UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 1
5 Post Office Square, Suite 100
BOSTON, MA 02109-3912

CERTIFIED MAIL RETURN RECEIPT REQUESTED

APR 27 2011

Meredith Simas
Supervisor Environmental Regulations
Dominion Energy Brayton Point, LLC
1 Brayton Point Road
Somerset, MA 02725

Re: Authorization to discharge under the Remediation General Permit (RGP) – MAG910000. Brayton Point Station site located at 1 Brayton Point Road, Somerset Bristol County; Authorization # MAG910385 - Reissuance

Dear Ms. Simas:

Based on the review of a Notice of Intent (NOI) submitted on behalf your Company Dominion Energy Brayton Point, L.L.C., for the site referenced above, the U.S. Environmental Protection Agency (EPA) hereby authorizes you, as the named Owner and 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 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 enclosed checklist includes parameters which you have marked believed present even though these did not exceeded the RGP appendix III requirements. EPA understanding is that your selection of "believed present" is to prevent future noncompliance in the event these metals reappear in the effluent as they have in the past, at levels which may violate RGP requirements.

Also, please note that the metals included on the checklist are dilution dependent pollutants and subject to limitations based on selected dilution ranges and technology-based ceiling limitations. With the absence of dilution of freshwater into tidal water, EPA determined that the Dilution Factor Range (DFR) for each parameter for this site is in the one and five (1-5) range. (See the RGP Appendix IV for Massachusetts facilities). Therefore, the limits for arsenic of 36 ug/L, copper of 3.7 ug/L, nickel of 8.2 ug/L, and iron of 1,000 ug/L, are required to achieve permit compliance at your site.

Finally, please note the checklist 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 this project will terminate on December 31, 2012. If for any reason the discharge terminates sooner 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: Kathleen Keohane, MassDEP
Cathy C. Taylor, Dominion

2010 Remediation General Permit
Summary of Monitoring Parameters[1]

NPDES Authorization Number:	**MAG910385**
Month of issued authorization :	April, 2011
Facility/Site Name:	Brayton Point Station
Facility/Site Address:	1 Brayton Point Road, Somerset, Bristol County, MA 02725
	Email address of owner:Meredith.Simas@dom.com
Legal Name of Operator:	Dominion Energy Brayton Point, L.L.C, Somerset, MA
Operator contact name, title, and Address:	Supervisor Environmental Regulations, Dominion Energy Brayton Point, LLC, 1 Brayton Point Road, Somerset, MA 02725
	Email: Same as the owner
Estimated Date of Completion:	December 31, 2012
Category and Sub-Category:	Category II. Non Petroleum Site Remediation. Subcategory C. Primarily Heavy Metals Sites
Receiving Water:	Mount Hope Bay

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

	Parameter	**Effluent Limit/Method#/ML** (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/ML5ug/L
	2. Total Residual Chlorine (TRC) [1]	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/ML 5.0mg/L
	4. Cyanide (CN) [2, 3]	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

	Parameter	Effluent Limit/Method#/ML (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	9. Total Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) [4]	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
	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 [5]	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/ ML 5ug/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/ML 50ug/L
	31. Total Phenols	300 ug/L Me#420.1&420.2/ML 2 ug/L/ Me# 420.4 /ML 50ug/L
	32. Pentachlorophenol (PCP)	1.0 ug/L /Me#8270D/ML 5ug/L,Me#604 &625/ML 10ug/L
	33. Total Phthalates (Phthalate esters) [6]	3.0 ug/L ** /Me#8270D/ML 5ug/L, Me#606/ML 10ug/L& Me#625/ML 5ug/L
	34. Bis (2-Ethylhexyl) Phthalate [Di- (ethylhexyl) Phthalate]	6.0 ug/L /Me#8270D/ML 5ug/L,Me#606/ML 10ug/L & Me#625/ML 5ug/L

	Parameter	Effluent Limit/Method#/ML (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	10.0 ug/L
	a. Benzo(a) Anthracene [7]	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	b. Benzo(a) Pyrene [7]	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	c. Benzo(b)Fluoranthene [7]	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	d. Benzo(k)Fluoranthene [7]	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	e. Chrysene [7]	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	f. Dibenzo(a,h)anthracene [7]	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
	g. Indeno(1,2,3-cd) Pyrene [7]	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML5ug/L
	36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	100 ug/L
	h. Acenaphthene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	i. Acenaphthylene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	j. Anthracene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	k. Benzo(ghi) Perylene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	l. Fluoranthene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	m. Fluorene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	n. Naphthalene [5]	20 ug/l / Me#8270/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	o. Phenanthrene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	p. Pyrene	X/Me#8270D/ML5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	37. Total Polychlorinated Biphenyls (PCBs) [8, 9]	0.000064 ug/L/Me# 608/ ML 0.5 ug/L
√	38. Chloride	Monitor only/Me# 300.0/ ML 0.1ug/L

