



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 1

5 Post Office Square, Suite 100

BOSTON, MA 02109-3912

**CERTIFIED MAIL**

March 2, 2011

Peter Croteau  
Regional HSE Manager  
Sprague Energy Corporation  
194 Shattuck Way  
Newington, NH 03801

Re: Authorization to discharge under the Remediation General Permit (RGP) – 910000.  
Avery Lane Terminal site located at 194 Shattuck Way, Newington, NH03801  
Rockingham County, Authorization # NHG910015 - Reissuance

Dear Mr. Croteau:

Based on the review of a Notice of Intent (NOI) submitted on behalf of Sprague Energy Corporation by the firm Geo Insight for the site referenced above, the U.S. Environmental Protection Agency (EPA) hereby authorizes you, as the named Operator, to discharge in accordance with the provisions of the RGP at that site. Your authorization number is listed above.

The checklist enclosed with this RGP authorization indicates the pollutants for which you are required to monitor. Also indicated on the checklist are the effluent limits, test methods and minimum levels (MLs) for each pollutant. Please note that the checklist does not represent the complete requirements of the RGP. Operators must comply with all of the applicable requirements of this permit, including influent and effluent monitoring, narrative water quality standards, record keeping, and reporting requirements, found in Parts I and II, and Appendices I – VIII of the RGP. See EPA's website for the complete RGP and other information at:  
<http://www.epa.gov/region1/npdes/mass.html#dgp>.

Please note the list of pollutants authorized includes pollutants found in excess of the RGP Appendix III limits or the minimum levels (MLs) of detection and others not reported as required. Please see Appendix VI for information on the MLs limits for each authorized pollutant or the permit list included with this authorization.

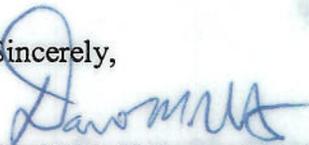
Also, please note that the metals trivalent chromium, zinc and iron included on the list are dilution dependent pollutants subject to limitations based on a dilution factor range (DFR). With the absence of dilution to tidal waters, EPA determined that the DFR for each parameter is in the one and five (1-5) range. (See the RGP Appendix IV for New Hampshire facilities) Therefore, the limits for trivalent chromium of 100ug/L, zinc of 85.6ug/L and iron of 1,000ug/L, are required to achieve permit compliance at your site.

Finally, please note the list of pollutants attached to this authorization is subject to a recertification if the operations at the site result in a discharge lasting longer than six months. A recertification can be submitted to EPA within six (6) to twelve (12) months of operations in accordance with the 2010 RGP regulations.

This general permit and authorization to discharge will expire on September 9, 2015. You have reported that the termination date is unknown. If for any reason the discharge terminates sooner than the expiration date you are required to submit a Notice of Termination (NOT) to the attention of the contact person indicated below within 30 days of project completion.

Thank you in advance for your cooperation in this matter. Please contact Victor Alvarez at 617-918-1572 or Alvarez.Victor@epa.gov, if you have any questions.

Sincerely,



David M. Webster, Chief  
Industrial Permits Branch

Enclosure

cc: Jeffrey Andrews, NHDES  
Luke W. Sanborn, GeoInsight

**2010 Remediation General Permit  
Summary of Monitoring Parameters<sup>[1]</sup>**

<b>NPDES Authorization Number:</b>	<b>NHG910015 – Reissuance</b>
Date Authorization Issued:	March, 2011
Facility/Site Name:	Avery Lane Terminal
Facility/Site Address:	site located at 194 Shattuck Way, Newington, NH03801 Rockingham County
	Owner: ehemberg@spragueenergy.com; Phone n:603-431-6000
Legal Name of operator:	
Operator contact name, title, and Address:	Peter Croteau, Regional HSE Manager 194 Shattuck Way, Newington, NH 03801 Email: pcrotea@spragueenergy.com
Estimated Date of Completion:	Unknown
Category and Sub-Category:	Category I. Subcategory B. Fuel Oils and Other Oil sites
Receiving Water:	Piscataqua River

**Monitoring & Limits are applicable if checked. All samples are to be collected as grab samples**

	<u>Parameter</u>	<u>Effluent Limit/Method#/ML</u> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
✓	1. Total Suspended Solids (TSS)	30 milligrams/liter (mg/l) **, 50 mg/l for hydrostatic testing **, Me#60.2/5mL
	2. Total Residual Chlorine (TRC) <sup>1</sup>	Freshwater = 11 ug/l ** Saltwater = 7.5 ug/l **/ Me#330.5/ML 20ug/L
✓	3. Total Petroleum Hydrocarbons (TPH)	5.0 mg/l/ Me# 1664A/5.0mg/LmL
	4. Cyanide (CN) <sup>2, 3</sup>	Freshwater = 5.2 ug/l ** Saltwater = 1.0 ug/l **/ Me#335.4/ML 5ug/L
	5. Benzene (B)	5ug/L /50.0 ug/l for hydrostatic testing only/ Me#8260C/ML 2 ug/L
	6. Toluene (T)	(limited as ug/L total BTEX)/ Me#8260C/ ML 2ug/L
	7. Ethylbenzene (E)	(limited as ug/L total BTEX) // Me#8260C/ ML 2ug/L
	8. (m,p,o) Xylenes (X)	(limited as ug/L total BTEX) // Me#8260C/ ML 2ug/L
	9. Total Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) <sup>4</sup>	100 ug/l // Me#8260C/ ML 2ug/L
	10. Ethylene Dibromide (EDB) (1,2- Dibromoethane)	0.05 ug/l/ Me#8260C/ ML 10ug/L
✓	11. Methyl-tert-Butyl Ether (MtBE)	70.0 ug/l /Me#8260C/ ML 10ug/L

	<u>Parameter</u>	<u>Effluent Limit/Method#/ML</u> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	12.tert-Butyl Alcohol (TBA) (TertiaryButanol)	Monitor Only (ug/L)/ Me#8260C/ ML 10ug/L
✓	13. tert-Amyl Methyl Ether (TAME)	Monitor Only (ug/L) /Me#8260C/ ML 10ug/L
	14. Naphthalene <sup>5</sup>	20 ug/l /Me#8260C/ ML 2ug/L
	15. Carbon Tetrachloride	4.4 ug/l /Me#8260C/ ML 5ug/L
	16. 1,2 Dichlorobenzene (o-DCB)	600 ug/l /Me#8260C/ ML 5ug/L
	17. 1,3 Dichlorobenzene (m-DCB)	320 ug/l /Me#8260C/ ML 5ug/L
	18. 1,4 Dichlorobenzene (p-DCB)	5.0 ug/l /Me#8260C/ ML 5ug/L
	18a. Total dichlorobenzene	763 ug/l - NH only /Me#8260C/ ML5ug/L
	19. 1,1 Dichloroethane (DCA)	70 ug/l /Me#8260C/ ML 5ug/L
	20. 1,2 Dichloroethane (DCA)	5.0 ug/l /Me#8260C/ ML 5ug/L
	21. 1,1 Dichloroethene (DCE)	3.2 ug/l/Me#8260C/ ML 5ug/L
	22. cis-1,2 Dichloroethene (DCE)	70 ug/l /Me#8260C/ ML 5ug/L
	23. Methylene Chloride	4.6 ug/l/Me#8260C/ ML 5ug/L
	24. Tetrachloroethene (PCE)	5.0 ug/l /Me#8260C/ ML 5ug/L
	25. 1,1,1 Trichloro-ethane (TCA)	200 ug/l/Me#8260C/ ML 5ug/L
	26. 1,1,2 Trichloro-ethane (TCA)	5.0 ug/l /Me#8260C/ ML 5ug/L
	27. Trichloroethene (TCE)	5.0 ug/l /Me#8260C/ ML 5ug/L
	28. Vinyl Chloride (Chloroethene)	2.0 ug/l /Me#8260C/ ML 5ug/L
✓	29. Acetone	Monitor Only (ug/L) /Me#8260C/ ML 50ug/L
	30. 1,4 Dioxane	Monitor Only /Me#1624C/ML50 ug/L
	31. Total Phenols	300 ug/l Me#420.1&420.2/ML 2 ug/L/ Me# 420.4 /ML50 ug/L
	32. Pentachlorophenol (PCP)	1.0 ug/l /Me#8270D/ML5ug/L,Me#604 &625/ML10ug/L
	33. Total Phthalates (Phthalate esters) <sup>6</sup>	3.0 ug/L ** /Me#8270D/ML5ug/L,Me#606/ML10ug/L& Me#625/ML5ug/L
	34. Bis (2-Ethylhexyl) Phthalate [Di- (ethylhexyl) Phthalate]	6.0 ug/l /Me#8270D/ML5ug/L,Me#606/ML10ug/L& Me#625/ML5ug/L
	35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	10.0 ug/l
	a. Benzo(a) Anthracene <sup>7</sup>	0.0038 ug/l /Me#8270D/ ML5ug/L, Me#610/ML5ug/L& Me#625/ML5ug/L
	b. Benzo(a) Pyrene <sup>7</sup>	0.0038 ug/l /Me#8270D/ ML5ug/L, Me#610/ML5ug/L& Me#625/ML5ug/L

