NARRAGANSETT BAY COMMISSION
ONE SERVICE ROAD
PROVIDENCE, RI 02905

BUCKLIN POINT WWTF
FINAL CLARIFIER, UV DISINFECTION AND OTHER MISCELLANEOUS IMPROVEMENTS
NBC CONTRACT NO. 308.10C

ADDENDUM NO. 1
July 22, 2022

TO ALL BIDDERS:

Bidders are hereby informed that the Contract Document for the above-mentioned contract are modified, corrected, and/or supplemented as follows and this Addendum No. 1 becomes part of the Contract Documents and consists of Items 1-1 through 1-35.

Item 1-1: Minutes from Pre-Bid Meeting held on July 21, 2022 are attached hereto (see Addendum No.1, Attachment 1)

SPECIFICATIONS

Item 1-2: Table of Contents, **DELETE** "01741 CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL"

Item 1-3: Table of Contents, **INSERT** "01735 MANUFACTURERS' STARTUP AND TRAINING SERVICES" after "01731 OPERATION, MAINTENANCE AND INSUTRCITON MANUALS"

Item 1-4: Table of Contents, **INSERT** "02310 ROCK EXCAVATION AND DISPOSAL" after "02300 EARTHWORK"

Item 1-5: Table of Contents, **INSERT** the following after "16846 CONVENTION FIRE-ALARM SYSTEMS"

"APPENDICES
Appendix A – Environmental Permits"

Item 1-6: Section B – Bid, shall be **DELETED** in its entirety and **REPLACED** with Section B - Bid attached hereto (see Addendum No. 1, Attachment 2)

Item 1-7: Section CA – Agreement, **DELETE** "If applicable, " from the first sentence of Paragraph 11.1.E.1

Item 1-8: Section 01000 – General Specifications, **INSERT** the following paragraph after Paragraph 1.30.B:

"C. Except as otherwise provided elsewhere in the Contract Documents, the Contractor shall limit all construction-related trucking (which shall mean all trucking of construction materials, excavated materials, and demolition debris by vehicles over 18,000 pounds GVW) to and from the Site via Nassau Street within the hours of 7:00 a.m. to 5:00 p.m. Monday through Friday, except holidays. Regarding workforce parking, the Contractor's workforce may park their personal vehicles at the Bucklin Point Wastewater Treatment Facility site in areas as approved by the Engineer and Owner."

Item 1-9: Section 01025 – Measurement and Payment, shall be **DELETED** in its entirety and **REPLACED** with Section 01025 – Measurement and Payment attached hereto (see Addendum No. 1, Attachment 3)

Item 1-10: Section 01300 – Submittals, **INSERT** the following paragraph after Paragraph 1.5.P:

"Q. Submittals for construction materials subject to American Iron and Steel (AIS) requirements of Specification Section 01068 shall include AIS certification letters that comply with the Specification requirements."

Item 1-11: Section 01300 – Submittals, **DELETE** the first sentence of Paragraph 1.6.A and **INSERT** "Submit a list of Shop Drawings indicating specification section number, contents, whether an AIS certification letter is required, proposed numbering system, and time schedule for preparation and submission for all Shop Drawings for the Contract."

Item 1-12: Section 01300 – Submittals, **INSERT** the following paragraph after Paragraph 1.6.B.11:

"12. AIS certification letter required for construction materials subject to American Iron and Steel (AIS) requirements of Specification Section 01068."

Item 1-13: Section 01300 – Submittals, **INSERT** the following at the end of Paragraph 1.7.D, "Submittals for construction materials that are subject to American Iron and Steel (AIS) requirements of Specification Section 01068 will not be approved without applicable AIS certification letters."

Item 1-14: Section 01323 – Photographic Documentation, **DELETE** Paragraph 1.7.D in its entirety.

Item 1-15: Section 01730 – Execution, **DELETE** "and Section 01741 "Construction Waste Management and Disposal"" from last sentence of Paragraph 3.8.G.

Item 1-16: **INSERT** Section 01735 – Manufacturers' Startup and Training Services attached hereto (see Addendum No. 1, Attachment 4)

Item 1-17: Section 01741 – Construction Waste Management and Disposal shall be **DELETED** in its entirety.

Item 1-18: **INSERT** Section 02310 – Rock Excavation and Disposal attached hereto (see Addendum No. 1, Attachment 5)

Item 1-19: Section 02766 – Tank and Structure Cleaning, **DELETE** the third sentence of Paragraph 1.2.A and **REPLACE** with "The existing tanks and structures to be cleaned are all concrete structures. The structures all have accumulated settled solids, algae, grit, floating scum, grease and/or screenings in varying amounts and residue buildup which must be removed."

Item 1-20: Section 02766 – Tank and Structure Cleaning, **DELETE** the third sentence of Paragraph 1.2.B and **REPLACE** with "The cleaning will remove liquids, sludge residue, dirt, scum, grease, algae, grit, and foreign materials from the scheduled areas and components."

Item 1-21: Section 02766 – Tank and Structure Cleaning, **DELETE** the first sentence of Paragraph 3.1.B and **REPLACE** with "Cleaning of tanks, structures and pipes must consist of removal of all water, wastewater, accumulated settled solids, algae, grit, floating grease and scum, materials adhered to walls and other interior surfaces, and any other debris found in the tanks or structures."

Item 1-22: Section 02766 – Tank and Structure Cleaning, **INSERT** the following sentence at the end of Paragraph 3.1.C "Accumulated settled solids, algae, grit, floating grease and scum, materials adhered to walls and other interior surfaces, etc. may be disposed of at the Fields Point WWTF Grit Pad."

Item 1-23: Section 03305 – Structural Components of Underground Ducts and Raceways for Electrical Systems, **DELETE** section title on Page 1 "SECTION 03305 – CAST-IN-PLACE CONCRETE FOR UNDERGROUND DUCTS AND RACEWAYS FOR ELECTRICAL SYSTEMS" and **INSERT** with "SECTION 03305 - STRUCTURAL COMPONENTS OF UNDERGROUND DUCTS AND RACEWAYS FOR ELECTRICAL SYSTEMS"

Item 1-24: Section 03305 – Structural Components of Underground Ducts and Raceways for Electrical Systems, **INSERT** the following paragraph after Paragraph 1.2.B.3:

"4. Section 16063 "Underground Ducts and Raceways for Electrical Systems" for raceway requirements."

Item 1-25: Section 03305 – Structural Components of Underground Ducts and Raceways for Electrical Systems, **DELETE** Paragraph 2.1.A.4 in its entirety.

Item 1-26: Section 05502 – Metal Fabrications, Paragraph 2.19 **INSERT** "AT INFLUENT PUMP STATION" after "VFD PLATFORM".

Item 1-27: Section 11248 – Liquid Chemical Transfer Pumps, Paragraph 1.4.B.14, **DELETE** "Division 40" and **REPLACE** with "Division 13".

Item 1-28: Section 11258 – Circular Secondary Clarifier Equipment, **INSERT** the following at the end of Paragraph 2.1.F.1., "No substitutes will be permitted."

Item 1-29: Section 11656 – Open-Channel Low-Pressure/High-Intensity UV Treatment Equipment, Paragraph 2.2.D.3.f.5.e, **DELETE** "Division 40" and **REPLACE** with "Division 13".

Item 1-30: Section 15108 – Common Requirement for Process Valves, **DELETE** paragraph 1.4.A.1 in its entirety and **REPLACE** with "1. Submit valve schedule populated with all Division 11 and Division 15 process valves specified for this project."

Item 1-31: Section 15108 – Common Requirement for Process Valves, **DELETE** paragraph 2.2.E in its entirety and **REPLACE** with "E. Gear and Power actuators as specified in Section 11557 – Actuators for Process Valves and Gates."

Item 1-32: Section 16063 – Underground Ducts and Raceways for Electrical Systems, **INSERT** the following paragraph after Paragraph 1.2.B.1:

"2. Section 03305 – "Structural Components of Underground Ducts and Raceways for Electrical Systems" for structural requirements."

Item 1-33: **INSERT** Appendix A – Environmental Permits attached hereto (see Addendum No. 1, Attachment 6)

DRAWINGS

Item 1-34: Drawing C-2 shall be **DELETED** and **REPLACED** with Drawing C-2 attached hereto (see Addendum No. 1, Attachment No. 7)

Item 1-35: Drawing IP-E-2 shall be DELETED and **REPLACED** with IP-E-2 attached hereto (see Addendum No. 1, Attachment No. 7)

RESPONSE TO QUESTIONS

Provided below are responses to questions submitted to date.

1. Is the Geotechnical Report Available?

   Response: Available geotechnical information is included at the end of Specification Section 02260 – Excavation Support and Protection.

2. Has the contract been executed with the selected vendor for the UV equipment? What is the proposed delivery schedule?

   Response: The equipment will not be pre-purchased by the Narragansett Bay Commission; the Contractor is responsible for procuring the equipment in accordance with the pre-negotiated price and scope (see attachment to Specification Section 11656).

Addendum No. 1
Attachment 1: Pre-bid Meeting Minutes

Pre-Bid Meeting Minutes
July 21, 2022
Narragansett Bay Commission, Phase III CSO Program

Final Clarifier, UV Disinfection and Miscellaneous Improvements, East Providence, RI
NBC Contract 308.10C

1. Sign In – All prospective bidders were requested to sign the attached sign in sheet.

2. Introductions – Parties from Narragansett Bay Commission (NBC), Stantec, and CDM Smith include:

   Greg Waugh, NBC, gwaugh@narrabay.com, (401) 461-8848 ext. 120
   Rich Bernier, NBC rbernier@narrabay.com (401) 461-8848 ext. 326
   Gerry Lagesse. NBC, glagesse@narrabay.com (401) 461-8848 ext. 123
   Kathryn Kelly, NBC kkelly@narrabay.com (401) 461-8848 ext. 316
   Marc Pariseault, NBC mpariseault@narrabay.com (401) 461-8848
   Chris Feeney, Stantec christopher.feeney@stantec.com (401) 214-1738
   Matt Pitta, CDM Smith pittamd@cdmsmith.com (401) 457-0347

3. Bid, Date, Time, Location – As indicated in the Contract Documents, Bids will be received at 2:00 PM on September 1, 2022 at the NBC Corporate Office Building at 1 Service Road Providence, RI. As a reminder, it is mandatory that a second ***printed*** copy (not electronic) of each bid shall be included for public inspection upon the bid opening.

4. Anticipated Award Schedule – The current schedule is to receive bids on or before September 1, 2022, submit a recommendation to the NBC Board for approval at the board meeting on September 27, 2022, and award the contract in November/December 2022.

5. General Description of Work –

   - Modifications to the Influent Pump Station including replacement of pump nos. 1 and 4.
   - Construction of two new final clarifiers, return sludge pump station, and ultraviolet disinfection building with effluent pumping station
   - Yard piping improvements including new and replacement piping and connections to the existing system
   - Modifications to each of the six existing final clarifiers including addition of launder covers and effluent metering
   - Site improvements including grading, pavement, and stormwater system modifications
   - Improvements to electrical distribution systems
   - SCADA programming
   - Handling of groundwater during construction including obtaining RIPDES permit and any required treatment.
   - Maintenance of Plant Operations as outlined in Specification Section 01810

6. Contract Time – The contract time is 960 calendar days from the Notice to Proceed.

7. Constraints and Restrictions - Please refer to section 01100 for specific construction restriction.

   - Addendum No. 1 (pending): Additional text has been added to clarify traffic restrictions/access for trucks/construction vehicles and employee parking.

- Coordination with on-going construction and plant operations. Administration Building Contract (NBC 817) will overlap, Pawtucket Tunnel Construction Project (NBC 308.01C) to access north and south landfills through Spring 2023. Digester Project (NBC 818) is scheduled to overlap.

8. Section 01068 Federal and State Requirements. Please reference Section 01068 for referenced State and Federal Requirements mandated by State Revolving Funds (SRF) and Water Infrastructure Finance and Innovation Act (WIFIA): MBE/WBE participation, prevailing wages, and American Iron and Steel (AIS) Requirements.

9. MBE / WBE Participation – The goals for minority and / or women's business enterprise is ten percent of the total dollar value of the work.

10. Addendum 1 – Addendum 1 is anticipated next week. Addendum No. 1 to include minutes of this meeting including questions and the following items:

- Revisions to the Bid Form (Section B) and Measurement and Payment (Section 01025) including combination of Items 1 and 2, revisions to allowance amounts, and addition of rock excavation item.
- Addition of language related to traffic and contractor parking in General Specifications (Section 01000)
- Elimination of monthly video requirements from Photographic Documentation specification section (Section 01323)
- Modifications to Submittal Section related to American Iron and Steel Requirements (Section 01300)
- Addition of Manufacturers; Startup and Training Services specification section (Section 01735)
- Removal of Construction Waste Management and Disposal specification section (Section 01741)
- addition of Rock Excavation and Disposal specification section (Section 02310)
- Modifications to Tank and Structure Cleaning to include algae removal and disposal (Section 02766)
- Prohibition of substitutes for clarifier drives in Circular Secondary Clarifier Equipment (Section 11258)
- Elimination of red dye requirement for electrical raceways (Section 03305)
- Minor modifications to other specification sections, including addressing references
- Addition of appendix including various environmental permits and requirements to specifications
- Modified construction staging areas (Sheet C-2)
- Removed "By Others" reference (to VFD platform) at Influent Pump Station (Sheet IP-E-2)

11. Questions – Questions should be e-mailed to NBC-Bidding@Stantec.com. All questions must be submitted at close of business ten (10) calendar days prior to bid opening.

12. Site Tour – A site tour of the BPWWTF was held immediately following the conclusion of the pre-bid meeting.

Pre Bid Meeting
Bucklin Point WWTF Final Clarifiers, UV Disinfection and Miscellaneous Improvements
NBC Contract 308.10C
July 21, 2020 @ 1:00 PM

Name	Company	Telephone	Email
GREG WAUGH	NBC	401 461 8549 x 120	GWAUGH@NARRABAY.COM
William Naragon	CH Nicholson	800-489-0455	bnaragon@CHNicholson.com
George Volpicelli	DOC	508-520-8900	GVolpicelli@OConnells.com
Jim Remaly	DOC	413 540 1370	jremaly@oconnells.com
Maria Donahue	DOC	617-866-8681	mdonahue@oconnells.com
Lindsey Phillips	DOC	413-427-3519	lphillips@oconnells.com
JIM RAMOS	HART ENGINEERING	401-640-1902	JRAMOS@HARTCOMPANIES.COM
Al Borden	ECW	401-215-0173	Al@EqualityConstructionWorks.com
Kevin Silvestri	E.W Audet + Sons	401-639-2045	KSilvestri@E.WAudet.com
Mike Hvizdos	United Rentals	508-989-1520	mhvizdos1@UR.com
THEO BARDELL	DOC	508-520-8900	TBARDELL@oconnells.com
TIM BEZLER	CARLSEN/EVOQUA (SUPPLIER)	203-731-4318	TMBEZLER@ATT.NET
Ryan Taylor	Xylem	203-558-5011	Ryan.Taylor@xylem.com
Paul Coogan	Barletta	781-737-1800	PCoogan@BarlettaCo.com
James Dervay	Walsh Const II LLC		JDervay@Walshgroup.com
Matt Pitta	CDM Smith	401 457 0347	pittamj@cdmsmith.com

Pre Bid Meeting
Bucklin Point WWTF Final Clarifiers, UV Disinfection and Miscellaneous Improvements
NBC Contract 308.10C
July 21, 2020 @ 1:00 PM

Name	Company	Telephone	Email
Shane O'Neill	Phoenix Foundation Co	617-483-2556	soneill@PhxFnd.com
Connor Johnson	Phoenix Foundation Co	(617-483-0061	CJohnson@phxfnd.com
Greg Kappes	Phoenix Foundation Co	8572864045	gKappes@PhxFnd.com

Addendum No. 1
Attachment 2: Specification Section B – Bid

SECTION B

BID

Bidder's Name _____

To the Narragansett Bay Commission, herein called the Owner, acting by and through said Commission, for Bucklin Point WWTF - Final Clarifier, UV Disinfection and Other Miscellaneous Improvements - Contract No. 308.10C in East Providence, Rhode Island.

The Undersigned, as bidder, herein referred to as singular and masculine, declares as follows:

(1) The only parties interested in this BID as Principals are named herein;

(2) this BID is made without collusion with any other person, firm, or corporation;

(3) no officer, agent, or employee of the Owner is directly or indirectly interested in this BID;

(4) he has carefully examined the site of the proposed Work and fully informed and satisfied himself as to the conditions there existing, the character and requirements of the proposed Work, the difficulties attendant upon its execution and the accuracy of all estimated quantities stated in this BID, and he has carefully read the Specifications and examined the Drawings, and annexed proposed AGREEMENT and the Specifications and other Contract Documents therein referred to and knows and understands the terms and provisions thereof;

(5) he understands that information relative to subsurface and other conditions, natural phenomena, existing pipes and other structures (surface and/or subsurface) has been furnished only for his information and convenience without any warranty or guarantee, expressed or implied, that the subsurface and/or other conditions, natural phenomena, existing pipes and other structures (surface and/or subsurface) actually encountered will be the same as those shown on the Drawings or in any of the other Contract Documents and he agrees that he shall not use or be entitled to use any such information made available to him through the Contract Documents or otherwise or obtained by him in his own examination of the site, as a basis of or ground for any claim against the Owner or the Engineer arising from or by reason of any variance which may exist between the aforesaid information made available to or acquired by him and the subsurface and/or other conditions, natural phenomena, existing pipes and other structures (surface and/or subsurface) actually encountered during the construction work, and he has made due allowance therefore in this BID;

(6) and he understands that the quantities of work tabulated in this BID or indicated on the Drawings or in the Specifications or other Contract Documents are only approximate and are subject to increase or decrease as deemed necessary by the Engineer; and he agrees that, if this BID is accepted he will contract with the Owner, as provided in the copy of the Contract Documents deposited in the office of the Engineer, this BID form being part of said Contract Documents, and that he will perform all the work and furnish all the materials and equipment, and provide all labor, services, plant, machinery, apparatus, appliances, tools, supplies and all other necessities required by the Contract Documents in the manner and within the time therein prescribed and according to the requirements of the Engineer as therein set forth.

(Note: Bidders must bid on each item. All entries in the entire BID must be made clearly and in ink or be typed; prices bid should be written in both words and figures.)

1.1 BID LIST

Item No.	Estimated Quantity	Description of Item with Unit Bid Price in Words (in dollars)	Unit Bid Price in Figure	Item Amount in Figures
1	L.S.	Construction of *NBC Contract 301.10C Complete Excluding* Bid Items 2 through *15* _____ Lump Sum		$_____
2	L.S.	Furnish the Ultraviolet Disinfection System Equipment and Services specified in Section 11656. *One Million Two Hundred Eighty-Three Thousand Nine Hundred Nineteen* Lump Sum		$ 1,283,919.00
3	Allowance	Test Pits Fifty Thousand Allowance		$ 50,000.00
4	Allowance	Unforeseen Underground Obstructions Two Hundred Thousand Allowance		$ 200,000.00
5	Allowance	Special Waste #1 *One Hundred Thousand* Allowance		$ *100,000.00*
6	Allowance	Removal and Disposal of Special Waste #2 *One Hundred Thousand* Allowance		$ *100,000.00*

Item No.	Estimated Quantity	Description of Item with Unit Bid Price in Words (in dollars)	Unit Bid Price in Figure	Item Amount in Figures
7	Allowance	Removal and Disposal of Special Waste #3 *One Hundred Thousand* Allowance		$ *100,000.00*
8	677 Each	Micropiles _____ Each	$_____	$_____
9	2 Each	Perform Pile Load Compression Tests _____ Each	$_____	$_____
10	2 Each	Perform Pile Load Tension Tests _____ Each	$_____	$_____
11	56,800 pounds	Additional Ductile Iron Fittings _____ per pound	$_____	$_____
12	2,000 C.Y.	Additional Flowable Fill _____ per cubic yard	$_____	$_____
13	L.S.	Provide Quarterly As-builts _____ Lump Sum		$_____
14	L.S	Mobilization/Demobilization _____ Lump Sum		$_____

Item No.	Estimated Quantity	Description of Item with Unit Bid Price in Words (in dollars)	Unit Bid Price in Figure	Item Amount in Figures
15	*50 C.Y.*	*Rock Excavation and Disposal*		
		_____ *per cubic yard*	*$*_____	*$*_____

TOTAL BID PRICE

_____Dollars $_____

1.2 ADDITIONAL BID PROVISIONS

The undersigned agrees that for extra work, if any, performed in accordance with the provisions of the annexed form of AGREEMENT, he will accept compensation as stipulated therein in full payment for such extra work.

Bidder understands that the OWNER reserves the right to reject any or all bids and to waive any informalities in the bidding.

As provided in the INFORMATION FOR BIDDERS, the bidder hereby agrees that he will not withdraw this BID within 90 calendar days after the actual date of the opening of Bids. If the Owner shall accept this Bid and a Notice of Award accompanied by at least four unsigned copies of the Agreement and all other applicable Contract Documents are delivered to the undersigned within ninety calendar days of the Receipt of Bids, the undersigned will within five days, excluding Saturdays, Sundays, and holidays, after the date of receipt of such notification, execute and return all copies of the Agreement and all other applicable Contract Documents to the OWNER. The premiums for all Bonds required shall be paid by the Contractor and shall be included in the Contract Price. The undersigned further agrees that the Bid Security accompanying this Bid shall become the property of the OWNER if the Bidder fails to execute the Agreement as stated above.

The undersigned hereby agrees that the Contract Time shall commence upon the date stipulated in a written Notice to Proceed, and that all work required under the Contract shall be completed before the time limit stipulated in Table A of the Agreement.

Delay damages as detailed in Table A of the Agreement shall be imposed upon Bidder for each calendar day of delay in completing all obligations and work required within the time specified.

The bidder shall complete and submit with his bid EPA Form 6100-4 DBE Subcontractor Utilization Form, EPA Form 6100-3 DBE Subcontractor Performance Form (one for each DBE firm to be used on the Project) and Certification Regarding Debarment and Suspension and Other Responsibility Matters Form. Failure to submit all bid pages, completed, shall render the bid nonresponsive and result in rejection of the bid.

Bidder acknowledges receipt of the following addendum:

Addendum No. _____ through Addendum No. _____

The bidder, by submittal of this BID, agrees with the Owner that the amount of the bid security deposited with this BID fairly and reasonably represents the amount of damages the Owner will suffer due to the failure of the bidder to fulfill his agreements as above provided.

(SEAL)

_____
(Name of Bidder)

By _____
(Signature and title of authorized representative)

_____
(Printed name of authorized representative)

_____
(Business address)

_____
(City and State)

Date_____

The bidder is a corporation incorporated, a partnership or an individual in the State or Commonwealth of

_____.

(Note: If the bidder is a corporation, affix corporate seal and give below the names of its president, treasurer, and general manager if any; if a partnership, give full names and residential addresses of all partners; and if an individual, give residential address if different from business addresses.)

The required names and addresses of all persons interested in the foregoing Bid, as Principals, are as follows:

_____

_____

_____

_____

_____

_____

STATEMENT OF BIDDERS QUALIFICATIONS

The following shall accompany the bid and is required as evidence of the bidder's qualifications to perform the work, as bid upon, in accordance with the contract drawings and specifications. This statement must be notarized. All questions must be answered. Additional data may be submitted on separate attached sheets.

1. Name of Bidder _____

2. Permanent Main Office Address _____

   _____

3. Official Mailing Address This Contract _____

   _____

4. When Organized _____

5. Where Incorporated, If a Corporation _____

6. Years Contracting under Present Name _____

7. List contracts on hand, and those completed similar in nature to this project.

Owner	Engineer	Work Performed As Contractor - Subcontractor	Description of Work	Contract Amount	Date Cmp.

8. List any work the firm has failed to complete, state where and why.
_____

9. If you have ever defaulted on any contract, state where and why.
_____

_____
(Name of Bidder)

By _____
(Signature and title of authorized representative)

_____
(Printed name of authorized representative)

_____
(Business address)

_____
(City and State)

Date _____

NOTARIZED

Signed before me on this_____ day of _____, 20___ .

_____
Notary Public (seal)

_____

My commission expires _____

CERTIFICATE OF AUTHORIZATION
FOR
BIDDING REPRESENTATIVE

(Note: Bidder must complete for certification of authorized representative signing Bid.)

At a duly authorized meeting of the Board of Directors of the

_____, held on _____ ,
(Name of Corporation) (Date)

at which all the Directors were present or waived notice, it was voted that

_____ _____
(Name of Authorized Representative) (Title)

seal of the company shall be valid and binding upon this company.

A true copy

ATTEST _____
Clerk

Place of business _____

_____

I hereby certify that I am the clerk of the _____
(Name of the Corp.)

_____ , that _____
(Name of Authorized Representative)

the duly elected _____ of said
(Title)

company, and that the above vote has not been amended or rescinded and remains in full force and effect as of the date of this contract.

Corporate Seal

Clerk

United States Environmental Protection Agency

OMB Control No: 2090-0030
Approved: 8/13/2013
Approval Expires: 8/31/2015

MBE/WBE COMPLIANCE STATEMENT

Disadvantaged Business Enterprise (DBE) Program
DBE Subcontractor Performance Form

_____hereby acknowledges (its/my)
(Name of Bidder)

obligation to award a minimum of ten percent (10%) of the dollar value of the entire amount of the bid to minority and/or women's business enterprise and to comply with R.I.G.L. 17-14-1 et seq. and the regulations promulgated thereunder.

By _____
(Signature and title of authorized representative)

_____
(Printed name of authorized representative)

OMB Control No: 2090-0030
Approved: 8/13/2013
Approval Expires: 8/31/2015

Disadvantaged Business Enterprise (DBE) Program
DBE Subcontractor Performance Form

This form is intended to capture the DBE[1] subcontractor's[2] description of work to be performed and the price of the work submitted to the prime contractor. An EPA Financial Assistance Agreement Recipient must require its prime contractor to have its DBE subcontractors complete this form and include all completed forms in the prime contractors bid or proposal package.

Subcontractor Name	Project Name	
Bid/ Proposal No.	Assistance Agreement ID No. (if known)	Point of Contact
Address		
Telephone No.	Email Address	
Prime Contractor Name	Issuing/Funding Entity:	

Contract Item Number	**Description of Work Submitted to the Prime Contractor Involving Construction, Services , Equipment or Supplies**	**Price of Work Submitted to**
DBE Certified By: ___ DOT ___SBA ___ Other: _____	Meets/ exceeds EPA certification standards? ___YES ____NO ____Unknown	

[1] A DBE is a Disadvantaged, Minority, or Woman Business Enterprise that has been certified by an entity from which EPA accepts certifications as described in 40 CFR 33.204-33.205 or certified by EPA. EPA accepts certifications from entities that meet or exceed EPA certification standards as described in 40 CFR 33.202.

[2] Subcontractor is defined as a company, firm, joint venture, or individual who enters into an agreement with a contractor to provide services pursuant to an EPA award of financial assistance.

EPA FORM 6100-3 (DBE Subcontractor Performance Form)

United States Environmental Protection Agency

OMB Control No: 2090-0030
Approved: 8/13/2013
Approval Expires: 8/31/2015

Disadvantaged Business Enterprise (DBE) Program
DBE Subcontractor Performance Form

I certify under penalty of perjury that the forgoing statements are true and correct. Signing this form does not signify a commitment to utilize the subcontractors above. I am aware of that in the event of a replacement of a subcontractor, I will adhere to the replacement requirements set forth in 40 CFR Part 33 Section 33.302 (c).

Prime Contractor Signature	**Print Name**
Title	**Date**

Subcontractor Signature	**Print**
Title	**Date**

The public reporting and recordkeeping burden for this collection of information is estimated to average three (3) hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

EPA FORM 6100-3 (DBE Subcontractor Performance Form)

United States Environmental Protection Agency

OMB Control No: 2090-0030
Approved: 8/13/2013
Approval Expires: 8/31/2015

Disadvantaged Business Enterprise (DBE) Program
DBE Subcontractor Utilization Form

This form is intended to capture the prime contractor's actual and/or anticipated use of identified certified DBE[1] subcontractors[2] and the estimated dollar amount of each subcontract. An EPA Financial Assistance Agreement Recipient must require its prime contractors to complete this form and include it in the bid or proposal package. Prime contractors should also maintain a copy of this form on file.

Prime Contractor Name		Project Name
Bid/ Proposal No.	Assistance Agreement ID No. (if known)	Point of Contact
Address		
Telephone No.		Email Address
Issuing/Funding Entity:		

I have identified potential DBE certified subcontractors	___ YES	O
If yes, please complete the table below. If no, please explain:		

Subcontractor Name/ Company Name	**Company Address/ Phone/ Email**	**Est. Dollar Amt**	**Currently DBE Certified ?**
	Continue on back if needed		

1 A DBE is a Disadvantaged, Minority, or Woman Business Enterprise that has been certified by an entity from which EPA accepts certifications as described in 40 CFR 33.204-33.205 or certified by EPA. EPA accepts certifications from entities that meet or exceed EPA certification standards as described in 40 CFR 33.202.

2 Subcontractor is defined as a company, firm, joint venture, or individual who enters into an agreement with a contractor to provide services pursuant to an EPA award of financial assistance.

EPA FORM 6100-4 (DBE Subcontractor Utilization Form)

United States Environmental Protection Agency

OMB Control No: 2090-0030
Approved: 8/13/2013
Approval Expires: 8/31/2015

Disadvantaged Business Enterprise (DBE) Program
DBE Subcontractor Utilization Form

I certify under penalty of perjury that the forgoing statements are true and correct. Signing this form does not signify a commitment to utilize the subcontractors above. I am aware of that in the event of a replacement of a subcontractor, I will adhere to the replacement requirements set forth in 40 CFR Part 33 Section 33.302 (c).

Prime Contractor Signature	Print Name
Title	**Date**

The public reporting and recordkeeping burden for this collection of information is estimated to average three (3) hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

EPA FORM 6100-4 (DBE Subcontractor Utilization Form)

CERTIFICATION REGARDING DEBARMENT & SUSPENSION AND OTHER RESPONSIBILITY MATTERS

In accordance with the Executive Order 12549, the prospective primary participant certifies to the best of his / her knowledge and belief, that its principals:

a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any federal department or agency;

b. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offence in connection with obtaining, attempting to obtain, or performing a public (federal, state, or local) transaction or contract under a public transaction; violation of federal or state antitrust statutes or commission of embezzlement,
theft, forgery, bribery, falsification or destruction or records, making false statements, or receiving stolen property;

c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (federal, state, or local) with commission of any of the offenses enumerated in paragraph (1) (b) of this certification.

d. Have not within a three-year period preceding this application / proposal had one or more public transactions (federal, state, or local) terminated for cause of default.

e. Acknowledge that all sub-contractors selected for this project must be in compliance with paragraphs (1) (a – d) of this certification.

_____ _____

Name and Title of Authorized Agent Date

_____

Signature of Authorized Agent

_____ I am unable to certify to the above statements. My explanation is attached.

Addendum No. 1
Attachment 3: Specification Section 01025 – Measurement and Payment

SECTION 01025 - MEASUREMENT AND PAYMENT

PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 DESCRIPTION

A. The following subsections describe the measurement of, and payment for, the work to be done under the items listed in the Bid Schedule.

B. Each unit or lump sum price stated in the Bid Schedule shall constitute full compensation as herein specified for each item of work completed in accordance with the drawings and specifications, including cleaning up.

C. The prices for those items that involve excavation shall include compensation for disposal of all excavated material, handling of all water in accordance with the Contract Documents, installation of all necessary excavation and support elements, and the removal and disposal of excavation support elements as required.

D. The retainage specified in the Contract Agreement shall apply to all payments to the Contractor, except for Allowances, as applicable.

E. The Contractor shall take no advantage of any apparent error or omission on the Contract Documents, and the Engineer shall be permitted to make corrections and interpretations as may be deemed necessary for fulfillment of the intent of the Contract Documents.

F. All portions of the Work required by the Contract Documents are either in an applicable allowance, a lump sum, or a unit price item listed in the Bid Schedule. Work for which there is not a separate item will be considered incidental to the Contract Documents and no additional compensation shall be allowed.

G. Related Work Described Elsewhere:

1. Information for Bidders, Section IB.
2. Contract Agreement, Section CA.
3. Section 01300 “Submittals.”
4. Section 01600 “Material and Equipment.”

1.3 SUBMITTALS

A. Submit to the Engineer for approval, a Schedule of Values allocating subcomponent costs within the various portions of the Work.

B. Upon the request of the Engineer, support the Schedule of Values with data that will substantiate their correctness.

C. Submit each Application for Payment on a form approved by the Engineer showing allowances, lump sum Schedule of Value items, and approved work performed for each unit price item in accordance with the Bid Schedule.

1.4 ALLOWANCES

A. Payment will be made for invoices submitted by the Contractor subject to the conditions and limitations in the Contract Documents.

B. The Contractor shall add overhead and profit to allowances in accordance with Extra Work.

C. The allowance will be adjusted to the actual amount paid for such services and supported by invoice and no retainage will be withheld from this amount.

D. The Contractor shall be responsible for the prompt payment for these allowance services to the appropriate payee providing said service and shall submit evidence to the Engineer of payments to the payee prior to its inclusion in the invoice.

1.5 LUMP SUM ITEMS

A. Payment of the lump sum items established in the Contractor's Bid under the various line items in the Bid Schedule incorporated into the Agreement will be full compensation for all labor, materials, and equipment required to furnish, deliver, install, construct, and test the Work covered under the lump sum bid item.

B. Payment of the lump sum items established in the Contractor's Bid shall also fully compensate the Contractor for any other work that is not specified or shown, but which is necessary to complete the Lump Sum Work items.

C. Payments for Lump Sum Work will be based upon measured and approved physical progress for each activity in accordance with the breakdown of the lump sum prices agreed to in the Schedule of Values.

1.6 UNIT PRICE ITEMS

A. Payment for all work shall be in accordance with the unit price bid items in the Bid Schedule and shall be full compensation for all labor, materials, and equipment required to furnish, deliver, install, construct and test the Work covered under the unit price bid item. Work for which there is not a price schedule item will be considered incidental to the Work and no additional compensation shall be allowed.

B. Payment will be made only for the actual approved quantities of work performed in compliance with the Contract Documents. The Contractor will receive reimbursement equal to the approved quantity multiplied by the applicable unit price.

