with Regs. Conn. State Agencies Sections 22a-416 and 22a-430-3(f). The Permittee shall notify the Commissioner within 14 days after a chief operator, shift operator, or process control operator begins or terminates employment at the Permittee's wastewater treatment facility. Notifications shall be provided to the Wastewater Operator Certification Section at the Bureau of Water Protection and Land Reuse, Department of Energy and Environmental Protection, 79 Elm Street, Hartford, CT 06106-5127, or electronically at Craig.Motasky@ct.gov.

SECTION 2: DEFINITIONS

2.1 The definitions of the terms used in this permit shall be the same as the definitions contained in Section 22a-423 of the Conn. Gen. Stat. and Section 22a-430-3(a) and 22a-430-6 of the Regs. Conn. State Agencies.

2.2 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, B, and C of this permit, means that sampling is required in the month of September.

"Average Monthly Limit" means the maximum allowable "Average Monthly Concentration" as defined in Section 22a-430-3(a) of the Regs. Conn. State Agencies 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 Regs. Conn. State Agencies.

Connecticut Water Quality Standards means the regulations adopted under Regs. Conn. State Agencies 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.

"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 Regs. Conn. State Agencies.

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

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

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

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

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

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

"Twice/Month" when used as a sampling frequency in Table A of this permit, means that sampling is required twice in a calendar month, and that each sample must be collected no less than twelve days apart.

SECTION 3: COMMISSIONER'S DECISION

3.1 The Commissioner has issued a final determination and found that continuance of the existing discharge will not cause pollution of the waters of the state. The Commissioner's decision is based on Application No. 202302964 for permit reissuance received on April 3, 2023, and the administrative record established in the processing of that application.

3.2 Upon the effective date 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, the information provided in Application No. 202302964, received by the Commissioner on April 3, 2023, the administrative record established in the processing of that application, 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.

3.3 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 Conn. Gen. Stat. 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 Conn. Gen. Stat. or regulations adopted thereunder which are then applicable.

SECTION 4: GENERAL EFFLUENT LIMITATIONS

4.1 The Permittee shall assure that the surface water affected by the subject discharge shall conform to the *Connecticut Water Quality Standards*.

4.2 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.

4.3 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.

4.4 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

5.1 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 "Footnotes" and "Remarks" noted in the tables that follow. Such footnotes and remarks are enforceable like any other term or condition of this permit.

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

5.3 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.

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

Table A

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

Wastewater Description: *Treated: Contaminated Groundwater; Decontamination Station Wastewater; Excavation Dewatering Wastewater; Stormwater from Equalization Tank Containment; Floor Wash Wastewater; Laboratory Sink Wastewaters; Pump Seal Water; Process Tank and Equipment Cleaning Wastewater; Carbon Unit Backwashing; Sand Filter Backwashing; Air Compressor/Dryer Condensate; Basket Strainer Wash Water*

Monitoring Location Description: Final effluent chamber ("PT-4")

Discharge is to:	**Zone of Influence:**	**Instream Waste Concentration:**	**Outfall Location:**
Quinnipiac River	69,264 gallons per hour (chronic), 0 gallons per hour (acute)	5.4 %	Latitude (41° 22' 24") and Longitude (72° 52' 25")

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINIMUM LEVEL [2]
			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	
1-Chloro-2-nitrobenzene	51649	µg/L	10.2	17.7	Quarterly	Daily Composite	26.5	NR	Grab	5
1-Chloro-2-nitrobenzene	51649	g/day	3.62	6.29	Quarterly	Calculation	NA	NR	NA	
1,1-Dichloroethane	34496	µg/L	---	---	Annually	Grab Sample Average	NA	NR	NA	1
1,1-Dichloroethylene	34501	µg/L	---	---	Quarterly	Grab Sample Average	NA	NR	NA	3.2
1,1,1-Trichloroethane	34506	µg/L	---	---	Quarterly	Grab Sample Average	NA	NR	NA	
1,2-Dichlorobenzene	34536	µg/L	---	---	Annually	Grab Sample Average	NA	NR	NA	1
1,2-Dichloroethane	32103	µg/L	---	---	Annually	Grab Sample Average	NA	NR	NA	1
1,2-trans-Dichloroethylene	34546	µg/L	---	---	Annually	Grab Sample Average	NA	NR	NA	1
1,2,4-Trichlorobenzene	34551	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	1
1,3-Dichlorobenzene	34566	µg/L	---	---	Annually	Grab Sample Average	NA	NR	NA	1
1,4-Dichlorobenzene	34571	µg/L	---	---	Annually	Grab Sample Average	NA	NR	NA	1
1,4-Dioxane	82388	µg/L	43.3	75.0	Twice/Month	Daily Composite	113	NR	Grab	1
1,4-Dioxane	82388	g/day	15.4	26.6	Twice/Month	Calculation	NA	NR	NA	
2-Chloroaniline	77287	µg/L	37.1	64.3	Monthly	Daily Composite	96.0	NR	Grab	5
2-Chloroaniline	77287	g/day	13.1	22.8	Monthly	Calculation	NA	NR	NA	
2-Chlorophenol	34586	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	2
2-Methylphenol	78395	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	5
2,4-Dichlorophenol	34601	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	5
2,4-Dimethylphenol	34606	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	5
2,4,6-Trichlorophenol	34621	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	4
3-Chloroaniline	77286	µg/L	---	---	Monthly	Daily Composite	NA	NR	NA	10
3,3'-Dichlorobenzidine	34631	µg/L	---	---	Monthly	Daily Composite	NA	NR	NA	2
3,3'-Dimethylbenzidine	51647	µg/L	---	---	Monthly	Daily Composite	NA	NR	NA	5
3,4-Benzofluoranthene	79531	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	2
3&4-Methylphenol	51567	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	5
4-Chloroaniline	50312	µg/L	2.83	5.0 [3]	Monthly	Daily Composite	7.35	NR	Grab	5
4-Chloroaniline	50312	g/day	1.00	1.74	Monthly	Calculation	NA	NR	NA	
Acenaphthene	34205	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	2
Acenaphthylene	34200	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	2
Aluminum, Total	01105	µg/L	71	136	Twice/Month	Daily Composite	204	NR	Grab	5

Table A

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Monitoring Location Description: Final effluent chamber ("PT-4")

Discharge is to:	**Zone of Influence:**	**Instream Waste Concentration:**	**Outfall Location:**
Quinnipiac River	69,264 gallons per hour (chronic), 0 gallons per hour (acute)	5.4 %	Latitude (41° 22' 24") and Longitude (72° 52' 25")

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINIMUM LEVEL [2]
			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	
Aluminum, Total	01105	g/day	25	48	Twice/Month	Calculation	NA	NR	NA	
Ammonia (as N) *(April 1 – October 31)*	00610	mg/L	0.902	1.745	Monthly	Daily Composite	2.618	NR	Grab	
Ammonia (as N) *(April 1 – October 31)*	00610	kg/day	0.320	0.620	Monthly	Calculation	NA	NR	NA	
Ammonia (as N) *(November 1 – March 31)*	00610	mg/L	---	---	Monthly	Daily Composite	NA	NR	NA	
Aniline	77089	µg/L	---	---	Quarterly	Daily Composite	NA	NR	NA	2
Anthracene	34220	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	2
Antimony, Total	01268	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	1
Arsenic, Total	01252	µg/L	0.021	2.0 [4]	Monthly	Daily Composite	NA	NR	NA	2
Arsenic, Total	01252	g/day	0.0074	0.012	Monthly	Calculation	NA	NR	NA	
Azobenzene	77625	µg/L	0.20	2.0 [5]	Monthly	Daily Composite	2.0 [5]	NR	Grab	2
Azobenzene	77625	g/day	0.071	0.12	Monthly	Calculation	NA	NR	NA	
Barium, Total	01009	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	1
Benzene	34030	µg/L	51.0	88.4	Quarterly	Grab Sample Average	133	Quarterly [7]	Grab	0.5
Benzene	34030	g/day	18.1	31.4	Quarterly	Calculation	NA	NR	NA	
Benzidine	39120	µg/L	---	---	Monthly	Daily Composite	NA	NR	NA	5
Benzo(a)anthracene	34526	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	1
Benzo(a)pyrene	34247	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	1
Benzoic Acid	77247	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	50
Biochemical Oxygen Demand, 5-day (BOD_5)	00310	mg/L	20	30	Monthly	Daily Composite	45	NR	Grab	
Biochemical Oxygen Demand, 5-day (BOD_5)	00310	kg/day	7.1	10	Monthly	Calculation	NA	NR	NA	
Bis(2-chloroethyl) ether	34273	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	2
Bis(2-ethylhexyl) phthalate	39100	µg/L	2.2	3.8	Monthly	Daily Composite	5.7	NR	Grab	2.2
Bis(2-ethylhexyl) phthalate	39100	g/day	0.78	1.3	Monthly	Calculation	NA	NR	NA	
Cadmium, Total	01113	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	0.2
Carbazole	77571	µg/L	---	---	Quarterly	Daily Composite	NA	NR	NA	2
Carbon Disulfide	77041	µg/L	---	---	Annually	Grab Sample Average	NA	NR	NA	5