	<u>Parameter</u>	<u>Effluent Limit/Method#/ML</u> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	c. Benzo(b)Fluoranthene <sup>7</sup>	0.0038 ug/l /Me#8270D/ ML5ug/L, Me#610/ML5ug/L& Me#625/ML5ug/L
	d. Benzo(k)Fluoranthene <sup>7</sup>	0.0038 ug/l /Me#8270D/ ML5ug/L, Me#610/ML5ug/L& Me#625/ML5ug/L
	e. Chrysene <sup>7</sup>	0.0038 ug/l /Me#8270D/ ML5ug/L, Me#610/ML5ug/L& Me#625/ML5ug/L
	f. Dibenzo(a,h)anthracene <sup>7</sup>	0.0038 ug/l /Me#8270D/ ML5ug/L, Me#610/ML5ug/L& Me#625/ML5ug/L
	g. Indeno(1,2,3-cd) Pyrene <sup>7</sup>	0.0038 ug/l /Me#8270D/ ML5ug/L, Me#610/ML5ug/L& Me#625/ML5ug/L
✓	36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	100 ug/l
✓	h. Acenaphthene	X/Me#8270D/ML5ug/L,Me#610/ML5ug /L & Me#625/ML5ug/L
	i. Acenaphthylene	X/Me#8270D/ML5ug/L,Me#610/ML5ug/L & Me#625/ML5ug/L
	j. Anthracene	X/Me#8270D/ML5ug/L,Me#610/ML5ug/L & Me#625/ML5ug/L
	k. Benzo(ghi) Perylene	X/Me#8270D/ML5ug/L,Me#610/ML5ug/L & Me#625/ML5ug/L
	l. Fluoranthene	X/Me#8270D/ML5ug/L,Me#610/ML5ug/L & Me#625/ML5ug/L
✓	m. Fluorene	X/Me#8270D/ML5ug/L,Me#610/ML5ug/L & Me#625/ML5ug/L
	n. Naphthalene <sup>5</sup>	20 ug/l / Me#8270D/ ML5ug/L, Me#610/ML5ug/L & Me#625/ML5ug/L
	o. Phenanthrene	X/Me#8270D/ML5ug/L,Me#610/ML5ug/L & Me#625/ML5ug/L
	p. Pyrene	X/Me#8270D/ML5ug/L,Me#610/ML5ug/L & Me#625/ML5ug/L
	37. Total Polychlorinated Biphenyls (PCBs) <sup>8,9</sup>	0.000064 ug/L / Me# 608/ ML 0.5 ug/L
✓	38. Chloride	Monitor only/Me# 300.0/ ML 0.1ug/L

	<u>Metal parameter</u>	<u>Total Recoverable Metal Limit @ H <sup>10</sup> = 25 mg/l CaCO<sub>3</sub> for Discharges in New Hampshire (ug/l) <sup>11</sup></u>	
		<u>Freshwater</u>	<u>Saltwater</u>
	39. Antimony	5.6/ML 10	
	40. Arsenic **		36/ML 20
	41. Cadmium **		9.3/ML 10
✓	42. Chromium III (trivalent) **		100/ML 15
	43. Chromium VI (hexavalent)		50.3/ML

	Metal parameter	Total Recoverable Metal Limit @ H <sup>10</sup> = 25 mg/l CaCO <sub>3</sub> for Discharges in New Hampshire (ug/l) <sup>11</sup>	
		Freshwater	Saltwater
	**		10
	44. Copper **		3.7/ML 15
	45. Lead **		8.5/ML 20
	46. Mercury **		1.1/ML 0.2
	47. Nickel **		8.2/ML 20
	48. Selenium **		71/ML 20
	49. Silver		2.2/ML 10
✓	50. Zinc **		85.6/ML 15
✓	51. Iron		1,000/ml 20

	Other Parameters	Limit
✓	52. Instantaneous Flow	Site specific in CFS
✓	53. Total Flow	Site specific in CFS
	54. pH Range for Class A & Class B Waters in MA	6.5-8.3; 1/Month/Grab <sup>13</sup>
	55. pH Range for Class SA & Class SB Waters in MA	6.5-8.3; 1/Month/Grab <sup>13</sup>
✓	56. pH Range for Class B Waters in NH	6.5-8; 1/Month/Grab <sup>13</sup>
	57. Daily maximum temperature - Warm water fisheries	83°F; 1/Month/Grab <sup>14</sup>
	58. Daily maximum temperature - Cold water fisheries	68°F; 1/Month/Grab <sup>14</sup>
	59. Maximum Change in Temperature in MA - Any Class A water body	1.5°F; 1/Month/Grab <sup>14</sup>
	60. Maximum Change in Temperature in MA - Any Class B water body- Warm Water	5°F; 1/Month/Grab <sup>14</sup>
	61. Maximum Change in Temperature in MA - Any Class B water body - Cold water and Lakes/Ponds	3°F; 1/Month/Grab <sup>14</sup>
	62. Maximum Change in Temperature in MA - Any Class SA water body - Coastal	1.5°F; 1/Month/Grab <sup>14</sup>
	63. Maximum Change in Temperature in MA - Any Class SB water body - July to September	1.5°F; 1/Month/Grab <sup>14</sup>
	64. Maximum Change in Temperature in MA - Any Class SB water body - October to June	4°F; 1/Month/Grab <sup>14</sup>

<sup>1</sup> Although the maximum values for TRC are 11ug/l and 7.5 ug/l for freshwater, and saltwater respectively, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., Method 330.5, 20 ug/l).

<sup>2</sup> Limits for cyanide are based on EPA's water quality criteria expressed as micrograms per liter. There is currently no EPA approved test method for free cyanide. Therefore, total cyanide must be reported.

<sup>3</sup> Although the maximum values for cyanide are 5.2 ug/l and 1.0 ug/l for freshwater and saltwater, respectively, the compliance limits are equal to the minimum level (ML) of the Method 335.4 as listed in Appendix VI (i.e., 10 ug/l).

<sup>4</sup> BTEX = sum of Benzene, Toluene, Ethylbenzene, and total Xylenes.

<sup>5</sup> Naphthalene can be reported as both a purgeable (VOC) and extractable (SVOC) organic compound. If both VOC and SVOC are analyzed, the highest value must be used unless the QC criteria for one of the analyses is not met. In such cases, the value from the analysis meeting the QC criteria must be used.

<sup>6</sup> The sum of individual phthalate compounds(not including the #34, Bis (2-Ethylhexyl) Phthalate . The compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.

*Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measurement of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.*

<sup>7</sup> Although the maximum value for the individual PAH compounds is 0.0038 ug/l, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.