C. Owner reserves the right to remove select bid items and to increase or decrease the unit quantity of bid items. The successful bidder is made aware that the unit price so stated on the Bid Schedule constitutes full compensation for that item, regardless of any increase or decrease in the unit quantity of that bid item. There is no guarantee of any minimum or maximum quantity for any bid item. Standards of the industry (e.g., renegotiation of the bid

price due to a 25% increase or decrease in the unit quantity of the bid item) shall not be enforceable under this contract

D. Measurement of all quantities of items listed in the Bid shall be done by the Contractor and verified by Owner. The measurement will include proper and complete documentation of all items to the satisfaction of the Owner prior to submission for payment. The measurement submitted shall be in the same unit description listed in the Bid Schedule.

E. Measurement of bid items made for unit quantities will be subject to the maximum permissible excavation trench width and depth allowed by the contract for payment purposes, as stipulated on the Drawings and Contract Documents. Excavations that are made deeper or cut wider due to Contractor's means and methods or for the Contractor's convenience will not be subject to additional payment. As such, the actual quantity used will not necessarily reflect the payable quantity, unless otherwise authorized by Owner. Contractor shall adjust their unit prices accordingly.

1.7 ALLOWANCE ITEMS

A. Under these items, the Contractor will be reimbursed for certain charges, authorized by Owner, for work not included in, or incidental to, other bid items but that is otherwise required in the course of completing the work of this Contract.

B. The allowance price for these items established in the Bid is an estimated figure to facilitate comparison of bids only. The actual amount to be paid under these items will constitute full compensation for wages paid, premiums on Workman's Compensation Insurance, payment on account for Social Security and other direct assessments on payroll, as may be required, and all other costs incidental to the services rendered.

C. The allowance price for these items may NOT include any costs associated with services rendered for routine utility markings, repair of damages incurred as a result of the Contractor's operations, relocations or dismantling and reassembling of utilities done at the Contractor's request and/or convenience or other utility relocation specifically covered under any other bid item, or any other unauthorized services rendered by utility companies. The purpose of this item is strictly for the Contractor's reimbursement for those unforeseen services authorized by Owner prior to the work being performed.

D. Any work proposed to be paid for under these items will be approved by the Owner in advance of performing the work.

1.8 PRICES INCLUDE

A. The prices stated in the Proposal include full compensation not only for furnishing all the labor, equipment and material needed for, and for performing the work and building the structures contemplated by, the Contract, but also for assuming all risks of any kind for expenses arising by reason of the nature of the soil, groundwater, or the action of the elements; for all excavation and backfilling; for the removal of and delay or damage occasioned by trees, stumps, tracks, pipes, ducts, timber, masonry or other obstacles; for removing, protecting, repairing, or restoring, without cost to the Owner, all pipes, ducts, drains, sewers, culverts, conduits, curbs, gutters, walks, fences, tracks, or other obstacles, road pavements and other ground surfacing whether shown on plans or not; for draining, damming, pumping or otherwise handling and removing, without damage to the work or to

other parties, and without needless nuisance, all water or sewage from whatever source which might affect the work or its progress, or be encountered in excavations made for the work; for furnishing, inserting and removing all sheeting, shoring, staging, cofferdams, etc.; for all signs, fencing, lighting, watching, guarding, temporary surfacing, bridging, snow removal, etc., necessary to maintain and protect travel on streets, walks and private ways; for making all provisions necessary to maintain and protect buildings, fences, poles, trees, structures, pipes, ducts and other public or private property affected or endangered by the work; for the repair or replacement of such things if injured by neglect of such provisions for removing all surplus or rejected materials as may be directed; for replacing, repairing and maintaining the surfaces of streets, highways, public and private lands if and where disturbed by work performed under the Contract or by negligence in the performance of work under the Contract; for furnishing the requisite filling materials in case of any deficiency or lack of suitable materials; for obtaining all permits and licenses and complying with the requirements thereof, including the cost of furnishing any security needed in connection therewith; for any and all expense on account of the use of any patented device or process; for protection against inclement or cold weather; for all expenses incurred by or on account of the suspension, interruption, or discontinuance of work; for the cost of the surety bond and adequate insurance; for all taxes, fees, union dues, etc., for which the Contractor may be or become liable, arising out of his operations incidental to the Contract; for providing equipment on the site and off site; for providing a field office and its appurtenances and for all general and incidental expenses; for tools, implements and equipment required to build and put into good working order all work contemplated by the Contract; for maintaining and guaranteeing the same as provided; and for fulfilling all obligations assumed by the Contractor under the Contract and its related documents.

B. The Owner shall pay and the Contractor shall receive the prices stipulated in the Bid made a part hereof as full compensation for everything performed and for all risks and obligations undertaken by the Contractor under and as required by the Contract.

C. The prices for those Items which involve excavation shall include compensation for disposal of surplus excavated material and handling water.

D. In all Items involving excavation, the price shall be based on doing the entire excavation in earth. Where rock is excavated, the price, therefore, shall be in addition to the cost of excavating earth and no deduction will be made in the amount for earth excavation.

E. The prices for all pipe Items (i.e., sewers, service connections, drains, etc.) shall constitute full compensation for furnishing, laying, jointing and testing; earth excavation, backfill and compaction; materials for bedding pipe as specified; and cleaning up.

F. Payment for boulder excavation less than one (1) cubic yard in size, including hauling boulders offsite and furnishing and installing appropriate backfill material, is included in the various items of work on the Bid Schedule and no separate payments shall be made thereof.

G. Payment for stripping topsoil, including stockpiling, and clearing and grubbing, including disposal, is included in the prices for the various items of work on the Bid Schedule and no separate payment shall be made thereof.

H. Payment for bituminous concrete pavement excavation and disposal, including saw cutting and excavation and disposal of temporary trench patches placed by Contractor, is incidental to the items provided on the Bid Schedule and no separate payment shall be made thereof.

I. Payment for permits and bonds required by the contract is included in the prices for the various items in the Bid Schedule and no separate payment shall be made thereof.

J. Payment for all signage required for this project is included in the prices for the various items in the Bid Schedule and no separate payment shall be made thereof.

K. No separate payment will be made for work or items associated with Division 1 – General Requirements unless otherwise specified herein. This includes Professional Engineer design fees incurred by the Contractor where this is required for submittals. Contractor shall incorporate the cost for these items into the prices submitted on the Bid Schedule.

L. Owner shall pay the direct cost of police details in the event they are required, but Contractor shall be responsible for coordinating and scheduling police details assigned to the project. Cancellation charges imposed due to changes or errors in Contractor's scheduling shall be paid for solely by the Contractor.

PART 2 PRODUCTS

2.1 PARTIAL PAYMENT FOR PRODUCTS

A. Contractor may request partial payment for Products (supplies, material and/or equipment) as defined in Section 01600 "Materials and Equipment," which will be incorporated into the Work and which are delivered and stored off-site. The request may only be made when submitting Contractor's proposal for a Schedule of Values. In order for this request to be considered, the Contractor must comply with the requirements of this sub-section and the Agreement. Any payments approved pursuant to this sub-section shall not exceed sixty-five percent (65%) of the Product's invoiced value and shall be subject to retainage as set forth in the Agreement. Contractor shall obtain prior approval since the Owner reserves the right to refuse approval for payment for any equipment or materials suitably stored off-site in its sole discretion, regardless of whether all conditions contained herein have been met.

B. Partial payment may be made for Products eligible for off-site delivery and storage only upon presentation by the Contractor of a Bill of Sale, an invoice or an Affidavit certifying that the material is received by the Owner free and clear of all liens, encumbrances and security interests of any kind and including for off-site delivery evidence acceptable to the Owner that "all risks" property insurance in an amount sufficient to protect the interests of the Owner is in effect at the approved site and that the Owner is a loss payee equal to or greater than its percentage of ownership.

C. Partial payment for Products delivered and stored off-site shall be contingent upon Contractor's compliance with the storage and protective maintenance requirements set forth in Section 01600 "Materials and Equipment" and all other requirements necessary to preserve equipment warranties for the benefit of the Owner.

D. All costs associated with delivery to and storage at an off-site facility shall be assumed by the Contractor notwithstanding the Contractor's request for and obtaining of the Owner approval to so deliver and store the materials.

E. Contractor shall provide written evidence to the Owner of having made arrangements for unrestricted access by the Owner and its authorized representatives to the materials wherever

stored, including provision for the Owner to take control and possession of such materials at any time and without restriction.

F. Contractor must provide the Owner, upon request and prior to any partial payment, documentation that transfers absolute legal title to such material to the Owner conditional only upon receipt of final payment. Neither such transfer of this nor any partial payment shall constitute acceptance by the Owner of the materials nor void the right to reject materials subsequently found to be unsatisfactory, or in any way relieve the Contractor of any obligation arising under the Contract Documents.

PART 3 EXECUTION (NOT USED)

PART 4 COMPENSATION

4.1 CONSTRUCTION OF NBC CONTRACT 308.10C COMPLETE EXCLUDING BID ITEMS 2 THROUGH *15* (BID ITEM NO. 1)

A. Measurement

1. The work of this bid item shall be measured on a percentage basis based on an approved schedule of values breakdown to be submitted by the contractor.

B. Payment

1. Payment of the lump-sum price bid in the Bid Form for Item No. 1 shall constitute full compensation for all labor, material, tools, equipment and incidentals necessary for constructing the Bucklin Point WWTF – Final Clarifier, UV Disinfection and Other Miscellaneous Improvements – Contract No. 308.10C, complete, as indicated in the Contract Documents, except for the items listed under Bid Items 2 through 15.

4.2 FURNISH THE ULTRAVIOLET DISINFECTION SYSTEM EQUIPMENT AND SERVICES SPECIFIED IN SECTION 11656 (BID ITEM NO. *2*)

A. The work under Bid Item No. *2* will include furnishing the preselected ultraviolet disinfection system equipment and services specified in Section 11656.

B. Measurement

1. Measurement of Bid Item No. *2* will be on a lump sum basis. The purchase price of the preselected ultraviolet disinfection system equipment components and all related spare parts and manufacturer services as described in Section 11656 has been pre-negotiated. The sum indicated under Bid Item No. *2* will be the final price for this equipment and services.

C. Payment

1. Payment of the equipment and services under Bid Item No. 2 in the Bid Form will be based on the Contractor's invoiced breakdown of progress to furnish the ultraviolet disinfection system equipment components.

4.3 ALLOWANCE FOR TEST PITS (BID ITEM NO. 3)

A. Measurement

1. The allowance for Bid Item No. 3 is a Contract allowance for removing and replacement of underground material for the purpose of investigation and locating underground obstructions as directed by the Engineer. Unforeseen underground obstructions may include rock, boulders, abandoned concrete structures, drain lines and other similar structures that are not documented but location to be determined to complete the work.

B. Payment

1. The allowance for this item established in the Bid is an estimated figure to facilitate the comparison of bids. The amount to be paid under this item is the actual cost to the Contractor, as allowed under Article 7 of the Contract Agreement, for test pit completion and any other ancillary costs associated with this bid item. All other costs associated with this item including coordination, insurance and other incidental expenses are included under Bid Item 1.

4.4 ALLOWANCE FOR UNFORESEEN UNDERGROUND OBSTRUCTIONS (BID ITEM NO. 4)

A. Measurement

1. The allowance for Bid Item No. 4 is a Contract allowance for demolishing, removing, and legally disposing any unforeseen underground obstruction as directed by the Engineer. Unforeseen underground obstructions may include abandoned concrete structures, yard piping, utilities, duct banks, and other similar structure that are not documented but must be removed to complete the work.

B. Payment

1. The allowance for this item established in the Bid is an estimated figure to facilitate the comparison of bids. The amount to be paid under this item is the actual cost to the Contractor, as allowed under Article 7 of the Contract Agreement, for the removal, handling, transportation, and legal disposal of unanticipated underground obstructions. and any other ancillary costs associated with this bid item. All other costs associated with this item including coordination, insurance and other incidental expenses are included under Bid Item 1.

4.5 ALLOWANCE FOR REMOVAL AND DISPOSAL OF SPECIAL WASTE #1 (BID ITEM NO. 5)

A. Measurement

1. The allowance for Bid Item No. 5 is a Contract allowance for removing and disposing Special Waste #1. Special Waste #1 is defined as material contamination that is materially different from that which has already been identified in the contract documents (i.e., unexpected contamination). See Section 01000 for further definition.

B. Payment

1. The allowance for this item established in the Bid is an estimated figure to facilitate the comparison of bids. The amount to be paid under this item is the actual cost to the Contractor, as allowed under Article 7 of the Contract Agreement, for the disposal of Special Waste #1 including disposal fees, transportation and handling costs, testing costs, and any other ancillary costs associated with this bid item. All other costs associated with this item including coordination, insurance and other incidental expenses are included under Bid Item 1.

4.6 ALLOWANCE FOR REMOVAL AND DISPOSAL OF SPECIAL WASTE #2 (BID ITEM NO. 6)

A. Measurement

1. The allowance for Bid Item No. 6 is a Contract allowance for removing and disposing Special Waste #2. Special Waste #2 is defined as material contamination that is materially different from that which has already been identified in the contract documents (i.e., unexpected contamination). See Section 01000 for further definition.

B. Payment

1. The allowance for this item established in the Bid is an estimated figure to facilitate the comparison of bids. The amount to be paid under this item is the actual cost to the Contractor, as allowed under Article 7 of the Contract Agreement, for the disposal of Special Waste #2 including disposal fees, transportation and handling costs, testing costs, and any other ancillary costs associated with this bid item. All other costs associated with this item including coordination, insurance and other incidental expenses are included under Bid Item 1.

4.7 ALLOWANCE FOR REMOVAL AND DISPOSAL OF SPECIAL WASTE #3 (BID ITEM NO. 7)

A. Measurement

1. The allowance for Bid Item No. 7 is a Contract allowance for removing and disposing Special Waste #3. Special Waste #3 is defined as material contamination that is materially different from that which has already been identified in the contract documents (i.e., unexpected contamination). See Section 01000 for further definition.

B. Payment

1. The allowance for this item established in the Bid is an estimated figure to facilitate the comparison of bids. The amount to be paid under this item is the actual cost to the Contractor, as allowed under Article 7 of the Contract Agreement, for the disposal of Special Waste #3 including disposal fees, transportation and handling costs, testing costs, and any other ancillary costs associated with this bid item. All other costs associated with this item including coordination, insurance and other incidental expenses are included under Bid Item 1.

4.8 MICROPILES (BID ITEM NO. 8)

A. Measurement

1. Measurement for payment of micropiles (Bid Item No. 8) will be on a per installed micropile basis. The average micropile length to be considered will be 45 linear feet as measured from tip to cut off. Deviations from this average value will be addressed in accordance with Article 7 of the Contract Agreement.

B. Payment

1. Price and payment for this item will include furnishing all labor, materials, equipment and incidentals required for installation of micropiles, including drilling of micropiles, casing, grouting, delegated design, as indicated on the Drawings and as specified in Section 02459. All other costs associated with this item including coordination, insurance and other incidental expenses are included under Bid Item 1.

4.9 PERFORM PILE LOAD COMPRESSION TESTS (BID ITEM NO. 9)

A. Measurement

1. Measurement of Bid Item No. 9 for payment will be by each completed compression test.

B. Payment

1. Price and Payment for this item will include furnishing all labor, materials, equipment and incidentals including set up, monitoring, and reporting results required to perform pile load compression tests in accordance with Section 02465. All other costs associated with this item including coordination, insurance and other incidental expenses are included under Bid Item 1.

4.10 PERFORM PILE LOAD TENSION TESTS (BID ITEM NO. 10)

A. Measurement

1. Measurement of Bid Item No. 10 for payment will be by each completed tension test.

B. Payment

1. Price and Payment for this item will include furnishing all labor, materials, equipment and incidentals including set up, monitoring, and reporting results required to perform pile load tension tests in accordance with Section 02465. All other costs associated with this item including coordination, insurance and other incidental expenses are included under Bid Item 1.

4.11 ADDITIONAL DUCTILE IRON FITTINGS (BID ITEM NO. 11)

A. Measurement

1. Measurement for payment of additional ductile iron fittings (Bid Item No. 11) will be on a per pound basis for installed fittings as specified in Divisions 2 and 15.

B. Payment

1. Price and Payment for this item will include furnishing all labor, materials, equipment, *hardware, gaskets, restraint*s, and incidentals for completed installation of ductile iron fittings in excess of those shown on the Drawings on an as needed basis only after being directed by Engineer. All other costs associated with this item including coordination, insurance and other incidental expenses are included under Bid Item 1. This item does not include ductile iron fittings already shown on the Drawings.

4.12 ADDITIONAL FLOWABLE FILL (BID ITEM NO. 12)

A. Measurement

1. Measurement of Flowable Fill (Bid Item No. 12) for payment will be measured in cubic yards at actual in-place dimensions as determined by the Engineer. No allowance will be made for loss from consolidation of material. Truck measurement will not be permitted.

B. Payment

1. Price and Payment for this item will include furnishing all labor, materials, equipment and incidentals for completed installation of excavatable flowable fill as directed by Engineer and as specified in Division 2. All other costs associated with this item including coordination, insurance and other incidental expenses are included under Bid Item 1. This bid item does not include flowable fill specifically required by the contract documents.

4.13 PROVIDE QUARTERLY AS-BUILTS (BID ITEM NO. 13)

A. Measurement

1. Measurement for Bid Item No. 13 will be on a percentage basis based on an approved schedule of values breakdown to be submitted by the contractor.

B. Payment

1. Price and payment for this item includes all labor, materials, equipment and incidentals required to provide updated as-builts of construction, including survey point data, in AutoCAD 2015 or later on a quarterly basis. All other costs associated with this item including coordination, insurance and other incidental expenses are included under Bid Item 1.

4.14 MOBILIZATION/DEMOBILIZATION (BID ITEM NO. 14)

A. Measurement

1. The work of this section shall be measured on a percentage basis. The payable quantity will be for preparatory work and operations which must be performed or for costs which must be incurred prior to beginning work, final clean-up and demobilization of temporary facilities and equipment, restoration of impacted areas, permit fees and the cost of payment and performance bonds. Mobilization shall include but is not limited to movement of personnel, equipment, supplies, and incidentals to the project site for the establishment of all Contractor's field offices, utilities, installation, maintenance and removal of facilities necessary for work on the project. Demobilization shall include but is not limited to moving out of personnel and equipment, cleaning entire site, and removing debris and rubbish.

B. Payment

1. Payment for this item shall be made as a percentage of the Lump Sum price listed on the Bid Schedule. The prices so stated shall constitute full and complete compensation for all work included in this item. The bid price shall be no more than 3% of total bid with payment as follows:

   i. 25% will be paid upon Notice to Proceed

   ii. 50% will be paid when the Contractor has commenced work on the Site in a diligent and continuous manner

   iii. 25% will be paid for demobilization.

4.15 ROCK EXCAVATION AND DISPOSAL (BID ITEM NO. 15)

A. Measurement

1. The Work of this section shall be measured by the cubic yard quantity of in-place rock or boulders that are larger than 1 cubic yard in size and require removal.

2. When rock is encountered, the material shall be uncovered and the Program Manager/Construction Manager notified. The Program Manager/Construction Manager shall determine quantities by volumetric computation determined from measurements performed before rock excavation begins and measurements performed after completion of rock excavation. If the Contractor fails to uncover the rock and notify the Program Manager/Construction Manager to allow ample time for cross sectioning the undisturbed material, the Contractor shall have no right-of-claim to any classification other than that allowed by the Program Manager/Construction Manager.

3. The depth of rock removal will be limited to 12" below the bottom of the pipe or structure. No compensation will be made for rock excavated beyond the limits shown on the Drawings and in these Specifications, unless specifically authorized in writing by the Owner. The Contractor should include in this bid item any and all costs associated with over excavation of rock beyond pay limits that they deem necessary for construction purposes.

B. Payment

1. *The accepted quantity of the work in this section will be paid for at the contract unit price per cubic yard as listed in the Bid Schedule. The price so stated constitutes full and complete compensation for all labor, materials, and equipment and for all other incidentals required to finish the work, complete and accepted by the Program Manager/Construction Manager.*

2. *This work shall include excavation, breaking (mechanical removal), hauling off site and legal disposal of rock and providing screened gravel for any deficiency of trench backfill and all work incidental thereto, for which payment is not provided under other items.*

4.16 EXTRA WORK

A. Extra Work: If any, shall be performed and paid for in accordance with Article CA.7.2.

END OF SECTION 01025

Addendum No. 1
Attachment 4: Specification Section 01735 – Manufacturers' Startup and Training Services

SECTION 01735
MANUFACTURERS' START-UP AND TRAINING SERVICES

PART 1 GENERAL

1.01 GENERAL REQUIREMENTS

A. The Contractor's manufacturers' training program shall provide the Owner's personnel and their consultants with sufficient information and skills training on the theory, design, site specific operation and maintenance practices (including items such as routine monitoring with normal and abnormal parameters, troubleshooting techniques, and preventive and corrective maintenance requirements) to insure that equipment and systems can be efficiently and effectively operated and maintained by the trainees upon completion of the training.

B. Training shall be a combination of classroom, field observance and hands-on applications. Training will be required pre and post start-up and will be required on all shifts.

C. The Contractor shall provide a credit to the Owner for any unused instructor hours.

D. Number of instructor hours (field and classroom pre- and post-start-up) are specified within specific equipment sections in Divisions 11, 13, 14, 15 and 16.

1.02 ROLES AND RESPONSIBILITIES

A. The Owner's Responsibilities: The Owner will:

1. Provide trainees.

2. Review quality of instructors, lesson plans, trainee manuals, training aids such as overheads, slides, video tapes, equipment cutaways, demonstration units, models, etc.

3. Evaluate instructor and course.

B. Contractor Responsibilities: The Contractor shall provide:

1. Qualified instructors for class, field, and hands-on training.

2. Lesson plans and Instructor Manuals (class, field and hands-on).

3. Trainee Manuals (one per student plus an additional 20 copies).

4. Obtain approvals/releases for video recording of all training performed by manufacturer's authorized representatives and for Owner reproduction and use of copyrighted material.

5. Upon satisfactory completion of training, all training materials used shall be cataloged. Five copies shall be submitted to the Owner.

1.03 MANUFACTURER'S AUTHORIZED REPRESENTATIVE

A. The manufacturer's authorized representative shall not be any of the following:

1. The General Contractor, any sub-contractor, or any sub-subcontractor on this project.

2. Any employee or agent of, or any party hired by, the General Contractor, any sub-contractor, or any sub-subcontractor on this project.

B. The authorized representative of the manufacturer shall be factory trained and experienced in the technical applications, installation, operation, and maintenance of the equipment, system, or subsystem. The representative is subject to acceptance by the Engineer. No substitute representative will be allowed unless prior written approval by the Engineer has been given.

1.04 MINIMUM SERVICE REQUIREMENTS

A. **The services of the manufacturers' representatives are required for all equipment and systems provided in Divisions 11 through 16.**

B. Schedule manufacturer's onsite services to avoid conflicts with other onsite testing or other manufacturer's onsite services. Determine that all conditions necessary to allow successful testing have been met before scheduling services.

C. Only those days of service approved by the Engineer will be credited to fulfill the specified minimum services.

D. Unless otherwise specified, manufacturer's onsite services shall include as a minimum:

1. Assistance during installation to include observation, guidance, instruction of contractor's assembly, erection, installation, and/or application procedures.

2. Inspection, checking, and adjustment as required for equipment to function as warranted by manufacturer and necessary to furnish written approval of installation.

3. Revisiting the site as required to correct problems and until installation and operation are acceptable to Engineer.

4. Resolution of assembly or installation problems attributable to, or associated with, respective manufacturer's products and systems.

5. Check out and certification.

6. Preliminary, Facility Start-Up and Demonstration Testing.

7. Training of Commission's personnel in the operation and maintenance of respective product as required herein. Unless specified otherwise, training shall consist of a total of three 4-hour sessions.

1.05 SUBMITTALS

A. Contractor shall submit in accordance with Section 01300, the following for review by the Owner:

1. Instructor Qualifications: the Contractor shall submit the following information for each instructor.

a. Proposed instructor(s) name.

b. Experience related to equipment for which training is to be provided (for each instructor).

c. Type of experience or expertise; i.e., operation, installation, design, service, etc.

d. Previous training/instructional experience.

e. Minimum of two project references involving training.

B. Training Outline/Lesson Plans

1. Submit training outline/lesson plans to cover each major trainee group. Example - Operations, Electrical Maintenance, Instrumentation, etc. If the same session outline is to be used for more than one type of trainee group, such as one which would cover equipment identification and principals of operation, this information should be so indicated on the outline. The outline should be detailed and include length of session for each major topic and type of session; i.e., field or classroom.

2. The required lesson plans shall be provided in an acceptable format in accordance with instructional technology standards. Information to be included, in addition to the requirements referenced in Session Contents below, shall include the following:

a. Target trainee group.
b. Length of session for each respective lesson plan.
c. Performed and or trainee objectives.
d. Audio visual equipment and or support materials required.
e. Reference resources.

3. The lesson plan shall be cross referenced to the trainee manuals provided and include instructor references for the use of training aids, training strategies, etc. They should contain sufficient technical material to guide the instructor in the delivery of the training material session. Lesson plans are to be provided for each separate technical discipline to be trained. Generic "informational" lesson plans may be used for multiple trainee discipline target groups. The specific number of lesson plans for each session will be determined by the complexity, content and objectives of the subject equipment covered.

4. The purpose of the manual is to provide specific guidance for the instructor and the trainees on what is to be taught and how, as well as to insure consistency and completeness of the sessions when they are presented to different groups of the same target trainee group.

C. Trainee Manuals

1. Submit trainee manuals which are keyed to the training outline. Copies should be available to pass out to each trainee at the session, they are to be retained by the trainee for future use. This trainee manual is not the O&M manual required in the specification, however, similar materials may be included as appropriate. Trainee manuals shall be of quality sufficient for electronic scanning and cross referenced to relevant tag item numbers. Tag item numbers are identification numbers assigned by the designer. These numbers appear on the plans and/or specifications.

2. The purpose of the manual is to provide an organized package of information for the trainee which will be used during the training sessions as well as for future reference material.

3. The organization of the manual should correspond to the training outline. Material in the manual should include information on the training topics, the training outline, and other relative reference material. Specifically, all manuals should be geared toward an eighth grade level of reading.

4. Manuals for Operations training sessions should include a description of the equipment, pre-start-up checks, start-up and shutdown procedure, specific monitoring checks including expected parameters, troubleshooting and safety procedures, etc. as described previously.

5. Manuals for Maintenance training sessions should include a description of the equipment, pre-start-up checks, start-up and shutdown procedure, specific monitoring checks including expected parameters, troubleshooting and safety procedures, etc. as described previously.

D. Submittal Schedule

1. 120 days prior to scheduled start-up, the Contractor shall submit instructor qualifications, course outline, and trainee manual contents listing. The Engineer will approve, comment, or reject within 15 days.

2. 90 days prior to start-up, the Contractor shall submit acceptable lesson plans, modified course outline, modified trainee manuals contents listing, and draft trainee manuals. The Engineer will approve, comment, or reject in 15 days.

3. 60 days prior to start-up, all elements of the training program must be acceptable. A final training schedule will be provided to the Contractor when the training program is deemed acceptable by the Engineer.

1.06 SESSION CONTENTS

A. The course shall be based on the approved Contractor operation and maintenance manual (Section 01731). Monitoring, evaluation, and reporting on the performance and quality of the instructor, and course will be conducted by the Engineer. The Contractor shall repeat any training efforts deemed unacceptable, at no additional cost to the Owner.

B. Operations Sessions

1. Overview of the equipment and its' auxiliary support/systems covering nomenclature, function and theory of operation.

2. General safety requirements for operation of the equipment and its' auxiliary/support systems, including suggested safety equipment.

3. Pre-start-up safety and equipment check.

4. Equipment and auxiliary/support systems start-up procedures covering manual and automatic modes, if available

5. Routine operation and monitoring requirements; including specifies on normally expected ranges for items such as oil, water pressure and temperatures, discharge pressures, sensory observations, etc., procedures to change operating parameters (such as air or flow rates).

6. Equipment/systems shut down procedures covering manual and automatic modes (if available).

7. Operational troubleshooting of equipment and auxiliary/support systems.

8. Procedures for handling non-routine operational problems such as response to alarms, power failures, emergency shutdown, auxiliary/support system failures, etc.

C. Maintenance Sessions

1. If session is specific to a discipline; e.g., Electrical, include only appropriate maintenance items for the discipline; if session is to include multiple disciplines, include all items for those disciplines and indicate in submittal outline which discipline to which the material refers.

2. For All Disciplines provide the following:

   a. An overview of the equipment and its' auxiliary/support systems covering nomenclature, function and theory of operation.

   b. General safety requirements for maintenance of the equipment and its' auxiliary/support systems appropriate to each discipline including suggested safety equipment and practices. Cover local/remote lockout procedures, safe procedures for handling alarms and built-in safety devices during preventive and corrective maintenance.
   c. Overview of pre-start-up, routine operation monitoring, and shutdown procedures covering automatic and manual modes (if applicable).

3. For Each Specific Discipline provide the following:

   a. Provide preventive maintenance procedures to be followed; include parts' lube quantities, types, frequencies, application points, time requirements to perform procedures, etc. Information should be provided to trainees from the O&M manuals which cross references manufacturer's lube requirements. See Section 01731.

   b. Specific procedures to cover adjustment requirements for alignment, wear, calibration, etc. for all preventive maintenance and corrective maintenance procedures including time required to perform.

   c. Special tools, techniques or procedures required for either preventive or corrective maintenance of equipment or its' auxiliary support systems.

   d. Assembly/disassembly procedures required for preventive or corrective maintenance (the use of models, "exploded" views/parts lists, hands on field training or other audio visual materials is recommended for this area of training). Include time requirements for procedures performance.

e. Maintenance troubleshooting of equipment and auxiliary/support systems.

1.07 TRAINING SCHEDULE

A. The Contractor shall deliver the training at scheduled times in accordance with a schedule submitted to and approved by the Owner. All training sessions will be provide for each of the three work shifts. Currently the shifts are 7:00 AM to 3:00 PM, 3:00 PM to 11:00 PM and 11:00 PM to 7:00 AM. For scheduling and training effectiveness, no one class will be longer than 4 hours.

B. Pre-start-up training will be conducted during equipment certifications. Post start-up training will be conducted during start-up.

C. Since the specified training will be integrated into a plant-wide schedule, the Owner may redistribute the total number of instructor hours between pre- and post-start-up.

1.08 VIDEO AND DIGITAL INFORMATION

A. Video and other digital information provided shall be compatible with standard Microsoft software.

D. Video and other digital information shall be provided on compact disc (CD) or digital video/versitile disc (DVD), cataloged with printed labels. Compact discs and holders shall have labels with the following information:

1. CD/DVD number

2. Owner's name

3. Date of training

4. Subject of training

5. Project name and number

E. Recording of Training Sessions

1. Provide all labor, materials, and equipment required and furnish color audio video recording of all training performed by manufacturers' authorized representatives.

2. Furnish an original and one copy of a continuous color audio video recording.

3. The recordings shall be of sufficient detail to accurately and clearly show the entire training session, including demonstrations and field work.

4. The recording shall be performed by a qualified, established audio video recording firm knowledgeable in construction practices and experienced in the implementation of established inspection procedures.

F. Manufacturer's Videos and Digital Presentations

1. If available, provide operation and maintenance videos for all equipment.

2. Should the training instructors or manufacturer's representatives employ digital presentations during training sessions, the Contractor shall furnish the Engineer with two complete sets of CDs with the digital presentation.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

Addendum No. 1
Attachment 5: Specification Section 02310 – Rock Excavation and Disposal

SECTION 02310 – ROCK EXCAVATION AND DISPOSAL

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Excavating, removing, and disposing of rock and boulders during excavation.
2. Tools to assist rock removal.
3. Backfill in place of the excavated rock.

B. Related Requirements:

1. Section 02060 “Soils and Aggregates for Earthwork”
2. Section 02260 “Excavation Support and Protection”
3. Section 02300 “Earthwork”
4. Section 02333 “Trenching and Backfilling”

1.3 DEFINITIONS

A. Rock: Intact mass of stone, bedrock, or ledge rock.

B. Boulder: Rock fragments exceeding 1 cubic yard in volume.

C. Rock Excavation: Removal of intact rock, which in The Engineer’s opinion cannot be removed by conventional mechanical excavation equipment and requires continuous, systematic drilling, blasting, wedging, sledging, cutting, barring, jack hammering, hoe ramming or expansive chemical splitting.

D. Boulder Excavation: Removal of non-intact boulders that can be removed by conventional mechanical excavation equipment.

E. Conventional Mechanical Excavation Equipment: Bulldozer, excavator, hoe ram, and/or ripper.

F. Soil Excavation:

1. Rock fragments less than 1 cubic yard in volume that can be removed by conventional mechanical excavation.
2. Removal of earth, weathered rock, and rock fragment that can be removed by conventional mechanical excavation.
3. Soil excavation includes excavation of earth materials that are not considered as rock

excavation or boulder excavation.

G. Loose or disintegrated rock, rotted shale, nested stones, hardpan, and like materials are not considered as rock or boulder.

H. The Engineer: Engineer hired by Owner.

1.4 ACTION SUBMITTALS

A. Submit means and methods description at least two weeks prior to commencing rock and boulder excavation.

1. Identify techniques including size and energy of impact equipment and chemical properties of agents to be used for chemical splitting.
2. Name and qualifications of persons responsible for monitoring and reporting rock excavation vibrations.

B. Review by The Engineer of Contractor's submittals does not relieve Contractor of responsibility for accuracy, adequacy, and safety of rock and boulder excavation, exercising proper supervision and field judgment, and producing results specified in this Section.

PART 2 - PRODUCTS – NOT USED

PART 3 - EXECUTION

3.1 PREPARATION

A. Identify required lines, levels, contours, and datum.

B. Uncover rock when encountered, but do not excavate until measurements are made by The Engineer.

3.2 ROCK REMOVAL

A. Perform rock excavation by drilling, wedging, sledging, cutting, barring, jack hammering, hoe ramming, expansive chemical splitting, or other similar process in a manner, which does not cause damage to existing structures, new construction, or affecting Owner operations.