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			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	
Chlorine, Total Residual	50060	µg/L	---	---	Quarterly	Grab Sample Average	NA	NR	NA	10
Chlorobenzene	34301	µg/L	---	---	Quarterly	Grab Sample Average	NA	NR	NA	1
Chloroethane	85811	µg/L	---	---	Annually	Grab Sample Average	NA	NR	NA	1
Chloroform	32106	µg/L	---	---	Annually	Grab Sample Average	NA	NR	NA	1
Chromium, Total	01034	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	1
Chrysene	34320	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	1
cis-1,2-Dichloroethene	81686	µg/L	---	---	Quarterly	Grab Sample Average	NA	NR	NA	1
Copper, Total	01042	µg/L	2.9	3.4	Twice/Month	Daily Composite	NA	NR	NA	3
Copper, Total	01042	g/day	1.0	1.2	Twice/Month	Calculation	NA	NR	NA	
Cyanide, Total	00720	µg/L	0.58	1.0	Twice/Month	Grab Sample Average	5.0 [6]	Monthly [7]	Grab	5
Cyanide, Total	00720	g/day	0.20	0.35	Twice/Month	Calculation	NA	NR	NA	
Dibenzofuran	81302	µg/L	---	---	Quarterly	Daily Composite	NA	NR	NA	2
Dichloran	38446	µg/L	---	---	Quarterly	Daily Composite	NA	NR	NA	5
Diphenamid	78004	µg/L	---	---	Quarterly	Daily Composite	NA	NR	NA	5
Ethylbenzene	34371	µg/L	---	---	Annually	Grab Sample Average	NA	NR	NA	0.5
Flow Rate, Average Daily [8]	00056	gpd	94,000	NA	Daily	Continuous	NA	NR	NA	
Flow, Maximum during 24-hr period [8]	50047	gpd	NA	129,600	Daily	Continuous	NA	NR	NA	
Fluoranthene	34376	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	1.28
Fluorene	34381	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	2
Formaldehyde	71880	µg/L	---	---	Monthly	Daily Composite	NA	NR	NA	50
Iron, Total	01045	µg/L	---	---	Quarterly	Daily Composite	NA	NR	NA	10
Lead, Total	01051	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	0.4
m-Toluidine	51648	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	10
Manganese, Total	11123	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	
Mercury, Total	50092	µg/L	---	---	Monthly	Daily Composite	NA	NR	NA	0.05
Methyl bromide	34413	µg/L	---	---	Annually	Grab Sample Average	NA	NR	NA	0.5
Methylene chloride	34423	µg/L	---	---	Annually	Grab Sample Average	NA	NR	NA	0.5
Methyl tert butyl ether	22417	µg/L	---	---	Annually	Grab Sample Average	NA	NR	NA	1
Naphthalene	34696	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	2
Nickel, Total	01067	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	2.5

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Nitrate (as N)	00620	mg/L	---	---	Monthly	Daily Composite	NA	NR	NA	
Nitrite (as N)	00615	mg/L	---	---	Monthly	Daily Composite	NA	NR	NA	
Nitrobenzene	34447	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	2
Nitrogen, Total (as N)	00600	lbs/day	---	---	Monthly	Calculation [9]	NA	NR	NA	
Nitrogen, Total (as N), Annual Loading	00600	lbs/day	75.0	NA	Annually [9]	Calculation [9]	NA	NR	NA	
Organic Nitrogen	00605	mg/L	---	---	Monthly	Daily Composite	NA	NR	NA	
Oxygen, Dissolved (Minimum)	00300	mg/L	NA	NA	NR	NA	---	Monthly	Grab	
PCBs (Polychlorinated Biphenyls as Total PCBs) [10]	51867	µg/L	0.000064	0.05 [11]	Twice/Month	Daily Composite	0.05 [11]	NR	Grab	0.05
PCBs (Polychlorinated Biphenyls as Total PCBs) [10]	51867	g/day	0.000022	0.000037	Twice/Month	Calculation	NA	NR	NA	
pH, Minimum [8]	61942	SU	NA	NA	NR	NA	6.5	Continuous	Instantaneous	
pH, Maximum [8]	61941	SU	NA	NA	NR	NA	8.0	Continuous	Instantaneous	
Phenanthrene	34461	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	1.4
Phenol	34694	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	5
Phosphorus, Total	00665	mg/L	---	---	Monthly	Daily Composite	NA	NR	NA	0.1
Pyrene	34469	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	2
Silver, Total	01077	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	0.2
Sulfide	00745	mg/L	---	---	Quarterly	Daily Composite	NA	NR	NA	50
Tetrachloroethylene	34475	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	0.5
Toluene	34010	µg/L	---	---	Quarterly	Grab Sample Average	NA	NR	NA	0.5
Total Suspended Solids	00530	mg/L	20.0	30.0	Monthly	Daily Composite	45.0	NR	Grab	
Total Suspended Solids	00530	kg/day	7.1	10.6	Monthly	Calculation	NA	NR	NA	
Trichloroethylene	39180	µg/L	---	---	Annually	Grab Sample Average	NA	NR	NA	0.5
Vanadium, Total	01128	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	5
Vinyl chloride	39175	µg/L	---	---	Quarterly	Grab Sample Average	NA	NR	NA	0.5
Xylenes, Total	81551	µg/L	---	---	Annually	Grab Sample Average	NA	NR	NA	0.5
Zinc, Total	01092	µg/L	---	---	Annually	Daily Composite	NA	NR	NA	10

TABLE A FOOTNOTES AND REMARKS

Footnotes:

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

[2] Refer to Section 6.4 of this permit. The minimum levels ("MLs) identified in this table represent the highest acceptable MLs that shall be achieved by the Permittee's analytical methods. Actual MLs reported by the laboratory must be reported as a comment on the DMR. Detected concentrations less than the laboratory ML shall be reported on the DMR in accordance with Section 6.6.

[3] The maximum daily effluent limit for 4-Chloroanilineis 4.90 µg/L. This limit is below the ML for the analytical test; therefore, a compliance level of 5.0 µg/L has been set equivalent to the ML and incorporated into Table A. Results at or below the compliance level will be considered in compliance with permit effluent limits. Refer to Section 6.0 for sampling, analytical, and reporting requirements.

[4] The maximum daily effluent limit for Arsenic is 0.034 µg/L. This limit is below the ML for the analytical test; therefore, a compliance level of 2.0 µg/L has been set equivalent to the ML and incorporated into Table A. Results at or below the compliance level will be considered in compliance with permit effluent limits. Refer to Section 6.0 for sampling, analytical, and reporting requirements.

[5] The effluent limits for Azobenzene are as follows: 0.35 µg/L, maximum daily limit; and 0.52 µg/L, maximum instantaneous limit. These limits are below the ML for the analytical test; therefore, a compliance level of 2.0 µg/L has been set equivalent to the ML and incorporated into Table A. Results at or below the compliance level will be considered in compliance with permit effluent limits. Refer to Section 6.0 for sampling, analytical, and reporting requirements.

[6] The maximum instantaneous effluent limit for Cyanide is 1.5 µg/L. This limit is below the ML for the analytical test; therefore, a compliance level of 5.0 µg/L has been set equivalent to the ML and incorporated into Table A. The average monthly and maximum daily effluent limits for Cyanide are below the ML, however, results below the minimum level of the analytical method shall be considered equivalent to zero (0) for calculating averages. Results at or below the compliance level will be considered in compliance with permit effluent limits. Refer to Section 6.0 for sampling, analytical, and reporting requirements.

[7] Grab samples collected as part of the grab sample average monitoring satisfy the instantaneous monitoring requirement. The Permittee shall report the maximum instantaneous grab sample to demonstrate compliance with the instantaneous limit.

[8] For this parameter, the Permittee shall maintain at the facility a record of the Total Daily Flow and pH range for each operating day. The Permittee shall report on its DMR the "Average Daily Flow" and the "Maximum Daily Flow" and pH for each month and shall provide the record of the Total Daily Flow and pH range as an attachment to the DMR.

[9] Daily Total Nitrogen concentration means the sum of the concentrations of: ammonia nitrogen + organic nitrogen + nitrate nitrogen + nitrite nitrogen for that day. Daily Total Nitrogen means the daily Total Nitrogen concentration multiplied by the daily flow volume and converted to lbs/day. The average monthly Total Nitrogen shall be reported as the sum of the daily Total Nitrogen divided by the number of nitrogen sampling days during the month and rounded to the nearest whole number. Total Nitrogen (Annual Loading) shall be reported as the sum of the average monthly Total Nitrogen from January through December divided by 12 and rounded to the nearest whole number. Total Nitrogen (Annual Loading) shall be reported on the December DMR.

[10] Total PCBs is the sum of all congeners or all isomer or homolog or Aroclor analyses.

[11] The effluent limits for Total PCBs are as follows: 0.000104 µg/L, maximum daily limit; and 0.000166 µg/L, maximum instantaneous limit. These limits are below the ML for the analytical test; therefore, a compliance level of 0.05 µg/L has been set equivalent to the ML and incorporated into Table A. Results at or below the compliance level will be considered in compliance with permit effluent limits. Refer to Section 6.0 for sampling, analytical, and reporting requirements.