<sup>8</sup> In the November 2002 WQC, EPA has revised the definition of Total PCBs for aquatic life as total PCBs is the sum of all homologue, all isomer, all congener, or all "Oroclor analyses."Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measure of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.

<sup>9</sup>Although the maximum value for total PCBs is 0.000064 ug/l, the compliance limit is equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., 0.5 ug/l for Method 608 or 0.00005 ug/l when Method 1668a is approved).

<sup>10</sup> Hardness. Cadmium, Chromium III, Copper, Lead, Nickel, Silver, and Zinc are Hardness Dependent.

<sup>11</sup> For a Dilution Factor (DF) from 1 to 5, metals limits are calculated using DF times the base limit for the metal. See Appendix IV. For example, iron limits are calculated using  $DF \times 1,000 \text{ug/L}$  (the iron base limit). Therefore DF is 1.5, the iron limit will be 1,500 ug/L; DF 2, then iron limit =  $1,000 \times 2 = 2,000 \text{ ug/L}$ , etc. not to exceed the DF=5.

<sup>12</sup> Minimum Level (ML) is the lowest level at which the analytical system gives a recognizable signal and acceptable calibration point for the analyte. The ML represents the lowest concentration at which an analyte can be measured with a known level of confidence. The ML is calculated by multiplying the laboratory-determined method detection limit by 3.18 (see 40 CFR Part 136, Appendix B).

<sup>13</sup> pH sampling for compliance with permit limits may be performed using field methods as provided for in EPA test Method 150.1.

<sup>14</sup> Temperature sampling per Method 170.1





**GeoInsight®**

Environmental Strategy & Engineering

*Practical in Nature*

December 9, 2010

GeoInsight Project 2764-000

United States Environmental Protection Agency  
Attn: Remediation General Permit NOI Processing  
5 Post Office Square, Suite 100  
Boston, Massachusetts 02109-3912

**Re: Remediation General Permit, Notice of Intent**  
Sprague Energy, Avery Lane Terminal  
194 Shattuck Way  
Newington, New Hampshire

To Whom It May Concern:

GeoInsight, Inc. prepared this National Pollutant Discharge Elimination System (NPDES) Notice of Intent (NOI) for a Remediation General Permit (RGP) at the request of Sprague Energy Corp. (Sprague) for their Avery Lane Terminal located in Newington, New Hampshire. The completed NOI form is included as Attachment A.

Renewal of the facility's RGP is requested to continue ground water extraction, treatment, and discharge activities associated with a remediation system designed to hydraulically control residual non-aqueous phase liquid detected on the potentiometric surface in the vicinity of a cove of the Piscataqua River. The geographic location and the general layout of the site in the vicinity of the ground water remediation system are shown on Figures 1 and 2, respectively. A schematic of the treatment system as required by Section 4.a of the NOI is included as Figure 3.

Based upon the operations and the characteristics of the remedial activities, the analytical requirements for the NOI were based upon Appendix III, Category IB. Therefore, GeoInsight collected compliance samples from the influent port associated with the treatment system on December 6, 2010 for analyses of total petroleum hydrocarbons by United States Environmental Protection Agency (USEPA) Method 1664A, polycyclic aromatic hydrocarbons by USEPA Method 8270D, and total metals (chromium III, nickel, zinc, and iron) by USEPA Method 200.7. Chromium VI was analyzed in accordance with USEPA Method 7196A. In addition, GeoInsight used historical volatile organic compound data collected during the three most recent monitoring events (August 2010, September 2010, and October 2010) to fulfill the requirements of Category IB. Laboratory analytical reports can be provided upon request.

GeoInsight, Inc.  
186 Granite Street, 3rd Floor, Suite A  
Manchester, NH 03101-2643  
Tel (603) 314-0820  
Fax (603) 314-0821  
www.geoinsightinc.com

GeoInsight, Inc.  
5 Lan Drive, Suite 200  
Westford, MA 01886-3538  
Tel (978) 692-1114  
Fax (978) 692-1115  
www.geoinsightinc.com

GeoInsight, Inc.  
200 Court Street, 2nd Floor  
Middletown, CT 06457-3341  
Tel (860) 894-1022  
Fax (860) 894-1023  
www.geoinsightinc.com



Supporting information regarding the Endangered Species Act review is included in Attachment B. The discharge location of the remediation system is not located in the federally listed habitats described in Section I.A. of Appendix VII. However, the Roseate Tern was listed as endangered in Appendix II (dated July 2008), with a location within Rockingham County as the Isle of Shoals and the Atlantic Ocean. GeoInsight reviewed the most recent known locations of the Roseate Tern on a list maintained by the U.S. Fish and Wildlife Service, and Rockingham County was not listed. Therefore, Criterion A was selected. GeoInsight has contacted the New England field office of the U.S. Fish and Wildlife Service to confirm our finding, and the USEPA will be notified if a discrepancy is discovered. If you have questions regarding the information presented, please contact us in our Manchester, New Hampshire office at (603) 314-0820.

Sincerely,  
GEOINSIGHT, INC.

Luke W. Sanborn, P.E.  
Senior Project Engineer

Michael F. Dacey, P.G., L.S.P.  
Senior Hydrogeologist/Senior Associate

Enclosures

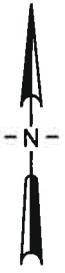
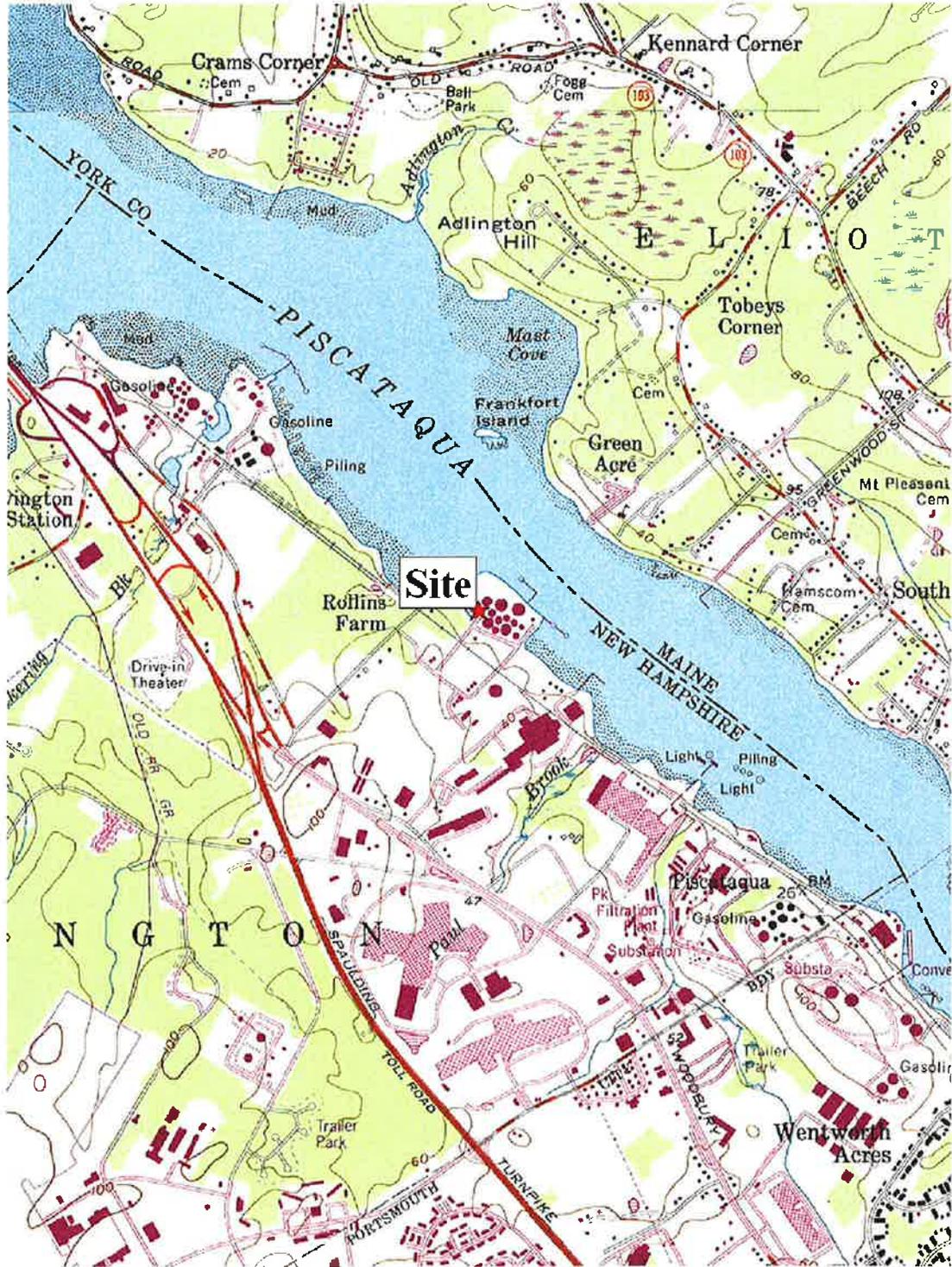
cc: NHDES Water Division, Wastewater Engineering Bureau  
Elizabeth Hernberg, Sprague (electronic)  
Buck Elliot, Sprague (electronic)  
Charles Smart, Town of Newington Health Department