B. Blasting is not allowed.

C. Perform rock excavation operations to comply with project, state, and local noise and dust regulations.

D. When below grade excavation methods shatter rock and is unfit for subgrade, as determined by the Engineer, remove rock and refill excavation with thoroughly compacted screened gravel, structural fill, or lean concrete without additional compensation.

E. When directed by the Engineer during the work, remove dirt and loose rock from designated areas and thoroughly clean rock surface; use steam to melt snow and ice, if necessary. Remove water in depressions so the whole surface of designated area can be inspected to determine whether seams or other defects exist.

F. Leave surfaces of rock foundations sufficiently rough to bond well with concrete. When required, cut rock to rough benches or steps.

G. Before installing masonry or embankment on or against rock, free rock surfaces from vegetation, dirt, sand, clay, boulders, scale, excessively cracked rock, loose fragments, ice, snow, and other objectionable substances. Use picking, barring, wedging, streams of water under sufficient pressure, stiff brushes, hammers, steam jets, and other effective means to accomplish this cleaning. Remove free water left on rock surface.

3.3 BOULDER EXCAVATION

A. Boulder and rock fragments up to 1 cubic yard in volume may be reduced in size by rock excavation methods to simplify its removal.

3.4 DISPOSAL OF ROCK AND BOULDERS

A. Fragmented rock with dimensions not exceeding 6 inches in any direction may be mixed with common fill and used as common fill in accordance with Section 02060 “Soils and Aggregates for Earthwork.”

B. Crushed and screened rock and boulders may be for reused in the work, provided resultant materials meet requirements for gravel, crushed stone, or structural fill as specified in 02060 “Soils and Aggregates for Earthwork.”

C. Stockpile excavated material without excessive surcharge on excavation or obstructing free access to hydrants and gate valves. Avoid inconvenience to traffic and abutters as much as possible.

D. Should conditions make it impracticable or unsafe to stack material adjacent to excavations, haul and store material at provided location. When required, re-handle and use it for trench backfilling without additional compensation.

E. Replace rock and boulder material disposed of by wasting using available surplus suitable soils. Where there is a deficiency of surplus backfill material, provide common fill without additional compensation.

F. Remove and dispose off-site unused rock and boulders.

END OF SECTION 02310

Addendum No. 1
Attachment 6: Appendix to the Specifications, Appendix A – Environmental Permits

Appendix A
Environmental Permits

Coastal Resource Management Council (CRMC)
Assent

State of Rhode Island

COASTAL RESOURCES MANAGEMENT COUNCIL

NOTICE OF

ASSENT

CRMC Assent No.: A2020-02-043 Date: June 21, 2022

This certifies that **Narragansett Bay Commission**

has permission to **perform work at Bucklin Point Wastewater Treatment Facility (WWTF) involving:**

- Construction of two final clarifiers. Clarifiers #7 and #8;
- Flow splitting modification including changes to mixed liquor distribution and final clarified effluent piping;
- New return sludge facilities to account for the added clarifier;
- Improvement to instrumentation and controls;
- Modification to the influent pump stations; and
- A new UV Disinfection system to replace an existing, outdated system

situated at Various Locations

Plat No. _____ Lot No. _____

Said construction operations to be done in accordance with an approved assent on file in the Offices of the Coastal Resources Management Council and subject further to all the provisions of the building ordinances of the :

City/Town of **RI Coastal Zone**

and to all the applicable State, Local and Federal provisions. This assent shall expire three (3) years from the date of this assent.

Amanda Turco

Official Designee
Coastal Resources Management Council

THIS CARD MUST BE DISPLAYED IN A CONSPICUOUS PLACE ON THE PREMISES.
FAILURE TO DISPLAY WILL RESULT IN LEGAL ACTION.

State of Rhode Island
Coastal Resources Management Council
Oliver H. Stedman Government Center
4808 Tower Hill Road, Suite 3
Wakefield, RI 02879-1900

(401) 783-3370
Fax (401) 783-2069

Post CRMC Assent Requirements

The following is a checklist of Post Assent actions that are required for you to address:

☒ **Recording of Assent:**

- As per General Stipulation "A" of the enclosed Assent, the Property Owner or their Agent **must record** this CRMC Assent in its entirety at the project location's local municipal Town/City Clerk's office. Each and every page of this enclosed Assent must be registered by the applicant onto the property's title and certified by the City/Town. You **must** do this within 30 days of receiving this Assent. **You, the applicant, are responsible for returning, a hard copy or email to the Coastal Resources, a copy of each and every page to CRMC of the recorded Assent which will be stamped by the Clerk's office upon your filing.** Failure to comply could render this Assent null and void, revocation of your Assent and/or resulting in an Administrative Fine of up to $2,500.00 being assessed. Your prompt attention to this matter is greatly appreciated. Should you have any questions please do not hesitate to call the Coastal Resources office at 401-783-3370, fax us at 401-783-2069 or email copy of the recorded Assent to **jabbruzzese@crmc.ri.gov**.

☐ Commencement of Work Notice:

- Please alert CRMC within 48 hours of the start of your project by emailing: Cstaff1@crmc.ri.gov.

☒ **Posting of Assent Card:**

- To be in compliance with your CRMC Assent you must post the orange or blue assent card enclosed in a conspicuous place on the project site. Please do not remove the document attached which is the actual assent with stipulations.

☐ Post Dock Construction Requirement:

- As per Red Book (650-RICR-20-00-1) § 1.3.1(D)(11)(y), all residential docks shall be certified by the Design Engineer that it was constructed according to the approved plans with typical marine construction standards. Please provide confirmation of certification through the use of the enclosed document. All applicants for residential and limited recreational docks shall submit the CRMC designer's dock as-built form and an as-built survey within thirty (30) days following construction. Post construction survey shall meet all requirements of Section 1.3.1(D)(10)(t).

State of Rhode Island
Coastal Resources Management Council
Oliver H. Stedman Government Center
4808 Tower Hill Road, Suite 116
Wakefield, RI 02879-1900

(401) 783-3370
Fax (401) 783-2069

June 20, 2022

Narragansett Bay Commission
Attn: Kathryn Kelly, P.E.
One Service Road
Providence RI, 02905

ASSENT MODIFICATION

RE: Modification of **CRMC Assent A2020-02-043 #9 - The modification is for work at Bucklin Point Wastewater Treatment Facility (WWTF) involving:**

- **Construction of two final clarifiers. Clarifiers #7 and #8;**
- **Flow splitting modification including changes to mixed liquor distribution and final clarified effluent piping;**
- **New return sludge facilities to account for the added clarifier;**
- **Improvement to instrumentation and controls;**
- **Modification to the influent pump stations; and**
- **A new UV Disinfection system to replace an existing, outdated system**

Site Address: 102 Campbell Avenue, East Providence, Plat 302, Lot 01

Dear Applicant,

The Rhode Island Coastal Resources Management Council has reviewed your request for Modification of Assent number **A2020-02-043MODIFICATION #9, The modification is for work at Bucklin Point Wastewater Treatment Facility (WWTF) involving:**

- **Construction of two final clarifiers. Clarifiers #7 and #8;**
- **Flow splitting modification including changes to mixed liquor distribution and final clarified effluent piping;**
- **New return sludge facilities to account for the added clarifier;**
- **Improvement to instrumentation and controls;**
- **Modification to the influent pump stations; and**
- **A new UV Disinfection system to replace an existing, outdated system**

and approves the modification with the following alterations to stipulations:

Stipulations of Approval:

1. **The applicant shall record this assent in its entirety in the land evidence records of the City/Town of East Providence within thirty (30) days of the date of assent issuance. Certification by the Town Clerk's office that this stipulation has been complied with shall be furnished to Coastal Resources Management Council by the applicant within fifteen (15) days thereafter. Failure to comply with provision will render this assent null and void.**

2. The approved site plans shall be those titled "PHASE III COMBINED SEWER OVERFLOW PROGRAM PROJECT IIIA-3 OF-205 FACILITIES CONTRACT NO. 308.01C …, " dated April 2022 (cover sheet stamped CRMC RECEIVED May 18, 2022), prepared by Wright-Pierce, Inc. and stamped by Louis Ragozzino, P.E.,. Except as stipulated or modified herein, all details and specifications thereon shall be strictly adhered to. Any and all changes require written approval from this office.

3. The Permittee shall construct and maintain all erosion and sediment control practices in accordance with document entitled "Soil Erosion and Sediment Control Plan, Phase III CSO Program-Phase IIIA 10 Clarifier and Flow Splitter, Bucklin Point Wastewater Treatment Facility…," dated 4/18/'2022 prepared by CDM Smith, Matthew D. Pitta, P.E., PMP

4. All stormwater management practices shall be operated and maintained in accordance with the Operation and Maintenance (O&M) Plan, "Phase III CSO Program Stormwater Operation and Maintenance Plan and Long-Term Pollution Prevention Plan" dated April 8, 2022

5. All work shall be in accordance with the RIPDES permit issued for this Modification.

Unless modified by this document all work authorized by this CRMC Assent Modification Approval must be completed within the three (3) year approval period established in the original CRMC Assent (as noted by page 1, paragraph 2 of the original assent) which is **November 04, 2030**. In cases where the approved work will not be completed within this time frame, an Assent Extension Request Form must be submitted 60 days prior to the expiration of the established time frame for work completion. **In addition, all stipulations of the original CRMC assent remain in full force and effect except as modified by the stipulations contained herein and/or by the plans approved by this assent modification approval.**

Sincerely,

Jeffrey M. Willis, Executive Director
Coastal Resources Management Council

/lat

Rhode Island Department of Environmental Management (RIDEM)
Remediation General Permit

2019
Rhode Island Pollutant Discharge Elimination System
Remediation General Permit

Effective Date: May 23, 2019

Expiration Date: May 22, 2024

Rhode Island Department of Environmental Management
Office of Water Resources
RIPDES Program

AUTHORIZATION TO DISCHARGE UNDER THE RHODE ISLAND POLLUTANT DISCHARGE ELIMINATION SYSTEM

REMEDIATION GENERAL PERMIT

In compliance with the provisions of Chapter 46-12 of the Rhode Island general Laws, as amended, except as provided in Part I.A.3 of the permit, owners and operators of discharges associated with remediation projects located in the State of Rhode Island are authorized to discharge in accordance with the conditions and requirements set forth herein.

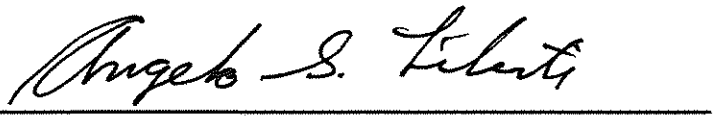
Owners and operators of discharges associated with remediation projects who intend to be authorized by this general permit must meet the application requirements outlined in Part I.B of the permit. Authorization to discharge shall be granted in accordance with Part I.B.2 of this permit. Owners and operators of discharges from remediation projects that fail to submit a Notice of Intents in accordance with Part I.B of this permit are not authorized to discharge under this permit.

This general permit shall become effective on May 23, 2019.

The general permit and the authorization to discharge expire at midnight, five years from the effective date, or May 22, 2024.

This permit supersedes the general permit issued on September 30, 2013.

Signed this 23rd day of April 2019.



Angelo S. Liberti, PE
Administrator of Surface Water Protection
Office of Water Resources
Rhode Island Department of Environmental Management
Providence, Rhode Island

Table of Contents

Part I: Permit Applicability

A. Applicability and Coverage of the Remediation General Permit (RGP)

1. Permit Area: This permit applies to all areas of the State of Rhode Island.

2. Eligibility: Except discharges identified in Part I.A.3, this permit covers the discharge of treated waste water to surface waters from the sources listed below:

   a. site remediation activities related primarily to petroleum, including site remediation of groundwater contaminated from spills or leaks of gasoline, fuel oil, or other oil contaminated sites, and related activities;

   b. site remediation where the spill or leak is not petroleum-specific, such as sites contaminated with volatile organic compounds and/or metals, and related activities;

   c. construction dewatering of contaminated sites, including locations where sub-surface site investigations and/or soil characterization for disposal have revealed various common pollutants typically associated with past industrialization, power generation, incineration, or other activity and where no specific source of contamination is apparent, and related activities; and

   d. de-watering of miscellaneous contaminated sites, such as aquifer pump testing to evaluate remediation of formerly contaminated sites, well development or rehabilitation at contaminated or formerly contaminated sites, hydrostatic testing of pipelines and tanks, and remediation of contaminated sumps and dikes, and related activities.

Table 1: Activities Covered by Remediation General Permit

Petroleum Related Site Remediation	A. Gasoline Remediation Sites
	B. Fuel Oil (and other Oils) Sites
	C. Petroleum Sites Containing Other Pollutants
Non- Petroleum Site Remediation	D. Volatile Organic Compound (VOC) Only Sites
	E. VOC Sites Containing Other Contaminants
	F. Sites Containing Primarily Metals
Construction Sites	G. Contaminated Construction Dewatering
Miscellaneous Contaminated Discharges	H. Aquifer Pump Testing and Well Development or Rehabilitation at Contaminated Sites
	I. Hydrostatic Testing of Pipelines and Tanks
	J. Contaminated Sumps and Dikes

3. Limitations of Coverage: The following discharges are not authorized by this permit:

   a. Discharges associated with the treatment of groundwater that has a reasonable potential to be contaminated with sources other than those specified in Part A.2 of this permit.

   b. Remediation discharges that may adversely affect a State or Federally listed, or a proposed to be listed, endangered or threatened species or its critical habitat.

   c. Remediation discharges that may cause or contribute to a water quality violation.

   d. Remediation discharges to the terminal reservoir of a public drinking water supply.

   e. Remediation discharges to Class AA, A, or SA waters where the applicant failed to demonstrate to the satisfaction of the Director, that no reasonable alternative exists and that the discharge will not impair existing uses or the attainment of designated uses.

   f. Discharges to a Publicly-Owned Treatment Works (POTWs).

   g. Discharge of dredge drain back waters covered by CWA Section 401 and 404.

   h. Discharges listed in an individual permit unless:

      i. the permit has expired;
      ii. DEM has terminated the existing permit;
      iii. The discharges are separate from the currently permitted discharges; or
      iv. The discharge is new and eligible for this permit (e.g., an industry where the primary process waste discharge is covered by an individual permit but the facility is conducting groundwater remediation with separate treatment and discharge).

   i. Discharges for which the Director makes a determination that an individual permit is required under §1.33(C) of the RIPDES Regulations (See 250-RICR-150-10-1.33(C)).

B. Application and Notice of Intent

1. Definition of "Owner" & "Operator":

   a. For the purposes of this permit, the "owner" of a property is the person, as defined by §1.4 of the RIPDES regulations (See 250-RICR-150-10-1.4), holding the title, deed, or legal document to the regulated property, facility, or activity, including a party working under an easement on the property.

   b. The "operator" is defined as the person who has operational control over plans and specifications, or the person who has day-to-day supervision and control of activities occurring at the site. Further, for purposes of this permit, the operator is:

      i. The owner if that person is performing all work related to complying with this permit; or
      ii. Both the owner and contractor(s), as co-permittees, if a contractor(s) has been hired to perform work related to complying with this permit.

2. Authorization: To be authorized to discharge under this general permit, owners and operators of remediation discharges shall submit to the Director a standardized Notice of Intent (NOI) form in accordance with Part II.F of this permit. All NOIs must be submitted to the Director by hard copy (See Part II.F.9), unless an electronic reporting tool becomes available during the period covered under this permit that DEM implements (See 40 CFR 127.26(h)) according to DEM's NPDES Electronic Reporting Rule Phase 2 Implementation Plan. Upon review of the NOI, the Director may deny coverage under this general permit at any time and require submittal of an application for an individual permit. The Authorization may include special conditions, as necessary to protect waters of the State. Authorization to discharge under this general permit shall only be effective upon the owner(s) receipt of an authorization page signed and certified by the Director or the Director's designee.

3. Deadlines for Requesting Authorization:

   a. Discharges that were authorized under an existing permit and which are eligible for coverage under this general permit must submit an NOI within thirty (30) days of the effective date of this permit, if they are expected to continue discharging.

   b. Discharges that are eligible for coverage under this general permit, which commence after the effective date of this permit, must submit an NOI at least thirty (30) days prior to the commencement of such discharge.

4. Signature: The NOI must be signed by the owner(s) and operator(s) of the facility, as defined in Part I.B.1, above, in accordance with the signatory requirements of §1.12 of the RIPDES regulations (See 250-RICR-150-10-1.12).

5. Termination of Coverage: Owners and/or operators of facilities must notify the Director in writing when discharge(s) authorized by the Remediation General Permit no longer occur at the facility. This notification must be made within thirty (30) days of the permanent cessation of the discharge. At that point, coverage under this permit is terminated. At a minimum, the following information is required to terminate coverage under this permit:

   a. Owner's name, mailing address, contact person, and telephone number;

   b. Operator's name, mailing address, contact person and telephone number;

   c. Name and location of the facility;

   d. RIPDES Remediation General Permit number; and

   e. Certification that the discharge no longer occurs.

6. Failure to Notify: Owners or operators, who fail to notify the Director of their intent to be covered under a general permit and discharge to waters of the State or to a separate storm sewer system without a RIPDES permit, are in violation of Chapter 46-12 of the Rhode Island General Laws and the Clean Water Act and are subject to legal action.

7. Continuation of the General Permit After Expiration: If this permit is not reissued prior to the expiration date, it will be administratively continued in accordance with the Administrative Procedures Act and remain in force and in effect as to any particular permittee. However, once this permit expires the DEM cannot provide written notification of coverage under this general permit to any permittee who submits a Notice of Intent to DEM after the permit's expiration date. Any permittee who was granted permit coverage prior to the expiration date will automatically remain covered by the continued permit until the earlier of:

   a. Reissuance of this permit, at which time the permittee must comply with the Notice of Intent conditions of the new permit to maintain authorization to discharge;

   b. The permittee's submittal of a Notice of Termination;

   c. Issuance of an individual permit for the permittee's discharges; or

   d. A formal permit decision by the DEM not to reissue this general permit, at which time the permittee must seek coverage under an alternative permit.

Part II. Permit Conditions

A. Effluent Limitations and Monitoring Requirements

1. General Effluent Limitations and Monitoring Requirements – Each outfall subject to this permit shall be limited and monitored by the permittee as specified below in accordance with the receiving water classification indicated. Permittees shall monitor the effluent in accordance with the monitoring requirements from Part II.B.

a. Permittees must monitor twice per month for each outfall in accordance with Part II.B of this permit.

b. All of the parameter limits of the permit apply except where the permittee has certified that pollutants are "believed absent" in the discharge (see Part II.A.6 below) or where specifically excluded in the provisions below.

2. Water Quality Requirements

a. The discharge shall not cause visible discoloration of the receiving waters.

b. The discharge shall contain neither a visible oil sheen, foam, nor floating solids at any time.

c. The discharge shall not cause or contribute to any erosion, stream scouring, or sedimentation caused directly or indirectly by the discharge.

d. The pH of the discharge shall not be:
   i. Freshwaters (classifications AA, Non-Class AA): less than 6.5 nor greater than 9.0 standard units at any time, or as naturally occurs, unless these values are exceeded as a result of the approved treatment processes; or
   ii. Saltwaters (classifications SA or SB): less than 6.5 nor greater than 8.5 standard units but not more than 0.2 units outside of the normally occurring range, unless these values are exceeded as result of the approved treatment processes.

3. Prohibition of Toxic Discharge - The discharge shall not contain materials in concentrations or in combinations which are hazardous or toxic to aquatic life or which would impair the uses designated by the classification of the receiving waters.

4. Effluent Limits – Permittees must demonstrate compliance with all of the applicable effluent limits specified in this permit.

5. Consideration of Dilution Factors for Discharges of Metals – Where discharges of metals to freshwater receiving waters require effluent limits, dilution factors may be applied to the discharges of metals to freshwaters. In the NOI, the applicant must select the applicable parameters and, if necessary, an appropriate dilution factor. See the NOI Instructions for details on how to determine the applicable effluent limitations for metals into freshwater.

6. Specific Pollutants to Be Monitored for Individual Sub-Categories

a. Upon becoming subject to this permit, permittees must monitor their effluents for all of the chemicals related to the applicable sub-categories listed in Part II.D at a frequency of twice per month, except for any chemical for which the permittee certified in the NOI that the chemical was "believed absent" (See Part II.A.6.b below). A pollutant is "believed absent" if it was sampled in the influent and measured as non-detect relative to the detection limits in Part II.G. A pollutant may also be "believed absent" if the pollutant has not been sampled but, there are no known sources of the pollutant in the influent wastewater and the pollutant will not be added or generated prior to discharge.

   i. If the discharge falls within only one sub-category (e.g. gasoline remediation sites), the permittee must monitor for the pollutants specified for that sub-category, except for any chemical for which the permittee certified in the NOI that the chemical was "believed absent".

   ii. If the site falls within more than one sub-category, the permittee is required to monitor for all sub-category specified pollutants, except for any chemical for which the permittee certified in the NOI that the chemical was "believed absent".

b. Regardless of certification of chemicals as "believed absent", or not being listed in the monitoring requirements for Categories A through J in Part II.D below, the Director may provide written notice to any operator, requiring monitoring of specific parameters on a case-by-case basis. Any such notice will briefly state the reasons for the monitoring, the

parameters to be monitored, frequency and period of monitoring, sample types, and reporting requirements.

c. In addition to reporting requirements specified in the permit, permittees must notify the Director as soon as they have reason to believe that any activity has occurred which would result in the discharge of any pollutant which is not otherwise limited in the permit.

d. Certain monitoring requirements may be reduced upon demonstration that the pollutants are not present by ongoing sampling and analytical data. This type of change requires written approval by the DEM. Prior to receiving written approval, the permittee must continue to monitor at the frequency specified in the Remediation General Permit. To be eligible for a reduction, the permittee must provide data demonstrating compliance with the applicable parameter limits and a summary of the performance of the treatment system including such information as: flow, operation and maintenance activities, and all available influent and effluent data for a minimum of three (3) consecutive months and ten (10) samples for each parameter for which reduction is being requested.

7. Operations and Maintenance Requirements

a. The permittee shall treat all waters prior to discharge using the treatment system described in the NOI. The permittee may not modify the treatment system without prior approval from the Office of Water Resources.

b. Treatment systems shall be equipped with liquid level and pressure sensors, alarms, automatic shut-offs and other fail-safe features, as appropriate to ensure the integrity of the treatment system. If the system includes granular activated carbon and/or ion exchange, the theoretical time to carbon and/or resin breakthrough of the entire system shall be greater than either ten (10) days beyond the anticipated period of the discharge or sixty (60) days, whichever is less.

c. The DEM reserves the right to require monitoring of influent iron concentrations and may require iron pretreatment if iron fouling reduces the effectiveness of treatment equipment.

d. The treatment system shall be inspected at a minimum of twice per month to assure the system is operating efficiently. As a result of these or any other inspections, appropriate action shall be taken, as soon as practicable, to resolve any problems discovered during an inspection. Records documenting inspections and any actions taken (i.e. changing carbon) shall be retained and made available upon request to the Office of Water Resources and any other Office, as appropriate. If monitoring requirements are reduced per Part II.A.6.d, then the minimum inspection requirements shall be reduced consistent with the reduced monitoring requirements.

e. The permittee shall at all times properly operate and maintain the groundwater recovery/treatment system. Mechanical failure or breakthrough of the treatment system (including exceedance of any permit limits) shall be reported to the Office of Water Resources within one (1) business day of the date the permittee receives the analytical results indicating the permit limit exceedance has occurred.

8. Flow Monitoring - The permittee shall monitor flow with a continuous flow meter, e.g., a meter that records the instantaneous gallons per minute (gpm) and total gallons discharged, to ensure that it does not exceed the design flow of the treatment system, determined by the component of the treatment train with the most restricted flow and as specified on the NOI.

9. Conditions for Discharges of Chemicals and Additives

a. The permittee shall not discharge any chemical or additive, including, but not limited to: algaecides/biocides, antifoams, coagulants, corrosion/scale inhibitors/coatings, disinfectants, flocculants, neutralizing agents, oxidants, oxygen scavengers, pH conditioners, surfactants and bioremedial agents, including microbes, which was not reported in the NOI submitted to DEM for a site.

b. Upon authorization to discharge, chemicals and/or additives which have been disclosed to the DEM may be discharged up to the frequency and level disclosed, provided that such discharge does not violate any permit conditions or Rhode Island water quality standards.

c. The DEM may request additional information to provide authorization to discharge chemicals and/or additives, including but not limited to: Whole Effluent Toxicity testing.

d. To request authorization to discharge chemicals and/or additives in the NOI submitted to DEM for a site the permittee must submit the following information in writing, at a minimum, in accordance with Part II.F.4.d of this general permit:

i. All information required in Part II.F.4.d;

ii. The applicant must certify that the addition of such chemicals:

a) Will not add any pollutants in concentrations which exceed permit effluent limitations;

b) Will not exceed any applicable water quality standard; and

c) Will not add any pollutants that would justify the application of permit conditions that are different from or absent in this permit; or

iii. The applicant must disclose any pollutants different from or absent in this permit that may be present in discharges with the addition of the chemicals and/or additives. Additional monitoring and/or Whole Effluent Toxicity testing may be required.

10. Additional Permit Requirements

The permittee and operators covered by this permit must adhere to proper waste management practices for the facility and must comply with all applicable state and federal regulations applicable to the management of wastes. Please note that the submission of a Notice of Termination (NOT) of the discharge does not relieve the operator or the permittee of any requirement for proper management of solid and hazardous waste generated as a result of complying with the permit.

B. Sampling, Testing, Recordkeeping, and Reporting Requirements

1. Sampling and Testing

a. Samples shall be taken at a location that provides for a representative analysis of the influent and effluent. Influent sampling should be taken at a point prior to any treatment of the water, i.e., raw influent. Effluent samples should be taken just prior to discharge to the receiving water or, if the effluent is commingled with another permitted discharge, prior to such commingling.

b. All samples shall be tested using the analytical methods approved under 40 CFR 136.

2. Initial Treatment System Discharge Startup – The permittee must perform the following additional sampling and analysis of all applicable parameters during the first month of discharge.

a. During the first week of discharge, permittees must take laboratory samples from the effluent once each day on the first, third, and sixth day of the discharge.

b. During the first week, samples must be analyzed in accordance with 40 CFR 136 or by other methods approved by this permit with a 72-hour turnaround time. After the first week, samples may be analyzed with a 7-day turnaround time.

c. If the treatment system is working properly and achieving effluent limits, sampling for the remainder of the first month shall be weekly (i.e., for weeks 2, 3, and 4) and then at a frequency of twice per month thereafter for the term of the permit unless modified in accordance with Part II.A.6.d. After the first week, results for these additional samples shall

be received and reviewed by the operator no more than seven (7) days from the sampling event.

d. During system startup, the operator may also utilize field monitoring and visual observations as appropriate (e.g. portable organic vapor analysis or other tests) to aid in proper system startup.

e. If the operator has any indication of water treatment system malfunction or violation of effluent limitations, the operator must turn the system off and notify the DEM within 24 hours. If the problem has been corrected, discharge may resume upon completion of the correction of the problems and upon DEM approval of the startup. After the discharge is restarted the operator may resume with the regular sampling schedule per Part II.B.2.a-d above.

3. Recordkeeping Requirements

a. On-site Records – The following records must be maintained on-site and/or with the operator to be made available upon inspection and/or request by DEM:

i. A complete copy of this General Permit.

ii. A copy of DEM's authorization to discharge and any subsequent modifications.

iii. Copies of information submitted to DEM and the municipality in which the site is located.

iv. Copies of any correspondence received from the DEM and the municipality in which the site is located regarding permit coverage.

v. Any records of monitoring instrumentation, field monitoring, and visual observations (e.g. portable organic vapor monitoring, turbidity meter, visible sheen observations).

vi. Any records of system operation and maintenance.

vii. Any records of site inspections and employee training.

viii. Any other records as listed in Part III.O of this permit.

b. Retention of Records – Operators must retain the records specified above for a minimum of five (5) years from the date of the sample, measurement, report or notice, whichever applies.

4. Monitoring and Reporting

a. Monitoring

All monitoring required by this permit shall be done in accordance with sampling and analytical testing procedures specified in Federal Regulations (40 CFR Part 136) or by other methods approved by this permit.

b. Submittal of DMRs

The Permittee must report monitoring data to DEM on a quarterly basis, as follows:

i. For discharges lasting twelve (12) months or more, monitoring results obtained during the previous three (3) months shall be summarized and reported to DEM in discharge monitoring reports (DMRs) submitted electronically using the NetDMR reporting tool (https://netdmr.epa.gov). When the permittee submits DMRs using NetDMR, it is not required to submit hard copies of DMRs to DEM.

ii. For discharges lasting less than twelve (12) months, monitoring results obtained during the previous three (3) months shall be summarized and reported on a hard copy Discharge Monitoring Report Form postmarked no later than the 15th day of the month following the completed reporting quarter unless the permittee opts to submit an electronic DMR. A signed copy of this report shall

be submitted to the address as listed in Part II.B.4.d below. Note: If the permittee opts to submit DMRs electronically using NetDMR, it is not required to submit hard copies to DEM.

iii. The first report is due for the calendar quarter during which the facility obtained coverage under this general permit. Testing shall be reported as follows:

Quarter Testing to be Performed	Report Due No Later Than	Results Submitted with DMR for
January 1 – March 31	April 15	March
April 1 – June 30	July 15	June
July 1 – September 30	October 15	September
October 1 - December 31	January 15	December

c. Submittal of Reports as NetDMR Attachments

Unless otherwise specified in this permit, the permittee must submit electronic copies of documents in NetDMR that are directly related to the DMR. These include the following:

- DMR Cover Letters
- Below Detection Limit summary tables
- Summary of hydrostatic test water transfer per Part II.B.7

All other reports should be submitted to DEM as a hard copy via regular US mail (see Part II.B.4.d below).

d. Submittal of Requests and Reports to DEM

The following requests, reports, and information described in this permit shall be submitted as hard copy to the DEM.

i. Transfer of Permit notice

ii. Request for changes in sampling location

iii. Notice of activity which results in the discharge of any pollutant which is not otherwise limited in the permit per Part II.A.6.c

iv. Request for reduction in testing frequency per Part II.A.6.d

v. Written notifications required under Part III

vi. Notice of unauthorized discharges

These reports, information, and requests shall be submitted to DEM by hard copy mail to the following address:

Rhode Island Department of Environmental Management
RIPDES Program
235 Promenade Street
Providence, RI 02908

e. Verbal Reports and Verbal Notifications

Any verbal reports or verbal notifications, if required in Parts I - III of this permit, shall be made to the DEM. This includes verbal reports and notifications required under twenty-four hour reporting as noted below. Verbal reports and verbal notifications shall be made to DEM at (401) 222-4700 or (401) 222-3070 at night.

Twenty-four hour reporting. The permittee shall immediately report any noncompliance which may endanger health or the environment by calling DEM at (401) 222-4700 or (401) 222-3070 at night.

A written submission shall also be provided within five (5) days of the time the permittee becomes

aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

The following information must be reported immediately:

i. Any unanticipated bypass which causes a violation of any effluent limitation in the permit; or

ii. Any upset which causes a violation of any effluent limitation in the permit; or

iii. Any violation of a maximum daily discharge limitation for any of the pollutants specifically listed by the Director in the permit.

The Director may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

5. Extended System Shutdown – Treatment systems and discharges that are interrupted for 120 or greater consecutive days are considered extended shutdowns. Any system restart after this period shall revert to the monitoring and reporting requirements for initial system startup outlined in Part II.B.2 of this permit.

6. Short-Term Discharges – Discharges lasting less than one week (7 days), such as: pump tests and discharge of temporarily containerized waters, excluding hydrostatic testing discharges, which are then terminated and are not planned to be re-started, are considered “short-term” discharges.

a. For all short-term discharges, the permittee must take a minimum of three (3) representative effluent laboratory samples.

b. At least one sample must be taken on the first day of discharge and one on the last day of discharge. Discharges of one day or less must take a minimum of one sample.

c. Samples must be analyzed with a 72-hour turnaround time in accordance with 40 CFR 136 or by other methods allowed by this permit.

d. The reporting requirements of Part II.B.4 of this permit apply.

7. Hydrostatic Testing and Discharge Monitoring and Reporting Requirements – Hydrostatic test waters must meet additional monitoring requirements due to the unique nature of those activities.

a. For New and Existing Tanks and Pipelines:

i. Prior to testing, the interior of the tank(s) and/or piping being tested shall be cleaned and certified to be free of product. There shall be no discharge of tank and/or pipe cleaning residual/debris to surface waters. At a minimum, four (4) representative samples shall be taken of the hydrostatic-test water: one (1) grab sample of the influent and three (3) serial-grab samples of the effluent from the tank. The influent grab sample shall be taken approximately midway through the fill segment of the hydrostatic-test procedure. The three (3) effluent serial-grab samples shall be taken over the duration of the entire discharge segment of the hydrostatic-test procedure. The first serial grab sample shall be taken during the initial phase of the discharge; the second serial grab sample is to be taken midway through the discharge; and the final sample shall be taken at the end of the discharge. These samples should provide adequate characterization of the influent and effluent hydrostatic-test water.

Any hydrostatic test water released from the tank(s), must satisfy all the effluent limitations and conditions of this permit as required in Part II.D.25, 26, or 27 of the permit. A logbook shall be kept on site at all times to document the start and end of each hydrostatic test, the total flow discharged and all monitoring data.

Should any visual inspection or suspicious odor indicate the presence of product while inspecting the effluent from the treatment unit, or if laboratory results from the representative samples of the discharge become available that may indicate an exceedance of the permit effluent limits, the transfer shall be halted immediately, followed by notification to the DEM of the suspended discharge. After the discharge of the hydrostatic test water has been completed, the permittee shall submit a letter/report to the DEM with the Discharge Monitoring Report, summarizing the results of the transfer. This report shall contain: the date(s) of the hydrostatic test water transfer; the volume of hydrostatic test water transferred; and the analytically determined values of the discharge parameters.

ii. Prior to hydrostatic testing, pipes or tanks that will come into contact with the test water must be thoroughly cleaned to remove scale, soil, residues, etc.

iii. Discharge flow should not exceed the flow of receiving streams and rivers or alter the habitat in other water bodies.

iv. All chemical additives must be identified in accordance with the requirements from Part II.A.9.

v. De-watering structures (such as splash blocks, sediment filters, etc.) must be used to dissipate energy and control erosion.

b. Permittees shall follow the reporting requirements of Part II.B.4.