Remarks:

1. Abbreviations used for units are as follows: gpd means gallons per day; g/day means grams per day; kg/day means kilograms per day; mg/L means milligrams per liter; lbs/day means pounds per day; SU means Standard Units; µg/L means micrograms per liter. Other abbreviations are as follows: NA means Not Applicable; NR means Not Reportable (unless sampling is conducted relative to Section 5.4 of this permit).
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. In calculating average concentrations, use zeros for values reported as less than the ML.
4. "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.
5. Actual MLs reported by the laboratory must be reported on the DMR. Detected concentrations less than the noted ML shall be reported in accordance with Section 6.6 and the estimated concentration shall be reported as an attachment to the DMR.
6. Supplemental data shall be provided as required and shall be reported consistent with Section 8.1 of this permit. The supplemental data can be provided in any acceptable format as long as it contains the information identified on Attachment A.

Table B – Acute Toxicity Monitoring

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

Monitoring Location Codes:
Y – Acute toxicity effluent results
O – Acute toxicity chemical analyses
U – Salinity adjusted effluent chemical analyses

Wastewater Description: ***Treated: Contaminated Groundwater; Decontamination Station Wastewater; Excavation Dewatering Wastewater; Stormwater from Equalization Tank Containment; Floor Wash Wastewater; Laboratory Sink Wastewaters; Pump Seal Water; Process Tank and Equipment Cleaning Wastewater; Carbon Unit Backwashing; Sand Filter Backwashing; Air Compressor/Dryer Condensate; Basket Strainer Wash Water***

Monitoring Location Description: **Final effluent chamber ("PT-4")**

Discharge is to:	Zone of Influence:	Instream Waste Concentration:	Outfall Location:
Quinnipiac River	**0 gallons per hour**	**100 %**	**Latitude (41° 22' 24") and Longitude (72° 52' 25")**

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINIMUM LEVEL [5]	MONIT-ORING LOCA-TION
			Average Monthly Limit	Minimum Daily Limit or Maximum Daily Limit [1]	Sample/ Reporting Frequency [2, 3]	Sample Type or Measurement to be Reported [4]	Instantaneous Limit or Required Range	Sample/ Reporting Frequency	Sample Type or Measurement to be Reported		
Whole Effluent Toxicity (WET)											
Acute Aquatic Toxicity [6] *Americamysis bahia,* LC_{50}	TAA3E	%	NA	≥ 100	Semiannual	Daily Composite	≥ 33.3	NR	Grab		Y
Acute Aquatic Toxicity [6] *Cyprinodon variegatus,* LC_{50}	TAA6A	%	NA	≥ 100	Semiannual	Daily Composite	≥ 33.3	NR	Grab		Y
Chemical Analyses Required with Acute Whole Effluent Toxicity Monitoring – See Section 7.1.6. for Acute Testing [7]											
Date of Acute WET Chemistry Sample Collection [8]	51883	YYYYMMDD	NA	---	Semiannual	Calculated	NA	NR	NA		Y
1-Chloro-2-nitrobenzene	51649	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	5	O
1,1-Dichloroethylene	34501	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	3.2	O
1,1,1-Trichloroethane	34506	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA		O
1,4-Dioxane	82388	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	1	O
2-Chloroaniline	77287	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	5	O
3-Chloroaniline	77286	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	10	O
3,3'-Dichlorobenzidine	34631	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	2	O
3,3'-Dimethylbenzidine	51647	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	5	O
4-Chloroaniline	50312	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	5	O
Alkalinity	00410	mg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA		O
Aluminum, Total	01105	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	5	O, U
Ammonia (as N)	00610	mg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA		O, U
Aniline	77089	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	2	O
Arsenic, Total	01252	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	2	O, U
Azobenzene	77625	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	2	O
Benzene	34030	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	0.5	O
Benzidine	39120	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	5	O
Biochemical Oxygen Demand, 5-day (BOD_5)	00310	mg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA		O, U
Bis(2-ethylhexyl) phthalate	39100	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	2.2	O

Table B – Acute Toxicity Monitoring

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

Monitoring Location Codes:
Y – Acute toxicity effluent results
O – Acute toxicity chemical analyses
U – Salinity adjusted effluent chemical analyses

Wastewater Description: ***Treated: Contaminated Groundwater; Decontamination Station Wastewater; Excavation Dewatering Wastewater; Stormwater from Equalization Tank Containment; Floor Wash Wastewater; Laboratory Sink Wastewaters; Pump Seal Water; Process Tank and Equipment Cleaning Wastewater; Carbon Unit Backwashing; Sand Filter Backwashing; Air Compressor/Dryer Condensate; Basket Strainer Wash Water***

Monitoring Location Description: **Final effluent chamber ("PT-4")**

Discharge is to:	Zone of Influence:	Instream Waste Concentration:	Outfall Location:
Quinnipiac River	**0 gallons per hour**	**100 %**	**Latitude (41° 22' 24") and Longitude (72° 52' 25")**

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINIMUM LEVEL [5]	MONIT-ORING LOCA-TION
			Average Monthly Limit	Minimum Daily Limit or Maximum Daily Limit [1]	Sample/ Reporting Frequency [2, 3]	Sample Type or Measurement to be Reported [4]	Instantaneous Limit or Required Range	Sample/ Reporting Frequency	Sample Type or Measurement to be Reported		
Carbazole	77571	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	2	O
Chlorine, Total Residual	50060	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	10	O, U
Chlorobenzene	34301	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	1	O
cis-1,2-Dichloroethene	81686	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	1	O
Copper, Total	01042	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	3	O
Cyanide, Total	00720	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	5	O, U
Dibenzofuran	81302	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	2	O
Dichloran	38446	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	5	O
Diphenamid	78004	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	5	O
Flow, Day of Sampling	74076	gpd	NA	---	Semiannual	Daily Composite	NA	NR	NA		Y
Formaldehyde	71880	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	50	O
Hardness, Total	00900	mg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA		O
Iron, Total	01045	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	10	O
Mercury, Total	50092	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	0.05	O, U
Nitrate (as N)	00620	mg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA		O, U
Nitrite (as N)	00615	mg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA		O, U
Organic Nitrogen	00605	mg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA		O
Oxygen, Dissolved (Minimum)	00300	mg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA		O
PCBs (Polychlorinated Biphenyls as Total PCBs) [9]	51867	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	0.05	O
pH, Day of Sampling	00400	SU	NA	---	Semiannual	Daily Composite	NA	NR	RDS		O, U
Phosphorus, Total	00665	mg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	0.1	O
Salinity	00480	g/L	NA	---	Semiannual	Daily Composite	NA	NR	NA		O, U
Specific Conductance	00095	uMhos/cm	NA	---	Semiannual	Daily Composite	NA	NR	NA		O
Sulfide	00745	mg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	50	O
Toluene	34010	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	0.5	O
Total Suspended Solids	00530	mg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA		O, U
Vinyl chloride	39175	µg/L	NA	---	Semiannual	Daily Composite	NA	NR	NA	0.5	O

Table B – Acute Toxicity Monitoring

Discharge Serial Number: **DSN 001-AT**	Monitoring Location Codes: **Y – Acute toxicity effluent results** **O – Acute toxicity chemical analyses** **U – Salinity adjusted effluent chemical analyses**

Wastewater Description: ***Treated: Contaminated Groundwater; Decontamination Station Wastewater; Excavation Dewatering Wastewater; Stormwater from Equalization Tank Containment; Floor Wash Wastewater; Laboratory Sink Wastewaters; Pump Seal Water; Process Tank and Equipment Cleaning Wastewater; Carbon Unit Backwashing; Sand Filter Backwashing; Air Compressor/Dryer Condensate; Basket Strainer Wash Water***

Monitoring Location Description: **Final effluent chamber ("PT-4")**

Discharge is to:	Zone of Influence:	Instream Waste Concentration:	Outfall Location:
Quinnipiac River	**0 gallons per hour**	**100 %**	**Latitude (41° 22' 24") and Longitude (72° 52' 25")**

PARAMETER	**NET DMR CODE**	**UNITS**	**FLOW/TIME BASED MONITORING**				**INSTANTANEOUS MONITORING**			**MINIMUM LEVEL [5]**	**MONIT-ORING LOCA-TION**
			Average Monthly Limit	Minimum Daily Limit or Maximum Daily Limit [1]	Sample/ Reporting Frequency [2, 3]	Sample Type or Measurement to be Reported [4]	Instantaneous Limit or Required Range	Sample/ Reporting Frequency	Sample Type or Measurement to be Reported		

TABLE B FOOTNOTES AND REMARKS

Footnotes:

[1] WET limits are expressed as a minimum daily limit, meaning the minimum allowable daily discharge over the course of the 24-hour sampling period. Chemical results analyzed in conjunction with WET tests shall be reported as the max value collected during the 24-hour sampling period.

[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] If more than one toxicity sample is collected during a single month, report subsequent WET and chemistry results as an attachment to the DMR in accordance with Sections 8.2 and 9.4 of this permit.

[4] Daily composite samples shall be collected for acute toxicity tests consistent with the methodology outlined in Section 7.1 of this permit.

[5] "Minimum Level" refers to Section 6.4 of this permit.

[6] Acute toxicity testing shall be conducted in accordance with Section 7.1 of this permit. The LC_{50} (in % effluent) for the acute toxicity test shall be reported on the DMR. The Aquatic Toxicity Monitoring Report ("ATMR") shall be completed for each toxicity testing event and submitted in accordance with Section 8.2 of this permit.