P:\2764-00 SPRAGUE\NPDES RGP\2010 RGP Permit and Compliance\Permit Cover Letter.doc



**FIGURES**





**SOURCE:**

USGS PORTSMOUTH, NH QUADRANGLE



APPROX. SCALE IN FEET

CLIENT:		SPRAGUE ENERGY	
PROJECT:		AVERY LANE TERMINAL 194 SHATTUCK WAY, NEWINGTON, NH	
TITLE:		SITE LOCUS	
DESIGNED:	DRAWN:	CHECKED:	APPROVED:
AJ	STM	MFD	MFD
SCALE:	DATE:	FILE NO.:	PROJECT NO.:
1" = 2000'	01/29/07	2764-LOCUS	2764-000



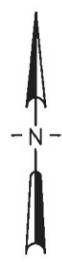
**GeoInsight**

*Practical in Nature*

FIGURE NO.:

**1**

PLOT DATE: 12-9-10  
FILE: I:\2764-000\2764-LOCUS.dwg



PISCATAQUA RIVER

GRAVEL ROAD

Approximate Location of Remediation System Discharge

TANK 14  
74,000 BBLS

TANK 11  
15,000 BBLS

TANK 1  
96,000 BBLS

TANK 7  
7,000 BBLS

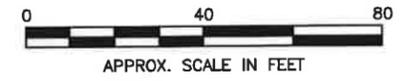
TANK 12  
25,000 BBLS

**LEGEND:**

- GEOPROBE WELL (1 1/4")
- MONITORING WELL
- DESTROYED WELL
- MONITORING POINT
- SOIL BORING
- RECOVERY WELL
- UP UTILITY POLE
- ELECTRICAL LINE
- ABOVE GROUND PRODUCT PIPING

**NOTES:**

1. ALL DIMENSIONS AND LOCATIONS ARE APPROXIMATE.
- BASE MAP SOURCES:
- 1) "PROPOSED SITE PLAN, TANK 14, LOWER AREA, FUEL STORAGE CORP., NEWINGTON, N.H.", SHEET 4 OF 6, PREPARED BY THOMAS F. MORAN, INC., MAY 16, 1983;
  - 2) SITE PLAN WITH MONITORING WELLS PREPARED BY GZA. ORIGINAL SITE PLAN PROVIDED BY IT CORPORATION;
  - 3) LOCATIONS FOR SB-400 AND MW-400 SERIES BORINGS AND WELLS ARE APPROXIMATE.



CLIENT: SPRAGUE ENERGY CORPORATION			
PROJECT: AVERY LANE TERMINAL			
TITLE: SITE PLAN - GMP WELLS			
DESIGNED: LWS	DRAWN: NMT	CHECKED: MFD	APPROVED: MFD
SCALE: 1"=40'	DATE: 6/5/08	FILE NO.: 2764d014	PROJECT NO.: 2764-000



FIGURE NO.: 2

PLOT DATE: 6-6-08  
FILE: I:\2764-000\2764d014.dwg

DFSP  
(U.S. GOV'T)

GENERATOR BUILDING

PIPING MANIFOLD AREA  
TREATMENT SYSTEM BUILDING

SHED

TRANS. BLDG.

PUMPS

PUMPS

PUMPS

EQUIPMENT COMPOUND

RECOVERY TRENCH

DRAIN PIPE

ACCESS ROAD

ACCESS ROAD

DRAIN

DRAIN

BM (GRANITE BLOCK)