C. Special RIPDES Permit Conditions

Compliance with Municipal Separate Storm Sewer Systems (MS4) Requirements and Storm Water Management Plans (SWMPs)

1. Dischargers covered by the general permit who discharge indirectly into a surface water through a MS4 collection system must comply with local requirements for discharge to that system including any SWMPs developed under the MS4 general permit. The permittee shall keep records of any local permit, monitoring, or other information regarding the compliance with the local requirements along with the compliance records for this permit.

2. If an operator of a facility is covered by the Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (MSGP) and by this general permit, the following additional requirements apply:

   a. Operators who are utilizing a non-municipal storm sewer system at a facility covered by the MSGP must comply with any SWMP developed under that permit.

   b. Where there is separate ownership and/or different operators of the facility/site and the treatment system, the operator of the facility/site covered by this permit must notify the operator of the facility covered by the MSGP.

3. An authorization to discharge under this general permit, where the activity discharges to a municipal or private storm drain owned by another party, does not convey any rights or authorization to connect to that drain.

D. Effluent Limitations and Monitoring Requirements

1. Discharge Category A - Gasoline Remediation Sites Discharging to Class AA receiving waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Ethanol[5]	---	---	2/Month	Grab
Benzene	4.72 ug/l	5 ug/l	2/Month	Grab
Toluene	11.2 ug/l	508 ug/l	2/Month	Grab
Ethylbenzene	28.8 ug/l	1280 ug/l	2/Month	Grab
Total Xylenes (m,p,o)	2.4 ug/l	106.4 ug/l	2/Month	Grab
Total BTEX	---	100 ug/l	2/Month	Grab
Naphthalene	2.08 ug/l	20 ug/l	2/Month	Grab
Ethylene dibromide	---	0.05 ug/l	2/Month	Grab
Methyl-t-Butyl Ether (MTBE)	---	70 ug/l	2/Month	Grab
tert-Butyl Alcohol	---	---	2/Month	Grab
tert-Amyl Methyl Ether	---	---	2/Month	Grab
Total Suspended Solids	---	30000 ug/l	2/Month	Grab
Total Petroleum Hydrocarbons	---	1000 ug/l	2/Month	Grab
Lead (Total Recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Iron (Total Recoverable)	See Part II.E	See Part II.E	2/Month	Grab

2. Discharge Category A - Gasoline Remediation Sites Discharging to Non-Class AA Waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Ethanol[5]	---	---	2/Month	Grab
Benzene	4.72 ug/l	5 ug/l	2/Month	Grab
Toluene	11.2 ug/l	508 ug/l	2/Month	Grab
Ethyl-benzene	28.8 ug/l	1,280 ug/l	2/Month	Grab
Total Xylenes (m,p,o)	2.4 ug/l	106.4 ug/l	2/Month	Grab
Total BTEX	---	100 ug/l	2/Month	Grab
Naphthalene	2.08 ug/l	20 ug/l	2/Month	Grab
Ethylene dibromide	---	0.05 ug/l	2/Month	Grab
Methyl-t-Butyl Ether	---	70 ug/l	2/Month	Grab
tert-Butyl Alcohol	---	---	2/Month	Grab
tert-Amyl Methyl Ether	---	---	2/Month	Grab
Total Suspended Solids	---	30,000 ug/l	2/Month	Grab
Total Petroleum Hydrocarbons	---	1,000 ug/l	2/Month	Grab
Lead (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Iron (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

3. Discharge Category A - Gasoline Remediation Sites Discharging to SA or SB Waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Ethanol[5]	---	---	2/Month	Grab
Benzene	5 ug/l	5 ug/l	2/Month	Grab
Toluene	12,000 ug/l	---	2/Month	Grab
Ethyl-benzene	1680 ug/l	---	2/Month	Grab
Total Xylenes (m,p,o)	---	---	2/Month	Grab
Total BTEX	100 ug/l	100 ug/l	2/Month	Grab
Naphthalene	---	20 ug/l	2/Month	Grab
Ethylene dibromide	---	0.05 ug/l	2/Month	Grab
Methyl-t-Butyl Ether	---	70 ug/l	2/Month	Grab
tert-Butyl Alcohol	---	---	2/Month	Grab
tert-Amyl Methyl Ether	---	---	2/Month	Grab
Total Suspended Solids	---	30,000 ug/l	2/Month	Grab
Total Petroleum Hydrocarbons	---	1,000 ug/l	2/Month	Grab
Lead (total recoverable)	6.81 ug/l	160 ug/l	2/Month	Grab
Iron (total recoverable)	---	1,000 ug/l	2/Month	Grab

4. Discharge Category B - Oil Remediation Sites Discharging to Class AA receiving waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Total Suspended Solids	---	30,000 ug/l	2/Month	Grab
Acetone	---	7970 ug/l	2/Month	Grab
Total Petroleum Hydrocarbons	---	1000 ug/l	2/Month	Grab
Total Group I Polycyclic Aromatic Hydrocarbons	0.03 ug/l[4]	1 ug/l	2/Month	Grab
Benzo (a) Anthracene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (a) Pyrene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (b) Fluoranthene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (k) Fluoranthene	---	0.0038 ug/l[4]	2/Month	Grab
Chrysene	---	0.0038 ug/l[4]	2/Month	Grab
Dibenzo (a,h) anthracene	---	0.0038 ug/l[4]	2/Month	Grab
Indeno (1,2,3-cd) Pyrene	---	0.0038 ug/l[4]	2/Month	Grab
Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	0.03 ug/l[4]	100 ug/l	2/Month	Grab
Acenaphthene	1.52 ug/l	1.9 ug/l	2/Month	Grab
Acenaphthylene	---	---	2/Month	Grab
Anthracene	6640 ug/l	---	2/Month	Grab
Benzo (ghi) Perylene	---	---	2/Month	Grab
Fluoranthene	3.52 ug/l	159.2 ug/l	2/Month	Grab
Fluorene	880 ug/l	---	2/Month	Grab
Naphthalene	2.08 ug/l	20 ug/l	2/Month	Grab
Phenanthrene	---	---	2/Month	Grab
Pyrene	664 ug/l	---	2/Month	Grab
Benzene	4.72 ug/l	5 ug/l	2/Month	Grab
Toluene	11.2 ug/l	508 ug/l	2/Month	Grab
Ethylbenzene	28.8 ug/l	1280 ug/l	2/Month	Grab
(m,p,o) Xylenes	2.4 ug/l	106.4 ug/l	2/Month	Grab
Methyl-t-Butyl Ether (MTBE)	---	70 ug/l	2/Month	Grab
Total BTEX	---	100 ug/l	2/Month	Grab
Nickel (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium III (trivalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

Chromium VI (hexavalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Zinc (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Iron (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

5. Discharge Category B - Oil Remediation Sites Discharging to Non-Class AA receiving waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Total Suspended Solids	---	30,000 ug/l	2/Month	Grab
Acetone	---	7,970 ug/l	2/Month	Grab
Total Petroleum Hydrocarbons	---	1,000 ug/l	2/Month	Grab
Total Group I Polycyclic Aromatic Hydrocarbons	0.14 ug/l[4]	1 ug/l	2/Month	Grab
Benzo (a) Anthracene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (a) Pyrene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (b) Fluoranthene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (k) Fluoranthene	---	0.0038 ug/l[4]	2/Month	Grab
Chrysene	---	0.0038 ug/l[4]	2/Month	Grab
Dibenzo (a,h) anthracene	---	0.0038 ug/l[4]	2/Month	Grab
Indeno (1,2,3-cd) Pyrene	---	0.0038 ug/l[4]	2/Month	Grab
Total Group II Polycyclic Aromatic Hydrocarbons	0.14 ug/l[4]	100 ug/l	2/Month	Grab
Acenaphthene	1.52 ug/l	1.9 ug/l	2/Month	Grab
Acenaphthylene	---	---	2/Month	Grab
Anthracene	32,000 ug/l	---	2/Month	Grab
Benzo (ghi) Perylene	---	---	2/Month	Grab
Fluoranthene	3.52 ug/l	159.2 ug/l	2/Month	Grab
Fluorene	4,240 ug/l	---	2/Month	Grab
Naphthalene	2.08 ug/l	20 ug/l	2/Month	Grab
Phenanthrene	---	---	2/Month	Grab
Pyrene	3200 ug/l	---	2/Month	Grab
Benzene	4.72 ug/l	5 ug/l	2/Month	Grab
Toluene	11.2 ug/l	508 ug/l	2/Month	Grab
Ethylbenzene	28.8 ug/l	1,280 ug/l	2/Month	Grab
Total Xylenes (m,p,o)	2.4 ug/l	106.4 ug/l	2/Month	Grab
Total BTEX	---	100 ug/l	2/Month	Grab
Methyl-t-Butyl Ether	---	70 ug/l	2/Month	Grab
Nickel (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium III (trivalent, total	See Part II.E	See Part II.E	2/Month	Grab

recoverable)				
Chromium VI (hexavalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Zinc (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Iron (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

6. Discharge Category B - Oil Remediation Sites Discharging to Class SA or SB receiving waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Total Suspended Solids	---	30,000 ug/l	2/Month	Grab
Acetone	---	7970 ug/l	2/Month	Grab
Total Petroleum Hydrocarbons	---	1000 ug/l	2/Month	Grab
Total Group I Polycyclic Aromatic Hydrocarbons	0.14 ug/l[4]	1 ug/l	2/Month	Grab
Benzo (a) Anthracene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Benzo (a) Pyrene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Benzo (b) Fluoranthene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Benzo (k)Fluoranthene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Chrysene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Dibenzo (a,h) anthracene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Indeno (1,2,3-cd) Pyrene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Total Group II Polycyclic Aromatic Hydrocarbons	0.14 ug/l[4]	100 ug/l	2/Month	Grab
Acenaphthene	1.9 ug/l	1.9 ug/l	2/Month	Grab
Acenaphthylene	---	---	2/Month	Grab
Anthracene	32000 ug/l	---	2/Month	Grab
Benzo (ghi) Perylene	---	---	2/Month	Grab
Fluoranthene	112 ug/l	---	2/Month	Grab
Fluorene	4240 ug/l	---	2/Month	Grab
Naphthalene	---	20 ug/l	2/Month	Grab
Phenanthrene	---	---	2/Month	Grab
Pyrene	3200 ug/l	---	2/Month	Grab
Benzene	5 ug/l	5 ug/l	2/Month	Grab
Toluene	12000 ug/l	---	2/Month	Grab
Ethylbenzene	1680 ug/l	---	2/Month	Grab
Total Xylenes (m,p,o)	---	---	2/Month	Grab
Total BTEX	100 ug/l	100 ug/l	2/Month	Grab
Methyl-t-Butyl Ether	---	70 ug/l	2/Month	Grab
Nickel (total recoverable)	6.62 ug/l	59.79 ug/l	2/Month	Grab
Chromium III (trivalent, total	100 ug/l	323 ug/l	2/Month	Grab

recoverable)				
Chromium VI (hexavalent, total recoverable)	40.28 ug/l	323 ug/l	2/Month	Grab
Zinc (total recoverable)	68.5 ug/l	76.11 ug/l	2/Month	Grab
Iron (total recoverable)	---	1000 ug/l	2/Month	Grab

7. Discharge Category C - Petroleum Sites Containing Other Pollutants Discharging to Class AA receiving waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Ammonia	---	---	2/Month	Grab
Ethanol[5]	---	---	2/Month	Grab
Total Suspended Solids	---	30,000 ug/l	2/Month	Grab
Total Residual Chlorine	11 ug/l	19 ug/l	2/Month	Grab
Total Petroleum Hydrocarbons	---	1,000 ug/l	2/Month	Grab
Cyanide	4.16 ug/l[4]	17.6 ug/l	2/Month	Grab
Benzene	4.72 ug/l	5 ug/l	2/Month	Grab
Toluene	11.2 ug/l	508 ug/l	2/Month	Grab
Ethylbenzene	28.8 ug/l	1,280 ug/l	2/Month	Grab
Total Xylenes (m,p,o)	2.4 ug/l	106.4 ug/l	2/Month	Grab
Total BTEX	---	100 ug/l	2/Month	Grab
Ethylene dibromide	---	0.05 ug/l	2/Month	Grab
Methyl-t-Butyl Ether	---	70 ug/l	2/Month	Grab
tert-Amyl Methyl Ether	---	---	2/Month	Grab
Carbon Tetrachloride	1.84 ug/l	4.4 ug/l	2/Month	Grab
1,4 Dichlorobenzene	0.96 ug/l	5 ug/l	2/Month	Grab
1,2 Dichlorobenzene	1.44 ug/l	63.2 ug/l	2/Month	Grab
1,3 Dichlorobenzene	6.96 ug/l	312 ug/l	2/Month	Grab
Total Dichlorobenzene	---	763 ug/l	2/Month	Grab
1,1 Dichloroethane	---	70 ug/l	2/Month	Grab
1,2 Dichloroethane	3.04 ug/l	5 ug/l	2/Month	Grab
1,1 Dichloroethylene	3.2 ug/l	3.2 ug/l	2/Month	Grab
cis-1,2 Dichloroethylene	---	70 ug/l	2/Month	Grab
Dichloromethane	---	4.6 ug/l	2/Month	Grab
Tetrachloroethylene	4.24 ug/l	5 ug/l	2/Month	Grab
1,1,1 Trichloroethane	---	200 ug/l	2/Month	Grab
1,1,2 Trichloroethane	4.72 ug/l	5 ug/l	2/Month	Grab
Trichloroethylene	5 ug/l	5 ug/l	2/Month	Grab
Vinyl Chloride	0.02 ug/l[4]	2 ug/l	2/Month	Grab

Acetone	---	7,970 ug/l	2/Month	Grab
1,4 Dioxane	---	200 ug/l	2/Month	Grab
Total Phenols	4.48 ug/l	200.8 ug/l	2/Month	Grab
Pentachlorophenol (PCP)	0.04 ug/l[4]	0.05 ug/l[4]	2/Month	Grab
Total Phthalates	3 ug/l	190 ug/l	2/Month	Grab
Bis (2-Ethylhexyl) Phthalate	6 ug/l	6 ug/l	2/Month	Grab
Total Group I Polycyclic Aromatic Hydrocarbons	0.03 ug/l[4]	1 ug/l	2/Month	Grab
Benzo (a) Anthracene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (a) Pyrene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (b) Fluoranthene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (k) Fluoranthene	---	0.0038 ug/l[4]	2/Month	Grab
Chrysene	---	0.0038 ug/l[4]	2/Month	Grab
Dibenzo (a,h) anthracene	---	0.0038 ug/l[4]	2/Month	Grab
Indeno (1,2,3-cd) Pyrene	---	0.0038 ug/l[4]	2/Month	Grab
Total Group II Polycyclic Aromatic Hydrocarbons	0.03 ug/l[4]	100 ug/l	2/Month	Grab
Acenaphthene	1.52 ug/l	1.9 ug/l	2/Month	Grab
Acenaphthylene	---	---	2/Month	Grab
Anthracene	6,640 ug/l	---	2/Month	Grab
Benzo (ghi) Perylene	---	---	2/Month	Grab
Fluoranthene	3.52 ug/l	159.2 ug/l	2/Month	Grab
Fluorene	880 ug/l	---	2/Month	Grab
Naphthalene	2.08 ug/l	20 ug/l	2/Month	Grab
Phenanthrene	---	---	2/Month	Grab
Pyrene	664 ug/l	---	2/Month	Grab
Total Polychlorinated Biphenyls (PCBs)	0.000064 ug/l[4]	0.000064 ug/l[4]	2/Month	Grab
Antimony (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Arsenic (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Cadmium (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium III (trivalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium VI (hexavalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Copper (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Lead (total Recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Mercury (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Nickel (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Selenium (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

Silver (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Zinc (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Iron (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

8. Discharge Category C - Petroleum Sites Containing Other Pollutants Discharging to Non-Class AA receiving waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Ammonia	---	---	2/Month	Grab
Ethanol[5]	---	---	2/Month	Grab
Total Suspended Solids	---	30,000 ug/l	2/Month	Grab
Total Residual Chlorine	11 ug/l	19 ug/l	2/Month	Grab
Total Petroleum Hydrocarbons	---	1,000 ug/l	2/Month	Grab
Cyanide	4.16 ug/l[4]	17.6 ug/l	2/Month	Grab
Benzene	4.72 ug/l	5 ug/l	2/Month	Grab
Toluene	11.2 ug/l	508 ug/l	2/Month	Grab
Ethylbenzene	28.8 ug/l	1,280 ug/l	2/Month	Grab
Total Xylenes (m,p,o)	2.4 ug/l	106.4 ug/l	2/Month	Grab
Total BTEX	---	100 ug/l	2/Month	Grab
Ethylene dibromide	---	0.05 ug/l	2/Month	Grab
Methyl-t-Butyl Ether	---	70 ug/l	2/Month	Grab
tert-Amyl Methyl Ether	---	---	2/Month	Grab
Carbon Tetrachloride	4.4 ug/l	4.4 ug/l	2/Month	Grab
1,4 Dichlorobenzene	0.96 ug/l	5 ug/l	2/Month	Grab
1,2 Dichlorobenzene	1.44 ug/l	63.2 ug/l	2/Month	Grab
1,3 Dichlorobenzene	6.96 ug/l	312 ug/l	2/Month	Grab
Total Dichlorobenzene	---	763 ug/l	2/Month	Grab
1,1 Dichloroethane	---	70 ug/l	2/Month	Grab
1,2 Dichloroethane	5 ug/l	5 ug/l	2/Month	Grab
1,1 Dichloroethylene	3.2 ug/l	3.2 ug/l	2/Month	Grab
cis-1,2 Dichloroethylene	---	70 ug/l	2/Month	Grab
Dichloromethane	---	4.6 ug/l	2/Month	Grab
Tetrachloroethylene	4.24 ug/l	5 ug/l	2/Month	Grab
1,1,1 Trichloroethane	---	200 ug/l	2/Month	Grab
1,1,2 Trichloroethane	5 ug/l	5 ug/l	2/Month	Grab
Trichloroethylene	5 ug/l	5 ug/l	2/Month	Grab
Vinyl Chloride	1.92 ug/l	2 ug/l	2/Month	Grab

Acetone	---	7,970 ug/l	2/Month	Grab
1,4 Dioxane	---	200 ug/l	2/Month	Grab
Total Phenols	4.48 ug/l	200.8 ug/l	2/Month	Grab
Pentachlorophenol	0.04 ug/l[4]	0.05 ug/l[4]	2/Month	Grab
Total Phthalates	3 ug/l	190 ug/l	2/Month	Grab
Bis (2-Ethylhexyl) Phthalate	6 ug/l	6 ug/l	2/Month	Grab
Total Group I Polycyclic Aromatic Hydrocarbons	0.14 ug/l[4]	1 ug/l	2/Month	Grab
Benzo (a) Anthracene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (a) Pyrene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (b) Fluoranthene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (k) Fluoranthene	---	0.0038 ug/l[4]	2/Month	Grab
Chrysene	---	0.0038 ug/l[4]	2/Month	Grab
Dibenzo (a,h) anthracene	---	0.0038 ug/l[4]	2/Month	Grab
Indeno (1,2,3-cd) Pyrene	---	0.0038 ug/l[4]	2/Month	Grab
Total Group II Polycyclic Aromatic Hydrocarbons	0.14 ug/l[4]	100 ug/l	2/Month	Grab
Acenaphthene	1.52 ug/l	1.9 ug/l	2/Month	Grab
Acenaphthylene	---	---	2/Month	Grab
Anthracene	32,000 ug/l	---	2/Month	Grab
Benzo (ghi) Perylene	---	---	2/Month	Grab
Fluoranthene	3.52 ug/l	159.2 ug/l	2/Month	Grab
Fluorene	4,240 ug/l	---	2/Month	Grab
Naphthalene	2.08 ug/l	20 ug/l	2/Month	Grab
Phenanthrene	---	---	2/Month	Grab
Pyrene	3,200 ug/l	---	2/Month	Grab
Total Polychlorinated Biphenyls	0.000064 ug/l[4]	0.000064 ug/l[4]	2/Month	Grab
Antimony (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Arsenic (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Cadmium (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium III (trivalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium VI (hexavalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Copper (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Lead (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Mercury (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Nickel (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Selenium (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

Silver (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Zinc (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Iron (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

9. Category C - Petroleum Sites Containing Other Pollutants Discharging to Class SA or SB receiving waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Ammonia	---	---	2/Month	Grab
Ethanol[5]	---	---	2/Month	Grab
Total Suspended Solids	---	30,000 ug/l	2/Month	Grab
Total Residual Chlorine	7.5 ug/l[4]	13 ug/l	2/Month	Grab
Total Petroleum Hydrocarbons	---	1,000 ug/l	2/Month	Grab
Cyanide	0.8 ug/l[4]	0.8 ug/l[4]	2/Month	Grab
Benzene	5 ug/l	5 ug/l	2/Month	Grab
Toluene	12,000 ug/l	---	2/Month	Grab
Ethylbenzene	1,680 ug/l	---	2/Month	Grab
Total Xylenes (m,p,o)	---	---	2/Month	Grab
Total BTEX	100 ug/l	100 ug/l	2/Month	Grab
Ethylene dibromide	---	0.05 ug/l	2/Month	Grab
Methyl-t-Butyl Ether	---	70 ug/l	2/Month	Grab
tert-Amyl Methyl Ether	---	---	2/Month	Grab
Carbon Tetrachloride	4.4 ug/l	4.4 ug/l	2/Month	Grab
1,4 Dichlorobenzene	5 ug/l	5 ug/l	2/Month	Grab
1,2 Dichlorobenzene	600 ug/l	600 ug/l	2/Month	Grab
1,3 Dichlorobenzene	320 ug/l	320 ug/l	2/Month	Grab
Total Dichlorobenzene	---	763 ug/l	2/Month	Grab
1,1 Dichloroethane	---	70 ug/l	2/Month	Grab
1,2 Dichloroethane	5 ug/l	5 ug/l	2/Month	Grab
1,1 Dichloroethylene	3.2 ug/l	3.2 ug/l	2/Month	Grab
cis, 1,2 Dichloroethylene	---	70 ug/l	2/Month	Grab
Dichloromethane	---	4.6 ug/l	2/Month	Grab
Tetrachloroethylene	5 ug/l	5 ug/l	2/Month	Grab
1,1,1 Trichloroethane	---	200 ug/l	2/Month	Grab
1,1,2 Trichloroethane	5 ug/l	5 ug/l	2/Month	Grab
Trichloroethylene	5 ug/l	5 ug/l	2/Month	Grab
Vinyl Chloride	1.92 ug/l	2 ug/l	2/Month	Grab

Acetone	---	7,970 ug/l	2/Month	Grab
1,4 Dioxane	---	200 ug/l	2/Month	Grab
Total Phenols	300 ug/l	300 ug/l	2/Month	Grab
Pentachlorophenol	1 ug/l[4]	1 ug/l[4]	2/Month	Grab
Total Phthalates	3 ug/l	190 ug/l	2/Month	Grab
Bis (2-Ethylhexyl) Phthalate	6 ug/l	6 ug/l	2/Month	Grab
Total Group I Polycyclic Aromatic Hydrocarbons	0.14 ug/l[4]	1 ug/l	2/Month	Grab
Benzo (a) Anthracene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Benzo (a) Pyrene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Benzo (b) Fluoranthene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Benzo (k) Fluoranthene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Chrysene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Dibenzo (a,h) anthracene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Indeno (1,2,3-cd) Pyrene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Total Group II Polycyclic Aromatic Hydrocarbons	0.14 ug/l[4]	100 ug/l	2/Month	Grab
Acenaphthene	1.9 ug/l	1.9 ug/l	2/Month	Grab
Acenaphthylene	---	---	2/Month	Grab
Anthracene	32,000 ug/l	---	2/Month	Grab
Benzo (ghi) Perylene	---	---	2/Month	Grab
Fluoranthene	112 ug/l	---	2/Month	Grab
Fluorene	4,240 ug/l	---	2/Month	Grab
Naphthalene	---	20 ug/l	2/Month	Grab
Phenanthrene	---	---	2/Month	Grab
Pyrene	3,200 ug/l	---	2/Month	Grab
Total Polychlorinated Biphenyls (PCBs)	0.000064 ug/l[4]	0.000064 ug/l[4]	2/Month	Grab
Antimony (total recoverable)	5.6 ug/l	5.6 ug/l	2/Month	Grab
Arsenic (total recoverable)	1.12 ug/l	55.2 ug/l	2/Month	Grab
Cadmium (total recoverable)	7.08 ug/l	10.2 ug/l	2/Month	Grab
Chromium III (trivalent, total recoverable)	100 ug/l	323 ug/l	2/Month	Grab
Chromium VI (hexavalent, total recoverable)	40.28 ug/l	323 ug/l	2/Month	Grab
Copper (total recoverable)	2.98 ug/l	4.62 ug/l	2/Month	Grab
Lead (Total Recoverable)	6.81 ug/l	160 ug/l	2/Month	Grab
Mercury (total recoverable)	0.12 ug/l	1.69 ug/l	2/Month	Grab
Nickel (total recoverable)	6.62 ug/l	59.79 ug/l	2/Month	Grab
Selenium (total recoverable)	56.91 ug/l	232.46 ug/l	2/Month	Grab

Silver (total recoverable)	1.78 ug/l	1.78 ug/l	2/Month	Grab
Zinc (total recoverable)	68.5 ug/l	76.11 ug/l	2/Month	Grab
Iron (total recoverable)	---	1,000 ug/l	2/Month	Grab

10. Discharge Category D – Sites Containing Volatile Organic Compound Only Discharging to Class AA receiving waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Total Suspended Solids	---	30,000 ug/l	2/Month	Grab
Carbon Tetrachloride	1.84 ug/l	4.4 ug/l	2/Month	Grab
1,2 Dichlorobenzene	1.44 ug/l	63.2 ug/l	2/Month	Grab
1,3 Dichlorobenzene	6.96 ug/l	312 ug/l	2/Month	Grab
1,4 Dichlorobenzene	0.96 ug/l	5 ug/l	2/Month	Grab
Total Dichlorobenzene	---	763 ug/l	2/Month	Grab
1,1 Dichloroethane	---	70 ug/l	2/Month	Grab
1,2 Dichloroethane	3.04 ug/l	5 ug/l	2/Month	Grab
1,1 Dichloroethylene (DCE)	3.2 ug/l	3.2 ug/l	2/Month	Grab
cis 1,2 Dichloroethylene	---	70 ug/l	2/Month	Grab
Methylene Chloride	4.6 ug/l	4.6 ug/l	2/Month	Grab
Tetrachloroethylene	4.24 ug/l	5 ug/l	2/Month	Grab
1,1,1 Trichloroethane	---	200 ug/l	2/Month	Grab
1,1,2 Trichloroethane	4.72 ug/l	5 ug/l	2/Month	Grab
Trichloroethylene	5 ug/l	5 ug/l	2/Month	Grab
Vinyl Chloride	0.02 ug/l[4]	2 ug/l	2/Month	Grab
Total Petroleum Hydrocarbons	---	1000 ug/l	2/Month	Grab
Total Phenols	4.48 ug/l	200.8 ug/l	2/Month	Grab
Pentachlorophenol	0.04 ug/l[4]	0.05 ug/l[4]	2/Month	Grab
Total Phthalates	3 ug/l	190 ug/l	2/Month	Grab
Bis (2-Ethylhexyl) Phthalate	6 ug/l	6 ug/l	2/Month	Grab
Total Polychlorinated Biphenyls (PCBs)	0.000064 ug/l[4]	0.000064 ug/l[4]	2/Month	Grab
Acetone	---	7970 ug/l	2/Month	Grab
1,4 Dioxane	---	200 ug/l	2/Month	Grab
Total BTEX	---	100 ug/l	2/Month	Grab
Iron (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

11. Discharge Category D – Sites Containing Volatile Organic Compound Only Discharging to Non-Class AA receiving waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Total Suspended Solids	---	30,000 ug/l	2/Month	Grab
Carbon Tetrachloride	4.4 ug/l	4.4 ug/l	2/Month	Grab
1,2 Dichlorobenzene	1.44 ug/l	63.2 ug/l	2/Month	Grab
1,3 Dichlorobenzene	6.96 ug/l	312 ug/l	2/Month	Grab
1,4 Dichlorobenzene	0.96 ug/l	5 ug/l	2/Month	Grab
Total Dichlorobenzene	---	763 ug/l	2/Month	Grab
1,1 Dichloroethane	---	70 ug/l	2/Month	Grab
1,2 Dichloroethane	5 ug/l	5 ug/l	2/Month	Grab
1,1 Dichloroethylene	3.2 ug/l	3.2 ug/l	2/Month	Grab
cis- 1,2 Dichloroethylene	---	70 ug/l	2/Month	Grab
Methylene Chloride	4.6 ug/l	4.6 ug/l	2/Month	Grab
Tetrachloroethylene	4.24 ug/l	5 ug/l	2/Month	Grab
1,1,1 Trichloroethane	---	200 ug/l	2/Month	Grab
1,1,2 Trichloroethane	5 ug/l	5 ug/l	2/Month	Grab
Trichloroethylene	5 ug/l	5 ug/l	2/Month	Grab
Vinyl Chloride	1.92 ug/l	2 ug/l	2/Month	Grab
Total Petroleum Hydrocarbons	---	1,000 ug/l	2/Month	Grab
Total Phenols	4.48 ug/l	200.8 ug/l	2/Month	Grab
Pentachlorophenol	0.04 ug/l[4]	0.05 ug/l[4]	2/Month	Grab
Total Phthalates	3 ug/l	190 ug/l	2/Month	Grab
Bis (2-Ethylhexyl) Phthalate	6 ug/l	6 ug/l	2/Month	Grab
Total Polychlorinated Biphenyls (PCBs)	0.000064 ug/l[4]	0.000064 ug/l[4]	2/Month	Grab
Acetone	---	7,970 ug/l	2/Month	Grab
1,4 Dioxane	---	200 ug/l	2/Month	Grab
Total BTEX	---	100 ug/l	2/Month	Grab
Iron (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

12. Discharge Category D – Sites Containing Volatile Organic Compound Only Discharging to Class SA or SB receiving waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Total Suspended Solids	---	30,000 ug/l	2/Month	Grab
Carbon Tetrachloride	4.4 ug/l	4.4 ug/l	2/Month	Grab
1,2 Dichlorobenzene	600 ug/l	600 ug/l	2/Month	Grab
1,3 Dichlorobenzene	320 ug/l	320 ug/l	2/Month	Grab
1,4 Dichlorobenzene	5 ug/l	5 ug/l	2/Month	Grab
Total Dichlorobenzene	---	763 ug/l	2/Month	Grab
1,1 Dichloroethane	---	70 ug/l	2/Month	Grab
1,2 Dichloroethane	5 ug/l	5 ug/l	2/Month	Grab
1,1 Dichloroethylene	3.2 ug/l	3.2 ug/l	2/Month	Grab
cis - 1,2 Dichloroethylene	---	70 ug/l	2/Month	Grab
Methylene Chloride	4.6 ug/l	4.6 ug/l	2/Month	Grab
Tetrachloroethylene	5 ug/l	5 ug/l	2/Month	Grab
1,1,1 Trichloroethane	---	200 ug/l	2/Month	Grab
1,1,2 Trichloroethane	5 ug/l	5 ug/l	2/Month	Grab
Trichloroethylene	5 ug/l	5 ug/l	2/Month	Grab
Vinyl Chloride	1.92 ug/l	2 ug/l	2/Month	Grab
Total Petroleum Hydrocarbons	---	1,000 ug/l	2/Month	Grab
Total Phenols	300 ug/l	300 ug/l	2/Month	Grab
Pentachlorophenol	1 ug/l[4]	1 ug/l[4]	2/Month	Grab
Total Phthalates	3 ug/l	190 ug/l	2/Month	Grab
Bis (2-Ethylhexyl) Phthalate	6 ug/l	6 ug/l	2/Month	Grab
Total Polychlorinated Biphenyls (PCBs)	0.000064 ug/l[4]	0.000064 ug/l[4]	2/Month	Grab
Acetone	---	7,970 ug/l	2/Month	Grab
1,4 Dioxane	---	200 ug/l	2/Month	Grab
Total BTEX	100 ug/l	100 ug/l	2/Month	Grab
Iron (total recoverable)	---	1,000 ug/l	2/Month	Grab

13. Discharge Category E – Sites Containing Volatile Organic Compounds and Other Contaminants Discharging to Class AA receiving waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Ammonia	---	---	2/Month	Grab
Ethanol[5]	---	---	2/Month	Grab
Total Suspended Solids	---	30,000 ug/l	2/Month	Grab
Total Residual Chlorine	11 ug/l	19 ug/l	2/Month	Grab
Total Petroleum Hydrocarbons	---	1,000 ug/l	2/Month	Grab
Cyanide	4.16 ug/l[4]	17.6 ug/l	2/Month	Grab
Benzene	4.72 ug/l	5 ug/l	2/Month	Grab
Toluene	11.2 ug/l	508 ug/l	2/Month	Grab
Ethylbenzene	28.8 ug/l	1,280 ug/l	2/Month	Grab
(m,p,o) Xylenes	2.4 ug/l	106.4 ug/l	2/Month	Grab
Total BTEX	---	100 ug/l	2/Month	Grab
Ethylene dibromide	---	0.05 ug/l	2/Month	Grab
Methyl-t-Butyl Ether	---	70 ug/l	2/Month	Grab
tert-Amyl Methyl Ether	---	---	2/Month	Grab
Carbon Tetrachloride	1.84 ug/l	4.4 ug/l	2/Month	Grab
1,4 Dichlorobenzene	0.96 ug/l	5 ug/l	2/Month	Grab
1,2 Dichlorobenzene	1.44 ug/l	63.2 ug/l	2/Month	Grab
1,3 Dichlorobenzene	6.96 ug/l	312 ug/l	2/Month	Grab
Total Dichlorobenzene	---	763 ug/l	2/Month	Grab
1,1 Dichloroethane	---	70 ug/l	2/Month	Grab
1,2 Dichloroethane	3.04 ug/l	5 ug/l	2/Month	Grab
1,1 Dichloroethylene	3.2 ug/l	3.2 ug/l	2/Month	Grab
cis - 1,2 Dichloroethylene	---	70 ug/l	2/Month	Grab
Dichloromethane	---	4.6 ug/l	2/Month	Grab
Tetrachloroethylene	4.24 ug/l	5 ug/l	2/Month	Grab
1,1,1 Trichloroethane	---	200 ug/l	2/Month	Grab
1,1,2 Trichloroethane	4.72 ug/l	5 ug/l	2/Month	Grab
Trichloroethylene	5 ug/l	5 ug/l	2/Month	Grab
Vinyl Chloride	0.02 ug/l[4]	2 ug/l	2/Month	Grab