[7] Chemical analyses shall be conducted on samples used in the acute toxicity tests. These analyses shall be conducted on all samples used in the acute toxicity test and reported under Monitoring Location Y. Results shall also be included on the ATMR and submitted in accordance with Section 8.2 of this permit.

[8] The Permittee shall report the date of sample collection for the acute toxicity test and associated chemistry data in the format: year month day (YYYYMMDD).

[9] Total PCBs is the sum of all congeners or all isomer or homolog or Aroclor analyses.

Remarks:

1. Abbreviations used for units are as follows: gpd means gallons per day; g/day means grams per day; g/L means grams per liter 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; uMhos/cm means micromhos per centimeter. Other abbreviations are as follows: NA means Not Applicable; NR means Not Reportable (unless sampling is conducted relative to Section 5.4 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. Actual MLs reported by the laboratory must be reported on the DMR. Detected concentrations less than the noted ML shall be reported in accordance with Section 6.6 and the estimated concentration shall be reported as an attachment to the DMR.

Table C – Chronic Toxicity Monitoring

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

Monitoring Location Codes:
Y – Chronic toxicity effluent results
O – Day 1 chronic toxicity chemical analyses
P – Day 3 chronic toxicity chemical analyses
Q – Day 5 chronic toxicity chemical analyses
R – Day 1 upstream monitoring
S – Day 3 upstream monitoring
T – Day 5 upstream monitoring
U – Day 1 salinity adjusted effluent chemical analyses
V – Day 3 salinity adjusted effluent chemical analyses
W – Day 5 salinity adjusted effluent chemical analyses

Wastewater Description: ***Treated: Contaminated Groundwater; Decontamination Station Wastewater; Excavation Dewatering Wastewater; Stormwater from Equalization Tank Containment; Floor Wash Wastewater; Laboratory Sink Wastewaters; Pump Seal Water; Process Tank and Equipment Cleaning Wastewater; Carbon Unit Backwashing; Sand Filter Backwashing; Air Compressor/Dryer Condensate; Basket Strainer Wash Water***

Monitoring Location Description: **Final effluent chamber ("PT-4")**

Discharge is to:	Zone of Influence:	Instream Waste Concentration:	Outfall Location:
Quinnipiac River	**69,264 gallons per hour**	**5.4 %**	**Latitude (41° 22' 24") and Longitude (72° 52' 25")**

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINI-MUM LEVEL [5]	MONIT-ORING LOCA-TION
			Average Monthly Limit	Minimum Daily Limit or Maximum Daily Limit [1]	Sample/ Reporting Frequency [2, 3]	Sample Type or Measurement to be Reported [4]	Instantaneous Limit or Required Range	Sample/ Reporting Frequency	Sample Type or Measurement to be Reported		
Whole Effluent Toxicity (WET)											
Chronic Aquatic Toxicity (Survival) [6,7] *Americamysis bahia*, C-NOEC	TOP3E	%	NA	---	Annually	Daily Composite	NA	NR	NA		Y
Chronic Aquatic Toxicity (Growth) [6,7] *Americamysis bahia*, C-NOEC	TPP3E	%	NA	---	Annually	Daily Composite	NA	NR	NA		Y
Chronic Aquatic Toxicity (Fecundity) [6,7] *Americamysis bahia*, C-NOEC	TVP3E	%	NA	≥ 6.0	Annually	Daily Composite	NA	NR	NA		Y
Chronic Aquatic Toxicity (Survival) [6,7] *Cyprinodon variegatus*, C-NOEC	TOP6A	%	NA	---	Annually	Daily Composite	NA	NR	NA		Y
Chronic Aquatic Toxicity (Growth) [6,7] *Cyprinodon variegatus*, C-NOEC	TPP6A	%	NA	≥ 6.0	Annually	Daily Composite	NA	NR	NA		Y
Chemical Analyses Required with Chronic Whole Effluent Toxicity Monitoring – See Section 7.2.7. for Chronic Testing [8]											
Date of Chronic WET Chemistry Sample Collection [9]	51883	YYYYMMDD	NA	---	Annually	Calculated	NA	NR	NA		O, P, Q; R, S, T;
1-Chloro-2-nitrobenzene	51649	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	5	O, P, Q; R, S, T;
1,1-Dichloroethane	34496	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	1	O, P, Q; R, S, T;
1,1-Dichloroethylene	34501	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	3.2	O, P, Q; R, S, T;
1,1,1-Trichloroethane	34506	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA		O, P, Q; R, S, T;
1,2-Dichlorobenzene	34536	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	1	O, P, Q; R, S, T;
1,2-Dichloroethane	32103	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	1	O, P, Q; R, S, T;
1,2-trans-Dichloroethylene	34546	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	1	O, P, Q; R, S, T;

Table C – Chronic Toxicity Monitoring

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

Monitoring Location Codes:
Y – Chronic toxicity effluent results
O – Day 1 chronic toxicity chemical analyses
P – Day 3 chronic toxicity chemical analyses
Q – Day 5 chronic toxicity chemical analyses
R – Day 1 upstream monitoring
S – Day 3 upstream monitoring
T – Day 5 upstream monitoring
U – Day 1 salinity adjusted effluent chemical analyses
V – Day 3 salinity adjusted effluent chemical analyses
W – Day 5 salinity adjusted effluent chemical analyses

Wastewater Description: ***Treated: Contaminated Groundwater; Decontamination Station Wastewater; Excavation Dewatering Wastewater; Stormwater from Equalization Tank Containment; Floor Wash Wastewater; Laboratory Sink Wastewaters; Pump Seal Water; Process Tank and Equipment Cleaning Wastewater; Carbon Unit Backwashing; Sand Filter Backwashing; Air Compressor/Dryer Condensate; Basket Strainer Wash Water***

Monitoring Location Description: **Final effluent chamber ("PT-4")**

Discharge is to:	Zone of Influence:	Instream Waste Concentration:	Outfall Location:
Quinnipiac River	**69,264 gallons per hour**	**5.4 %**	**Latitude (41° 22' 24") and Longitude (72° 52' 25")**

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINI-MUM LEVEL [5]	MONIT-ORING LOCA-TION
			Average Monthly Limit	Minimum Daily Limit or Maximum Daily Limit [1]	Sample/ Reporting Frequency [2, 3]	Sample Type or Measurement to be Reported [4]	Instantaneous Limit or Required Range	Sample/ Reporting Frequency	Sample Type or Measurement to be Reported		
1,2,4-Trichlorobenzene	34551	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	5	O, P, Q; R, S, T;
1,3-Dichlorobenzene	34566	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	1	O, P, Q; R, S, T;
1,4-Dichlorobenzene	34571	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	1	O, P, Q; R, S, T;
1,4-Dioxane	82388	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	1	O, P, Q; R, S, T;
2-Chloroaniline	77287	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	5	O, P, Q; R, S, T;
2-Chlorophenol	34586	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	2	O, P, Q; R, S, T;
2-Methylphenol	78395	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	5	O, P, Q; R, S, T;
2,4-Dichlorophenol	34601	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	5	O, P, Q; R, S, T;
2,4-Dimethylphenol	34606	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	5	O, P, Q; R, S, T;
2,4,6-Trichlorophenol	34621	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	5	O, P, Q; R, S, T;
3-Chloroaniline	77286	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	10	O, P, Q; R, S, T;
3,3'-Dichlorobenzidine	34631	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	2	O, P, Q; R, S, T;
3,3'-Dimethylbenzidine	51647	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	5	O, P, Q; R, S, T;
3,4-Benzofluoranthene	79531	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	2	O, P, Q; R, S, T;

Table C – Chronic Toxicity Monitoring

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

Monitoring Location Codes:
Y – Chronic toxicity effluent results
O – Day 1 chronic toxicity chemical analyses
P – Day 3 chronic toxicity chemical analyses
Q – Day 5 chronic toxicity chemical analyses
R – Day 1 upstream monitoring
S – Day 3 upstream monitoring
T – Day 5 upstream monitoring
U – Day 1 salinity adjusted effluent chemical analyses
V – Day 3 salinity adjusted effluent chemical analyses
W – Day 5 salinity adjusted effluent chemical analyses

Wastewater Description: ***Treated: Contaminated Groundwater; Decontamination Station Wastewater; Excavation Dewatering Wastewater; Stormwater from Equalization Tank Containment; Floor Wash Wastewater; Laboratory Sink Wastewaters; Pump Seal Water; Process Tank and Equipment Cleaning Wastewater; Carbon Unit Backwashing; Sand Filter Backwashing; Air Compressor/Dryer Condensate; Basket Strainer Wash Water***

Monitoring Location Description: **Final effluent chamber ("PT-4")**

Discharge is to:	Zone of Influence:	Instream Waste Concentration:	Outfall Location:
Quinnipiac River	**69,264 gallons per hour**	**5.4 %**	**Latitude (41° 22' 24") and Longitude (72° 52' 25")**

PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINI-MUM LEVEL [5]	MONIT-ORING LOCA-TION
			Average Monthly Limit	Minimum Daily Limit or Maximum Daily Limit [1]	Sample/ Reporting Frequency [2, 3]	Sample Type or Measurement to be Reported [4]	Instantaneous Limit or Required Range	Sample/ Reporting Frequency	Sample Type or Measurement to be Reported		
3&4-Methylphenol	51567	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	5	O, P, Q; R, S, T; U, V, W
4-Chloroaniline	50312	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	5	O, P, Q; R, S, T;
Acenaphthene	34205	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	2	O, P, Q; R, S, T;
Acenaphthylene	34200	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	2	O, P, Q; R, S, T;
Alkalinity	00410	mg/L	NA	---	Annually	Daily Composite	NA	NR	NA		O, P, Q; R, S, T;
Aluminum, Dissolved	01106	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA		O, P, Q; R, S, T; U, V, W
Aluminum, Total	01105	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	5	O, P, Q; R, S, T; U, V, W
Ammonia (as N)	00610	mg/L	NA	---	Annually	Daily Composite	NA	NR	NA		O, P, Q; R, S, T; U, V, W
Aniline	77089	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	2	O, P, Q; R, S, T;
Anthracene	34220	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	2	O, P, Q; R, S, T;
Antimony, Dissolved	01095	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA		O, P, Q; R, S, T;
Antimony, Total	01268	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	1	O, P, Q; R, S, T;

Table C – Chronic Toxicity Monitoring

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

Monitoring Location Codes:
Y – Chronic toxicity effluent results
O – Day 1 chronic toxicity chemical analyses
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R – Day 1 upstream monitoring
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U – Day 1 salinity adjusted effluent chemical analyses
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W – Day 5 salinity adjusted effluent chemical analyses

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Monitoring Location Description: **Final effluent chamber ("PT-4")**

Discharge is to:	Zone of Influence:	Instream Waste Concentration:	Outfall Location:
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PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINI-MUM LEVEL [5]	MONIT-ORING LOCA-TION
			Average Monthly Limit	Minimum Daily Limit or Maximum Daily Limit [1]	Sample/ Reporting Frequency [2, 3]	Sample Type or Measurement to be Reported [4]	Instantaneous Limit or Required Range	Sample/ Reporting Frequency	Sample Type or Measurement to be Reported		
Arsenic, Dissolved	01000	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA		O, P, Q; R, S, T; U, V, W
Arsenic, Total	01252	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	2	O, P, Q; R, S, T; U, V, W
Azobenzene	77625	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	2	O, P, Q; R, S, T;
Barium, Dissolved	01005	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA		O, P, Q; R, S, T;
Barium, Total	01009	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	1	O, P, Q; R, S, T;
Benzene	34030	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	0.5	O, P, Q; R, S, T;
Benzidine	39120	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	5	O, P, Q; R, S, T;
Benzo(a)anthracene	34526	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	2	O, P, Q; R, S, T;
Benzo(a)pyrene	34247	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	2	O, P, Q; R, S, T;
Benzoic Acid	77247	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	50	O, P, Q; R, S, T;
Biochemical Oxygen Demand, 5-day (BOD_5)	00310	mg/L	NA	---	Annually	Daily Composite	NA	NR	NA		O, P, Q; R, S, T; U, V, W
Bis(2-chloroethyl) ether	34273	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	2	O, P, Q; R, S, T;
Bis(2-ethylhexyl) phthalate	39100	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	2.2	O, P, Q; R, S, T;

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PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINI-MUM LEVEL [5]	MONIT-ORING LOCA-TION
			Average Monthly Limit	Minimum Daily Limit or Maximum Daily Limit [1]	Sample/ Reporting Frequency [2, 3]	Sample Type or Measurement to be Reported [4]	Instantaneous Limit or Required Range	Sample/ Reporting Frequency	Sample Type or Measurement to be Reported		
Cadmium, Dissolved	01025	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA		O, P, Q; R, S, T;
Cadmium, Total	01113	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	0.2	O, P, Q; R, S, T;
Carbazole	77571	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	2	O, P, Q; R, S, T;
Carbon, Dissolved Organic	00681	mg/L	NA	---	Annually	Daily Composite	NA	NR	NA		O, P, Q; R, S, T;
Carbon Disulfide	77041	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	5	O, P, Q; R, S, T;
Chlorine, Total Residual	50060	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	10	O, P, Q; R, S, T; U, V, W
Chlorobenzene	34301	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	1	O, P, Q; R, S, T;
Chloroethane	85811	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	1	O, P, Q; R, S, T;
Chloroform	32106	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	1	O, P, Q; R, S, T;
Chromium, Dissolved	01030	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA		O, P, Q; R, S, T; U, V, W
Chromium, Total	01034	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	1	O, P, Q; R, S, T; U, V, W
Chrysene	34320	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	2	O, P, Q; R, S, T;
cis-1,2-Dichloroethene	81686	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	1	O, P, Q; R, S, T;

Table C – Chronic Toxicity Monitoring

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Monitoring Location Description: **Final effluent chamber ("PT-4")**

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PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINI-MUM LEVEL [5]	MONIT-ORING LOCA-TION
			Average Monthly Limit	Minimum Daily Limit or Maximum Daily Limit [1]	Sample/ Reporting Frequency [2, 3]	Sample Type or Measurement to be Reported [4]	Instantaneous Limit or Required Range	Sample/ Reporting Frequency	Sample Type or Measurement to be Reported		
Copper, Dissolved	01040	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA		O, P, Q; R, S, T;
Copper, Total	01042	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	3	O, P, Q; R, S, T;
Cyanide, Total	00720	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	5	O, P, Q; R, S, T; U, V, W
Dibenzofuran	81302	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	2	O, P, Q; R, S, T;
Dichloran	38446	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	5	O, P, Q; R, S, T;
Diphenamid	78004	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	5	O, P, Q; R, S, T;
Ethylbenzene	34371	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	0.5	O, P, Q; R, S, T;
Flow, Day of Sampling	74076	gpd	NA	---	Annually	Daily Composite	NA	NR	NA		O, P, Q;
Fluoranthene	34376	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	2	O, P, Q; R, S, T;
Fluorene	34381	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	2	O, P, Q; R, S, T;
Formaldehyde	71880	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	50	O, P, Q; R, S, T;
Hardness, Total	00900	mg/L	NA	---	Annually	Daily Composite	NA	NR	NA		O, P, Q; R, S, T;
Iron, Dissolved	01046	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA		O, P, Q; R, S, T;
Iron, Total	01045	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	10	O, P, Q; R, S, T;

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

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Wastewater Description: ***Treated: Contaminated Groundwater; Decontamination Station Wastewater; Excavation Dewatering Wastewater; Stormwater from Equalization Tank Containment; Floor Wash Wastewater; Laboratory Sink Wastewaters; Pump Seal Water; Process Tank and Equipment Cleaning Wastewater; Carbon Unit Backwashing; Sand Filter Backwashing; Air Compressor/Dryer Condensate; Basket Strainer Wash Water***

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PARAMETER	NET DMR CODE	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			MINI-MUM LEVEL [5]	MONIT-ORING LOCA-TION
			Average Monthly Limit	Minimum Daily Limit or Maximum Daily Limit [1]	Sample/ Reporting Frequency [2, 3]	Sample Type or Measurement to be Reported [4]	Instantaneous Limit or Required Range	Sample/ Reporting Frequency	Sample Type or Measurement to be Reported		
Lead, Dissolved	01049	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA		O, P, Q; R, S, T; U, V, W
Lead, Total	01051	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	0.4	O, P, Q; R, S, T; U, V, W
m-Toluidine	51648	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	10	O, P, Q; R, S, T;
Manganese, Dissolved	01056	µg/L	---	---	Annually	Daily Composite	NA	NR	NA		O, P, Q; R, S, T;
Manganese, Total	11123	µg/L	---	---	Annually	Daily Composite	NA	NR	NA		O, P, Q; R, S, T;
Mercury, Dissolved	71890	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA		O, P, Q; R, S, T; U, V, W
Mercury, Total	50092	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	0.05	O, P, Q; R, S, T; U, V, W
Methyl bromide	34413	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	0.5	O, P, Q; R, S, T;
Methylene chloride	34423	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	0.5	O, P, Q; R, S, T;
Methyl tert butyl ether	22417	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	1	O, P, Q; R, S, T;
Naphthalene	34696	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	2	O, P, Q; R, S, T;
Nickel, Dissolved	01065	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA		O, P, Q; R, S, T;
Nickel, Total	01067	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	2.5	O, P, Q; R, S, T;

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			Average Monthly Limit	Minimum Daily Limit or Maximum Daily Limit [1]	Sample/ Reporting Frequency [2, 3]	Sample Type or Measurement to be Reported [4]	Instantaneous Limit or Required Range	Sample/ Reporting Frequency	Sample Type or Measurement to be Reported		
Nitrate (as N)	00620	mg/L	NA	---	Annually	Daily Composite	NA	NR	NA		O, P, Q; R, S, T; U, V, W
Nitrite (as N)	00615	mg/L	NA	---	Annually	Daily Composite	NA	NR	NA		O, P, Q; R, S, T; U, V, W
Nitrobenzene	34447	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	2	O, P, Q; R, S, T;
Organic Nitrogen	00605	mg/L	NA	---	Annually	Daily Composite	NA	NR	NA		O, P, Q; R, S, T;
Oxygen, Dissolved (Minimum)	00300	mg/L	NA	---	Annually	Daily Composite	NA	NR	NA		O, P, Q; R, S, T;
PCBs (Polychlorinated Biphenyls as Total PCBs) [10]	51867	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	0.05	O, P, Q; R, S, T;
pH, Day of Sampling	00400	SU	NA	---	Annually	Daily Composite	NA	NR	RDS		O, P, Q; R, S, T; U, V, W
Phenanthrene	34461	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	2	O, P, Q; R, S, T;
Phenol	34694	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	5	O, P, Q; R, S, T;
Phosphorus, Total	00665	mg/L	NA	---	Annually	Daily Composite	NA	NR	NA	0.1	O, P, Q; R, S, T;
Pyrene	34469	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	2	O, P, Q; R, S, T;
Salinity	00480	g/L	NA	---	Annually	Daily Composite	NA	NR	NA		O, P, Q; R, S, T; U, V, W
Specific Conductance	00095	uMhos/cm	NA	---	Annually	Daily Composite	NA	NR	NA		O, P, Q; R, S, T;