DRAIN

SEA-13

SEA-7

SEA-10

SEA-6

OW-21R

OW-20

OW-19

OW-23

OW-25

MW-407

GZ-23

GZ-24

GZ-26R

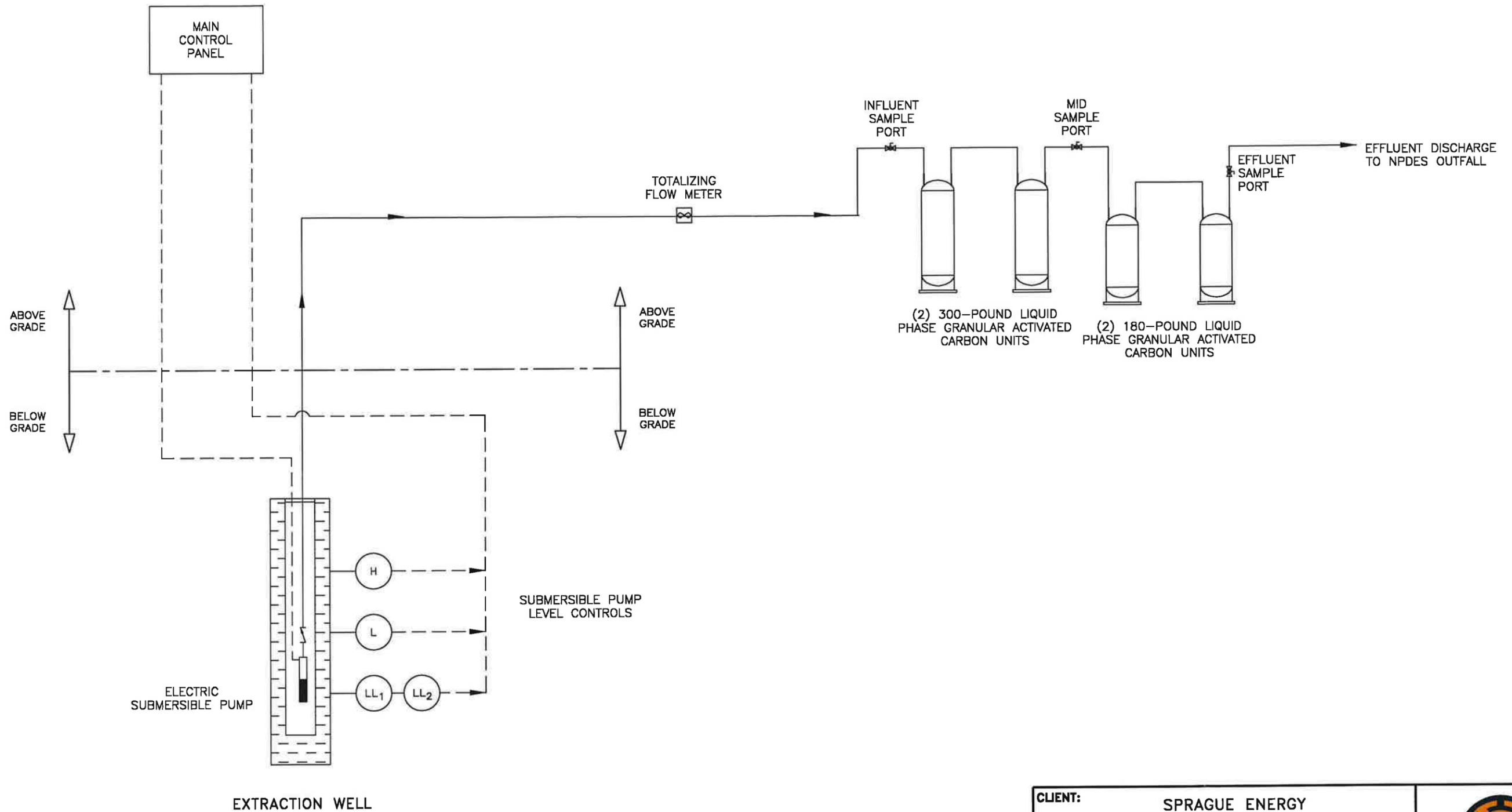
MW-409

SB-408

MW-405

SB-406

UP



PLOT DATE: 12-7-10  
 FILE: I:\2764-000\2764d033.dwg

<b>CLIENT:</b> SPRAGUE ENERGY			
<b>PROJECT:</b> AVERY LANE TERMINAL			
<b>TITLE:</b> PROCESS AND FLOW DIAGRAM			
<b>DESIGNED:</b> LWS	<b>DRAWN:</b> STM	<b>CHECKED:</b> LWS	<b>APPROVED:</b> MFD
<b>SCALE:</b> NTS	<b>DATE:</b> 12/07/10	<b>FILE NO.:</b> 2764D033	<b>PROJECT NO.:</b> 2764-000
			<b>FIGURE NO.:</b> 3



**ATTACHMENT A**  
**NOTICE OF INTENT**



**B. Suggested Form for Notice of Intent (NOI) for the Remediation General Permit**

**1. General facility/site information.** Please provide the following information about the site:

a) Name of <b>facility/site</b> : Sprague Energy, Avery Lane Terminal		<b>Facility/site mailing address:</b>			
Location of <b>facility/site</b> :		Facility SIC code(s):		Street:	
longitude: 70.802611		5171		194 Shattuck Way	
latitude: 43.108111					
b) Name of <b>facility/site owner</b> : Sprague Energy Corp.			Town: Newington		
Email address of <b>facility/site owner</b> : ehernberg@spragueenergy.com			State: New Hampshire	Zip: 03801	County: Rockingham
Telephone no. of <b>facility/site owner</b> : (800) 225-1560					
Fax no. of <b>facility/site owner</b> :			<b>Owner is (check one):</b> 1. Federal <input type="radio"/> 2. State/Tribal <input type="radio"/>		
Address of <b>owner</b> (if different from site):			3. Private <input checked="" type="radio"/> 4. Other <input type="radio"/> if so, describe:		
Street: Two International Drive, Suite 200					
Town: Portsmouth		State: NH	Zip: 03801	County: Rockingham	
c) Legal name of <b>operator</b> : Sprague Energy Corp.			<b>Operator telephone no.:</b> (603) 431-6000		
			<b>Operator fax no.:</b> (603) 433-4154	<b>Operator email:</b> pcroteau@spragueenergy.com	
<b>Operator contact name and title:</b> Peter Croteau, Regional HSE Manager					
Address of <b>operator</b> (if different from owner):			Street: 194 Shattuck Way		
Town: Newington		State: NH	Zip: 03801	County: Hillsborough	

d) Check Y for "yes" or N for "no" for the following:

1. Has a prior NPDES permit exclusion been granted for the discharge? Y  N , if Y, number:
2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Y  N , if Y, date and tracking #:
3. Is the discharge a "new discharge" as defined by 40 CFR 122.2? Y  N
4. For sites in Massachusetts, is the discharge covered under the Massachusetts Contingency Plan (MCP) and exempt from state permitting? Y  N

e) Is site/facility subject to any State permitting, license, or other action which is causing the generation of discharge? Y  N   
 If Y, please list:

1. site identification # assigned by the state of NH or MA:
2. permit or license # assigned:
3. state agency contact information: name, location, and telephone number:

f) Is the site/facility covered by any other EPA permit, including:

1. Multi-Sector General Permit? Y  N , if Y, number:
2. Final Dewatering General Permit? Y  N , if Y, number:
3. EPA Construction General Permit? Y  N , if Y, number:
4. Individual NPDES permit? Y  N , if Y, number:
5. any other water quality related individual or general permit? Y  N , if Y, number:

g) Is the site/facility located within or does it discharge to an Area of Critical Environmental Concern (ACEC)? Y  N

h) Based on the facility/site information and any historical sampling data, identify the sub-category into which the potential discharge falls.

<u>Activity Category</u>	<u>Activity Sub-Category</u>
I - Petroleum Related Site Remediation	A. Gasoline Only Sites <input type="checkbox"/> B. Fuel Oils and Other Oil Sites (including Residential Non-Business Remediation Discharges) <input checked="" type="checkbox"/> C. Petroleum Sites with Additional Contamination <input type="checkbox"/>
II - Non Petroleum Site Remediation	A. Volatile Organic Compound (VOC) Only Sites <input type="checkbox"/> B. VOC Sites with Additional Contamination <input type="checkbox"/> C. Primarily Heavy Metal Sites <input type="checkbox"/>
III - Contaminated Construction Dewatering	A. General Urban Fill Sites <input type="checkbox"/> B. Known Contaminated Sites <input type="checkbox"/>

IV - Miscellaneous Related Discharges	A. Aquifer Pump Testing to Evaluate Formerly Contaminated Sites <input type="checkbox"/> B. Well Development/Rehabilitation at Contaminated/Formerly Contaminated Sites <input type="checkbox"/> C. Hydrostatic Testing of Pipelines and Tanks <input type="checkbox"/> D. Long-Term Remediation of Contaminated Sumps and Dikes <input type="checkbox"/> E. Short-term Contaminated Dredging Drain Back Waters (if not covered by 401/404 permit) <input type="checkbox"/>
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**2. Discharge information.** Please provide information about the discharge, (attaching additional sheets as necessary) including:

a) Describe the discharge activities for which the owner/applicant is seeking coverage:	
Discharge activities include extracting ground water from an interceptor trench located along a cove the Piscataqua River. Ground water is pumped through two primary, and two secondary GAC units at an average flow of approx. 0.38 gpm before being discharged to the Piscataqua River.	
b) Provide the following information about each discharge:	
1) Number of discharge points: <input type="text" value="1"/>	2) What is the <b>maximum</b> and <b>average flow rate</b> of discharge (in cubic feet per second, ft <sup>3</sup> /s)? Max. flow <input type="text" value="0.0067 cfs"/> Is maximum flow a design value? Y <input type="radio"/> N <input checked="" type="radio"/> Average flow (include units) <input type="text" value="0.0008 cfs"/> Is average flow a design value or estimate? <input type="text" value="Estimate"/>
3) Latitude and longitude of each discharge within 100 feet:	
pt.1: lat <input type="text" value="43.108111"/> long <input type="text" value="70.802611"/>	pt.2: lat. <input type="text"/> long. <input type="text"/> ;
pt.3: lat <input type="text"/> long <input type="text"/>	pt.4: lat. <input type="text"/> long. <input type="text"/> ;
pt.5: lat <input type="text"/> long <input type="text"/>	pt.6: lat. <input type="text"/> long. <input type="text"/> ;
pt.7: lat <input type="text"/> long <input type="text"/>	pt.8: lat. <input type="text"/> long. <input type="text"/> ; etc.
4) If hydrostatic testing, total volume of the discharge (gals): <input type="text"/>	5) Is the discharge intermittent <input checked="" type="radio"/> or seasonal <input type="radio"/> ? Is discharge ongoing? Y <input checked="" type="radio"/> N <input type="radio"/>
c) Expected dates of discharge (mm/dd/yy): start <input type="text" value="currently operating"/> end <input type="text" value="unknown"/>	
d) Please attach a line drawing or flow schematic showing water flow through the facility including: 1. sources of intake water. 2. contributing flow from the operation. 3. treatment units. and 4. discharge points and receiving waters(s) <input type="text" value="See Attached"/>	

**3. Contaminant information.**

a) Based on the sub-category selected (see Appendix III), indicate whether each listed chemical is **believed present** or **believed absent** in the potential discharge. Attach additional sheets as needed.