Acetone	---	7,970 ug/l	2/Month	Grab
1,4 Dioxane	---	200 ug/l	2/Month	Grab
Total Phenols	4.48 ug/l	200.8 ug/l	2/Month	Grab
Pentachlorophenol	0.04 ug/l[4]	0.05 ug/l[4]	2/Month	Grab
Total Phthalates	3 ug/l	190 ug/l	2/Month	Grab
Bis (2-Ethylhexyl) Phthalate	6 ug/l	6 ug/l	2/Month	Grab
Total Group I Polycyclic Aromatic Hydrocarbons	0.03 ug/l[4]	1 ug/l	2/Month	Grab
Benzo (a) Anthracene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (a) Pyrene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (b) Fluoranthene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (k) Fluoranthene	---	0.0038 ug/l[4]	2/Month	Grab
Chrysene	---	0.0038 ug/l[4]	2/Month	Grab
Dibenzo (a,h) anthracene	---	0.0038 ug/l[4]	2/Month	Grab
Indeno (1,2,3-cd) Pyrene	---	0.0038 ug/l[4]	2/Month	Grab
Total Group II Polycyclic Aromatic Hydrocarbons	0.03 ug/l[4]	100 ug/l	2/Month	Grab
Acenaphthene	1.52 ug/l	1.9 ug/l	2/Month	Grab
Acenaphthylene	---	---	2/Month	Grab
Anthracene	6,640 ug/l	---	2/Month	Grab
Benzo (ghi) Perylene	---	---	2/Month	Grab
Fluoranthene	3.52 ug/l	159.2 ug/l	2/Month	Grab
Fluorene	880 ug/l	---	2/Month	Grab
Naphthalene	2.08 ug/l	20 ug/l	2/Month	Grab
Phenanthrene	---	---	2/Month	Grab
Pyrene	664 ug/l	---	2/Month	Grab
Total Polychlorinated Biphenyls	0.000064 ug/l[4]	0.000064 ug/l[4]	2/Month	Grab
Antimony (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Arsenic (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Cadmium (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium III (trivalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium VI (hexavalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Copper (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Lead (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Mercury (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Nickel (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Selenium (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

Silver (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Zinc (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Iron (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

14. Discharge Category E – Sites Containing Volatile Organic Compounds and Other Contaminants Discharging to Non-Class AA receiving waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Ammonia	---	---	2/Month	Grab
Ethanol[5]	---	---	2/Month	Grab
Total Suspended Solids	---	30,000 ug/l	2/Month	Grab
Total Residual Chlorine	11 ug/l	19 ug/l	2/Month	Grab
Total Petroleum Hydrocarbons	---	1,000 ug/l	2/Month	Grab
Cyanide	4.16 ug/l[4]	17.6 ug/l	2/Month	Grab
Benzene	4.72 ug/l	5 ug/l	2/Month	Grab
Toluene	11.2 ug/l	508 ug/l	2/Month	Grab
Ethylbenzene	28.8 ug/l	1,280 ug/l	2/Month	Grab
Total Xylenes (m,p,o)	2.4 ug/l	106.4 ug/l	2/Month	Grab
Total BTEX	---	100 ug/l	2/Month	Grab
Ethylene dibromide	---	0.05 ug/l	2/Month	Grab
Methyl-t-Butyl Ether	---	70 ug/l	2/Month	Grab
tert-Amyl Methyl Ether	---	---	2/Month	Grab
Carbon Tetrachloride	4.4 ug/l	4.4 ug/l	2/Month	Grab
1,4 Dichlorobenzene	0.96 ug/l	5 ug/l	2/Month	Grab
1,2 Dichlorobenzene	1.44 ug/l	63.2 ug/l	2/Month	Grab
1,3 Dichlorobenzene	6.96 ug/l	312 ug/l	2/Month	Grab
Total Dichlorobenzene	---	763 ug/l	2/Month	Grab
1,1 Dichloroethane	---	70 ug/l	2/Month	Grab
1,2 Dichloroethane	5 ug/l	5 ug/l	2/Month	Grab
1,1 Dichloroethylene	3.2 ug/l	3.2 ug/l	2/Month	Grab
cis-1,2 Dichloroethylene	---	70 ug/l	2/Month	Grab
Dichloromethane	---	4.6 ug/l	2/Month	Grab
Tetrachloroethylene	4.24 ug/l	5 ug/l	2/Month	Grab
1,1,1 Trichloroethane	---	200 ug/l	2/Month	Grab
1,1,2 Trichloroethane	5 ug/l	5 ug/l	2/Month	Grab
Trichloroethylene	5 ug/l	5 ug/l	2/Month	Grab
Vinyl Chloride	1.92 ug/l	2 ug/l	2/Month	Grab

Acetone	---	7,970 ug/l	2/Month	Grab
1,4 Dioxane	---	200 ug/l	2/Month	Grab
Total Phenols	4.48 ug/l	200.8 ug/l	2/Month	Grab
Pentachlorophenol	0.04 ug/l[4]	0.05 ug/l[4]	2/Month	Grab
Total Phthalates	3 ug/l	190 ug/l	2/Month	Grab
Bis (2-Ethylhexyl) Phthalate	6 ug/l	6 ug/l	2/Month	Grab
Total Group I Polycyclic Aromatic Hydrocarbons	0.14 ug/l[4]	1 ug/l	2/Month	Grab
Benzo (a) Anthracene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (a) Pyrene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (b) Fluoranthene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (k) Fluoranthene	---	0.0038 ug/l[4]	2/Month	Grab
Chrysene	---	0.0038 ug/l[4]	2/Month	Grab
Dibenzo (a,h) anthracene	---	0.0038 ug/l[4]	2/Month	Grab
Indeno (1,2,3-cd) Pyrene	---	0.0038 ug/l[4]	2/Month	Grab
Total Group II Polycyclic Aromatic Hydrocarbons	0.14 ug/l[4]	100 ug/l	2/Month	Grab
Acenaphthene	1.52 ug/l	1.9 ug/l	2/Month	Grab
Acenaphthylene	---	---	2/Month	Grab
Anthracene	32,000 ug/l	---	2/Month	Grab
Benzo (ghi) Perylene	---	---	2/Month	Grab
Fluoranthene	3.52 ug/l	159.2 ug/l	2/Month	Grab
Fluorene	4,240 ug/l	---	2/Month	Grab
Naphthalene	2.08 ug/l	20 ug/l	2/Month	Grab
Phenanthrene	---	---	2/Month	Grab
Pyrene	3,200 ug/l	---	2/Month	Grab
Total Polychlorinated Biphenyls (PCBs)	0.000064 ug/l[4]	0.000064 ug/l[4]	2/Month	Grab
Antimony (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Arsenic (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Cadmium (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium III (trivalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium VI (hexavalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Copper (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Lead (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Mercury (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Nickel (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Selenium (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

Silver (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Zinc (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Iron (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

15. Discharge Category E – Sites Containing Volatile Organic Compounds and Other Contaminants Discharging to SA and SB receiving waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Ammonia	---	---	2/Month	Grab
Ethanol[5]	---	---	2/Month	Grab
Total Suspended Solids	---	30,000 ug/l	2/Month	Grab
Total Residual Chlorine	7.5 ug/l[4]	13 ug/l	2/Month	Grab
Total Petroleum Hydrocarbons	---	1000 ug/l	2/Month	Grab
Cyanide	0.8 ug/l[4]	0.8 ug/l[4]	2/Month	Grab
Benzene	5 ug/l	5 ug/l	2/Month	Grab
Toluene	12,000 ug/l	---	2/Month	Grab
Ethylbenzene	1,680 ug/l	---	2/Month	Grab
Total Xylenes (m,p,o)	---	---	2/Month	Grab
Total BTEX	100 ug/l	100 ug/l	2/Month	Grab
Ethylene dibromide	---	0.05 ug/l	2/Month	Grab
Methyl-t-Butyl Ether	---	70 ug/l	2/Month	Grab
tert-Amyl Methyl Ether	---	---	2/Month	Grab
Carbon Tetrachloride	4.4 ug/l	4.4 ug/l	2/Month	Grab
1,4 Dichlorobenzene	5 ug/l	5 ug/l	2/Month	Grab
1,2 Dichlorobenzene	600 ug/l	600 ug/l	2/Month	Grab
1,3 Dichlorobenzene	320 ug/l	320 ug/l	2/Month	Grab
Total Dichlorobenzene	---	763 ug/l	2/Month	Grab
1,1 Dichloroethane	---	70 ug/l	2/Month	Grab
1,2 Dichloroethane	5 ug/l	5 ug/l	2/Month	Grab
1,1 Dichloroethylene	3.2 ug/l	3.2 ug/l	2/Month	Grab
cis-1,2 Dichloroethylene	---	70 ug/l	2/Month	Grab
Dichloromethane	---	4.6 ug/l	2/Month	Grab
Tetrachloroethylene	5 ug/l	5 ug/l	2/Month	Grab
1,1,1 Trichloroethane	---	200 ug/l	2/Month	Grab
1,1,2 Trichloroethane	5 ug/l	5 ug/l	2/Month	Grab
Trichloroethylene	5 ug/l	5 ug/l	2/Month	Grab
Vinyl Chloride	1.92 ug/l	2 ug/l	2/Month	Grab

Acetone	---	7,970 ug/l	2/Month	Grab
1,4 Dioxane	---	200 ug/l	2/Month	Grab
Total Phenols	300 ug/l	300 ug/l	2/Month	Grab
Pentachlorophenol	1 ug/l[4]	1 ug/l[4]	2/Month	Grab
Total Phthalates	3 ug/l	190 ug/l	2/Month	Grab
Bis (2-Ethylhexyl) Phthalate	6 ug/l	6 ug/l	2/Month	Grab
Total Group I Polycyclic Aromatic Hydrocarbons	0.14 ug/l[4]	1 ug/l	2/Month	Grab
Benzo (a) Anthracene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Benzo (a) Pyrene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Benzo (b) Fluoranthene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Benzo (k) Fluoranthene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Chrysene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Dibenzo (a,h) anthracene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Indeno (1,2,3-cd) Pyrene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Total Group II Polycyclic Aromatic Hydrocarbons	0.14 ug/l[4]	100 ug/l	2/Month	Grab
Acenaphthene	1.9 ug/l	1.9 ug/l	2/Month	Grab
Acenaphthylene	---	---	2/Month	Grab
Anthracene	32,000 ug/l	---	2/Month	Grab
Benzo (ghi) Perylene	---	---	2/Month	Grab
Fluoranthene	112 ug/l	---	2/Month	Grab
Fluorene	4,240 ug/l	---	2/Month	Grab
Naphthalene	---	20 ug/l	2/Month	Grab
Phenanthrene	---	---	2/Month	Grab
Pyrene	3,200 ug/l	---	2/Month	Grab
Total Polychlorinated Biphenyls (PCBs)	0.000064 ug/l[4]	0.000064 ug/l[4]	2/Month	Grab
Antimony (total recoverable)	5.6 ug/l	5.6 ug/l	2/Month	Grab
Arsenic (total recoverable)	1.12 ug/l	55.2 ug/l	2/Month	Grab
Cadmium (total recoverable)	7.08 ug/l	10.2 ug/l	2/Month	Grab
Chromium III (trivalent, total recoverable)	100 ug/l	323 ug/l	2/Month	Grab
Chromium VI (hexavalent, total recoverable)	40.28 ug/l	323 ug/l	2/Month	Grab
Copper (total recoverable)	2.98 ug/l	4.62 ug/l	2/Month	Grab
Lead (Total Recoverable)	6.81 ug/l	160 ug/l	2/Month	Grab
Mercury (total recoverable)	0.12 ug/l	1.69 ug/l	2/Month	Grab
Nickel (total recoverable)	6.62 ug/l	59.79 ug/l	2/Month	Grab
Selenium (total recoverable)	56.91 ug/l	232.46 ug/l	2/Month	Grab

Silver (total recoverable)	1.78 ug/l	1.78 ug/l	2/Month	Grab
Zinc (total recoverable)	68.5 ug/l	76.11 ug/l	2/Month	Grab
Iron (total recoverable)	---	1,000 ug/l	2/Month	Grab

16. Discharge Category F – Sites Containing Primarily Metals Discharging to Class AA receiving waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Antimony (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Arsenic (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Cadmium (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium III (trivalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium VI (hexavalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Copper (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Lead (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Mercury (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Nickel (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Selenium (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Silver (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Zinc (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Iron (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Cyanide	4.16 ug/l[4]	17.6 ug/l	2/Month	Grab
Carbon Tetrachloride	1.84 ug/l	4.4 ug/l	2/Month	Grab
1,2 Dichlorobenzene	1.44 ug/l	63.2 ug/l	2/Month	Grab
1,3 Dichlorobenzene	6.96 ug/l	312 ug/l	2/Month	Grab
1,4 Dichlorobenzene	0.96 ug/l	5 ug/l	2/Month	Grab
Total Dichlorobenzene	---	763 ug/l	2/Month	Grab
1,1 Dichloroethane	---	70 ug/l	2/Month	Grab
1,2 Dichloroethane	3.04 ug/l	5 ug/l	2/Month	Grab
1,1 Dichloroethylene	3.2 ug/l	3.2 ug/l	2/Month	Grab
cis 1,2 Dichloroethylene	---	70 ug/l	2/Month	Grab
Methylene Chloride	4.6 ug/l	4.6 ug/l	2/Month	Grab
Tetrachloroethylene	4.24 ug/l	5 ug/l	2/Month	Grab
1,1,1 Trichloroethane	---	200 ug/l	2/Month	Grab
1,1,2 Trichloroethane	4.72 ug/l	5 ug/l	2/Month	Grab
Trichloroethylene	5 ug/l	5 ug/l	2/Month	Grab

Vinyl Chloride	0.02 ug/l[4]	2 ug/l	2/Month	Grab
Total Suspended Solids	---	30,000 ug/l	2/Month	Grab

17. Discharge Category F – Sites Containing Primarily Metals Discharging to Non-Class AA receiving waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Antimony (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Arsenic (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Cadmium (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium III (trivalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium VI (hexavalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Copper (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Lead (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Mercury (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Nickel (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Selenium (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Silver (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Zinc (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Iron (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Cyanide	4.16 ug/l[4]	17.6 ug/l	2/Month	Grab
Carbon Tetrachloride	4.4 ug/l	4.4 ug/l	2/Month	Grab
1,2 Dichlorobenzene	1.44 ug/l	63.2 ug/l	2/Month	Grab
1,3 Dichlorobenzene	6.96 ug/l	312 ug/l	2/Month	Grab
1,4 Dichlorobenzene	0.96 ug/l	5 ug/l	2/Month	Grab
Total Dichlorobenzene	---	763 ug/l	2/Month	Grab
1,1 Dichloroethane	---	70 ug/l	2/Month	Grab
1,2 Dichloroethane	5 ug/l	5 ug/l	2/Month	Grab
1,1 Dichloroethylene	3.2 ug/l	3.2 ug/l	2/Month	Grab
cis-1,2 Dichloroethylene	---	70 ug/l	2/Month	Grab
Methylene Chloride	4.6 ug/l	4.6 ug/l	2/Month	Grab
Tetrachloroethylene	4.24 ug/l	5 ug/l	2/Month	Grab
1,1,1 Trichloroethane	---	200 ug/l	2/Month	Grab
1,1,2 Trichloroethane	5 ug/l	5 ug/l	2/Month	Grab

Trichloroethylene	5 ug/l	5 ug/l	2/Month	Grab
Vinyl Chloride	1.92 ug/l	2 ug/l	2/Month	Grab
Total Suspended Solids	---	30,000 ug/l	2/Month	Grab

18. Discharge Category F – Sites Containing Primarily Metals Discharging to Class SA and SB receiving waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Antimony (total recoverable)	5.6 ug/l	5.6 ug/l	2/Month	Grab
Arsenic (total recoverable)	1.12 ug/l	55.2 ug/l	2/Month	Grab
Cadmium (total recoverable)	7.08 ug/l	10.2 ug/l	2/Month	Grab
Chromium III (trivalent, total recoverable)	100 ug/l	323 ug/l	2/Month	Grab
Chromium VI (hexavalent, total recoverable)	40.28 ug/l	323 ug/l	2/Month	Grab
Copper (total recoverable)	2.98 ug/l	4.62 ug/l	2/Month	Grab
Lead (Total Recoverable)	6.81 ug/l	160 ug/l	2/Month	Grab
Mercury (total recoverable)	0.12 ug/l	1.69 ug/l	2/Month	Grab
Nickel (total recoverable)	6.62 ug/l	59.79 ug/l	2/Month	Grab
Selenium (total recoverable)	56.91 ug/l	232.46 ug/l	2/Month	Grab
Silver (total recoverable)	1.78 ug/l	1.78 ug/l	2/Month	Grab
Zinc (total recoverable)	68.5 ug/l	76.11 ug/l	2/Month	Grab
Iron (total recoverable)	---	1000 ug/l	2/Month	Grab
Cyanide	0.8 ug/l[4]	0.8 ug/l[4]	2/Month	Grab
Carbon Tetrachloride	4.4 ug/l	4.4 ug/l	2/Month	Grab
1,2 (or o) Dichlorobenzene	600 ug/l	600 ug/l	2/Month	Grab
1,3 (or m) Dichlorobenzene	320 ug/l	320 ug/l	2/Month	Grab
1,4 (or p) Dichlorobenzene	5 ug/l	5 ug/l	2/Month	Grab
Total Dichlorobenzene	---	763 ug/l	2/Month	Grab
1,1 Dichloroethane	---	70 ug/l	2/Month	Grab
1,2 Dichloroethane	5 ug/l	5 ug/l	2/Month	Grab
1,1 Dichloroethylene	3.2 ug/l	3.2 ug/l	2/Month	Grab
cis-1,2 Dichloroethylene	---	70 ug/l	2/Month	Grab
Methylene Chloride	4.6 ug/l	4.6 ug/l	2/Month	Grab
Tetrachloroethylene	5 ug/l	5 ug/l	2/Month	Grab
1,1,1 Trichloroethane	---	200 ug/l	2/Month	Grab
1,1,2 Trichloroethane	5 ug/l	5 ug/l	2/Month	Grab

Trichloroethylene	5 ug/l	5 ug/l	2/Month	Grab
Vinyl Chloride	1.92 ug/l	2 ug/l	2/Month	Grab
Total Suspended Solids	---	30,000 ug/l	2/Month	Grab

19. Category G – Contaminated Construction Dewatering Sites Discharging to Class AA receiving waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Ammonia	---	---	2/Month	Grab
Ethanol[5]	---	---	2/Month	Grab
Total Suspended Solids	---	30000 ug/l	2/Month	Grab
Total Residual Chlorine	11 ug/l	19 ug/l	2/Month	Grab
Total Petroleum Hydrocarbons	---	1000 ug/l	2/Month	Grab
Cyanide	4.16 ug/l[4]	17.6 ug/l	2/Month	Grab
Benzene	4.72 ug/l	5 ug/l	2/Month	Grab
Toluene	11.2 ug/l	508 ug/l	2/Month	Grab
Ethylbenzene	28.8 ug/l	1280 ug/l	2/Month	Grab
Total Xylenes (m,p,o)	2.4 ug/l	106.4 ug/l	2/Month	Grab
Total BTEX	---	100 ug/l	2/Month	Grab
Ethylene dibromide	---	0.05 ug/l	2/Month	Grab
Methyl t Butyl Ether	---	70 ug/l	2/Month	Grab
Tert Amyl Methyl Ether	---	---	2/Month	Grab
Carbon Tetrachloride	1.84 ug/l	4.4 ug/l	2/Month	Grab
1,4 Dichlorobenzene	0.96 ug/l	5 ug/l	2/Month	Grab
1,2 Dichlorobenzene	1.44 ug/l	63.2 ug/l	2/Month	Grab
1,3 Dichlorobenzene	6.96 ug/l	312 ug/l	2/Month	Grab
Total Dichlorobenzene	---	763 ug/l	2/Month	Grab
1,1 Dichloroethane	---	70 ug/l	2/Month	Grab
1,2 Dichloroethane	3.04 ug/l	5 ug/l	2/Month	Grab
1,1 Dichloroethylene	3.2 ug/l	3.2 ug/l	2/Month	Grab
cis - 1,2 Dichloroethylene	---	70 ug/l	2/Month	Grab
Dichloromethane	---	4.6 ug/l	2/Month	Grab
Tetrachloroethylene	4.24 ug/l	5 ug/l	2/Month	Grab
1,1,1 Trichloroethane	---	200 ug/l	2/Month	Grab
1,1,2 Trichloroethane	4.72 ug/l	5 ug/l	2/Month	Grab
Trichloroethylene	5 ug/l	5 ug/l	2/Month	Grab
Vinyl Chloride	0.02 ug/l[4]	2 ug/l	2/Month	Grab

Acetone	---	7970 ug/l	2/Month	Grab
1,4 Dioxane	---	200 ug/l	2/Month	Grab
Total Phenols	4.48 ug/l	200.8 ug/l	2/Month	Grab
Pentachlorophenol	0.04 ug/l[4]	0.05 ug/l[4]	2/Month	Grab
Total Phthalates	3 ug/l	190 ug/l	2/Month	Grab
Bis (2-Ethylhexyl) Phthalate	6 ug/l	6 ug/l	2/Month	Grab
Total Group I Polycyclic Aromatic Hydrocarbons	0.03 ug/l[4]	1 ug/l	2/Month	Grab
Benzo (a) Anthracene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (a) Pyrene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (b) Fluoranthene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (k) Fluoranthene	---	0.0038 ug/l[4]	2/Month	Grab
Chrysene	---	0.0038 ug/l[4]	2/Month	Grab
Dibenzo (a,h) anthracene	---	0.0038 ug/l[4]	2/Month	Grab
Indeno (1,2,3-cd) Pyrene	---	0.0038 ug/l[4]	2/Month	Grab
Total Group II Polycyclic Aromatic Hydrocarbons	0.03 ug/l[4]	100 ug/l	2/Month	Grab
Acenaphthene	1.52 ug/l	1.9 ug/l	2/Month	Grab
Acenaphthylene	---	---	2/Month	Grab
Anthracene	6640 ug/l	---	2/Month	Grab
Benzo (ghi) Perylene	---	---	2/Month	Grab
Fluoranthene	3.52 ug/l	159.2 ug/l	2/Month	Grab
Fluorene	880 ug/l	---	2/Month	Grab
Naphthalene	2.08 ug/l	20 ug/l	2/Month	Grab
Phenanthrene	---	---	2/Month	Grab
Pyrene	664 ug/l	---	2/Month	Grab
Total Polychlorinated Biphenyls	0.000064 ug/l[4]	0.000064 ug/l[4]	2/Month	Grab
Antimony (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Arsenic (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Cadmium (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium III (trivalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium VI (hexavalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Copper (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Lead (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Mercury (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Nickel (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Selenium (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

Silver (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Zinc (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Iron (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

20. Category G – Contaminated Construction Dewatering Sites Discharging to Non- Class AA receiving waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Ammonia	---	---	2/Month	Grab
Ethanol[5]	---	---	2/Month	Grab
Total Suspended Solids	---	30,000 ug/l	2/Month	Grab
Total Residual Chlorine	11 ug/l	19 ug/l	2/Month	Grab
Total Petroleum Hydrocarbons	---	1,000 ug/l	2/Month	Grab
Cyanide	4.16 ug/l[4]	17.6 ug/l	2/Month	Grab
Benzene	4.72 ug/l	5 ug/l	2/Month	Grab
Toluene	11.2 ug/l	508 ug/l	2/Month	Grab
Ethylbenzene	28.8 ug/l	1,280 ug/l	2/Month	Grab
Total Xylenes (m,p,o)	2.4 ug/l	106.4 ug/l	2/Month	Grab
Total BTEX	---	100 ug/l	2/Month	Grab
Ethylene dibromide	---	0.05 ug/l	2/Month	Grab
Methyl- t- Butyl Ether	---	70 ug/l	2/Month	Grab
tert-Amyl Methyl Ether	---	---	2/Month	Grab
Carbon Tetrachloride	4.4 ug/l	4.4 ug/l	2/Month	Grab
1,4 Dichlorobenzene	0.96 ug/l	5 ug/l	2/Month	Grab
1,2 Dichlorobenzene	1.44 ug/l	63.2 ug/l	2/Month	Grab
1,3 Dichlorobenzene	6.96 ug/l	312 ug/l	2/Month	Grab
Total Dichlorobenzene	---	763 ug/l	2/Month	Grab
1,1 Dichloroethane	---	70 ug/l	2/Month	Grab
1,2 Dichloroethane	5 ug/l	5 ug/l	2/Month	Grab
1,1 Dichloroethylene	3.2 ug/l	3.2 ug/l	2/Month	Grab
Cis - 1,2 Dichloroethylene	---	70 ug/l	2/Month	Grab
Dichloromethane	---	4.6 ug/l	2/Month	Grab
Tetrachloroethylene	4.24 ug/l	5 ug/l	2/Month	Grab
1,1,1 Trichloroethane	---	200 ug/l	2/Month	Grab
1,1,2 Trichloroethane	5 ug/l	5 ug/l	2/Month	Grab
Trichloroethylene	5 ug/l	5 ug/l	2/Month	Grab
Vinyl Chloride	1.92 ug/l	2 ug/l	2/Month	Grab

Acetone	---	7,970 ug/l	2/Month	Grab
1,4 Dioxane	---	200 ug/l	2/Month	Grab
Total Phenols	4.48 ug/l	200.8 ug/l	2/Month	Grab
Pentachlorophenol	0.04 ug/l[4]	0.05 ug/l[4]	2/Month	Grab
Total Phthalates	3 ug/l	190 ug/l	2/Month	Grab
Bis (2-Ethylhexyl) Phthalate	6 ug/l	6 ug/l	2/Month	Grab
Total Group I Polycyclic Aromatic Hydrocarbons	0.14 ug/l[4]	1 ug/l	2/Month	Grab
Benzo (a) Anthracene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (a) Pyrene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (b) Fluoranthene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (k) Fluoranthene	---	0.0038 ug/l[4]	2/Month	Grab
Chrysene	---	0.0038 ug/l[4]	2/Month	Grab
Dibenzo (a,h) anthracene	---	0.0038 ug/l[4]	2/Month	Grab
Indeno (1,2,3-cd) Pyrene	---	0.0038 ug/l[4]	2/Month	Grab
Total Group II Polycyclic Aromatic Hydrocarbons	0.14 ug/l[4]	100 ug/l	2/Month	Grab
Acenaphthene	1.52 ug/l	1.9 ug/l	2/Month	Grab
Acenaphthylene	---	---	2/Month	Grab
Anthracene	32,000 ug/l	---	2/Month	Grab
Benzo (ghi) Perylene	---	---	2/Month	Grab
Fluoranthene	3.52 ug/l	159.2 ug/l	2/Month	Grab
Fluorene	4,240 ug/l	---	2/Month	Grab
Naphthalene	2.08 ug/l	20 ug/l	2/Month	Grab
Phenanthrene	---	---	2/Month	Grab
Pyrene	3,200 ug/l	---	2/Month	Grab
Total Polychlorinated Biphenyls (PCBs)	0.000064 ug/l[4]	0.000064 ug/l[4]	2/Month	Grab
Antimony (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Arsenic (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Cadmium (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium III (trivalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium VI (hexavalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Copper (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Lead (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Mercury (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Nickel (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Selenium (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

Silver (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Zinc (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Iron (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

21. Category G – Contaminated Construction Dewatering Sites Discharging to Class SA and SB receiving waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Ammonia	---	---	2/Month	Grab
Ethanol[5]	---	---	2/Month	Grab
Total Suspended Solids	---	30,000 ug/l	2/Month	Grab
Total Residual Chlorine	7.5 ug/l[4]	13 ug/l	2/Month	Grab
Total Petroleum Hydrocarbons	---	1,000 ug/l	2/Month	Grab
Cyanide	0.8 ug/l[4]	0.8 ug/l[4]	2/Month	Grab
Benzene	5 ug/l	5 ug/l	2/Month	Grab
Toluene	12,000 ug/l	---	2/Month	Grab
Ethylbenzene	1,680 ug/l	---	2/Month	Grab
Total Xylenes (m,p,o)	---	---	2/Month	Grab
Total BTEX	100 ug/l	100 ug/l	2/Month	Grab
Ethylene dibromide	---	0.05 ug/l	2/Month	Grab
Methyl-t-butyl Ether	---	70 ug/l	2/Month	Grab
Tert-Amyl Methyl Ether	---	---	2/Month	Grab
Carbon Tetrachloride	4.4 ug/l	4.4 ug/l	2/Month	Grab
1,4 Dichlorobenzene	5 ug/l	5 ug/l	2/Month	Grab
1,2 Dichlorobenzene	600 ug/l	600 ug/l	2/Month	Grab
1,3 Dichlorobenzene	320 ug/l	320 ug/l	2/Month	Grab
Total Dichlorobenzene	---	763 ug/l	2/Month	Grab
1,1 Dichloroethane	---	70 ug/l	2/Month	Grab
1,2 Dichloroethane	5 ug/l	5 ug/l	2/Month	Grab
1,1 Dichloroethylene	3.2 ug/l	3.2 ug/l	2/Month	Grab
Cis-1,2 Dichloroethylene	---	70 ug/l	2/Month	Grab
Dichloromethane	---	4.6 ug/l	2/Month	Grab
Tetrachloroethylene	5 ug/l	5 ug/l	2/Month	Grab
1,1,1 Trichloroethane	---	200 ug/l	2/Month	Grab
1,1,2 Trichloroethane	5 ug/l	5 ug/l	2/Month	Grab
Trichloroethylene	5 ug/l	5 ug/l	2/Month	Grab
Vinyl Chloride	1.92 ug/l	2 ug/l	2/Month	Grab

Acetone	---	7,970 ug/l	2/Month	Grab
1,4 Dioxane	---	200 ug/l	2/Month	Grab
Total Phenols	300 ug/l	300 ug/l	2/Month	Grab
Pentachlorophenol	1 ug/l[4]	1 ug/l[4]	2/Month	Grab
Total Phthalates	3 ug/l	190 ug/l	2/Month	Grab
Bis (2-Ethylhexyl) Phthalate	6 ug/l	6 ug/l	2/Month	Grab
Total Group I Polycyclic Aromatic Hydrocarbons	0.14 ug/l[4]	1 ug/l	2/Month	Grab
Benzo (a) Anthracene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Benzo (a) Pyrene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Benzo (b) Fluoranthene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Benzo (k) Fluoranthene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Chrysene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Dibenzo (a,h) anthracene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Indeno (1,2,3-cd) Pyrene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Total Group II Polycyclic Aromatic Hydrocarbons	0.14 ug/l[4]	100 ug/l	2/Month	Grab
Acenaphthene	1.9 ug/l	1.9 ug/l	2/Month	Grab
Acenaphthylene	---	---	2/Month	Grab
Anthracene	32,000 ug/l	---	2/Month	Grab
Benzo (ghi) Perylene	---	---	2/Month	Grab
Fluoranthene	112 ug/l	---	2/Month	Grab
Fluorene	4,240 ug/l	---	2/Month	Grab
Naphthalene	---	20 ug/l	2/Month	Grab
Phenanthrene	---	---	2/Month	Grab
Pyrene	3,200 ug/l	---	2/Month	Grab
Total Polychlorinated Biphenyls (PCBs)	0.000064 ug/l[4]	0.000064 ug/l[4]	2/Month	Grab
Antimony (total recoverable)	5.6 ug/l	5.6 ug/l	2/Month	Grab
Arsenic (total recoverable)	1.12 ug/l	55.2 ug/l	2/Month	Grab
Cadmium (total recoverable)	7.08 ug/l	10.2 ug/l	2/Month	Grab
Chromium III (trivalent, total recoverable)	100 ug/l	323 ug/l	2/Month	Grab
Chromium VI (hexavalent, total recoverable)	40.28 ug/l	323 ug/l	2/Month	Grab
Copper (total recoverable)	2.98 ug/l	4.62 ug/l	2/Month	Grab
Lead (total recoverable)	6.81 ug/l	160 ug/l	2/Month	Grab
Mercury (total recoverable)	0.12 ug/l	1.69 ug/l	2/Month	Grab
Nickel (total recoverable)	6.62 ug/l	59.79 ug/l	2/Month	Grab
Selenium (total recoverable)	56.91 ug/l	232.46 ug/l	2/Month	Grab

Silver (total recoverable)	1.78 ug/l	1.78 ug/l	2/Month	Grab
Zinc (total recoverable)	68.5 ug/l	76.11 ug/l	2/Month	Grab
Iron (total recoverable)	---	1,000 ug/l	2/Month	Grab