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			Average Monthly Limit	Minimum Daily Limit or Maximum Daily Limit [1]	Sample/ Reporting Frequency [2, 3]	Sample Type or Measurement to be Reported [4]	Instantaneous Limit or Required Range	Sample/ Reporting Frequency	Sample Type or Measurement to be Reported		
Silver, Dissolved	01075	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA		O, P, Q; R, S, T;
Silver, Total	01077	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	0.2	O, P, Q; R, S, T;
Sulfide	00745	mg/L	NA	---	Annually	Daily Composite	NA	NR	NA	50	O, P, Q; R, S, T;
Tetrachloroethylene	34475	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	0.5	O, P, Q; R, S, T;
Toluene	34010	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	0.5	O, P, Q; R, S, T;
Total Suspended Solids	00530	mg/L	NA	---	Annually	Daily Composite	NA	NR	NA		O, P, Q; R, S, T; U, V, W
Trichloroethylene	39180	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	0.5	O, P, Q; R, S, T;
Vanadium, Dissolved	01085	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA		O, P, Q; R, S, T;
Vanadium, Total	01128	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	5	O, P, Q; R, S, T;
Vinyl chloride	39175	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	0.5	O, P, Q; R, S, T;
Xylenes, Total	81551	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	0.5	O, P, Q; R, S, T;
Zinc, Dissolved	01090	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA		O, P, Q; R, S, T;
Zinc, Total	01092	µg/L	NA	---	Annually	Daily Composite	NA	NR	NA	10	O, P, Q; R, S, T;

TABLE C FOOTNOTES AND REMARKS

Footnotes:

[1] WET limits are expressed as a minimum daily limit, meaning the minimum allowable daily discharge over the course of the 24-hour sampling period. Chemical results analyzed in conjunction with WET tests shall be reported as the max value collected during the 24-hour sampling period.

[2] 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 monthly.

[3] If more than one toxicity sample is collected during a single month, report subsequent WET and chemistry results as an attachment to the DMR in accordance with Sections 8.2 and 9.4 of this permit.

[4] Daily composite samples shall be collected for chronic toxicity tests consistent with the methodology outlined in Section 7.2 of this permit.

[5] "Minimum Level" refers to Section 6.4 of this permit.

[6] Chronic toxicity testing shall be conducted in accordance with Section 7.2 of this permit. The C-NOEC (Chronic-No Observed Effect Concentration) in % effluent for the chronic toxicity test shall be reported on the DMR. The ATMR shall be completed for each chronic toxicity testing event and submitted in accordance with Section 8.2 of this permit.

[7] Laboratory water shall be used as dilution water for the dilution series when determining compliance with these limits. Additional testing shall occur on Quinnipiac River water at 0% effluent and a single dilution at 5.4% effluent. The laboratory report from this testing shall be submitted with the ATMR.

[8] Chemical analyses shall be conducted on all samples used in the chronic toxicity tests. These analyses shall be conducted on an undiluted aliquot of each effluent sample and each sample of upstream receiving water used in the chronic toxicity test. Results for effluent sampling from day 1, day 3, and day 5 of the chronic toxicity test shall be reported under Monitoring Location O, P, and Q, respectively. Receiving water (upstream) results from day 1, day 3, and day 5 of sampling shall be reported under reported under Monitoring Location R, S, and T, respectively. Results for salinity adjusted effluent sampling from day 1, day 3, and day 5 of the chronic toxicity test shall be reported under Monitoring Location U, V, and W, respectively. Results shall also be included on the ATMR and submitted in accordance with Section 8.2 of this permit.

[9] The Permittee shall report the dates of sample collection for each day of chronic toxicity test chemistry sampling (days 1, 3, and 5) in the format: year month day (YYYYMMDD).

[10] Total PCBs is the sum of all congeners or all isomer or homolog or Aroclor analyses.

Remarks:

1. Abbreviations used for units are as follows: gpd means gallons per day; g/day means grams per day; g/L means grams per liter 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; uMhos/cm means micromhos per centimeter. Other abbreviations are as follows: NA means Not Applicable; NR means Not Reportable (unless sampling is conducted relative to Section 5.4 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. Actual MLs reported by the laboratory must be reported on the DMR. Detected concentrations less than the noted ML shall be reported in accordance with Section 6.6 and the estimated concentration shall be reported as an attachment to the DMR.

SECTION 6: SAMPLE COLLECTION, HANDLING AND ANALYTICAL TECHNIQUES

6.1 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 6.2, below.

6.2 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
1-Chloro-2-nitrobenzene	EPA 625.1	Per Method 625.1
1,4-Dioxane	EPA 625.1	Per Method 625.1
2-Chloroaniline	EPA 625.1	Per Method 625.1
2-Methylphenol	EPA 625.1	Per Method 625.1
3-Chloroaniline	EPA 625.1	Per Method 625.1
3,3'-Dimethylbenzidine	EPA 625.1	Per Method 625.1
3&4-Methylphenol	EPA 625.1	Per Method 625.1
4-Chloroaniline	EPA 625.1	Per Method 625.1
Aniline	EPA 625.1	Per Method 625.1
Azobenzene	EPA 625.1	Per Method 625.1
Benzoic Acid	EPA 625.1	Per Method 625.1
Carbazole	EPA 625.1	Per Method 625.1
Carbon Disulfide	EPA 624.1	Per Method 624.1
cis-1,2-Dichloroethene	EPA 624.1	Per Method 624.1
Dibenzofuran	EPA 624.1	Per Method 624.1
Dichloran	EPA 624.1	Per Method 624.1
Diphenamid	EPA 624.1	Per Method 624.1
Formaldehyde	EPA 1667	Per Method 1667
Methyl tert butyl ether	EPA 624.1	Per Method 624.1
Xylenes, Total	EPA 624.1	Per Method 624.1

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

6.4 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 of 3. The MLs specified in Section 5 Tables A - C represent the minimum concentrations at which quantification must be achieved and verified during the chemical analyses for the parameters identified in Section 5 Tables A - C. Analyses for these parameters must include check standards within ten percent of the specified ML or calibration points equal to or less than the specified ML.

6.5 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.

6.6 Analyses for which quantification was verified to be below a ML, including non-detect, shall be reported as "less than the [ML]" where '[ML]' is the numerical value equivalent to the ML for that analysis on the DMR. Analytical results indicating 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 (0.0) for purposes of determining compliance with effluent limitations or conditions that require calculations. Calculations are required for (but not limited to) reporting of monthly averag, total nitrogen, mass loading, and daily maximum values for grab sample average sample types. These values must be reported as calculated. The Permittee shall attach documentation demonstrating the ML of the analysis as an attachment to the DMR.

6.7 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.

6.8 Analyses required under this permit shall be performed in accordance with Conn. Gen. Stat. 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

7.1 **ACUTE TESTING REQUIREMENTS.** The Permittee shall conduct acute aquatic toxicity testing for DSN 001-AT as follows:

7.1.1 **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.

7.1.2 **SAMPLE COLLECTION AND HANDLING:**

7.1.2.1 Composite samples shall be chilled as they are collected. Grab samples shall be chilled immediately following collection. Samples shall be held at 0-6 °C until aquatic toxicity testing is initiated.

7.1.2.2 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.

7.1.2.3 Tests for acute aquatic toxicity shall be initiated within 36 hours of sample collection.

7.1.3 **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:

7.1.3.1 For 48-hours utilizing neonatal *Americamysis bahia* (1-5 days old with no more than 24-hours range in age).

7.1.3.2 For 48-hours utilizing larval *Cyprinodon variegatus* (1-14 days old with no more than 24-hours range in age).

7.1.4 **ACUTE ENDPOINT:** Survival at 48-hours measured by LC_{50}.

7.1.5 **TEST CONDITIONS:**

7.1.5.1 Tests for acute aquatic toxicity shall be conducted as prescribed for static non-renewal tests.

7.1.5.2 Definitive (multi-concentration) testing, with LC_{50} as the endpoint, shall be conducted to determine compliance with limits on acute aquatic toxicity and monitoring conditions and shall incorporate, at a minimum, the following effluent concentrations:
100%, 75%, 50%, 25%, 12.5% and 6.25%.

7.1.5.3 Aquatic toxicity tests with saltwater organisms shall be conducted at a salinity of 20 parts per thousand (±2 parts per thousand).

7.1.5.3.1 Synthetic seawater for use as dilution water or controls shall be prepared with deionized water and artificial sea salts as described in EPA-821-R-02-012.