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
1. Total Suspended Solids (TSS)		<input type="checkbox"/>	<input type="checkbox"/>	NA							
2. Total Residual Chlorine (TRC)		<input type="checkbox"/>	<input type="checkbox"/>	NA							
3. Total Petroleum Hydrocarbons (TPH)		<input type="checkbox"/>	<input checked="" type="checkbox"/> *	1	Grab	1664A	5 mg/L	ND(5,000)*	NA		
4. Cyanide (CN)	57125	<input type="checkbox"/>	<input type="checkbox"/>	NA							
5. Benzene (B)	71432	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8260B	2 ug/L	ND(2)	NA		
6. Toluene (T)	108883	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8260B	2 ug/L	ND(2)	NA		
7. Ethylbenzene (E)	100414	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8260B	2 ug/L	ND(2)	NA		
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8260B	2 ug/L	ND(2)	NA		
9. Total BTEX <sup>2</sup>	n/a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8260B	2 ug/L	ND(2)	NA		
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) <sup>3</sup>	106934	<input type="checkbox"/>	<input type="checkbox"/>	NA							
11. Methyl-tert-Butyl Ether (MtBE)	1634044	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3	Grab	8260B	2 ug/L	25	0.004	19	0.00004
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650	<input type="checkbox"/>	<input type="checkbox"/>	NA							

\*Known concentrations between 1&2mg/L using Method 8015DRO.

\* Numbering system is provided to allow cross-referencing to Effluent Limits and Monitoring Requirements by Sub-Category included in Appendix III, as well as the Test Methods and Minimum Levels associated with each parameter provided in Appendix VI.

<sup>2</sup> BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

<sup>3</sup> EDB is a groundwater contaminant at fuel spill and pesticide application sites in New England.

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
13. tert-Amyl Methyl Ether (TAME)	9940508	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3	Grab	8260B	2 ug/L	8	0.0001	5.33	0.00001
14. Naphthalene	91203	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8260B	5 ug/L	ND (5)	NA		
15. Carbon Tetrachloride	56235	<input type="checkbox"/>	<input type="checkbox"/>	NA							
16. 1,2 Dichlorobenzene (o-DCB)	95501	<input type="checkbox"/>	<input type="checkbox"/>	NA							
17. 1,3 Dichlorobenzene (m-DCB)	541731	<input type="checkbox"/>	<input type="checkbox"/>	NA							
18. 1,4 Dichlorobenzene (p-DCB)	106467	<input type="checkbox"/>	<input type="checkbox"/>	NA							
18a. Total dichlorobenzene		<input type="checkbox"/>	<input type="checkbox"/>	NA							
19. 1,1 Dichloroethane (DCA)	75343	<input type="checkbox"/>	<input type="checkbox"/>	NA							
20. 1,2 Dichloroethane (DCA)	107062	<input type="checkbox"/>	<input type="checkbox"/>	NA							
21. 1,1 Dichloroethene (DCE)	75354	<input type="checkbox"/>	<input type="checkbox"/>	NA							
22. cis-1,2 Dichloroethene (DCE)	156592	<input type="checkbox"/>	<input type="checkbox"/>	NA							
23. Methylene Chloride	75092	<input type="checkbox"/>	<input type="checkbox"/>	NA							
24. Tetrachloroethene (PCE)	127184	<input type="checkbox"/>	<input type="checkbox"/>	NA							
25. 1,1,1 Trichloro-ethane (TCA)	71556	<input type="checkbox"/>	<input type="checkbox"/>	NA							
26. 1,1,2 Trichloro-ethane (TCA)	79005	<input type="checkbox"/>	<input type="checkbox"/>	NA							
27. Trichloroethene (TCE)	79016	<input type="checkbox"/>	<input type="checkbox"/>	NA							

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
28. Vinyl Chloride (Chloroethene)	75014	<input type="checkbox"/>	<input type="checkbox"/>	NA							
29. Acetone	67641	<input type="checkbox"/>	<input type="checkbox"/>	NA							
30. 1,4 Dioxane	123911	<input type="checkbox"/>	<input type="checkbox"/>	NA							
31. Total Phenols	108952	<input type="checkbox"/>	<input type="checkbox"/>	NA							
32. Pentachlorophenol (PCP)	87865	<input type="checkbox"/>	<input type="checkbox"/>	NA							
33. Total Phthalates (Phthalate esters) <sup>4</sup>		<input type="checkbox"/>	<input type="checkbox"/>	NA							
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	117817	<input type="checkbox"/>	<input type="checkbox"/>	NA							
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	5 ug/L	ND(0.5)	NA		
a. Benzo(a) Anthracene	56553	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	5 ug/L	ND(0.5)	NA		
b. Benzo(a) Pyrene	50328	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	5 ug/L	ND(0.2)	NA		
c. Benzo(b)Fluoranthene	205992	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	5 ug/L	ND(0.5)	NA		
d. Benzo(k)Fluoranthene	207089	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	5 ug/L	ND(0.5)	NA		
e. Chrysene	21801	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	5 ug/L	ND(0.5)	NA		
f. Dibenzo(a,h)anthracene	53703	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	5 ug/L	ND(0.5)	NA		
g. Indeno(1,2,3-cd) Pyrene	193395	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	5 ug/L	ND(0.5)	NA		
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	Grab	8270D	5 ug/L	2.1	0.00003		

<sup>4</sup> The sum of individual phthalate compounds.

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
h. Acenaphthene	83329	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	Grab	8270D	5 ug/L	1.5	0.00002		
i. Acenaphthylene	208968	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	5 ug/L	ND(0.5)	NA		
j. Anthracene	120127	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	5 ug/L	ND(0.5)	NA		
k. Benzo(ghi) Perylene	191242	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	5 ug/L	ND(0.5)	NA		
l. Fluoranthene	206440	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	5 ug/L	ND(0.5)	NA		
m. Fluorene	86737	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	Grab	8270D	5 ug/L	0.6	0.00001		
n. Naphthalene	91203	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	5 ug/L	ND(0.5)	NA		
o. Phenanthrene	85018	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	5 ug/L	ND(0.5)	NA		
p. Pyrene	129000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	5 ug/L	ND(0.5)	NA		
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817.	<input type="checkbox"/>	<input type="checkbox"/>	NA							
38. Chloride	16887006	<input type="checkbox"/>	<input type="checkbox"/>	NA							
39. Antimony	7440360	<input type="checkbox"/>	<input type="checkbox"/>	NA							
40. Arsenic	7440382	<input type="checkbox"/>	<input type="checkbox"/>	NA							
41. Cadmium	7440439	<input type="checkbox"/>	<input type="checkbox"/>	NA							
42. Chromium III (trivalent)	16065831	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	200.7	50 ug/L	ND(50)	NA		
43. Chromium VI (hexavalent)	18540299	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	7196A	10 ug/L	ND(10)	NA		
44. Copper	7440508	<input type="checkbox"/>	<input type="checkbox"/>	NA							
45. Lead	7439921	<input type="checkbox"/>	<input type="checkbox"/>	NA							
46. Mercury	7439976	<input type="checkbox"/>	<input type="checkbox"/>	NA							
47. Nickel	7440020	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	200.7	50 ug/L	ND(50)	NA		
48. Selenium	7782492	<input type="checkbox"/>	<input type="checkbox"/>	NA							
49. Silver	7440224	<input type="checkbox"/>	<input type="checkbox"/>	NA							
50. Zinc	7440666	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	200.7	50 ug/L	ND(50)	NA		
51. Iron	7439896	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	Grab	200.7	50 ug/L	1100	0.018		
Other (describe):		<input type="checkbox"/>	<input type="checkbox"/>								