22. Category H. Sites Engaged in Contaminated Aquifer Pump Testing, Contaminated Well Development or Rehabilitation Discharging to Class AA receiving waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Ammonia	---	---	2/Month	Grab
Ethanol[5]	---	---	2/Month	Grab
Total Suspended Solids	---	30,000 ug/l	2/Month	Grab
Total Residual Chlorine	11 ug/l	19 ug/l	2/Month	Grab
Total Petroleum Hydrocarbons	---	1000 ug/l	2/Month	Grab
Cyanide	4.16 ug/l[4]	17.6 ug/l	2/Month	Grab
Benzene	4.72 ug/l	5 ug/l	2/Month	Grab
Toluene	11.2 ug/l	508 ug/l	2/Month	Grab
Ethylbenzene	28.8 ug/l	1280 ug/l	2/Month	Grab
Total Xylenes (m,p,o)	2.4 ug/l	106.4 ug/l	2/Month	Grab
Total BTEX	---	100 ug/l	2/Month	Grab
Ethylene dibromide	---	0.05 ug/l	2/Month	Grab
Methyl-t-Butyl Ether	---	70 ug/l	2/Month	Grab
tert-Amyl Methyl Ether	---	---	2/Month	Grab
Carbon Tetrachloride	1.84 ug/l	4.4 ug/l	2/Month	Grab
1,4 Dichlorobenzene	0.96 ug/l	5 ug/l	2/Month	Grab
1,2 Dichlorobenzene	1.44 ug/l	63.2 ug/l	2/Month	Grab
1,3 Dichlorobenzene	6.96 ug/l	312 ug/l	2/Month	Grab
Total Dichlorobenzene	---	763 ug/l	2/Month	Grab
1,1 Dichloroethane	---	70 ug/l	2/Month	Grab
1,2 Dichloroethane	3.04 ug/l	5 ug/l	2/Month	Grab
1,1 Dichloroethylene	3.2 ug/l	3.2 ug/l	2/Month	Grab
cis 1,2 Dichloroethylene	---	70 ug/l	2/Month	Grab
Dichloromethane	---	4.6 ug/l	2/Month	Grab
Tetrachloroethylene	4.24 ug/l	5 ug/l	2/Month	Grab
1,1,1 Trichloroethane	---	200 ug/l	2/Month	Grab
1,1,2 Trichloroethane	4.72 ug/l	5 ug/l	2/Month	Grab
Trichloroethylene	5 ug/l	5 ug/l	2/Month	Grab
Vinyl Chloride	0.02 ug/l[4]	2 ug/l	2/Month	Grab

Acetone	---	7970 ug/l	2/Month	Grab
1,4 Dioxane	---	200 ug/l	2/Month	Grab
Total Phenols	4.48 ug/l	200.8 ug/l	2/Month	Grab
Pentachlorophenol	0.04 ug/l[4]	0.05 ug/l[4]	2/Month	Grab
Total Phthalates	3 ug/l	190 ug/l	2/Month	Grab
Bis (2-Ethylhexyl) Phthalate	6 ug/l	6 ug/l	2/Month	Grab
Total Group I Polycyclic Aromatic Hydrocarbons	0.03 ug/l[4]	1 ug/l	2/Month	Grab
Benzo (a) Anthracene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (a) Pyrene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (b) Fluoranthene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (k) Fluoranthene	---	0.0038 ug/l[4]	2/Month	Grab
Chrysene	---	0.0038 ug/l[4]	2/Month	Grab
Dibenzo (a,h) anthracene	---	0.0038 ug/l[4]	2/Month	Grab
Indeno (1,2,3-cd) Pyrene	---	0.0038 ug/l[4]	2/Month	Grab
Total Group II Polycyclic Aromatic Hydrocarbons	0.03 ug/l[4]	100 ug/l	2/Month	Grab
Acenaphthene	1.52 ug/l	1.9 ug/l	2/Month	Grab
Acenaphthylene	---	---	2/Month	Grab
Anthracene	6640 ug/l	---	2/Month	Grab
Benzo (ghi) Perylene	---	---	2/Month	Grab
Fluoranthene	3.52 ug/l	159.2 ug/l	2/Month	Grab
Fluorene	880 ug/l	---	2/Month	Grab
Naphthalene	2.08 ug/l	20 ug/l	2/Month	Grab
Phenanthrene	---	---	2/Month	Grab
Pyrene	664 ug/l	---	2/Month	Grab
Total Polychlorinated Biphenyls	0.000064 ug/l[4]	0.000064 ug/l[4]	2/Month	Grab
Antimony (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Arsenic (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Cadmium (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium III (trivalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium VI (hexavalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Copper (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Lead (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Mercury (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Nickel (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Selenium (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

Silver (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Zinc (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Iron (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

23. Category H. Sites Engaged in Contaminated Aquifer Pump Testing, Contaminated Well Development or Rehabilitation Discharging to Non-Class AA receiving waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Ammonia	---	---	2/Month	Grab
Ethanol[5]	---	---	2/Month	Grab
Total Suspended Solids	---	30,000 ug/l	2/Month	Grab
Total Residual Chlorine	11 ug/l	19 ug/l	2/Month	Grab
Total Petroleum Hydrocarbons	---	1,000 ug/l	2/Month	Grab
Cyanide	4.16 ug/l[4]	17.6 ug/l	2/Month	Grab
Benzene	4.72 ug/l	5 ug/l	2/Month	Grab
Toluene	11.2 ug/l	508 ug/l	2/Month	Grab
Ethylbenzene	28.8 ug/l	1280 ug/l	2/Month	Grab
Total Xylenes (m,p,o)	2.4 ug/l	106.4 ug/l	2/Month	Grab
Total BTEX	---	100 ug/l	2/Month	Grab
Ethylene dibromide	---	0.05 ug/l	2/Month	Grab
Methyl-t-Butyl Ether	---	70 ug/l	2/Month	Grab
tert-Amyl Methyl Ether	---	---	2/Month	Grab
Carbon Tetrachloride	4.4 ug/l	4.4 ug/l	2/Month	Grab
1,4 Dichlorobenzene	0.96 ug/l	5 ug/l	2/Month	Grab
1,2 Dichlorobenzene	1.44 ug/l	63.2 ug/l	2/Month	Grab
1,3 Dichlorobenzene	6.96 ug/l	312 ug/l	2/Month	Grab
Total Dichlorobenzene	---	763 ug/l	2/Month	Grab
1,1 Dichloroethane	---	70 ug/l	2/Month	Grab
1,2 Dichloroethane	5 ug/l	5 ug/l	2/Month	Grab
1,1 Dichloroethylene	3.2 ug/l	3.2 ug/l	2/Month	Grab
cis-1,2 Dichloroethylene	---	70 ug/l	2/Month	Grab
Dichloromethane	---	4.6 ug/l	2/Month	Grab
Tetrachloroethylene	4.24 ug/l	5 ug/l	2/Month	Grab
1,1,1 Trichloroethane	---	200 ug/l	2/Month	Grab
1,1,2 Trichloroethane	5 ug/l	5 ug/l	2/Month	Grab
Trichloroethylene	5 ug/l	5 ug/l	2/Month	Grab
Vinyl Chloride	1.92 ug/l	2 ug/l	2/Month	Grab

Acetone	---	7,970 ug/l	2/Month	Grab
1,4 Dioxane	---	200 ug/l	2/Month	Grab
Total Phenols	4.48 ug/l	200.8 ug/l	2/Month	Grab
Pentachlorophenol	0.04 ug/l[4]	0.05 ug/l[4]	2/Month	Grab
Total Phthalates	3 ug/l	190 ug/l	2/Month	Grab
Bis (2-Ethylhexyl) Phthalate	6 ug/l	6 ug/l	2/Month	Grab
Total Group I Polycyclic Aromatic Hydrocarbons	0.14 ug/l[4]	1 ug/l	2/Month	Grab
Benzo (a) Anthracene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (a) Pyrene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (b) Fluoranthene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (k) Fluoranthene	---	0.0038 ug/l[4]	2/Month	Grab
Chrysene	---	0.0038 ug/l[4]	2/Month	Grab
Dibenzo (a,h) anthracene	---	0.0038 ug/l[4]	2/Month	Grab
Indeno (1,2,3-cd) Pyrene	---	0.0038 ug/l[4]	2/Month	Grab
Total Group II Polycyclic Aromatic Hydrocarbons	0.14 ug/l[4]	100 ug/l	2/Month	Grab
Acenaphthene	1.52 ug/l	1.9 ug/l	2/Month	Grab
Acenaphthylene	---	---	2/Month	Grab
Anthracene	32,000 ug/l	---	2/Month	Grab
Benzo (ghi) Perylene	---	---	2/Month	Grab
Fluoranthene	3.52 ug/l	159.2 ug/l	2/Month	Grab
Fluorene	4,240 ug/l	---	2/Month	Grab
Naphthalene	2.08 ug/l	20 ug/l	2/Month	Grab
Phenanthrene	---	---	2/Month	Grab
Pyrene	3200 ug/l	---	2/Month	Grab
Total Polychlorinated Biphenyls (PCBs)	0.000064 ug/l[4]	0.000064 ug/l[4]	2/Month	Grab
Antimony (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Arsenic (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Cadmium (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium III (trivalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium VI (hexavalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Copper (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Lead (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Mercury (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Nickel (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Selenium (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

Silver (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Zinc (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Iron (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

24. Category H. Sites Engaged in Contaminated Aquifer Pump Testing, Contaminated Well Development or Rehabilitation Discharging to Class SA or SB receiving waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Ammonia	---	---	2/Month	Grab
Ethanol[5]	---	---	2/Month	Grab
Total Suspended Solids	---	30,000 ug/l	2/Month	Grab
Total Residual Chlorine	7.5 ug/l[4]	13 ug/l	2/Month	Grab
Total Petroleum Hydrocarbons	---	1000 ug/l	2/Month	Grab
Cyanide	0.8 ug/l[4]	0.8 ug/l[4]	2/Month	Grab
Benzene	5 ug/l	5 ug/l	2/Month	Grab
Toluene	12,000 ug/l	---	2/Month	Grab
Ethylbenzene	1,680 ug/l	---	2/Month	Grab
Total Xylenes (m,p,o)	---	---	2/Month	Grab
Total BTEX	100 ug/l	100 ug/l	2/Month	Grab
Ethylene dibromide	---	0.05 ug/l	2/Month	Grab
Methyl-t-Butyl Ether	---	70 ug/l	2/Month	Grab
tert-Amyl Methyl Ether	---	---	2/Month	Grab
Carbon Tetrachloride	4.4 ug/l	4.4 ug/l	2/Month	Grab
1,4 Dichlorobenzene	5 ug/l	5 ug/l	2/Month	Grab
1,2 Dichlorobenzene	600 ug/l	600 ug/l	2/Month	Grab
1,3 Dichlorobenzene	320 ug/l	320 ug/l	2/Month	Grab
Total Dichlorobenzene	---	763 ug/l	2/Month	Grab
1,1 Dichloroethane	---	70 ug/l	2/Month	Grab
1,2 Dichloroethane	5 ug/l	5 ug/l	2/Month	Grab
1,1 Dichloroethylene	3.2 ug/l	3.2 ug/l	2/Month	Grab
Cis-1,2 Dichloroethylene	---	70 ug/l	2/Month	Grab
Dichloromethane	---	4.6 ug/l	2/Month	Grab
Tetrachloroethylene	5 ug/l	5 ug/l	2/Month	Grab
1,1,1 Trichloroethane	---	200 ug/l	2/Month	Grab
1,1,2 Trichloroethane	5 ug/l	5 ug/l	2/Month	Grab
Trichloroethylene	5 ug/l	5 ug/l	2/Month	Grab
Vinyl Chloride	1.92 ug/l	2 ug/l	2/Month	Grab

Acetone	---	7,970 ug/l	2/Month	Grab
1,4 Dioxane	---	200 ug/l	2/Month	Grab
Total Phenols	300 ug/l	300 ug/l	2/Month	Grab
Pentachlorophenol	1 ug/l[4]	1 ug/l[4]	2/Month	Grab
Total Phthalates	3 ug/l	190 ug/l	2/Month	Grab
Bis (2-Ethylhexyl) Phthalate	6 ug/l	6 ug/l	2/Month	Grab
Total Group I Polycyclic Aromatic Hydrocarbons	0.14 ug/l[4]	1 ug/l	2/Month	Grab
Benzo (a) Anthracene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Benzo (a) Pyrene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Benzo (b) Fluoranthene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Benzo (k) Fluoranthene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Chrysene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Dibenzo (a,h) anthracene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Indeno (1,2,3-cd) Pyrene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Total Group II Polycyclic Aromatic Hydrocarbons	0.14 ug/l[4]	100 ug/l	2/Month	Grab
Acenaphthene	1.9 ug/l	1.9 ug/l	2/Month	Grab
Acenaphthylene	---	---	2/Month	Grab
Anthracene	32,000 ug/l	---	2/Month	Grab
Benzo (ghi) Perylene	---	---	2/Month	Grab
Fluoranthene	112 ug/l	---	2/Month	Grab
Fluorene	4,240 ug/l	---	2/Month	Grab
Naphthalene	---	20 ug/l	2/Month	Grab
Phenanthrene	---	---	2/Month	Grab
Pyrene	3,200 ug/l	---	2/Month	Grab
Total Polychlorinated Biphenyls	0.000064 ug/l[4]	0.000064 ug/l[4]	2/Month	Grab
Antimony (total recoverable)	5.6 ug/l	5.6 ug/l	2/Month	Grab
Arsenic (total recoverable)	1.12 ug/l	55.2 ug/l	2/Month	Grab
Cadmium (total recoverable)	7.08 ug/l	10.2 ug/l	2/Month	Grab
Chromium III (trivalent, total recoverable)	100 ug/l	323 ug/l	2/Month	Grab
Chromium VI (hexavalent, total recoverable)	40.28 ug/l	323 ug/l	2/Month	Grab
Copper (total recoverable)	2.98 ug/l	4.62 ug/l	2/Month	Grab
Lead (total recoverable)	6.81 ug/l	160 ug/l	2/Month	Grab
Mercury (total recoverable)	0.12 ug/l	1.69 ug/l	2/Month	Grab
Nickel (total recoverable)	6.62 ug/l	59.79 ug/l	2/Month	Grab
Selenium (total recoverable)	56.91 ug/l	232.46 ug/l	2/Month	Grab

Silver (total recoverable)	1.78 ug/l	1.78 ug/l	2/Month	Grab
Zinc (total recoverable)	68.5 ug/l	76.11 ug/l	2/Month	Grab
Iron (total recoverable)	---	1,000 ug/l	2/Month	Grab

25. Category I. Hydrostatic Testing of Pipelines and Tanks Discharging to Class AA receiving waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Ethanol[5]	---	---	2/Month	Grab
Total Suspended Solids	---	30000 ug/l	2/Month	Grab
Total Residual Chlorine	11 ug/l	19 ug/l	2/Month	Grab
Total Petroleum Hydrocarbons	---	1000 ug/l	2/Month	Grab
Benzene	4.72 ug/l	5 ug/l	2/Month	Grab
Total BTEX	---	100 ug/l	2/Month	Grab
Naphthalene	2.08 ug/l	20 ug/l	2/Month	Grab
Ethylene dibromide	---	0.05 ug/l	2/Month	Grab
Methyl-t-Butyl Ether	---	70 ug/l	2/Month	Grab
tert-Butyl Alcohol	---	---	2/Month	Grab
tert-Amyl Methyl Ether	---	---	2/Month	Grab
Bis (2-Ethylhexyl) Phthalate	6 ug/l	6 ug/l	2/Month	Grab
Total Group I Polycyclic Aromatic Hydrocarbons	0.03 ug/l[4]	1 ug/l	2/Month	Grab
Benzo (a) Anthracene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (a) Pyrene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (b) Fluoranthene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (k) Fluoranthene	---	0.0038 ug/l[4]	2/Month	Grab
Chrysene	---	0.0038 ug/l[4]	2/Month	Grab
Dibenzo (a,h) anthracene	---	0.0038 ug/l[4]	2/Month	Grab
Indeno (1,2,3-cd) Pyrene	---	0.0038 ug/l[4]	2/Month	Grab
Copper (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Lead (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Nickel (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium III (trivalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium VI (hexavalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Zinc (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Iron (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

26. Category I. Hydrostatic Testing of Pipelines and Tanks Discharging to Non-Class AA receiving waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Ethanol[5]	---	---	2/Month	Grab
Total Suspended Solids	---	30,000 ug/l	2/Month	Grab
Total Residual Chlorine	11 ug/l	19 ug/l	2/Month	Grab
Total Petroleum Hydrocarbons	---	1,000 ug/l	2/Month	Grab
Benzene	4.72 ug/l	5 ug/l	2/Month	Grab
Total BTEX	---	100 ug/l	2/Month	Grab
Naphthalene	2.08 ug/l	20 ug/l	2/Month	Grab
Ethylene dibromide	---	0.05 ug/l	2/Month	Grab
Methyl-t-Butyl Ether	---	70 ug/l	2/Month	Grab
tert-Butyl Alcohol	---	---	2/Month	Grab
tert-Amyl Methyl Ether	---	---	2/Month	Grab
Bis (2-Ethylhexyl) Phthalate	6 ug/l	6 ug/l	2/Month	Grab
Total Group I Polycyclic Aromatic Hydrocarbons	0.14 ug/l[4]	1 ug/l	2/Month	Grab
Benzo(a) Anthracene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (a) Pyrene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (b) Fluoranthene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (k) Fluoranthene	---	0.0038 ug/l[4]	2/Month	Grab
Chrysene	---	0.0038 ug/l[4]	2/Month	Grab
Dibenzo (a,h) anthracene	---	0.0038 ug/l[4]	2/Month	Grab
Indeno (1,2,3-cd) Pyrene	---	0.0038 ug/l[4]	2/Month	Grab
Copper (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Lead (total Recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Nickel (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium III (trivalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium VI (hexavalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Zinc (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Iron (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

27. Category I. Hydrostatic Testing of Pipelines and Tanks Discharging to Class SA and SB receiving waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Ethanol[5]	---	---	2/Month	Grab
Total Suspended Solids	---	30,000 ug/l	2/Month	Grab
Total Residual Chlorine	7.5 ug/l[4]	13 ug/l	2/Month	Grab
Total Petroleum Hydrocarbons	---	1,000 ug/l	2/Month	Grab
Benzene	5 ug/l	5 ug/l	2/Month	Grab
Total BTEX	100 ug/l	100 ug/l	2/Month	Grab
Naphthalene	---	20 ug/l	2/Month	Grab
Ethylene dibromide	---	0.05 ug/l	2/Month	Grab
Methyl-t-Butyl Ether	---	70 ug/l	2/Month	Grab
tert-Butyl Alcohol	---	---	2/Month	Grab
tert-Amyl Methyl Ether	---	---	2/Month	Grab
Bis (2-Ethylhexyl) Phthalate	6 ug/l	6 ug/l	2/Month	Grab
Total Group I Polycyclic Aromatic Hydrocarbons	0.14 ug/l[4]	1 ug/l	2/Month	Grab
Benzo (a) Anthracene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Benzo (a) Pyrene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Benzo (b) Fluoranthene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Benzo (k) Fluoranthene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Chrysene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Dibenzo (a,h) anthracene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Indeno (1,2,3-cd) Pyrene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Copper (total recoverable)	2.98 ug/l	4.62 ug/l	2/Month	Grab
Lead (total recoverable)	6.81 ug/l	160 ug/l	2/Month	Grab
Nickel (total recoverable)	6.62 ug/l	59.79 ug/l	2/Month	Grab
Chromium III (trivalent, total recoverable)	100 ug/l	323 ug/l	2/Month	Grab
Chromium VI (hexavalent, total recoverable)	40.28 ug/l	323 ug/l	2/Month	Grab
Zinc (total recoverable)	68.5 ug/l	76.11 ug/l	2/Month	Grab
Iron (total recoverable)	---	1,000 ug/l	2/Month	Grab

28. Category J. Contaminated Sumps Discharging to Class AA receiving waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Ammonia	---	---	2/Month	Grab
Ethanol[5]	---	---	2/Month	Grab
Total Suspended Solids	---	30000 ug/l	2/Month	Grab
Total Residual Chlorine	11 ug/l	19 ug/l	2/Month	Grab
Total Petroleum Hydrocarbons	---	1000 ug/l	2/Month	Grab
Cyanide	4.16 ug/l[4]	17.6 ug/l	2/Month	Grab
Benzene	4.72 ug/l	5 ug/l	2/Month	Grab
Toluene	11.2 ug/l	508 ug/l	2/Month	Grab
Ethylbenzene	28.8 ug/l	1280 ug/l	2/Month	Grab
Total Xylenes (m,p,o)	2.4 ug/l	106.4 ug/l	2/Month	Grab
Total BTEX	---	100 ug/l	2/Month	Grab
Ethylene dibromide	---	0.05 ug/l	2/Month	Grab
Methyl-t-Butyl Ether	---	70 ug/l	2/Month	Grab
tert-Amyl Methyl Ether	---	---	2/Month	Grab
Carbon Tetrachloride	1.84 ug/l	4.4 ug/l	2/Month	Grab
1,4 Dichlorobenzene	0.96 ug/l	5 ug/l	2/Month	Grab
1,2 Dichlorobenzene	1.44 ug/l	63.2 ug/l	2/Month	Grab
1,3 Dichlorobenzene	6.96 ug/l	312 ug/l	2/Month	Grab
Total Dichlorobenzene	---	763 ug/l	2/Month	Grab
1,1 Dichloroethane	---	70 ug/l	2/Month	Grab
1,2 Dichloroethane	3.04 ug/l	5 ug/l	2/Month	Grab
1,1 Dichloroethylene	3.2 ug/l	3.2 ug/l	2/Month	Grab
Cis-1,2 Dichloroethylene	---	70 ug/l	2/Month	Grab
Dichloromethane	---	4.6 ug/l	2/Month	Grab
Tetrachloroethylene	4.24 ug/l	5 ug/l	2/Month	Grab
1,1,1 Trichloroethane	---	200 ug/l	2/Month	Grab
1,1,2 Trichloroethane	4.72 ug/l	5 ug/l	2/Month	Grab
Trichloroethylene	5 ug/l	5 ug/l	2/Month	Grab
Vinyl Chloride	0.02 ug/l[4]	2 ug/l	2/Month	Grab
Acetone	---	7970 ug/l	2/Month	Grab

1,4 Dioxane	---	200 ug/l	2/Month	Grab
Total Phenols	4.48 ug/l	200.8 ug/l	2/Month	Grab
Pentachlorophenol	0.04 ug/l[4]	0.05 ug/l[4]	2/Month	Grab
Total Phthalates	3 ug/l	190 ug/l	2/Month	Grab
Bis (2-Ethylhexyl) Phthalate	6 ug/l	6 ug/l	2/Month	Grab
Total Group I Polycyclic Aromatic Hydrocarbons	0.03 ug/l[4]	1 ug/l	2/Month	Grab
Benzo (a) Anthracene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (a) Pyrene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (b) Fluoranthene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (k) Fluoranthene	---	0.0038 ug/l[4]	2/Month	Grab
Chrysene	---	0.0038 ug/l[4]	2/Month	Grab
Dibenzo (a,h) anthracene	---	0.0038 ug/l[4]	2/Month	Grab
Indeno (1,2,3-cd) Pyrene	---	0.0038 ug/l[4]	2/Month	Grab
Total Group II Polycyclic Aromatic Hydrocarbons	0.03 ug/l[4]	100 ug/l	2/Month	Grab
Acenaphthene	1.52 ug/l	1.9 ug/l	2/Month	Grab
Acenaphthylene	---	---	2/Month	Grab
Anthracene	6640 ug/l	---	2/Month	Grab
Benzo (ghi) Perylene	---	---	2/Month	Grab
Fluoranthene	3.52 ug/l	159.2 ug/l	2/Month	Grab
Fluorene	880 ug/l	---	2/Month	Grab
Naphthalene	2.08 ug/l	20 ug/l	2/Month	Grab
Phenanthrene	---	---	2/Month	Grab
Pyrene	664 ug/l	---	2/Month	Grab
Total Polychlorinated Biphenyls (PCBs)	0.000064 ug/l[4]	0.000064 ug/l[4]	2/Month	Grab
Antimony (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Arsenic (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Cadmium (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium III (trivalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium VI (hexavalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Copper (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Lead (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Mercury (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Nickel (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Selenium (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Silver (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

Zinc (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Iron (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

29. Category J. Contaminated Sumps Discharging to Non-Class AA receiving waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Ammonia	---	---	2/Month	Grab
Ethanol[5]	---	---	2/Month	Grab
Total Suspended Solids	---	30,000 ug/l	2/Month	Grab
Total Residual Chlorine	11 ug/l	19 ug/l	2/Month	Grab
Total Petroleum Hydrocarbons	---	1,000 ug/l	2/Month	Grab
Cyanide	4.16 ug/l[4]	17.6 ug/l	2/Month	Grab
Benzene	4.72 ug/l	5 ug/l	2/Month	Grab
Toluene	11.2 ug/l	508 ug/l	2/Month	Grab
Ethylbenzene	28.8 ug/l	1,280 ug/l	2/Month	Grab
Total Xylenes (m,p,o)	2.4 ug/l	106.4 ug/l	2/Month	Grab
Total BTEX	---	100 ug/l	2/Month	Grab
Ethylene dibromide	---	0.05 ug/l	2/Month	Grab
Methyl-t-Butyl Ether	---	70 ug/l	2/Month	Grab
tert-Amyl Methyl Ether	---	---	2/Month	Grab
Carbon Tetrachloride	4.4 ug/l	4.4 ug/l	2/Month	Grab
1,4 Dichlorobenzene	0.96 ug/l	5 ug/l	2/Month	Grab
1,2 Dichlorobenzene	1.44 ug/l	63.2 ug/l	2/Month	Grab
1,3 Dichlorobenzene	6.96 ug/l	312 ug/l	2/Month	Grab
Total Dichlorobenzene	---	763 ug/l	2/Month	Grab
1,1 Dichloroethane	---	70 ug/l	2/Month	Grab
1,2 Dichloroethane	5 ug/l	5 ug/l	2/Month	Grab
1,1 Dichloroethylene	3.2 ug/l	3.2 ug/l	2/Month	Grab
cis-1,2 Dichloroethylene	---	70 ug/l	2/Month	Grab
Dichloromethane	---	4.6 ug/l	2/Month	Grab
Tetrachloroethylene	4.24 ug/l	5 ug/l	2/Month	Grab
1,1,1 Trichloroethane	---	200 ug/l	2/Month	Grab
1,1,2 Trichloroethane	5 ug/l	5 ug/l	2/Month	Grab
Trichloroethylene	5 ug/l	5 ug/l	2/Month	Grab
Vinyl Chloride	1.92 ug/l	2 ug/l	2/Month	Grab

Acetone	---	7,970 ug/l	2/Month	Grab
1,4 Dioxane	---	200 ug/l	2/Month	Grab
Total Phenols	4.48 ug/l	200.8 ug/l	2/Month	Grab
Pentachlorophenol	0.04 ug/l[4]	0.05 ug/l[4]	2/Month	Grab
Total Phthalates	3 ug/l	190 ug/l	2/Month	Grab
Bis (2-Ethylhexyl) Phthalate	6 ug/l	6 ug/l	2/Month	Grab
Total Group I Polycyclic Aromatic Hydrocarbons	0.14 ug/l[4]	1 ug/l	2/Month	Grab
Benzo (a) anthracene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (a) Pyrene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (b) Fluoranthene	---	0.0038 ug/l[4]	2/Month	Grab
Benzo (k) Fluoranthene	---	0.0038 ug/l[4]	2/Month	Grab
Chrysene	---	0.0038 ug/l[4]	2/Month	Grab
Dibenzo (a,h) anthracene	---	0.0038 ug/l[4]	2/Month	Grab
Indeno (1,2,3-cd) Pyrene	---	0.0038 ug/l[4]	2/Month	Grab
Total Group II Polycyclic Aromatic Hydrocarbons	0.14 ug/l[4]	100 ug/l	2/Month	Grab
Acenaphthene	1.52 ug/l	1.9 ug/l	2/Month	Grab
Acenaphthylene	---	---	2/Month	Grab
Anthracene	32,000 ug/l	---	2/Month	Grab
Benzo (ghi) Perylene	---	---	2/Month	Grab
Fluoranthene	3.52 ug/l	159.2 ug/l	2/Month	Grab
Fluorene	4,240 ug/l	---	2/Month	Grab
Naphthalene	2.08 ug/l	20 ug/l	2/Month	Grab
Phenanthrene	---	---	2/Month	Grab
Pyrene	3,200 ug/l	---	2/Month	Grab
Total Polychlorinated Biphenyls (PCBs)	0.000064 ug/l[4]	0.000064 ug/l[4]	2/Month	Grab
Antimony (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Arsenic (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Cadmium (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium III (trivalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Chromium VI (hexavalent, total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Copper (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Lead (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Mercury (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Nickel (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Selenium (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

Silver (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Zinc (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab
Iron (total recoverable)	See Part II.E	See Part II.E	2/Month	Grab

30. Category J. Contaminated Sumps Discharging to Class SA or SB receiving waters. During the period beginning the date of authorization to discharge and lasting until either the expiration of this general permit or termination of coverage, permittee(s) are authorized to discharge from an approved groundwater treatment system. Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations Concentration - Specify Units		Monitoring Requirement	
	Average Monthly	Maximum Daily	Measurement Frequency[1,2]	Sample Type
Flow	--- GPM	xxx GPM	Continuous[3]	Totalizer
Ammonia	---	---	2/Month	Grab
Ethanol[5]	---	---	2/Month	Grab
Total Suspended Solids	---	30,000 ug/l	2/Month	Grab
Total Residual Chlorine	7.5 ug/l[4]	13 ug/l	2/Month	Grab
Total Petroleum Hydrocarbons	---	1,000 ug/l	2/Month	Grab
Cyanide	0.8 ug/l[4]	0.8 ug/l[4]	2/Month	Grab
Benzene	5 ug/l	5 ug/l	2/Month	Grab
Toluene	12,000 ug/l	---	2/Month	Grab
Ethylbenzene	1680 ug/l	---	2/Month	Grab
Total Xylenes (m,p,o)	---	---	2/Month	Grab
Total BTEX	100 ug/l	100 ug/l	2/Month	Grab
Ethylene dibromide	---	0.05 ug/l	2/Month	Grab
Methyl-t-Butyl Ether	---	70 ug/l	2/Month	Grab
tert-Amyl Methyl Ether	---	---	2/Month	Grab
Carbon Tetrachloride	4.4 ug/l	4.4 ug/l	2/Month	Grab
1,4 Dichlorobenzene	5 ug/l	5 ug/l	2/Month	Grab
1,2 Dichlorobenzene	600 ug/l	600 ug/l	2/Month	Grab
1,3 Dichlorobenzene	320 ug/l	320 ug/l	2/Month	Grab
Total Dichlorobenzene	---	763 ug/l	2/Month	Grab
1,1 Dichloroethane	---	70 ug/l	2/Month	Grab
1,2 Dichloroethane	5 ug/l	5 ug/l	2/Month	Grab
1,1 Dichloroethylene	3.2 ug/l	3.2 ug/l	2/Month	Grab
Cis-1,2 Dichloroethylene	---	70 ug/l	2/Month	Grab
Dichloromethane	---	4.6 ug/l	2/Month	Grab
Tetrachloroethylene	5 ug/l	5 ug/l	2/Month	Grab
1,1,1 Trichloroethane	---	200 ug/l	2/Month	Grab
1,1,2 Trichloroethane	5 ug/l	5 ug/l	2/Month	Grab
Trichloroethylene	5 ug/l	5 ug/l	2/Month	Grab
Vinyl Chloride	1.92 ug/l	2 ug/l	2/Month	Grab

Acetone	---	7,970 ug/l	2/Month	Grab
1,4 Dioxane	---	200 ug/l	2/Month	Grab
Total Phenols	300 ug/l	300 ug/l	2/Month	Grab
Pentachlorophenol	1 ug/l[4]	1 ug/l[4]	2/Month	Grab
Total Phthalates	3 ug/l	190 ug/l	2/Month	Grab
Bis (2-Ethylhexyl) Phthalate	6 ug/l	6 ug/l	2/Month	Grab
Total Group I Polycyclic Aromatic Hydrocarbons	0.14 ug/l[4]	1 ug/l	2/Month	Grab
Benzo (a) Anthracene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Benzo (a) Pyrene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Benzo (b) Fluoranthene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Benzo (k) Fluoranthene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Chrysene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Dibenzo (a,h) anthracene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Indeno (1,2,3-cd) Pyrene	0.0038 ug/l[4]	0.0038 ug/l[4]	2/Month	Grab
Total Group II Polycyclic Aromatic Hydrocarbons	0.14 ug/l[4]	100 ug/l	2/Month	Grab
Acenaphthene	1.9 ug/l	1.9 ug/l	2/Month	Grab
Acenaphthylene	---	---	2/Month	Grab
Anthracene	32,000 ug/l	---	2/Month	Grab
Benzo (ghi) Perylene	---	---	2/Month	Grab
Fluoranthene	112 ug/l	---	2/Month	Grab
Fluorene	4,240 ug/l	---	2/Month	Grab
Naphthalene	---	20 ug/l	2/Month	Grab
Phenanthrene	---	---	2/Month	Grab
Pyrene	3,200 ug/l	---	2/Month	Grab
Total Polychlorinated Biphenyls (PCBs)	0.000064 ug/l[4]	0.000064 ug/l[4]	2/Month	Grab
Antimony (total recoverable)	5.6 ug/l	5.6 ug/l	2/Month	Grab
Arsenic (total recoverable)	1.12 ug/l	55.2 ug/l	2/Month	Grab
Cadmium (total recoverable)	7.08 ug/l	10.2 ug/l	2/Month	Grab
Chromium III (trivalent, total recoverable)	100 ug/l	323 ug/l	2/Month	Grab
Chromium VI (hexavalent, total recoverable)	40.28 ug/l	323 ug/l	2/Month	Grab
Copper (total recoverable)	2.98 ug/l	4.62 ug/l	2/Month	Grab
Lead (total recoverable)	6.81 ug/l	160 ug/l	2/Month	Grab
Mercury (total recoverable)	0.12 ug/l	1.69 ug/l	2/Month	Grab
Nickel (total recoverable)	6.62 ug/l	59.79 ug/l	2/Month	Grab
Selenium (total recoverable)	56.91 ug/l	232.46 ug/l	2/Month	Grab

Silver (total recoverable)	1.78 ug/l	1.78 ug/l	2/Month	Grab
Zinc (total recoverable)	68.5 ug/l	76.11 ug/l	2/Month	Grab
Iron (total recoverable)	---	1000 ug/l	2/Month	Grab

Description of footnotes and symbols applicable to all monitoring classes:

[1]In accordance with Part I.B.2, the DEM reserves the right to increase monitoring frequency based on factors including, but not limited to, quality of influent data and duration of project.

[2]In accordance with Part II.B.2 during the first month of discharge additional sampling requirements are applicable.

[3]Monitor flow and submit a flow log with the monitoring results. The flow log shall include the rate and duration of flow including the time(s) of day when flow commences and ceases. At a minimum, the flow must be reported each time a sample is collected.

[4]The limit at which compliance/noncompliance determinations will be based is the Quantitation Limit (QL), which is listed for each pollutant in Part II.G of this permit. Measurements at or below the QL from Part II.G shall be deemed to be compliant. Measurements above the QL from Part II.G shall be deemed noncompliant. The QLs may be reduced by permit modification as more sensitive methods are approved by EPA and the State.