7.1.5.3.2 If the salinity of the source water is more than 5 parts per thousand higher, or lower than the culture water used for rearing the organisms, a second set of controls matching the salinity of the culture water shall be added to the test series. Test validity shall be determined using the controls adjusted to match the source water salinity.

7.1.5.3.3 Salinity adjustment that may be required in tests with saltwater organisms shall utilize the minimum amount of synthetic hypersaline brine (not to exceed 100 parts per thousand) or dilute (2 parts per thousand) synthetic seawater necessary to achieve the required salinity.

7.1.5.3.4 The actual effluent concentrations in definitive tests with saltwater organisms shall be used in calculating test results.

7.1.5.4 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.

7.1.5.5 The feeding regime shall be that specified in EPA-821-R-02-012.

7.1.5.6 Sodium lauryl sulfate or sodium dodecyl sulfate shall be used as the reference toxicant.

7.1.5.7 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.

7.1.5.8 Specific conductance, pH, salinity, 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.

7.1.6 **CHEMICAL ANALYSIS:** All effluent samples used in the acute toxicity test, including salinity adjusted effluent samples, if salinity adjustment is required, shall at a minimum, be analyzed and results reported in accordance with the provisions listed in Section 5 Table B and Section 6.1 for the parameters identified on Section 5 Table B of the permit.

7.1.7 **TEST ACCEPTABILITY CRITERIA:** 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 in accordance with Section 9.4.

7.1.8 **TEST COMPLIANCE:** Compliance with limits on Acute Toxicity shall be determined as follows: For limits expressed as a minimum LC_{50} value, compliance 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 acute toxicity limit.

7.1.9 **REPORTING:** Results of acute toxicity monitoring shall be documented on an ATMR and reported to the Commissioner by the last day of the month following the month in which samples are

collected in accordance with Section 8.2 of this permit. The report shall include the items identified in Section 8.2 of this permit. Endpoints to be reported are: 48-hour LC_{50}.

7.2 **CHRONIC TESTING REQUIREMENTS**. The Permittee shall conduct chronic toxicity testing for DSN 001-CT as follows:

7.2.1 **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 Waters to Marine and Estuarine Organisms*, EPA-821-R-02-014, or the most current version, with the following exceptions or clarifications noted below.

7.2.2 **SAMPLE COLLECTION AND HANDLING:**

7.2.2.1 Composite samples shall be chilled as they are being collected. Samples shall be held at 0-6 °C until chronic aquatic toxicity testing is initiated.

7.2.2.2 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.

7.2.2.3 Tests for chronic aquatic toxicity shall be initiated within 36 hours of sample collection.

7.2.3 **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:

7.2.3.1 For seven days utilizing juvenile *Americamysis bahia* (7 days old with no more than 24 hours range in age).

7.2.3.2 For seven days utilizing larval *Cyprinodon variegatus* (less than 24 hours old with no more than 24 hours range in age).

7.2.4 **CHRONIC ENDPOINTS:**

7.2.4.1 *Americamysis bahia:* Survival, Growth, and Fecundity

7.2.4.2 *Cyprinodon variegatus:* Survival and Growth

7.2.5 **DILUTION WATER:** Synthetic seawater prepared with deionized water and artificial salts as described in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms* (EPA-821-R-02-014) shall be used as laboratory control water and as dilution water for determination of compliance with the limits found in this permit. Additionally, dilutions at 0% and 5.4% effluent shall be prepared using Quinnipiac River water collected upstream of the area influenced by the discharge in accordance with Footnote 7 in Table C. The Permittee shall document the dilution water sampling location by providing coordinates and/or a map of the location.

7.2.6 **TEST CONDITIONS:**

7.2.6.1 Testing for chronic aquatic toxicity shall be conducted as prescribed in the reference document for static daily renewal tests.

7.2.6.2 Daily composite samples of the discharge and grab samples of the Quinnipiac River for use as site water and dilution water for the monitoring requirement found in Footnote 7 in Table C 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.

7.2.6.3 Test concentrations for compliance with permit limits shall be comprised of a minimum of five dilutions (100%, 50%, 25%, 12.5%, 6%, and 3% effluent) using synthetic seawater as dilution water including one on the laboratory control water. Additional tests shall occur at 0% and 5.4% dilutions using the receiving water collected in accordance with Section 7.2.5.

7.2.6.4 Dissolved oxygen, pH, salinity, and temperature shall be measured in each sample of effluent and the Quinnipiac River water sample prior to and immediately following renewal of the test solutions.

7.2.6.5 Synthetic seawater prepared with deionized water and artificial salts adjusted to a salinity of 20 parts per thousand (±2 parts per thousand) as described in *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms* (EPA-821-R-02-014) shall be used as laboratory control water.

7.2.7 **CHEMICAL ANALYSIS:** Chemical analysis for the parameters identified in Section 5 Table C of the permit shall be conducted on an undiluted aliquot of each effluent sample, an undiluted aliquot of each salinity adjusted effluent sample, if salinity adjustment is required, and each sample of upstream Quinnipiac River used in the test. The chemical analysis shall be analyzed, and results reported in accordance with the provisions listed in Section 5 Table C and Section 6.1 of the permit.

7.2.8 **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.

7.2.9 **REPORTING:** A report detailing the results of the chronic toxicity monitoring shall be documented on an ATMR and submitted to the Commissioner by the last day of the month following the month in which samples are collected in accordance with Section 8.2 of this permit. The report shall include the items identified in Section 8.2 of this permit. 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).

SECTION 8: REPORTING REQUIREMENTS

8.1 The results of chemical analyses and any aquatic toxicity test required by this permit shall be submitted electronically using NetDMR. Monitoring results shall be reported at the monitoring frequency specified in this permit. Any monitoring required more frequently than monthly shall be reported on an attachment to the DMR, and any additional monitoring conducted in accordance with 40 CFR 136, or another method required for an industry-specific waste stream under 40 CFR subchapter N, or other methods approved by the Commissioner, shall also be included on the DMR, or as an attachment, if necessary, and the results of such monitoring shall be included in the calculation and reporting of the data submitted in the DMR. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Commissioner 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 8.4 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

8.2 The ATMR associated with aquatic toxicity monitoring 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 (Freshwater) or EPA-821-R-02-014 (Saltwater), 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 as an attachment to the DMR and via email to: DEEP.IndustrialWETReports@ct.gov. The ATMR required by Sections 5 and 7 shall be received at this address by the last day of the month following the month in which the samples are collected.

8.3 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 has occurred using NODI code "C", 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.

8.4 NetDMR Reporting Requirements:

The Permittee shall report electronically using NetDMR, a web-based tool that allows permittees to electronically submit DMRs and other required reports through a secure internet connection. The Permittee and/or the signatory authority shall electronically submit DMRs required under this permit to the Commissioner using NetDMR in satisfaction of the DMR submission requirements of Sections 5, 6, 8, and 9 of this permit. All sampling and monitoring records required under the permit, including any monitoring conducted more frequently than monthly or any additional monitoring conducted in accordance with 40 CFR 136, shall be submitted to the Commissioner as an electronic attachment to the DMR in NetDMR. The Permittee shall also electronically file any written report of noncompliance described in Section 9 of this permit as an attachment in NetDMR. DMRs shall be submitted electronically to the Commissioner no later than the last day of the month following the completed reporting period. NetDMR is accessed from: http://www.epa.gov/netdmr.

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

9.1 *Noncompliance Notifications:*

9.1.1 In accordance with Section 22a-430-3(j)(8), 22a-430-3(j)(11)(D), 22a-430-3(k)(4), and 22a-430-3(i)(3) of the RSCA, the Permittee shall notify the Commissioner of the following actual or anticipated noncompliance with the terms or conditions of this permit within two hours of becoming aware of the circumstances. All other actual or anticipated violations of the permit shall be reported to the Commissioner within 24 hours of becoming aware of the circumstances:

9.1.1.1 A noncompliance that is greater than two times an effluent limitation;

9.1.1.2 A noncompliance of any minimum or maximum daily limitation or excursion beyond a minimum or maximum daily range;

9.1.1.3 Any condition that may endanger human health or the environment, including but not limited to noncompliance with whole effluent toxicity WET limitations;

9.1.1.4 Any condition that may endanger the operation of a POTW, including sludge handling and disposal;

9.1.1.5 A failure or malfunction of monitoring equipment used to comply with the monitoring requirements of this permit;

9.1.1.6 Any actual or potential bypass of the Permittee's collection system or treatment facilities; or

9.1.1.7 Expansions or significant alterations of any wastewater collection, treatment facility, or its method of operation for the purpose of correcting or avoiding a permit violation.

9.1.2 Notifications shall be submitted via the Commissioner's online Noncompliance Notification Form: https://portal.ct.gov/deep/water-regulating-and-discharges/industrial-wastewater/compliance-assistance/notification-requirements.

9.1.3 Within five days of any notification of noncompliance in accordance with Sections 9.1.1.1 through 9.1.1.6 of this permit, the Permittee shall submit a follow-up report using the Commissioner's online Noncompliance Follow-up Report Form: https://portal.ct.gov/deep/water-regulating-and-discharges/industrial-wastewater/compliance-assistance/notification-requirements.