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
Isopropylbenzene	98828	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3	Grab	8260B	2 ug/L	4	0.00007	2.33	0.000005
n-Propylbenzene	103651	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3	Grab	8260B	2 ug/L	4	0.00007	2.33	0.000005

b) For discharges where **metals** are believed present, please fill out the following (attach results of any calculations):

<p><i>Step 1:</i> Do any of the metals in the influent exceed the effluent limits in Appendix III (i.e., the limits set at zero dilution)? Y <input checked="" type="radio"/> N <input type="radio"/></p>	<p>If yes, which metals?</p> <p>Iron</p>										
<p><i>Step 2:</i> For any metals which exceed the <b>Appendix III</b> limits, calculate the <b>dilution factor (DF)</b> using the formula in Part I.A.3.c (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals?</p> <table border="1" style="width: 100%;"> <tr> <td>Metal: Iron</td> <td>DF: 1</td> </tr> <tr> <td>Metal: _____</td> <td>DF: _____</td> </tr> <tr> <td>Metal: _____</td> <td>DF: _____</td> </tr> <tr> <td>Metal: _____</td> <td>DF: _____</td> </tr> <tr> <td>Etc.</td> <td></td> </tr> </table>	Metal: Iron	DF: 1	Metal: _____	DF: _____	Metal: _____	DF: _____	Metal: _____	DF: _____	Etc.		<p>Look up the limit calculated at the corresponding dilution factor in <b>Appendix IV</b>. Do any of the metals in the <b>influent</b> have the potential to exceed the corresponding <b>effluent</b> limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)?</p> <p>Y <input checked="" type="radio"/> N <input type="radio"/> If Y, list which metals:</p> <p>Iron</p>
Metal: Iron	DF: 1										
Metal: _____	DF: _____										
Metal: _____	DF: _____										
Metal: _____	DF: _____										
Etc.											

**4. Treatment system information.** Please describe the treatment system using separate sheets as necessary, including:

a) A description of the treatment system, including a schematic of the proposed or existing treatment system:						
The ground water remediation system was installed at the Site in 1994 and consists of a 40-foot-long interceptor trench, installed parallel to the cove shoreline, a 15-inch diameter recovery well (RW-1) centered in the trench, a submersible ground water extraction pump, and an in situ oil-water separator. Extracted ground water is pumped through two primary liquid granulated activated carbon (LGAC) units that contain approximately 300 pounds of reactivated LGAC (600 pounds total) and are supplemented by two secondary units containing 180 pounds each (360 pounds total) before being discharged to the Piscataqua River. The LGAC units are housed in a heated 10-foot by 14-foot equipment compound.						
b) Identify each applicable treatment unit (check all that apply):	Frac. tank <input type="checkbox"/>	Air stripper <input type="checkbox"/>	Oil/water separator <input type="checkbox"/>	Equalization tanks <input type="checkbox"/>	Bag filter <input type="checkbox"/>	GAC filter <input checked="" type="checkbox"/>
	Chlorination <input type="checkbox"/>	De-chlorination <input type="checkbox"/>	Other (please describe):	The in situ oil-water separator consists of a solid PVC casing suspended in the well and intersects the ground water elevation to prevent potential NAPL from being pumped to the GAC.		

c) Proposed **average** and **maximum flow rates** (gallons per minute) for the discharge and the **design flow rate(s)** (gallons per minute) of the treatment system:  
 Average flow rate of discharge  gpm Maximum flow rate of treatment system  gpm  
 Design flow rate of treatment system  gpm

d) A description of chemical additives being used or planned to be used (attach MSDS sheets):

**5. Receiving surface water(s).** Please provide information about the receiving water(s), using separate sheets as necessary:

a) Identify the discharge pathway:	Direct to receiving water <input checked="" type="checkbox"/>	Within facility (sewer) <input type="checkbox"/>	Storm drain <input type="checkbox"/>	Wetlands <input type="checkbox"/>	Other (describe): <input type="text"/>
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b) Provide a narrative description of the discharge pathway, including the name(s) 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 dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water  
 The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.

d) Provide the state water quality classification of the receiving water

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water  cfs  
 Please 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? Y  N  If yes, for which pollutant(s)?  
 NHEST600031001-02-01 : PCBs, Dioxin (incl. 2,3,7,8-TCDD), Mercury.  
 Is there a final TMDL? Y  N  If yes, for which pollutant(s)?

**6. ESA and NHPA Eligibility.**

Please provide the following information according to requirements of Permit Parts I.A.4 and I.A.5 Appendices II and VII.

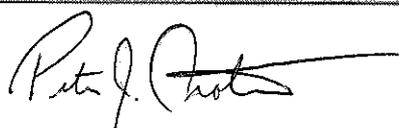
<p>a) Using the instructions in Appendix VII and information on Appendix II, under which criterion listed in Part I.C are you eligible for coverage under this general permit? A <input checked="" type="radio"/> B <input type="radio"/> C <input type="radio"/> D <input type="radio"/> E <input type="radio"/> F <input type="radio"/></p> <p>b) If you selected Criterion D or F, has consultation with the federal services been completed? Y <input type="radio"/> N <input type="radio"/> Underway <input type="radio"/></p> <p>c) If consultation with U.S. Fish and Wildlife Service and/or NOAA Fisheries Service was completed, was a written concurrence finding that the discharge is “not likely to adversely affect” listed species or critical habitat received? Y <input type="radio"/> N <input checked="" type="radio"/></p> <p>d) Attach documentation of ESA eligibility as described in the NOI instructions and required by Appendix VII, Part I.C, Step 4.</p>
<p>e) Using the instructions in Appendix VII, under which criterion listed in Part II.C are you eligible for coverage under this general permit? 1 <input checked="" type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/></p> <p>f) If Criterion 3 was selected, attach all written correspondence with the State or Tribal historic preservation officers, including any terms and conditions that outline measures the applicant must follow to mitigate or prevent adverse effects due to activities regulated by the RGP.</p>

**7. Supplemental information.**

<p>Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.</p>
<p>Discharge is to a tidal creek/cove, a saltwater body, and therefore, the 7Q10 calculations is not applicable.</p>

**8. Signature Requirements:** The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following certification:

*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed 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, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*

Facility/Site Name:	Sprague Energy, Avery Lane Terminal
Operator signature:	
Printed Name & Title:	Peter Croteau, Regional HSE Manager
Date:	December 9, 2010

**B. Submission of NOI to EPA** - All operators applying for coverage under this General Permit must submit a completed Notice of Intent (NOI) to EPA. Signed and completed NOI forms and attachments must be submitted to EPA-NE at:

U.S. Environmental Protection Agency  
5 Post Office Square, Suite 100  
Mail Code OEP06-4  
Boston, MA 02109-3912  
ATTN: Remediation General Permit NOI Processing

or electronically mailed to NPDES.Generalpermits@epa.gov

or faxed to the EPA Office at 617-918-0505

If filling out the suggested NOI form electronically on EPA's website, the signature page must be signed and faxed or mailed to EPA at the fax number and/or address listed above.