[5]Ethanol shall be analyzed using EPA method 1671.

---Signifies a parameter which must be monitored and data must be reported; no limit has been established at this time.

xxx Signifies a parameter which will be limited based upon the design plans and specifications for each project.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the effluent of a groundwater treatment system in accordance with Part II.B. The two (2) grab samples taken per month shall be separated by a minimum of ten (10) days.

E. Metals Effluent Limitations (ug/l)

Dilution Range: <5

Water Body Classification Limit Type	Class AA Freshwater Monthly Average	Class AA Freshwater Daily Maximum	Non-Class AA Freshwater Monthly Average	Non-Class AA Freshwater Daily Maximum
Antimony	4.48	206	8	206
Arsenic	0.14[1]	104	1.12	104
Cadmium	0.08[1]	0.42	0.08[1]	0.42
Chromium III	22.15	323	22.15	323
Chromium VI	9.15	13.03	9.15	13.03
Copper	2.28	3.03	2.28	3.03
Lead	0.44	11.18	0.44	11.18
Mercury	0.13	0.739	0.14	0.739
Nickel	12.92	116.17	12.92	116.17
Selenium	4	16	4	16
Silver	---	0.3	---	0.3
Zinc	29.61	29.61	29.61	29.61
Iron	240	5000	800	5000

Dilution Range: 5 to 10

Water Body Classification Limit Type	Class AA Freshwater Monthly Average	Class AA Freshwater Daily Maximum	Non-Class AA Freshwater Monthly Average	Non-Class AA Freshwater Daily Maximum
Antimony	22.4	206	40	206
Arsenic	0.7[1]	104	5.6	104
Cadmium	0.4	2.1	0.4	2.1
Chromium III	110.75	323	110.75	323
Chromium VI	45.75	65.15	45.75	65.15
Copper	11.4	15.15	11.4	15.15
Lead	2.2	55.9	2.2	55.9
Mercury	0.65	0.739	0.7	0.739
Nickel	64.6	580.85	64.6	580.85
Selenium	20	80	20	80
Silver	---	1.5	---	1.5
Zinc	148.05	148.05	148.05	148.05
Iron	1200	5000	4000	5000

Dilution Range: 10 to 20

Water Body Classification Limit Type	Class AA Freshwater Monthly Average	Class AA Freshwater Daily Maximum	Non-Class AA Freshwater Monthly Average	Non-Class AA Freshwater Daily Maximum
Antimony	44.8	206	80	206
Arsenic	1.4	104	11.2	104
Cadmium	0.8	4.2	0.8	4.2
Chromium III	221.5	323	221.5	323
Chromium VI	91.5	130.3	91.5	130.3
Copper	22.8	30.3	22.8	30.3
Lead	4.4	111.8	4.4	111.8
Mercury	0.739	0.739	0.739	0.739
Nickel	129.2	1161.7	129.2	1161.7
Selenium	40	160	40	160
Silver	---	3	---	3
Zinc	296.1	296.1	296.1	296.1
Iron	2400	5000	5000	5000

Dilution Range: 20 to 40				
Water Body Classification Limit Type	Class AA Freshwater Monthly Average	Class AA Freshwater Daily Maximum	Non-Class AA Freshwater Monthly Average	Non-Class AA Freshwater Daily Maximum
Antimony	89.6	206	160	206
Arsenic	2.8	104	22.4	104
Cadmium	1.6	8.4	1.6	8.4
Chromium III	323	323	323	323
Chromium VI	183	260.6	183	260.6
Copper	45.6	60.6	45.6	60.6
Lead	8.8	160	8.8	160
Mercury	0.739	0.739	0.739	0.739
Nickel	258.4	1450	258.4	1450
Selenium	80	235.8	80	235.8
Silver	---	6	---	6
Zinc	420	420	420	420
Iron	4800	5000	5000	5000

Dilution Range: 40 to 60				
Water Body Classification Limit Type	Class AA Freshwater Monthly Average	Class AA Freshwater Daily Maximum	Non-Class AA Freshwater Monthly Average	Non-Class AA Freshwater Daily Maximum
Antimony	179.2	206	206	206
Arsenic	5.6	104	44.8	104
Cadmium	3.2	10.2	3.2	10.2
Chromium III	323	323	323	323
Chromium VI	323	323	323	323
Copper	91.2	121.2	91.2	121.2
Lead	17.6	160	17.6	160
Mercury	0.739	0.739	0.739	0.739
Nickel	516.8	1450	516.8	1450
Selenium	160	235.8	160	235.8
Silver	---	12	---	12
Zinc	420	420	420	420
Iron	5000	5000	5000	5000

Dilution Range: ≥ 60				
Water Body Classification Limit Type	Class AA Freshwater Monthly Average	Class AA Freshwater Daily Maximum	Non-Class AA Freshwater Monthly Average	Non-Class AA Freshwater Daily Maximum
Antimony	206	206	206	206
Arsenic	8.4	104	67.2	104
Cadmium	4.8	10.2	4.8	10.2
Chromium III	323	323	323	323
Chromium VI	323	323	323	323
Copper	136.8	181.8	136.8	181.8
Lead	26.4	160	26.4	160
Mercury	0.739	0.739	0.739	0.739
Nickel	775.2	1450	775.2	1450
Selenium	235.8	235.8	235.8	235.8
Silver	---	18	---	18
Zinc	420	420	420	420
Iron	5000	5000	5000	5000

[1] The limit at which compliance/noncompliance determinations will be based is the Quantitation Limit (QL), which is listed for each pollutant in Part II.G of this permit. Measurements at or below the QL from Part II.G shall be deemed to be compliant. Measurements above the QL from Part II.G shall be deemed noncompliant. The QLs may be reduced by permit modification as more sensitive methods are approved by EPA and the State.

F. NOTICE OF INTENT REQUIREMENTS

1. OWNER - Provide the legal name of the person, firm, public, municipal organization, or any other entity that owns the site described in the application. The name of the owner may or may not be the same as the name of the site. Provide the complete mailing address, telephone number and email address of the owner/contact person and title.

2. OPERATOR - Provide the legal name of the person, firm, public, municipal organization or any other entity that has day-to-day operations of the site described in this application. The complete mailing address of the operator along with the name, telephone number, and email address of the designated contact person is required as part of the application.

3. SITE INFORMATION

   a. The applicant must provide a brief history of the site, the source of contamination, a description of the proposed remedial and/or dewatering activity creating the discharge, all available analytical data on impacted groundwater, a site plan showing location of monitoring and recovery wells, discharge point and receiving water, and a topographic map depicting the site location extending at least one (1) mile beyond the property boundaries of the facility that clearly shows the legal boundaries of the facility and the location of each intake and outfall structure.

   b. The applicant must provide the facility/site name, longitude and latitude, and the four digit SIC code that best represents the principal products or activities associated with the facility. The facility/site location (address, city, state, and zip) must also be provided. Each applicant must also state the type of spill or release pertaining to this NOI and the approximate duration of the project.

   c. For the site in which the application is being submitted indicate if a prior RIPDES permit has been granted for the discharge. The application must include the prior RIPDES permit number if applicable.

   d. For the site in which the application is being submitted indicate whether a prior RIPDES application has ever been filed for the discharge. If yes, please provide the date of the application filed and application number, if available.

   e. For the site which the application is being submitted indicate whether the site/facility is currently covered by any other RIPDES permit including but not limited to: the RIPDES Multi-Sector Storm Water General Permit, the RIPDES Construction Storm Water General Permit, or an Individual RIPDES Permit, if so this information along with any applicable permit numbers must be provided with the application.

   f. For the site in which the application is being submitted indicate whether the site/facility is subject to any other DEM permitting or any other action required by DEM, which is causing the generation of the discharge. If applicable, the applicant must provide the applicable permit number and the associated DEM contact name with the application.

   g. The applicant must provide a description of the discharge activities for which the owner/applicant is seeking coverage.

   h. The applicant must provide the following information about each discharge: the number of discharge points and the maximum and average flow rate of the discharge in cubic feet per second.

   i. For the location of each outfall, the permittee must provide the latitude and longitude of the approximate center of the outfall to the nearest 15 seconds, for which the NOI is being submitted;

   j. If the applicant intends to discharge hydrostatic test waters, the total volume of the discharge must be provided in gallons.

k. The applicant must indicate whether or not the discharge is intermittent or seasonal.

l. The applicant must provide the expected start and end dates of the discharge.

m. Based on the analysis of the sample(s) collected of the untreated influent, the applicant must indicate which sub-category the potential discharge falls within as specified in Table 1 located in Part I.A.2 of the permit.

4. TREATMENT SYSTEM INFORMATION

a. The applicant must provide a complete description of the treatment system including a flow schematic depicting all major control points such as alarms, sensors, valves and treatment units; design calculations on the expected treatment performance including removal efficiency, carbon consumption calculations including unit height and surface area, and the manufacturer's specifications on major components of the treatment system. The applicant must also provide a basis for all design calculations and properly reference all design assumptions in order for calculations to be replicated. Also, include a discussion on the need for iron treatment to address iron scaling and/or iron bacteria buildup. All plans and specifications on all treatment systems must be signed and certified by a professional engineer registered in the State of Rhode Island.

b. The application must identify each applicable treatment unit proposed for use, examples include: Oil/Water Separator, Granular Activated Carbon, Air Stripping, U/V Oxidation, Iron Treatment, Filtration, Ion Exchange, Bag Filters, Equalization Tanks, Air Strippers, Chlorination, Dechlorination, and/or other additional equipment that is not listed. If the system consists of GAC or Ion Exchange, provide time to carbon or resin exhaustion in days. If the system consists of air stripping, provide the air/water ratio.

c. The applicant must provide the proposed treatment system design flowrate, the maximum system capacity and the average flow rate of the treatment system in gallons per minute.

d. The application must indicate any chemical or additive the permittee intends to use or store that will be applied to effluent prior to discharge or may otherwise be present in discharge(s) from the site. Chemicals and additives include, but are not limited to: algaecides/biocides, antifoams, coagulants, corrosion/scale inhibitors, disinfectants, flocculants, neutralizing agents, oxidants, oxygen scavengers, pH conditioners and bioremedial agents, including microbes.

    i. Provide the following information for each chemical or additive:

        a) Product name, chemical formula, and manufacturer of the chemical, additive or remedial agent;

        b) Purpose or use of the chemical/additive;

        c) Safety Data Sheet (SDS) and Chemical Abstracts Service (CAS) Registry number for each chemical/additive;

        d) The frequency (hourly, daily, etc.), duration (hours, days), quantity (maximum and average), and method of application for the chemical/additive;

        e) Any material compatibility risks for storage and/or use including the control measures used to minimize such risks; and

        f) If available, the vendor's reported aquatic toxicity (NOAEL and/or LC50 in percent for aquatic organism(s)).

    ii. Written rationale which demonstrates that the addition of such chemicals/additives:

        a) Will not add any pollutants in concentrations which exceed permit effluent limitations;

b) Will not exceed any applicable State water quality standard; and

c) Will not add any pollutants that would justify the application of permit conditions that are different from or absent in this permit; or

iii. Upon authorization to discharge, chemicals and/or additives which have been specifically disclosed in the NOI may be discharged up to the frequency and level disclosed, provided that such discharge does not violate the conditions of this permit or applicable State water quality standards. The DEM may request additional information to provide authorization to discharge chemicals and/or additives, including but not limited to WET testing. If coverage of the discharge under the RGP has already been granted and the use of a chemical additive becomes necessary, the permittee must notify the DEM and obtain approval prior to using any chemical additives.

5. RECEIVING WATER INFORMATION

a. The application must provide a description of the discharge pathway, including the names of the receiving waters.

b. The application must include a detailed map which indicates the site location and location of the outfall(s) to the receiving water. For multiple discharges, number the discharges sequentially. For indirect discharges, indicate the location of the discharge to the indirect conveyance and the discharge to surface waters. The map must include the location and distance to the nearest sanitary sewer.

c. The application must provide the state water quality classification of the receiving water.

d. If the proposed discharge is to freshwaters, provide the reported or calculated seven-day ten-year low flow (7Q10) of the receiving water in cubic feet per second (cfs) and attach any calculation sheets used to support stream flow and dilution calculations.

6. INFLUENT CHARACTERIZATION

a. Based on the analysis of the untreated influent, the applicant must indicate whether or not each listed chemical is believed present or believed absent in the potential discharge. Sample dates and locations must be provided.

b. For discharges where metals are believed present, the NOI must include the results of at least one (1) influent sample.

7. Any additional information that may be required by the DEM must be included as part of the NOI, if the Director determines that such information is reasonably necessary to determine whether or not to authorize the discharge under this permit.

8. OWNER/OPERATOR CERTIFICATION - The NOI must be signed by the operator(s) and owner(s) certifying under penalty of law that he/she has read and understands the conditions and terms of the above Remediation General Permit and that to the best of his or her knowledge and belief the information provided was true, accurate, and complete. The signatory must also certify that they are aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

9. WHERE TO SUBMIT. A completed and signed NOI must be submitted to the following address in accordance with the schedule in Part I.B.4:

Rhode Island Department of Environmental Management
RIPDES Program
235 Promenade Street
Providence, Rhode Island 02908

10. DEFICIENT NOI. If any portion of the NOI does not meet one or more of the minimum requirements of this part, then the applicant will be notified by a deficiency letter at any point within the review period. It is the responsibility of the applicant to make all required changes and resubmit the NOI. The review period will recommence upon the receipt of the revised NOI.

G. QUANTITATION LIMITS

All analyses of parameters under this general permit must comply with the *National Pollutant Discharge Elimination System (NPDES): Use of Sufficiently Sensitive Test Methods for Permit Applications and Reporting* rule. Only sufficiently sensitive test methods may be used for analyses of parameters under this general permit. The permittee shall assure that all testing required by this permit, is performed in conformance with methods listed in 40 CFR Part 136. In accordance with 40 CFR Part 136, EPA approved analysis techniques, quality assurance procedures and quality control procedures shall be followed for all reports required to be submitted under the RIPDES program. These procedures are described in "Methods for the Determination of Metals in Environmental Samples" (EPA/600/4-91/010) and "Methods for Chemical Analysis of Water and Wastes" (EPA/600/4-79/020).

If after conducting the complete Method of Standard Additions analysis, the laboratory is unable to determine a valid result, the laboratory shall report "could not be analyzed". Documentation supporting this claim shall be submitted along with the monitoring report. If valid analytical results are repeatedly unobtainable, DEM may require that the permittee determine a method detection limit (MDL) for their effluent or sludge as outlined in 40 CFR Part 136, Appendix B.

Therefore, all sample results shall be reported as; an actual value, "could not be analyzed", less than the reagent water MDL, or less than an effluent or sludge specific MDL. The effluent or sludge specific MDL must be calculated using the methods outlined in 40 CFR Part 136, Appendix B. Samples which have been diluted to ensure that the sample concentration will be within the linear dynamic range shall not be diluted to the extent that the analyte is not detected. If this should occur, the analysis shall be repeated using a lower degree of dilution.

When calculating sample averages for reporting on discharge monitoring reports (DMRs):

1. "could not be analyzed" data shall be excluded, and shall not be considered as failure to comply with the permit sampling requirements;

2. results reported as less than the MDL shall be reported as zeros in accordance with the DMR instructions.

All pollutant testing conducted under this permit should meet the following quantitation limits.

Quantitation Limits (QLs)

Parameter	QL (ug/l)	Parameter	QL (ug/l)
Total Suspended Solids	5,000	Benzo (a) Anthracene	0.1
Total Residual Chlorine	10.0	Benzo (a) Pyrene	0.1
Total Petroleum Hydrocarbons	5.0	Benzo (b) Fluoranthene	0.1
Cyanide	5.0	Benzo (k) Fluoranthene	0.1
Benzene	0.5	Chrysene	0.1
Toluene	0.5	Dibenzo (a,h) anthracene	0.1
Ethylbenzene	0.5	Indeno (1,2,3-cd) Pyrene	0.1
Total Xylenes	0.5	Total Group II PAHs	0.5
Total BTEX	0.5	Acenaphthene	0.5
Ethylene dibromide	0.05	Acenaphthylene	0.5
MTBE	0.5	Anthracene	0.5
Tert-Amyl Methyl Ether	0.5	Benzo (ghi) Perylene	0.5
Carbon Tetrachloride	0.5	Fluoranthene	0.5
1,4 Dichlorobenzene	0.5	Fluorene	0.5
1,2 Dichlorobenzene	0.5	Naphthalene	0.5
1,3 Dichlorobenzene	0.5	Phenanthrene	0.5
Total Dichlorobenzene	5.0	Pyrene	0.5
1,1 Dichloroethane	0.5	Total Polychlorinated Biphenyls	0.5
1,2 Dichloroethane	0.5	Ammonia	100
1,1 Dichloroethylene	0.5	Antimony	0.5
Cis-1,2 Dichloroethene	0.5	Arsenic	1.0
Dichloromethane	0.5	Cadmium	0.2
Tetrachloroethene	0.5	Chromium III	1.0
1,1,1 Trichloroethane	0.5	Chromium VI	1.0
1,1,2 Trichloroethane	0.5	Copper	0.5
Trichloroethylene	0.5	Lead	0.2
Vinyl Chloride	0.5	Mercury	0.001
Acetone	10.0	Nickel	0.2
1,4 Dioxane	0.1	Selenium	2.0
Total Phenols	2.0	Silver	0.2
Pentachlorophenol	5.0	Zinc	5.0
Total Phthalates	3.0	Iron	20.0
Bis (2-Ethylhexyl) Phthalate	0.5		
Total Group I PAHs	0.5		

Part III: General Conditions of the Permit

A. Duty to Comply. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of Chapter 46-12 of the Rhode Island General Laws and the Clean Water Act and is grounds for enforcement action which may include permit termination, revocation and reissuance, modification, or denial of a permit renewal application and the imposition of penalties.

1. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the CWA for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate this requirement.

2. Section 309 of the CWA provides significant penalties for any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318 or 405 of the CWA or any permit condition or limitation implementing any such sections in a permit issued under Section 402 of the CWA. Any person who violates any condition of this permit is subject to a civil penalty of up to $25,000 per day of such violation, as well as any other appropriate sanctions provided by Section 309 of the CWA. Section 309(c)(4) of the CWA provides that any person who knowingly makes any false material statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including reports of compliance or noncompliance shall, upon conviction, be punished by a fine of up to $10,000 or by imprisonment of not more than two years, or by both.

3. Chapter 46-12 of the Rhode Island General Laws provides that any person who violates a permit condition is subject to a civil penalty of not more than $25,000 per day of such violation. Any person who willfully or negligently violates a permit condition is subject to a criminal penalty of not more than $25,000 per day of such violation and imprisonment for not more than five (5) years, or both. Any person who knowingly makes any false statement in connection with the permit is subject to a criminal penalty of not more than $5,000 for each instance of violation or by imprisonment for not more than thirty (30) days, or both.

B. Continuation of the Expired General Permit. Provided the permittee has re-applied in accordance with paragraph C. below, an expired general permit continues in force and effect until a new general permit is issued. Only those facilities previously authorized to discharge under the expired permit are covered by the continued permit.

C. Duty to Reapply. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain coverage under a new permit. The permittee shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Director.

D. Need to Halt or Reduce Activity Not a Defense. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

E. Duty to Mitigate. The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

F. Duty to Provide Information. The permittee shall furnish to the Department, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall furnish to the Director any copies of records required to be kept by this permit.

G. Signatory Requirements. All Notices of Intent, reports, certifications or information either submitted to the Director, or that this permit requires to be maintained by the permittee, shall be signed and certified in accordance with §1.12 of the RIPDES Regulations (See 250-RICR-150-10-1.12). Rhode Island General Laws, Chapter 46-12 provides that any person who knowingly makes any false statements, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of up to $5,000 per violation, or by imprisonment for not more than thirty (30) days per violation, or by both.

H. Oil and Hazardous Substance Liability. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the CWA.

I. Release in Excess of Reportable Quantities. If a release in excess of reportable quantities occurs, the permittee must notify the Office of Water Resources immediately. This permit does not relieve the permittee of the reporting requirements of 40 CFR 117 and 40 CFR 302.

J. Property Rights. The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations.

K. Severability. The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.

L. Transfers. This permit is not transferable to any person except after notice to the Director. The Director may require the operator to apply for and obtain an individual permit, as stated in Part III.T of this permit.

M. State Laws. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law.

N. Proper Operations and Maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. Proper operation and maintenance requires the operations of backup or auxiliary facilities or similar systems, installed by a permittee only when necessary to achieve compliance with the conditions of the permit.

O. Monitoring and Records

1. Samples and measurements taken for the purpose of monitoring shall be representative of the volume and nature of the discharge over the sampling and reporting period.

2. The permittee shall retain records of all monitoring including all calibration and maintenance records and all original strip chart recordings from continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least five (5) years from the date of the sample, measurement, report or application. This period may be extended by request of the Director at any time.

3. Records of monitoring information shall include:
   a. The date, exact place, and time of sampling or measurements;

   b. The individual(s) who performed the sampling or measurements;

   c. The date(s) analyses were performed;

   d. The individual(s) who performed the analyses;

   e. The analytical techniques or methods used; and

   f. The results of such analyses.

4. Monitoring must be conducted according to test procedures approved under 40 CFR 136 and applicable Rhode Island regulations, unless other test procedures have been specified in this permit.

5. The CWA provides that any person who falsifies, tampers with, or knowingly renders inaccurate, any monitoring device or method required to be maintained under this permit shall upon conviction, be punished by a fine of up to $10,000 per violation or by imprisonment for not more

than six months per violation, or by both. Chapter 46-12 of the Rhode Island General Laws also provides that such acts are subject to a fine of up to $5,000 per violation, or by imprisonment for not more than thirty (30) days per violation, or by both.

6. Monitoring results must be reported on a Discharge Monitoring Report (DMR) in accordance with Part II.B.4 of the RGP.

7. If the permittee monitors any pollutants more frequently than required by this permit, using test procedures approved under 40 CFR 136, applicable State regulations, or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.

P. Bypass of Treatment System

1. *Anticipated Bypass.* If the permittee knows in advance of the need for a bypass, he or she shall notify this Department in writing at least ten days prior to the date of the bypass. Such notice shall include the anticipated quantity and the anticipated effect of the bypass.

2. *Unanticipated Bypass.* The permittee shall submit notice of an unanticipated bypass. Any information regarding the unanticipated bypass shall be provided orally within twenty-four hours from the time the permittee became aware of the circumstances. A written submission shall also be provided within five days of the time the permittee became aware of the bypass. The written submission shall contain a description of the bypass and its cause; the period of the bypass, including exact dates and times, and if the bypass has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate and prevent reoccurrence of the bypass.

3. *Prohibition of Bypass*

   a. Bypass is prohibited and enforcement action against the permittee may be taken for the bypass unless:

      1. The bypass was unavoidable to prevent loss of life, personal injury or severe property damage;
      2. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated waste, or maintenance during normal periods of equipment downtime. This condition is not satisfied if the permittee should, in the exercise of reasonable engineering judgement, have installed adequate backup equipment to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance; and
      3. The permittee submitted notices as required in paragraphs 1 and 2 above.

   b. The Director may approve an anticipated bypass after considering its adverse effects, if the Director determines that it will meet the three conditions of paragraph 3a, above.

Q. Upset Conditions

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology-based permit limitations if the requirements of paragraph 2 are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.

2. A permittee who wishes to establish an affirmative defense of an upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence, that:

   a. An upset occurred and the permittee can identify the specific causes(s) of the upset;

   b. The permitted facility was at the time being properly operated;

c. The permittee submitted notice of the upset as required in 250-RICR-150-05 §1.14(R); and

d. The permittee complied with any remedial measures required under 250-RICR-150-05 §1.14(E).

3. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

R. Inspection and Entry. The permittee shall allow the Director or an authorized representative of DEM, upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit;

2. Have access to and copy at reasonable times any records that must be kept under the conditions of this permit;

3. Inspect at reasonable times any facilities, equipment, or operations regulated or required under this permit; and

4. Sample or monitor any substances or parameters at any location, at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the CWA or Rhode Island General Law.

S. Permit Actions. This permit may be modified, revoked and reissued, or terminated for cause, including but not limited to: violation of any terms or conditions of this permit; obtaining the permit by misrepresentation or failure to disclose all relevant facts; or a change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not constitute a stay of any permit condition.

T. Requiring an Individual Permit

1. The Director may require any owner or operator authorized to discharge under this permit to apply for and obtain an individual permit. Any interested person may petition the Director to take action under this paragraph. The Director may determine at his or her own discretion that an individual permit is required.

2. Any owner or operator authorized to discharge by this permit may request to be excluded from coverage of this permit by applying for an individual permit. The owner or operator shall submit an individual application (Form 1 and Form 2D or Form 2C) with reasons supporting the request to the Director. The request may be granted, if the reasons cited by the owner or operator are adequate to support the request. The Director shall notify the permittee within a timely fashion as to whether or not the request has been granted.

3. If a permittee requests or is required to obtain coverage under an individual permit, then authorization to discharge under this permit shall automatically be terminated on the date of issuance of the individual permit. Until such time, this permit shall remain fully in force.

U. Reopener Clause. The Director reserves the right to make appropriate revisions to this permit in order to incorporate any appropriate effluent limitations, schedules of compliance, or other provisions which may be authorized under the CWA or State Law. In accordance with §1.16 and §1.24 of the RIPDES regulations (See 250-RICR-150-10-1), if any effluent standard or prohibition, or water quality standard is promulgated under the CWA or under State Law which is more stringent than any limitation on the pollutants limited in this permit, or controls pollutants not limited in the permit; then the Director may promptly reopen the permit and modify or revoke and reissue the permit to conform to the applicable standard.

V. Availability of Reports. Except for data determined to be confidential under Part II.U. below, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the DEM at 235 Promenade Street, Providence Rhode Island. As required by the CWA, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the CWA and under section 46-12-14 of the Rhode Island

General Laws.

W. Confidentiality of Information

1. Any information submitted to DEM pursuant to these regulations may be claimed as confidential by the submitter, consistent with Rhode Island General Law 38-2-2. Any such claim must be asserted at the time of the submission in the manner prescribed on the application form or instructions or, in the case of other submissions, by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, DEM may make the information available to the public without further notice.

2. Claims of confidentiality for the following information will be denied:

   a. The name and address of any permit application or permittee;

   b. Permit applications, permits and any attachments thereto; and

   c. RIPDES effluent data.

X. Right to Appeal. Within thirty (30) days of receipt of notice of final authorization, the permittee or any interested person may submit a request to the Director for an adjudicatory hearing to appeal the decision to be covered under the general permit. The request for a hearing must conform to the requirements of §1.50 of the RIPDES Regulations (See 250-RICR-150-10 §1.50).

RHODE ISLAND POLLUTANT DISCHARGE ELIMINATION SYSTEM (RIPDES)
REMEDIATION GENERAL PERMIT
NOTICE OF INTENT (NOI)
(revised 02/19)

DEM USE ONLY
Date Received
Amount Received $
RIPDES# **RIG**
Approval Date
Data Entry Date
Data Entry Initials
Data Group Number: G2A, G2B, G3A

I. OWNER			
Formal Name:			
Mailing Address:			
City:	State:	Zip:	Phone: ( )
Contact Person:		Title:	
Email Address of Owner:			
II. OPERATOR (if different from owner)			
Formal Name:			
Mailing Address:			
City:	State:	Zip:	Phone: ( )
Contact Person:		Title:	
Email Address of Facility Contact Person:			
III. SITE INFORMATION			

a. Please include the following items as part of the NOI: brief history of the site, the source of contamination; a description of the proposed remedial and/or dewatering activity creating the discharge; all available analytical data on impacted groundwater; a site plan showing location of monitoring and recovery wells, discharge point, and receiving waters; and an 8.5" x 11" photocopy of a USGS 1:24,000 topographic map depicting site location.

Facility/Site Name:			
Facility/Site: Latitude:	Longitude:	SIC code(s) — Primary:	Other:
Facility Type of Ownership: ☐ Federal ☐ State ☐ Private ☐ Other Entity (specify):			
Facility Address:			
City:	State:	Zip:	
Type of Spill or Release:		Approximate Duration of Project:	

b. Has a prior NPDES permit been granted for the discharge? Yes __ No __, if yes number:_____

c. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes __ No __, if yes provide date of application and application number if available.

d. Is the site/facility covered by any other DEM permit including: 1. multi-sector storm water general permit, 2. phase I or II construction storm water general permit, 3. Individual RIPDES Permit, if so please list them below:

_____

e. Is the site/facility subject to any other DEM permitting or other action which is causing the generation of the discharge? Yes __ or No __

If "Yes" please list the applicable permit numbers and DEM contacts here:

_____.

IV. DISCHARGE INFORMATION

a. Describe the discharge activities for which the owner/applicant is seeking coverage:

b. Provide the following information for each discharge:

Number of Discharge Points: _____

Maximum Flow Rate (cubic feet per second): _____ Is the maximum flow a design value? Y__ N__

Average Flow Rate (cubic feet per second): _____

c. Latitude and Longitude of the center of each outfall: pt. 1: lat. _____ _long. _____, pt.2 lat._____ long. _____, pt.3 lat. _____ long. _____, pt.4 lat _____ long _____, pt.5 lat _____ long _____, pt. 6 lat _____ long. _____.

d. If hydrostatic testing, total volume of the discharge (gallons):

e. Is the discharge intermittent ___ or seasonal___?

f. Expected dates of discharge (mm/dd/yy): Start: ____/____/____ End: ____/____/____

g. Based on the analysis of sample(s) of the untreated influent, the applicant must check the box of the sub-categories that the potential discharge falls within:

☐ A) Gasoline Only, ☐ B) Fuel Oils (and Other Oils) Sites, ☐ C) Petroleum Sites Containing Other Pollutants

☐ D) VOC Only Sites, ☐ E) VOC Sites Containing Other Contaminants ☐ F) Sites Containing Primarily Metals

☐ G) Contaminated Construction Dewatering,

☐ H) Aquifer Pump Testing, Well Development, or Rehabilitation of Contaminated Wells

☐ I) Hydrostatic Testing of Pipelines and Tanks ☐ J) Contaminated Sump Discharge

V. TREATMENT SYSTEM INFORMATION

a. **Attach a complete description of the treatment system including**: a flow schematic depicting all major control points (i.e., alarms, sensors, valves) and treatment units; design calculations on the expected treatment performance (i.e., removal efficiency, carbon consumption calculations) including unit height and surface area; and manufacturers' specifications on major components of the treatment system. Also provide a basis for all design calculations and properly reference all design assumptions in order for calculations to be replicated. Include a discussion on the need for iron treatment to address iron scaling and/or iron bacteria build-up. Plans and specifications on all treatment systems must be signed and certified by a professional engineer registered in the State of Rhode Island.

b. Identify each applicable treatment unit (check all that apply):
☐ Oil/Water Separator, ☐ Granular Activated Carbon, ☐ Air Stripping, ☐ U/V Oxidation, ☐ Iron Treatment,
☐ Filtration, ☐ Ion Exchange, ☐ Bag Filter, ☐ Equalization Tanks, ☐ Air Stripper, ☐Chlorination, ☐ Dechlorination,
☐ Other (please specify):_____
If system consists of GAC or Ion Exchange, provide time to carbon or resin exhaustion (days):
If system consists of air stripping, provide air/water ratio:

c. Treatment System Design Flow (gpm):	d. Treatment System Maximum System Capacity (gpm):

e. Average Flow Rate of Treatment System (gpm):

f. Chemical and Additive Information:

(1) Indicate the type(s) of chemical or additive that will be applied to effluent prior to discharge or that may otherwise be present in the discharge(s): (check all that apply)

□ Algaecides/biocides □ Antifoams □ Coagulants □ Corrosion/scale inhibitors □ Disinfectants □ Flocculants □ Neutralizing agents □ Oxidants □ Oxygen □ scavengers □ pH conditioners □ Bioremedial agents, including microbes □ Chlorine or chemicals containing chlorine □ Other; if so, specify:

(2) Provide the following information for each chemical/additive, using attachments, if necessary:
a. Product name, chemical formula, and manufacturer of the chemical/additive;
b. Purpose or use of the chemical/additive or remedial agent;
c. Material Safety Data Sheet (MSDS) and Chemical Abstracts Service (CAS) Registry number for each chemical/additive;
d. The frequency (hourly, daily, etc.), duration (hours, days), quantity (maximum and average), and method of application for the chemical/additive;
e. Any material compatibility risks for storage and/or use including the control measures used to minimize such risks; and
f. If available, the vendor's reported aquatic toxicity (NOAEL and/or LC50 in percent for aquatic organism(s)).

VI. RECEIVING WATER INFORMATION

a. Identify the discharge pathway: ☐ Direct, ☐ Indirect, ☐ Storm Drain, ☐ River/brook, ☐ Wetlands,

☐ Other (describe): _____

b. Provide a narrative description of the discharge pathway, including the names of the receiving waters:

c. Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water:

1. For multiple discharges, number the discharges sequentially.

2. For indirect discharges, indicated the location of the discharge to the indirect conveyance and the discharge to surface waters. The map should include the location and distance to the nearest sanitary sewer.

d. Provide the Water Quality Classification of the receiving water: _____.

e. If the proposed discharge is to freshwaters, provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water for the point of discharge in cubic feet per second (cfs): _____. Attach any calculation sheets used to support stream flow and dilution calculations.

f. Is the receiving water a listed 303(d) water quality impaired or limited water? ☐ Yes ☐ No, If yes for which pollutant(s)?:

g. Is there a TMDL? ☐ Yes ☐ No If Yes, for which pollutants?