The follow-up report shall contain, at a minimum, the following information: (i) A description of the noncompliance and its cause; (ii) the period of noncompliance, including exact dates and times; (iii) if the noncompliance has not been corrected, the anticipated time it is expected to continue; and (iv) steps taken or planned to correct the noncompliance and reduce, eliminate and prevent recurrence of the noncompliance.

9.1.4 Within 30 days of any notification of facility modifications reported in accordance with Section 9.1.1.7 of this permit, the Permittee shall submit a written follow-up report by submitting a "Facility and Wastewater Treatment System Modification Request for Determination" for the review and approval of the Commissioner. The report shall fully describe the changes made to the facility and reasons therefor.

9.1.5 Notification of an actual or anticipated noncompliance or facility modification does not stay any term or condition of this permit.

9.2 In accordance with Section 22a-430-3(j)(11)(E) of the RSCA, the Permittee shall notify the Commissioner within 72 hours and in writing within 30 days when he or she knows or has reason to believe that the concentration in the discharge of any substance listed in the application, or any toxic substance as listed in Appendix B or D of RSCA Section 22a-430-4, has exceeded or will exceed the highest of the following levels: (1) One hundred micrograms per liter; (2) Two hundred micrograms per liter for acrolein and acrylonitrile, five hundred micrograms per liter for 2,4-dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter for antimony; (3) An alternative level specified by the Commissioner, provided such level shall not exceed the level which can be achieved by the Permittee's treatment system; or (4) A level two times the level specified in the Permittee's application.

72 hour initial notifications shall be submitted via the Commissioner's online Noncompliance Notification Form. 30 day follow-up reports shall be submitted via the Commissioner's online Noncompliance Follow-up Report Form. The Forms are available at the Commissioner's website, here: https://portal.ct.gov/deep/water-regulating-and-discharges/industrial-wastewater/compliance-assistance/notification-requirements.

9.3 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.

9.4 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 Sections 5 and 7. The exceedance or invalid test shall be reported to Commissioner in accordance with Section 9.1. The results shall be submitted to the Commissioner within 30 days of the exceedance or invalid test. The results and the associated ATMR shall be reported in accordance with Sections 5 and 8.2 of the permit. Results of all tests, whether valid or invalid, shall be reported. If more than one toxicity sample is collected during a single month, report subsequent WET and chemistry results as an attachment to the month's DMR.

9.5 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 Regs. Conn. State Agencies. The Permittee shall implement all actions in accordance with the approved report and schedule.

SECTION 10: COMPLIANCE SCHEDULE

10.1 **PER – AND POLYFLUOROALKYL SUBSTANCES ("PFAS") SAMPLING PLAN**. On or before thirty (30) days after the effective date of this permit, the Permittee shall employ or retain one or more qualified professionals 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 professionals. Such professionals employed or retained by the Permittee shall have demonstrated knowledge of PFAS and the sampling protocols and analytical laboratory methods associated with identifying and quantifying PFAS. The Permittee shall employ or retain one or more qualified professionals acceptable to the Commissioner until the actions required by this section of the permit have been completed, and within ten (10) days after employing or retaining any professional(s) other than one(s) originally identified under this paragraph, the Permittee shall notify the Commissioner in writing of the identity of such other professional. The Permittee shall submit to the Commissioner a description of the professional's education, experience, and training, which 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 professional unacceptable.

10.1.1 **PLAN SUBMITTAL:** On or before one-hundred and twenty (120) days after the effective date of this permit, the Permittee shall submit for the Commissioner's review and approval a sampling plan for the analysis of PFAS in the influent and DSN 001-1 using sufficiently sensitive test methods. PFAS analyses shall be performed using the methods approved by EPA pursuant to 40 CFR 136 and performed by a lab certified by Connecticut Department of Public Health. If no such test method is approved by EPA pursuant to 40 CFR 136, PFAS analyses shall be performed in accordance with EPA Method 1633 (see https://www.epa.gov/cwa-methods/cwa-analytical-methods-and-polyfluorinated-alkyl-substances-pfas). The sampling plan must indicate at least two sampling events of the prescribed discharge. At a minimum this plan must identify the test method, laboratory, and sampling protocols including sample quality control procedures to be implemented.

10.1.2 **CONDUCT PFAS SAMPLING:** On or before thirty (30) days after the Commissioner's approval, the Permittee shall conduct PFAS sampling in accordance with the approved plan and shall submit the analytical report to DEEP within thirty (30) days of receiving the results.

10.2 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 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.

10.3 **DATES:** The date of submission to the Commissioner of any document required by this section of the permit shall be the date such document is received by the Commissioner. The date of any notice by the Commissioner under this section of the permit, including but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is personally delivered or the date three days after it is mailed by the Commissioner, whichever is earlier. Except as otherwise specified in this permit, the word "day" as used in this section of the permit means calendar day. Any document or action which is required by this section only of the permit, to be submitted, or performed, by a date which falls on, Saturday, Sunday, or, a 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.

10.4 **NOTIFICATION OF NONCOMPLIANCE:** Except as otherwise provided in this permit, 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.

10.5 **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.

10.6 **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:

DEEP.IndustrialNPDESCompliance@ct.gov with the subject line "Pharmacia & Upjohn – CT0001341"

This permit is hereby issued on

JENNIFER PERRY, P.E.
Bureau Chief

JP/ JG

ATTACHMENT A

Attachment Sheet for Supplemental Monitoring Data for DSN 00-1

Parameter	Units	Date Sampled Week 1						Date Sampled Week 2					
		Flow Day of Sampling						Flow Day of Samling					
		Hours of Discharge						Hours of Discharge					
		Grab Sample 1	Grab Sample 2	Grab Sample 3	Grab Sample 4	Grab Sample 5	Grab Sample 6	Grab Sample 1	Grab Sample 2	Grab Sample 3	Grab Sample 4	Grab Sample 5	Grab Sample 6
		Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time	Time
1-Chloro-2-nitrobenzene	µg/L												
1,1-Dichloroethane	µg/L												
1,1-Dichloroethylene	µg/L												
1,1,1-Trichloroethane	µg/L												
1,2-Dichlorobenzene	µg/L												
1,2-Dichloroethane	µg/L												
1,2-trans-Dichloroethylene	µg/L												
1,2,4-Trichlorobenzene	µg/L												
1,3-Dichlorobenzene	µg/L												
1,4-Dichlorobenzene	µg/L												
1,4-Dioxane	µg/L												
2-Chloroaniline	µg/L												
2-Chlorophenol	µg/L												
2-Methylphenol	µg/L												
2,4-Dichlorophenol	µg/L												
2,4-Dimethylphenol	µg/L												
2,4,6-Trichlorophenol	µg/L												
3-Chloroaniline	µg/L												
3,3'-Dichlorobenzidine	µg/L												
3,3'-Dimethylbenzidine	µg/L												
3,4-Benzofluoranthene	µg/L												
3&4-Methylphenol	µg/L												
4-Chloroaniline	µg/L												
Acenaphthene	µg/L												
Acenaphthylene	µg/L												
Aluminum, Total	µg/L												
Ammonia (as N)	mg/L												
Aniline	µg/L												
Anthracene	µg/L												
Antimony, Total	µg/L												

Arsenic, Total	µg/L																
Azobenzene	µg/L																
Barium, Total	µg/L																
Benzene	µg/L																
Benzidine	µg/L																
Benzo(a)anthracene	µg/L																
Benzo(a)pyrene	µg/L																
Benzoic Acid	µg/L																
BOD_5	mg/L																
Bis(2-chloroethyl) ether	µg/L																
Bis(2-ethylhexyl) phthalate	µg/L																
Cadmium, Total	µg/L																
Carbazole	µg/L																
Carbon Disulfide	µg/L																
Chlorine, Total Residual	µg/L																
Chlorobenzene	µg/L																
Chloroethane	µg/L																
Chloroform	µg/L																
Chromium, Total	µg/L																
Chrysene	µg/L																
cis-1,2-Dichloroethene	µg/L																
Copper, Total	µg/L																
Cyanide, Total	µg/L																
Dibenzofuran	µg/L																
Dichloran	µg/L																
Diphenamid	µg/L																
Ethylbenzene	µg/L																
Fluoranthene	µg/L																
Fluorene	µg/L																
Formaldehyde	µg/L																
Iron, Total	µg/L																
Lead, Total	µg/L																
m-Toluidine	µg/L																
Manganese, Total	µg/L																
Mercury, Total	µg/L																
Methyl bromide	µg/L																
Methylene chloride	µg/L																
Methyl tert butyl ether	µg/L																
Naphthalene	µg/L																
Nickel, Total	µg/L																
Nitrate (as N)	mg/L																
Nitrite (as N)	mg/L																
Nitrobenzene	µg/L																

Organic Nitrogen	mg/L		
Oxygen, Dissolved	mg/L		
PCBs	µg/L		
pH, Minimum	SU		
pH, Maximum	SU		
Phenanthrene	µg/L		
Phenol	µg/L		
Phosphorus, Total	mg/L		
Pyrene	µg/L		
Silver, Total	µg/L		
Sulfide	mg/L		
Tetrachloroethylene	µg/L		
Toluene	µg/L		
Total Suspended Solids	mg/L		
Trichloroethylene	µg/L		
Vanadium, Total	µg/L		
Vinyl chloride	µg/L		
Xylenes, Total	µg/L		
Zinc, Total	µg/L		