	Metal parameter	Total Recoverable Metal Limit @ H [10]= 50 mg/l CaCO3 for discharges in Massachusetts (ug/l) [11/12]	Minimum level=ML

			Saltwater		
	39. Antimony	5.6/ML 10			
√	40. Arsenic **		36/ML 20		
	41. Cadmium **		8.9/ML 10		
	42. Chromium III (trivalent) **		100/ML 15		
	43. Chromium VI (hexavalent) **		50.3/ML 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[13]
√	55. pH Range for Class SA & Class SB Waters in MA	6.5-8.3; 1/Month/Grab[13]
	56. pH Range for Class B Waters in NH	6.5-8; 1/Month/Grab[13]
	57. Daily maximum temperature - Warm water fisheries	83°F; 1/Month/Grab[14]
	58. Daily maximum temperature - Cold water fisheries	68°F; 1/Month/Grab[14]
	59. Maximum Change in Temperature in MA - Any Class A water body	1.5°F; 1/Month/Grab[14]
	60. Maximum Change in Temperature in MA - Any Class B water body- Warm Water	5°F; 1/Month/Grab[14]
	61. Maximum Change in Temperature in MA – Any Class B water body - Cold water and Lakes/Ponds	3°F; 1/Month/Grab[14]
	62. Maximum Change in Temperature in MA – Any Class SA water body - Coastal	1.5°F; 1/Month/Grab[14]
	63. Maximum Change in Temperature in MA – Any Class SB water body - July to September	1.5°F; 1/Month/Grab[14]
	64. Maximum Change in Temperature in MA –Any Class SB water body - October to June	4°F; 1/Month/Grab[14]

Footnotes:

[1] 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).
[2] 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.

[3] 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).
[4] BTEX = sum of Benzene, Toluene, Ethylbenzene, and total Xylenes.
[5] 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.
[6] 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.
[7] 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.
[8] 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.
[9]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).
[10] Hardness. Cadmium, Chromium III, Copper, Lead, Nickel, Silver, and Zinc are Hardness Dependent.
[11] 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 x 1,000ug/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 x 2 =2,000 ug/L., etc. not to exceed the DF=5.
[12] 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).
[13] pH sampling for compliance with permit limits may be performed using field methods as provided for in EPA test Method 150.1.
[14] Temperature sampling per Method 170.1

Notice of Intent
Renewal of Coverage under the Remediation General Permit
NPDES Permit MAG910000

Submitted By

Dominion Energy Brayton Point, LLC
Somerset, MA

Submitted To

United States Environmental Protection Agency
Boston, MA

And

Massachusetts Department of Environmental Protection
Division of Watershed Management
Worcester, MA

Dominion Resources Services, Inc.
5000 Dominion Boulevard, Glen Allen, VA 23060
Web Address: www.dom.com

Dominion®

December 2, 2010

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

Dominion Energy Brayton Point, LLC, Somerset, Massachusetts
NOI for Renewal of Coverage under the Remediation General Permit (RGP) for Massachusetts

Dear Reviewer:

In October of 2008 the Massachusetts Department of Environmental Protection (MADEP) and the United States Environmental Protection Agency (EPA) granted coverage under the Remediation General Permit ("RGP") to Dominion Energy Brayton Point, LLC ("Dominion"). With the expiration of previous RPG on September 9, 2010, the EPA granted 90 days for permittees to submit a Notice of Intent ("NOI") to continue RGP coverage. Dominion is therefore submitting the attached National Pollutant Discharge Elimination System ("NPDES") NOI for renewal of the current coverage for the Brayton Point Station.

This application addresses dewatering requirements associated with excavations for the installation of foundations, and laying underground piping, for the Closed Cycle Cooling Project. This project is being conducted per the terms of an EPA order dated December 17, 2007 and a Massachusetts Department of Environmental Protection order dated March 27, 2008 to implement the National Pollutant Discharge Elimination System (NPDES) permit for Brayton Point Station. The Closed Cycle Cooling Project consists of installing the natural draft cooling water system and supporting equipment to convert the entire facility from once through cooling to closed cycle cooling in order to meet the heat and flow effluent limits of the NPDES permit, and related equipment and operating changes.