VII. INFLUENT CHARACTERIZATION (attach raw analytical data, include sample date and location)							
Pollutant	**Believed Absent (Y/N)**	**Believed Present (Y/N)**	**Sample Type And Number**	**Test Method Minimum Level**	**Average (ug/l)**	**Max. (ug/l)**	**Design (ug/l)**
Ammonia							
Ethanol							
Total Suspended Solids							
Total Residual Chlorine							
Total Petroleum Hydrocarbons							
Cyanide							
Benzene							
Toluene							
Ethylbenzene							
Total Xylenes (m,p,o)							
Total BTEX							
Ethylene dibromide							
Methyl-t-Butyl Ether (MTBE)							
Tert-Amyl Methyl Ether							
Carbon Tetrachloride							
1,4 Dichlorobenzene							
1,2 Dichlorobenzene							
1,3 Dichlorobenzene							
Total Dichlorobenzene							
1,1 Dichloroethane							
1,2 Dichloroethane							
1,1 Dichloroethylene							
cis - 1,2 Dichloroethylene							
Dichloromethane							
Tetrachloroethylene							
1,1,1 Trichloroethane							
1,1,2 Trichloroethane							
Trichloroethylene							
Vinyl Chloride							
Acetone							
1,4 Dioxane							
Total Phenols							
Pentachlorophenol							
Total Phthalates							

VII. INFLUENT CHARACTERIZATION (attach raw analytical data, include sample date and location)							
Pollutant	**Believed Absent (Y/N)**	**Believed Present (Y/N)**	**Sample Type And Number**	**Test Method Minimum Level**	**Average (ug/l)**	**Max. (ug/l)**	**Design (ug/l)**
Bis (2-Ethylhexyl) Phthalate							
Total Group I PAHs							
Benzo (a) Anthracene							
Benzo (a) Pyrene							
Benzo (b) Fluoranthene							
Benzo (k) Fluoranthene							
Chrysene							
Dibenzo (a,h) anthracene							
Indeno (1,2,3-cd) Pyrene							
Total Group II PAHs							
Acenaphthene							
Acenaphthylene							
Anthracene							
Benzo (ghi) Perylene							
Fluoranthene							
Fluorene							
Naphthalene							
Phenanthrene							
Pyrene							
Total Polychlorinated Biphenyls							
Antimony							
Arsenic							
Cadmium							
Chromium III (trivalent, total recoverable)							
Chromium VI (hexavalent, total recoverable)							
Copper							
Lead (total recoverable)							
Mercury							
Nickel (total recoverable)							
Selenium							
Silver							
Zinc (total recoverable)							
Iron (total recoverable)							
Other (describe):							

VIII. OWNER/OPERATOR CERTIFICATION

I certify under penalty of law that I have read and understood all terms and conditions of the above-referenced General Permit. I also certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system design to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.

Print Owner's Name: _____

Print Owner's Title: _____

Signature: _____ Date: _____

Print Operator's Name:_____

Print Operator's Title: _____

Signature: _____ Date: _____

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Office of Water Resources

INSTRUCTIONS FOR THE RI POLLUTANT DISCHARGE ELIMINATION SYSTEM (RIPDES)
NOTICE OF INTENT (NOI) FOR THE REMEDIATION GENERAL PERMIT (RGP)

(Revised 02/19)

WHO MUST FILE A NOTICE OF INTENT (NOI) FORM

Discharges of treated wastewaters, associated with the activities listed in Part I.A of the RGP, to Waters of the State are prohibited without a RIPDES permit. The owner or operator of these activities must submit a NOI to obtain coverage under the RIPDES RGP. If you have questions about whether you need a permit under the RIPDES program contact the Rhode Island Department of Environmental Management, Office of Water Resources at (401) 222-4700.

An originally signed NOI form must be sent to:

RIDEM – Office of Water Resources
RIPDES Program
235 Promenade Street
Providence, Rhode Island 02908

Please be sure to keep a copy for your files.

FEES

If the discharge was not previously authorized under the RIPDES program, a $400 non-refundable fee is required to be submitted. Please follow the directions on the Application Fee Form (available online at http://www.dem.ri.gov/programs/benviron/water/permits/ripdes/pdfs/apfeenew.pdf). Note that all facilities are subject to an annual fee in accordance with the *Rules and Regulations Governing the Establishment of Various Fees* (available online at: http://www.dem.ri.gov/pubs/regs/regs/water/feereg07.pdf).

COMPLETING THE FORM

You must type or print in the appropriate areas only. Abbreviate if necessary to save space.

SECTION I – OWNER

Give the legal name of the person, firm, public, municipal organization, or any other entity that owns the site described in this application. The name of the owner may or may not be the same as the name of the site. Enter the complete address, telephone number and email address of the owner/contact person and title. Check the appropriate choice indicating if the owner is a Federal, State/Tribal, Private or other entity (e.g. Corporation, County Government, District, Mixed Ownership (Public/Private), Municipal or Water District, Municipality, Non-Government, School District, etc.).

SECTION II – OPERATOR

Complete this section only if the Operator is different from the Owner. Give the legal name of the person, firm, public (municipal) organization or any other entity that has day-to-day operations of the site described in this application. Please provide complete mailing address city, state and zip of the operator. Also, include the contact person, title and email address.

SECTION III - SITE INFORMATION

a. Include the following items as part of the NOI: a brief history of the site, the source of contamination, a description of the proposed remedial and/or dewatering activity creating the discharge, all available analytical data on impacted groundwater, a site plan showing location of monitoring and recovery wells, discharge point and receiving water, and an 8.5" x 11" photocopy of a USGS 1:24,000 topographic map (or equivalent map) depicting the site location.

   Provide the facility/site name, latitude and longitude (in decimal degrees in WGS84 coordinate system), and SIC code(s). Provide the facility/site location (address, city, state and zip) and phone number. State the type of spill or release pertaining to this NOI and the approximate duration of the project.

b. For the site in which the application is being submitted indicate where a prior RIPDES permit has been granted for the discharge. Yes or No. If yes, provide the RIPDES permit number.

c. For the site in which the application is being submitted indicate whether a prior RIPDES application has ever been filed for the discharge. Yes or No. If yes, provide the date of the application filed and application number, if available.

d. For the site in which the application is being submitted indicate whether the site/facility is covered

by any other DEM permit including, but not limited to: Multi-Sector Industrial Stormwater General Permit (MSGP), Construction Stormwater General Permit (CGP), Individual RIPDES Permit, if so list them and provide permit numbers.

e. For the site in which the application is being submitted indicate where the site/facility is subject to any other DEM permitting or other action, which is causing the generation of the discharge. Yes or No. If Yes, provide the applicable permit number and the DEM contact in the space provided.

SECTION IV - DISCHARGE INFORMATION

a. Describe the discharge activities for which the owner/applicant is seeking coverage. Attach additional sheets if necessary.

b. Provide the following information about each discharge: the number of discharge points and the maximum and average flow rate of the discharge in cubic feet per second. If the maximum flow a design value please checks indicate with a check mark.

c. For each discharge indicate latitude and longitude (in decimal degrees in WGS84 coordinate system) within 100 feet.

d. If hydrostatic testing, state the total volume of the discharge in gallons.

e. Indicate if the discharge intermittent or seasonal.

f. Provide the expected start and end dates of discharge (month/day/year).

g. Based on the analysis of sample(s) of the untreated influent, the applicant must check the box of the sub-categories that the potential discharge falls within.

SECTION V - TREATMENT SYSTEM INFORMATION

a. Attach a complete description of the treatment system including a flow schematic depicting all major control points such as alarms, sensors, valves and treatment units; design calculations on the expected treatment performance such as removal efficiency, carbon consumption calculations including unit height and surface area, and manufacturer's' specifications on major components of the treatment system. Provide the basis for all design calculations and properly reference all design assumptions in order for calculations to be replicated. Also, include a discussion on the need for iron treatment to address iron scaling and/or iron bacteria build-up. Please note that the plans and specifications on all treatment systems must be signed and certified by a professional engineer registered in the State of Rhode Island.

b. Identify each applicable treatment unit, check all that apply: Oil/Water Separator, Granular Activated Carbon (GAC), Air Stripping, U/V Oxidation, Iron Treatment, Filtration, Ion Exchange, Bag Filter, Equalization Tanks, Air Stripper, Chlorination, Dechlorination, and/or other additional equipment that is not listed. If the system consists of GAC or Ion Exchange, provide time to carbon or resin exhaustion in days. In accordance with Part II.A.7.b of the RGP, if the treatment system includes either GAC of Ion Exchange, the time to exhaustion of the entire system must be greater than either then (10) days beyond the anticipated period of discharge or sixty (60) days, whichever is less. If the system consists of air stripping, provide air/water ratio.

c-e In the corresponding space, provide the proposed treatment system design flow, maximum system capacity and average flow rate of the treatment system in gpm.

f. Describe any chemical additives being used, or planned to be used, in accordance with the requirements of Part II.F.4.d of the RGP and attach MSDS sheets for each. Please provide information regarding the chemical composition of the additive(s), potential toxic effects, or other information to ensure that approval of the use of the additive(s) will not cause or contribute to a violation of State water quality standards. Approval of coverage under the RGP will constitute approval of the use of the chemical additive(s). If coverage of the discharge under the RGP has already been granted and the use of a chemical additive becomes necessary, the permittee must obtain written approval from the RIPDES Program prior to using any additives not identified in the original NOI.

SECTION VI - RECEIVING WATER INFORMATION

Determine the water body and if the receiving water body is impaired:

- Step 1: Go to: http://www.dem.ri.gov/maps/index.htm
- Step 2: Select Environmental Resource Map.
- Step 3: Click on the "Layer List" button on the upper right-hand side of the map.
- Step 4: Activate the appropriate layer by selecting the "Surface Water" status box in the drop-down menu.
- Step 5: Search for the facility by entering the facility address in the search box in the upper left hand corner of the map.

- Step 6: Find the ultimate receiving water and click on the receiving water body in the vicinity of the ultimate discharging point to obtain the necessary information to be entered into the NOI. Information regarding the receiving water body will be shown in a pop-up box on the screen, such as the name of the water body, water body ID number, TMDL status, and impaired water body status.

a. Identify the discharge pathway by checking whether it is discharged directly to the receiving water, within the facility (e.g., through a sewer drain), to a storm drain, to a river or brook, to a wetland or other receiving body. If other, describe.

b. Provide a narrative description of the discharge pathway, including the names of the receiving waters.

c. Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water. For multiple discharges, number the discharges sequentially. For indirect discharges, indicate the location of the discharge to the indirect conveyance and the discharge to surface waters. The map should also include the location and distance to the nearest sanitary sewer as well as a locus of nearby sensitive receptors, such as surface waters, drinking water supplies and wetland areas.

d. Provide the water quality classification of the receiving water.

e. If the proposed discharge is to freshwaters complete the attached 'Dilution Determination Worksheet' to determine the 7Q10 flow at the point of discharge by using the online USGS application StreamStats (http://water.usgs.gov/osw/streamstats). Once the 7Q10 flow has been determined using StreamStats, use the following formula to calculate the dilution factor:

$$DF = \frac{\{(7Q10) + (\text{Treatment System Design Flow})\}}{\{\text{Treatment System Design Flow}\}}$$

Please note that DEM shall use a dilution factor of one (1) for all discharges to saltwater bodies, lakes, ponds, and wetlands. DEM also reserves the right to specify the dilution factor to be used in a given watershed. If a point of discharge is located in a watershed without a USGS gage that StreamStats doesn't compile a report for, then one of the following methods may be used to estimate the 7Q10:

1. USGS Report 95-4299, *Low-Flow Characteristics of Selected Streams in Northern Rhode Island.*- This report uses an equation based on statistical methods to estimate the 7Q10 flow of selected streams with partial record stations. Flow data from an index station is required.

2. USGS Report 93-4046, *Low-Flow Characteristics of Selected Streams in Rhode Island.*- This report provides an equation to estimate the 7Q10 flow at ungauged sites based on the drainage area and the distribution of geologic materials in the drainage area. The areas of the drainage basin underlain by coarse-grained stratified drift and underlain by till-covered bedrock are required to use this method.

3. USGS Report 93-4092, *Effects of Surficial Geology, Lakes and Swamps, and Annual Water Availability of Low Flows of Streams in Central New England and Their Use in Low-Flow Estimation.* - This report contains equations to estimate the 7Q10 flow using information regarding surficial geology, area of swamps and lakes, mean basin elevation, mean runoff, main stream length channel, and drainage basin area.

These reports can be obtained by contacting the DEM.

f. Is the receiving water a listed 303(d) water quality impaired or limited water? If yes, for which pollutants?

g. Is there a TMDL? If so which pollutants?

h. Are any listed or threatened or endangered species, or designated critical habitat in proximity to the discharge. If yes, please list.

SECTION VII - INFLUENT CHARACTERIZATION

a. Based on the analysis of the untreated influent, the applicant must indicate where each listed chemical is believed present or believed absent in the potential discharge. Include the sample date and location. Attach additional sheets if necessary.

b. For discharges where metals are believed present, indicate where any metals in the influent have a reasonable potential to exceed the effluent limit in Part II.E of the Remediation General Permit. If yes, which metals?

c. For any metals which have reasonable potential to exceed the limits in Part II.E of the Remediation General Permit, provide the dilution factor applicable for metals.

d. Look up the limit calculated at the corresponding dilution factor in Part II.E of the RGP. Do any of the metals in the influent have the potential to exceed the corresponding effluent limits in Part II.E (i.e. Is the influent concentration above the limit set at the calculated dilution factor). If yes, which metals?

SECTION VIII - OWNER/OPERATOR CERTIFICATION

The NOI must be signed by the operator and owner certifying under penalty of law that s/he has read and understands the conditions and terms of the RGP and that to the best of knowledge and belief the information reported was true, accurate and complete. The signatory(ies) are also aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations. Print and sign your name. Also provide the date and title of signatory.

R.I. DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
Office of Water Resources

APPLICATION(S) FEES FORM

Please complete the information below and **submit this completed form and your check (payable to "R.I. General Treasurer") for the appropriate fee directly to**:

R.I. Department of Environmental Management
Office of Management Services
235 Promenade Street
Providence, RI 02908

***** FEES ARE NOT REFUNDABLE *****

APPLICANT'S NAME: _____

OWNER'S NAME: _____

SITE LOCATION: _____

APPLICATION TYPE (Permit, Order of Approval): **RIPDES General Permit (Remediation) - $400**

NOTE: The application and all accompanying documents, including a copy of this fee form and method of payment, should be submitted to the Office of Water Resources, RIPDES Program, 235 Promenade Street, Providence, RI 02908-5767. Application review will be initiated only upon receipt of the complete application and fee.

FOR OFFICE USE ONLY

OMS Receipt Date: _____

Fee Amount Received: _____

Processor Initials: _____

OWR Telephone Number (401) 222-4700
OWR Telefax Number (401) 222-6177
DEM Telecommunications for the Deaf Dial 711

Dilution Determination Worksheet for use with the RIPDES Remediation General Permit

Dilution Factor (DF)

A DF for sites that discharge to freshwater receiving waters in Rhode Island is calculated using the equation below (Item 4). Alternate calculation methods for DFs may be acceptable if approved by the DEM. A DF for sites that discharge to saltwater receiving waters or non-flowing freshwater bodies (ponds or lakes) in Rhode Island is assumed to be 1:1, unless otherwise approved on a case-by-case basis by the DEM.

1. Using StreamStats: This online application is appropriate for determining drainage area ratios for nearby gages and uses the 7Q10s for available gages from the U.S. Geological Gazetteer reports (1984 Wandle et al.). StreamStats is available at:

   http://water.usgs.gov/osw/streamstats

2. Follow the instructions in StreamStats. The location chosen must be where the treated groundwater or other treated wastewater discharges to the receiving water body. When the location has been chosen and the basin delineated, select the "Low-Flow Statistics" for the Regression Based Scenario. Then click Continue. This will bring up the Build a Report section. Again, click Continue.

3. Include a printout or otherwise attach the StreamStats Report with the Notice of Intent. An example StreamStats Report is included on the following page. The report should contain the 7 Day 10 Year Low Flow value for the selected location.

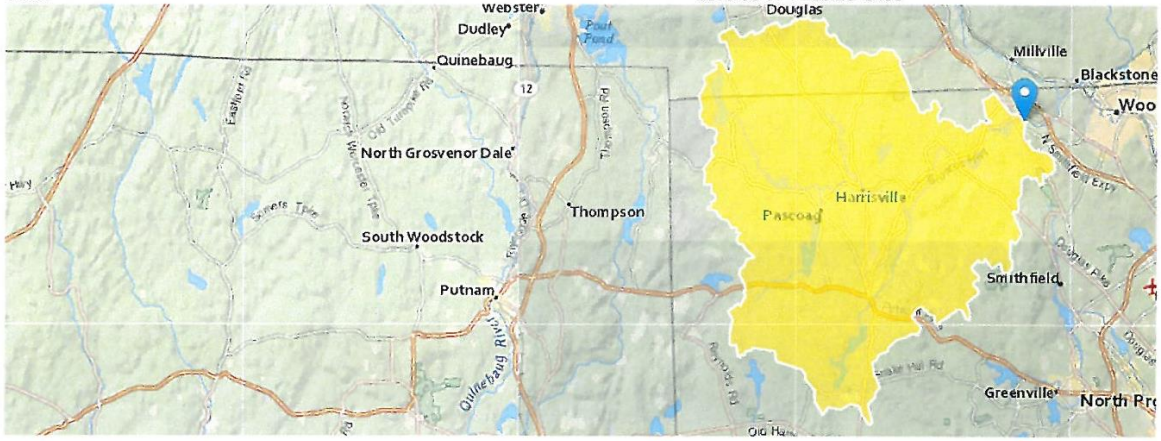
4. Calculate the dilution factor. 7Q10 indicates the "7 Day 10 Year Low Flow" as printed on the StreamStats Report. Use the following formula:

$$DF = \frac{\{(7Q10) + (\text{Treatment System Design Flow})\}}{\{\text{Treatment System Design Flow}\}} =$$

EXAMPLE STREAMSTATS REPORT:

StreamStats Report

Region ID:	RI
Workspace ID:	RI20180831155611140000
Clicked Point (Latitude, Longitude):	41.99838, -71.57297
Time:	2018-08-31 11:56:26 -0400



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	89.8	square miles
STRDENED	Stream Density -- total length of streams divided by drainage area, edited from NHD	2.21	miles per square mile

Low-Flow Statistics Parameters [100 Percent (89.8 square miles) Statewide Low Flow 2014 5010]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	89.8	square miles	0.52	294
STRDENED	Stream Density Edited	2.21	miles per square mile	0.94	3.49

Low-Flow Statistics Flow Report [100 Percent (89.8 square miles) Statewide Low Flow 2014 5010]

PII: Prediction Interval-Lower, Plu: Prediction Interval-Upper, SEp: Standard Error of Prediction, SE: Standard Error (other -- see report)

Statistic	Value	Unit	PII	Plu
7 Day 2 Year Low Flow	18.9	ft^3/s	4.08	87.4
7 Day 10 Year Low Flow	9.15	ft^3/s	1.17	71.3

Low-Flow Statistics Citations

Bent, G.C., Steeves, P.A., and Waite, A.M.,2014, Equations for estimating selected streamflow statistics in Rhode Island: U.S. Geological Survey Scientific Investigations Report 2014–5010, 65 p. (http://dx.doi.org/10.3133/sir20145010)

RHODE ISLAND POLLUTANT DISCHARGE ELIMINATION SYSTEM (RIPDES)
REMEDIATION GENERAL PERMIT
NOTICE OF TERMINATION (NOT)
(revised 02/19)

DEM USE ONLY
Date Received
Amount Received $
RIPDES# **RIG**
Approval Date
Data Entry Date
Data Entry Initials

I. General Site Information. Please provide the following information about the site:			
a. Name of Facility/Site:			
b. Facility/Site address:			
c. RIPDES Permit Number:			
d. Photos documenting the capping or elimination of piping connecting the discharge to the receiving water must be provided as an attachment in order to process this permit termination request.			
II. Owner Information			
Legal Name:			
City:	State:	Zip:	Phone: ( )
Contact Person:		Title:	
Email Address of Contact Person:			
III. Operator Information			
Legal Name:			
City:	State:	Zip:	Phone: ( )
Contact Person:			
Email Address of Contact Person:			

IV. OWNER/OPERATOR CERTIFICATION

I certify under penalty of law that all discharges from the identified facility that are authorized by the "RIPDES Remediation General Permit" have been terminated. I understand that by submitting this Notice of Termination (NOT), I am no longer authorized to discharge waters covered by the RIPDES Remediation General Permit and that discharging pollutants from the activity covered by the RIPDES Remediation General Permit is unlawful under the Clean Water Act where the discharge is not authorized by a permit. I also understand that the submission of this NOT does not release an owner/operator from liability for any violation of the RIPDES Remediation General Permit or the Clean Water Act.

Print Owner's Name: _____

Print Owner's Title: _____

Signature: _____ Date: _____

Print Operator's Name: _____

Print Operator's Title: _____

Signature: _____ Date: _____

RHODE ISLAND POLLUTANT DISCHARGE ELIMINATION SYSTEM (RIPDES)
REMEDIATION GENERAL PERMIT (RGP)
NOTICE OF TERMINATION (NOT)

INSTRUCTIONS

In accordance with Part I.B.5 of the RGP, operators of facilities and/or operations authorized under this permit shall notify the DEM of the termination of discharge(s) authorized under the general permit. The NOT must be completed and submitted within thirty (30) days of the end of discharge(s).

A. Instructions for the NOT – The NOT requires the following information:

I. General Site Information

a. Name of the facility
b. Address of the facility or site for which the notification is submitted
c. RIPDES Permit Number assigned in which the NOT is being submitted
d. Photos or other documentation that capping or elimination of piping connecting the discharge to the receiving water. If this information is not received, your Termination application/ request will not be processed.

II. Owner Information

a. Legal name of owner
b. Address of owner which includes the City, State, and Zip.
c. Phone number of owner
d. The name of the contact person including their title.
e. Email address of the contact person.

III. Operator Information

a. Legal name and address of the entity who operates the facility
b. Contact name, title, address, telephone number and email address of the operators who runs the facility for the permit in which termination is being submitted

IV. Owner/Operator Certification

Signature of the above responsible parties, owner and operator, submitting the NOT claiming that discharging activities are no longer taking place. By signing the NOT does not release the owner/operator from liability for any violation of the RIPDES Remediation General Permit or the Clean Water Act.

The original NOT must be sent to: RIDEM - Office of Water Resources – RIPDES Section – 235 Promenade St., Providence, RI 02908

Addendum No. 1
Attachment 7: Drawings to be Replaced

BENCHMARKS

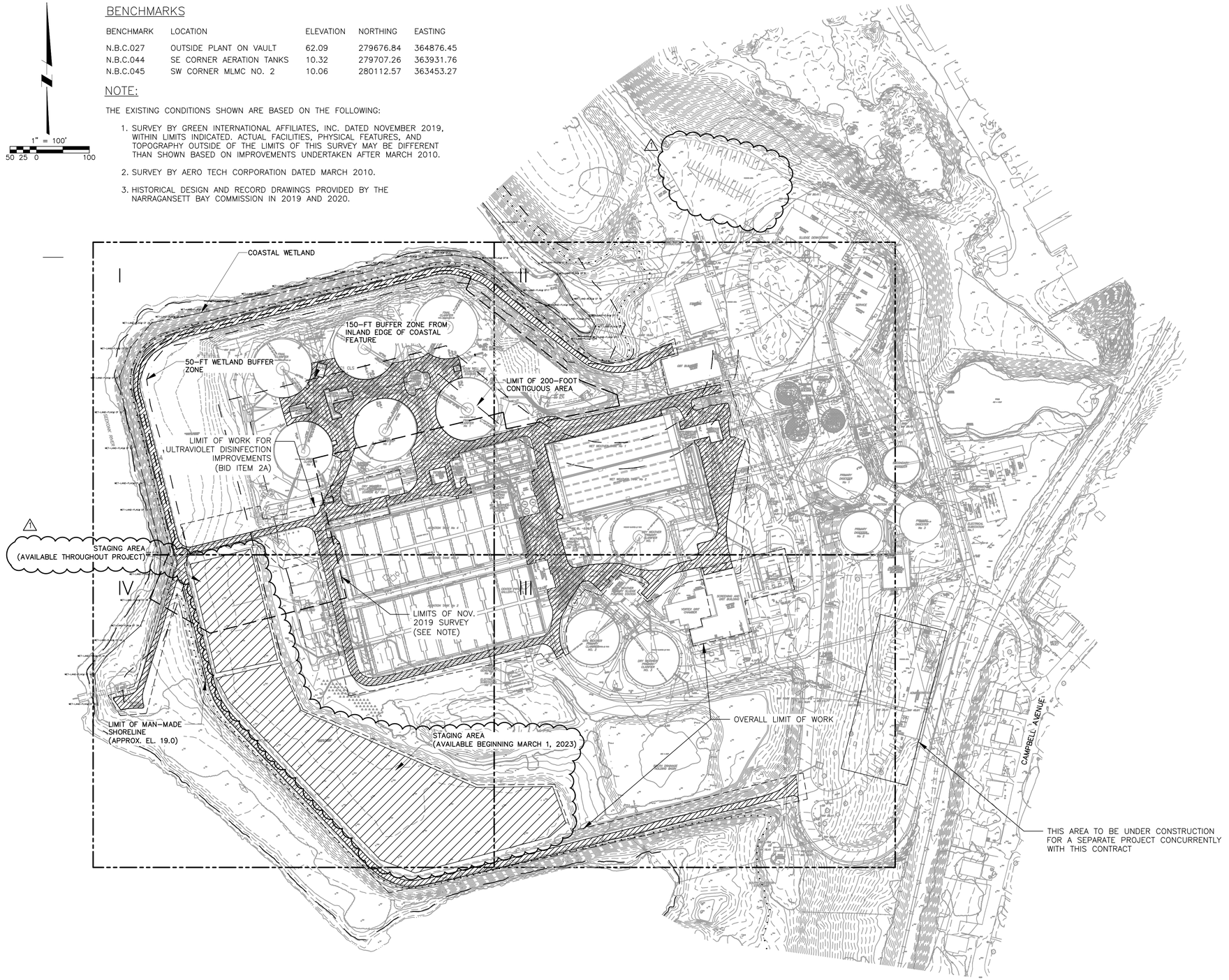
BENCHMARK	LOCATION	ELEVATION	NORTHING	EASTING
N.B.C.027	OUTSIDE PLANT ON VAULT	62.09	279676.84	364876.45
N.B.C.044	SE CORNER AERATION TANKS	10.32	279707.26	363931.76
N.B.C.045	SW CORNER MLMC NO. 2	10.06	280112.57	363453.27

1" = 100'
50 25 0 100

NOTE:

THE EXISTING CONDITIONS SHOWN ARE BASED ON THE FOLLOWING:

1. SURVEY BY GREEN INTERNATIONAL AFFILIATES, INC. DATED NOVEMBER 2019, WITHIN LIMITS INDICATED. ACTUAL FACILITIES, PHYSICAL FEATURES, AND TOPOGRAPHY OUTSIDE OF THE LIMITS OF THIS SURVEY MAY BE DIFFERENT THAN SHOWN BASED ON IMPROVEMENTS UNDERTAKEN AFTER MARCH 2010.
2. SURVEY BY AERO TECH CORPORATION DATED MARCH 2010.
3. HISTORICAL DESIGN AND RECORD DRAWINGS PROVIDED BY THE NARRAGANSETT BAY COMMISSION IN 2019 AND 2020.



ELEVATIONS ARE IN FEET AND ARE REFERENCED TO NGVD 1929

REV	DATE	BY	DESCRIPTION
1	7/14/2022	SMF	ISSUED FOR ADDENDUM NO. 1

SCALE: 1" = 100'

WARNING: 0 ½ 1 — IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED S FUSCO
DRAWN S FUSCO
CHECKED M PITTA

FINAL DESIGN - JUNE 2022

CDM Smith
260 West Exchange Street, Suite 300
Providence, RI 02903
Tel: (401) 751-8360

Narragansett Bay Commission

NARRAGANSETT BAY COMMISSION
PHASE III COMBINED SEWER OVERFLOW PROGRAM

Stantec PARE

NBC CONTRACT NO 308.10C
CIVIL

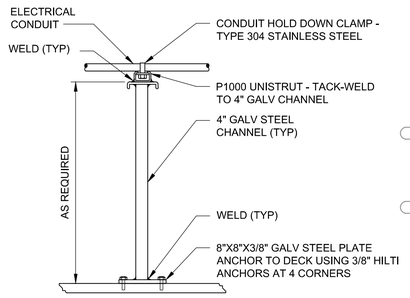
OVERALL SITE ORIENTATION PLAN

SHEET C-2

INFLUENT SCREW PUMP VFD INSTALLATION

SECTION 1 / –

N.T.S.



CONDUIT T-SUPPORT RACK

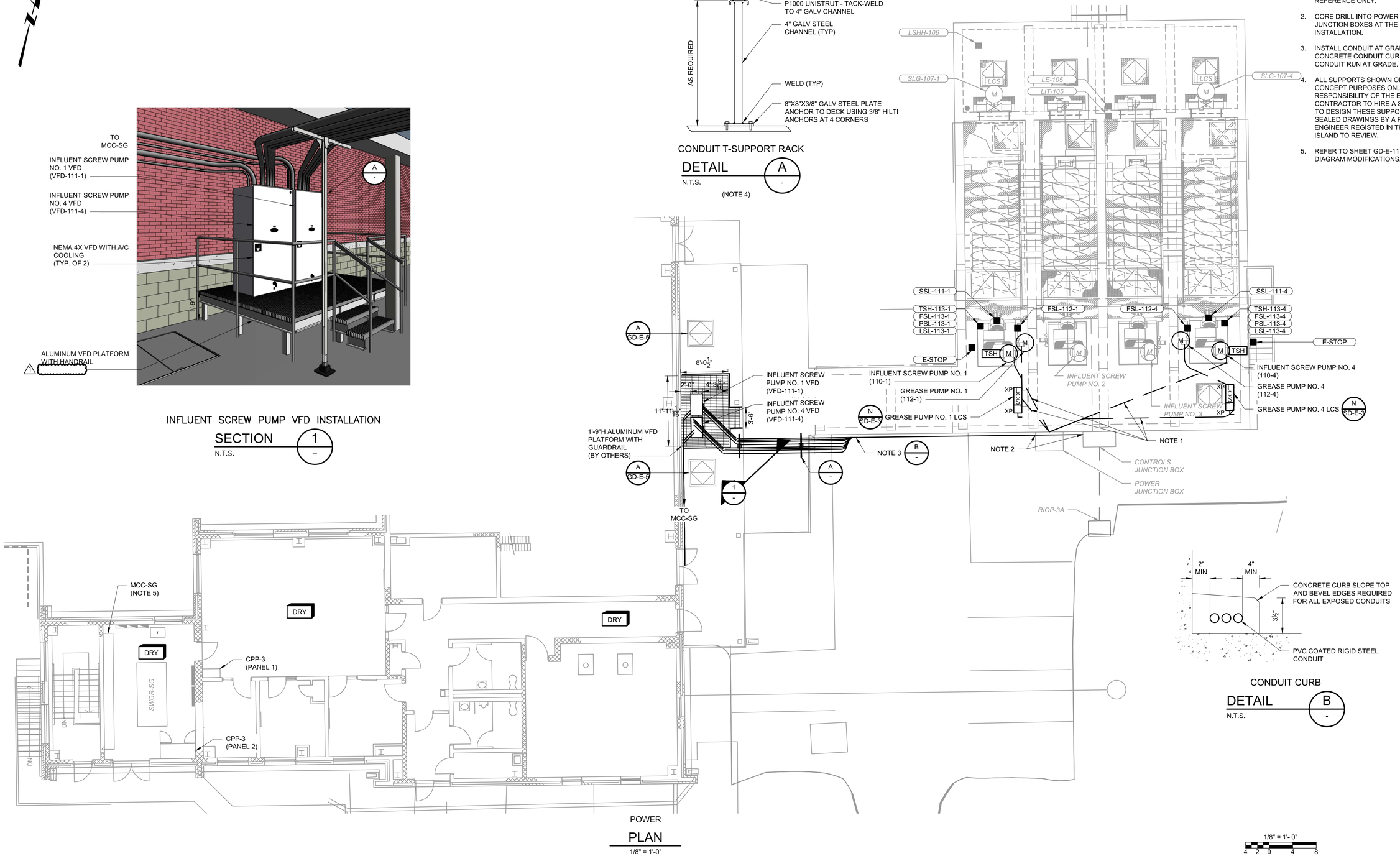
DETAIL A / -

N.T.S.

(NOTE 4)

NOTES:

1. CONDUITS SHOWN ARE EMBEDDED IN SLAB AND ROUTING IS APPROXIMATE AND IS FOR REFERENCE ONLY.
2. CORE DRILL INTO POWER AND CONTROLS JUNCTION BOXES AT THE SURFACE FOR CONDUIT INSTALLATION.
3. INSTALL CONDUIT AT GRADE. PROVIDE A CONCRETE CONDUIT CURB TO PROTECT CONDUIT RUN AT GRADE.
4. ALL SUPPORTS SHOWN ON THIS SHEET ARE FOR CONCEPT PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO HIRE A STRUCTURAL ENGINEER TO DESIGN THESE SUPPORTS AND SUBMIT SEALED DRAWINGS BY A PROFESSIONAL ENGINEER REGISTED IN THE STATE OF RHODE ISLAND TO REVIEW.
5. REFER TO SHEET GD-E-11 FOR MCC-SG ONE LINE DIAGRAM MODIFICATIONS.



POWER

PLAN

1/8" = 1'-0"

CONDUIT CURB

DETAIL B / -

N.T.S.

1/8" = 1'- 0"

4 2 0 4 8

CDM Smith ProjectWise Project No: 93019-234214, NARRAGANSETT BAY COMMISSION, PHASE III COMBINED SEWER OVERFLOW PROGRAM
File: E002IPPW.DWG; Saved by: CHARISMOLLINGBL, 7/19/2022 3:54 PM; Plotted on: 7/19/2022 3:54 PM

REV	DATE	BY	DESCRIPTION
1	7/14/2022	BCM	ISSUED FOR ADDENDUM NO. 1

SCALE: 1/8"=1'-0"

WARNING: 0 ½ 1 — IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DESIGNED B. CHARIS-MOLLING
DRAWN B. CHARIS-MOLLING
CHECKED S. SPADA

FINAL DESIGN - JUNE 2022

CDM Smith
260 West Exchange Street, Suite 300
Providence, RI 02903
Tel: (401) 751-5360

NARRAGANSETT BAY COMMISSION
PHASE III COMBINED SEWER
OVERFLOW PROGRAM

Stantec PARE

NBC CONTRACT NO 308.10C

ELECTRICAL

INFLUENT PUMP STATION & SCREENGING AND GRIT BUILDING
POWER PLAN

SHEET
IP-E-2