1. Filing with the states - A copy of any NOI form filed with EPA-NE must also be filed with state agencies. The state agency may elect to develop a state specific form or other information requirements.

a) Discharges in Massachusetts - In addition to the NOI, permit applicants must submit copies of the State Application Form BRPWM 12, Request for General Permit coverage for the RGP. The application form and the Transmittal Form for Permit Application and Payment may be obtained from the Massachusetts Department of Environmental Protection (MassDEP) website at [www.statc.ma.us/dep](http://www.statc.ma.us/dep). Municipalities are fee-exempt, but should send a copy of the transmittal form to that address for project tracking purposes. All applicants should keep a copy of the transmittal form and a copy of the application package for their records.

1) A copy of the NOI, the transmittal form, a copy of the check, and Form BRPWM 12 should be sent to:

Massachusetts Department of Environmental Protection  
Division of Watershed Management  
627 Main Street, 2<sup>nd</sup> floor  
Worcester, MA 01608

2) A copy of the transmittal form and the appropriate fee should be sent to:

Massachusetts Department of Environmental Protection  
P.O. Box 4062  
Boston, MA 02111

Please note: Applicants for discharges in Massachusetts should note that under 310 CMR 40.000, *as a matter of state law*, the general permit only applies to discharges that are **not** subject to the

Massachusetts Contingency Plan (MCP) and 310 CMR 40.000. Therefore, discharges subject to the MCP are **not** required to fill out and submit the State Application Form BRPWM 12 or pay the state fees. However, they must submit a NOI to EPA.

b) Discharges in New Hampshire - applicants must provide a copy of the Notice of Intent to:

New Hampshire Department of Environmental Services  
Water Division  
Wastewater Engineering Bureau  
P.O. Box 95  
Concord, New Hampshire 03302-0095.

2. Filing with Municipalities - A copy of the NOI must be submitted to the municipality in which the proposed discharge would be located.



**ATTACHMENT B**  
**ENDANGERED SPECIES ACT SUPPORTING INFORMATION**



US Counties in Which the Roseate Tern, Northeast U.S. Nesting Population, is Known to or is Believed to Occur

State	County
Connecticut	Statewide
Maine	Cumberland
Maine	Hancock
Maine	Knox
Maine	Lincoln
Maine	Sagadahoc
Maine	Washington
Maine	York
Massachusetts	Statewide
New Jersey	Statewide
New York	Statewide
North Carolina	Carteret
North Carolina	Dare
Rhode Island	Statewide
Virginia	Accomack
Virginia	Northampton
Virginia	Virginia Beach

**Remediation General Permit  
Appendix II**

**Endangered Species Act: List of Species by County  
in Massachusetts and in New Hampshire**

The following is the U.S. Fish and Wildlife Service (FWS) listing of federally endangered and threatened species for counties in Massachusetts and New Hampshire. If you are located close to the border of a county or your site is located in one county and your discharge points are located in another, you must look under both counties.

The New Hampshire and Massachusetts lists were updated on 7/31/2008; however, please note that species are listed and de-listed periodically. To get the most current list at the time you are conducting your endangered species assessment, see the FWS Endangered Species Program website at <http://www.fws.gov/endangered/> and the U.S. FWS New England Field Office website at <http://www.fws.gov/newengland/index.htm>

**FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES  
IN MASSACHUSETTS**

COUNTY	SPECIES	FEDERAL STATUS	GENERAL LOCATION/HABITAT	TOWNS
Barnstable	Piping Plover	Threatened	Coastal Beaches	All Towns
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	All Towns
	Northeastern beach tiger beetle	Threatened	Coastal Beaches	Chatham
	Sandplain gerardia	Endangered	Open areas with sandy soils.	Sandwich and Falmouth.
	Northern Red-bellied cooter	Endangered	Inland Ponds and Rivers	Bourne (north of the Cape Cod Canal)
Berkshire	Bog Turtle	Threatened	Wetlands	Egremont and Sheffield
Bristol	Piping Plover	Threatened	Coastal Beaches	Fairhaven, Dartmouth, Westport
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Fairhaven, New Bedford, Dartmouth, Westport
	Northern Red-bellied cooter	Endangered	Inland Ponds and Rivers	Raynham and Taunton
Dukes	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	All Towns
	Piping Plover	Threatened	Coastal Beaches	All Towns
	Northeastern beach tiger beetle	Threatened	Coastal Beaches	Aquinnah and Chilmark
	Sandplain gerardia	Endangered	Open areas with sandy soils.	West Tisbury
Essex	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Gloucester, Essex and Manchester
	Piping Plover	Threatened	Coastal Beaches	Gloucester, Essex, Ipswich, Rowley, Revere, Newbury, Newburyport and Salisbury
Franklin	Northeastern bulrush	Endangered	Wetlands	Montague
	Dwarf wedgemussel	Endangered	Mill River	Whately
Hampshire	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Hadley
	Puritan tiger beetle	Threatened	Sandy beaches along the Connecticut River	Northampton and Hadley
	Dwarf wedgemussel	Endangered	Rivers and Streams.	Hadley, Hatfield, Amherst and Northampton
Hampden	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Southwick
Middlesex	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Groton
Nantucket	Piping Plover	Threatened	Coastal Beaches	Nantucket
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Nantucket
	American burying beetle	Endangered	Upland grassy meadows	Nantucket
Plymouth	Piping Plover	Threatened	Coastal Beaches	Scituate, Marshfield, Duxbury, Plymouth, Wareham and Mattapoisett
	Northern Red-bellied cooter	Endangered	Inland Ponds and Rivers	Kingston, Middleborough, Carver, Plymouth, Bourne, and Wareham
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Plymouth, Merion, Wareham, and Mattapoisett.
Suffolk	Piping Plover	Threatened	Coastal Beaches	Winthrop
Worcester	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Leominster

- Eastern cougar and gray wolf are considered extirpated in Massachusetts.
- Endangered gray wolves are not known to be present in Massachusetts, but dispersing individuals from source populations in Canada may occur statewide.
- Critical habitat for the Northern Red-bellied cooter is present in Plymouth County.

7/31/2008

**FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES  
 IN NEW HAMPSHIRE**

COUNTY	SPECIES	FEDERAL STATUS	GENERAL LOCATION/HABITAT	TOWNS
Belknap	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Meredith, Alton and Laconia
Carroll	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Albany, Eaton, Madison Wolfeboro, Brookfield and Wakefield
Coos	Canada Lynx	Threatened	Regenerating softwood forest, usually with a high density of snowshoe hare.	All Towns
	Dwarf wedgemussel	Endangered	Connecticut River main channel and Johns River	Northumberland, Lancaster and Dalton
Cheshire	Dwarf wedgemussel	Endangered	S. Branch Ashuelot River and Ashuelot River	Swanzey, Keene and Surry
Grafton	Dwarf wedgemussel	Endangered	Connecticut River main channel	Haverhill, Piermont, Orford and Lyme
	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Holderness
Hillsborough	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Weare
Merrimack	Karner Blue Butterfly	Endangered	Pine Barrens with wild blue lupine	Concord and Pembroke
	Small whorled Pogonia	Threatened	Forests	Danbury, Epsom, Warner and Allenstown
Rockingham	Piping Plover	Threatened	Coastal Beaches	Hampton and Seabrook
	Roseate Tern	Endangered	Atlantic Ocean and nesting at the Isle of Shoals	
	Small whorled Pogonia	Threatened	Forests	Northwood, Nottingham, and Epping
Strafford	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Middleton, New Durham, Milton, Farmington, Strafford, Barrington, and Madbury
Sullivan	Northeastern bulrush	Endangered	Wetlands	Acworth, Charlestown, Langdon and Walpole
	Dwarf wedgemussel	Endangered	Connecticut River main channel	Plainfield, Cornish, Claremont and Charlestown
	Jesup's milk-vetch	Endangered	Banks of the Connecticut River	Plainfield and Claremont

- Eastern cougar, gray wolf and Puritan tiger beetle are considered extirpated in New Hampshire.
- Endangered gray wolves are not known to be present in New Hampshire, but dispersing individuals from source populations in Canada may occur statewide.
- There is no federally-designated Critical Habitat in New Hampshire.

7/31/2008