While no discharge of wastewater associated with these activities has occurred under the RGP to date, the potential for dewatering discharges authorized under the RGP still exists during some phases of the construction.

In addition to the application form, we have attached: a site location map (Figure 1); a proposed treatment system diagram (Figure 2); a map showing the potential discharge flow path and the location of the outfall (Figure 3); supporting groundwater analytical data; and agency correspondence.

Potential constituents of concern include total suspended solids and metals above the RGP effluent limits. The proposed dewatering treatment system will have a maximum flow of about 200 gallons per minute ("gpm") and is expected to periodically operate at rates averaging 20 gallons per minute. The treatment system will consist of the following process components:

- 21,000 gallon mobile fractionation tank with an internal underflow/overflow weir settling system for removal of suspended solids, settleable solids, and oil and grease if present;
- In-line bag filters for effluent polishing prior to media filter tanks;
- 36" diameter media filter tanks filled with a green sand system; and
- If required, a carbon vessel tank will be added.

Treated effluent from the system will be discharged via hose to an existing catch basin (see Figure 3), which in turn discharge to Mount Hope Bay via Outfall 001. The proposed construction dewatering treatment system will be maintained and monitored in accordance will all applicable requirements under the RGP. Dominion anticipates that the dewatering system may be required through December 2012.

Mount Hope Bay is listed on the Massachusetts 303(d) list as an impaired water body for the following constituents:

- Unknown toxicity,
- Organic enrichment/low DO,
- Nutrients,
- Thermal modifications, and
- Pathogens.

Discharge of treated effluent from the construction dewatering treatment system will be in compliance with the effluent limitations contained in the RGP and will not exacerbate any water quality conditions noted above.

The previous MADEP and EPA RGP approvals are attached as well as correspondence with the U.S. Fish and Wildlife Service ("USFWS"). A review of the current USFWS listings supports the previous finding that no federally-listed or proposed, threatened or endangered species or critical habitat within the project vicinity and concluded no further consultation is required with regards to this project.

The Massachusetts Historical Commission ("MHC") has previously determined (2006) that discharge from treated effluent in the vicinity of this project area at Brayton Point will not impact any significant historical or archeological resources on the project site.

If you have any questions or would like additional information, please feel free to call Meredith Simas at 508-646-5338.

Sincerely,

Cathy C. Taylor

Director Dominion Environmental Services

cc: * Massachusetts Department of Environmental Protection
Division of Watershed Management
627 Main Street, 2nd Floor
Worcester, MA 01608

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

*Copy of NOI, transmittal form, copy of check for fee
** Copy of the transmittal form and the check for the fee

MAPDEP Transmittal Form for Permit Application and Payment

Enter your transmittal number → X235757
Transmittal Number

Your unique Transmittal Number can be accessed online: http://mass.gov/dep/service/online/trasmfrm.shtml

Massachusetts Department of Environmental Protection

Transmittal Form for Permit Application and Payment

1. Please type or print. A separate Transmittal Form must be completed for each permit application.

2. Make your check payable to the Commonwealth of Massachusetts and mail it with a copy of this form to: DEP, P.O. Box 4062, Boston, MA 02211.

3. Three copies of this form will be needed.

Copy 1 - the original must accompany your permit application. **Copy 2** must accompany your fee payment. **Copy 3** should be retained for your records

4. Both fee-paying and exempt applicants must mail a copy of this transmittal form to:

MassDEP
P.O. Box 4062
Boston, MA
02211

*** Note:**
For BWSC Permits, enter the LSP.

A. Permit Information

1. Permit Code: 7 or 8 character code from permit instructions	2. Name of Permit Category
BRPWM12	Watershed Permitting (NPDES)

3. Type of Project or Activity: Remediation and Miscellaneous Contaminated Sites General Permit

B. Applicant Information – Firm or Individual

1. Name of Firm - Or, if party needing this approval is an individual enter name below: Dominion Energy Brayton Point, LLC

2. **Last Name** of Individual	3. **First Name** of Individual	4. MI

5. Street Address: 5000 Dominion Boulevard

6. City/Town	7. State	8. Zip Code	9. Telephone #	10. Ext. #
Glen Allen	VA	23060-6711	804-273-2920	

11. Contact Person	12. e-mail address (optional)
Katheryn Curtis	Katheryn.Curtis@dom.com

C. Facility, Site or Individual Requiring Approval

1. Name of Facility, Site Or Individual: Dominion Energy Brayton Point, LLC - Brayton Point Station

2. Street Address: 1 Brayton Point Road

3. City/Town	4. State	5. Zip Code	6. Telephone #	7. Ext. #
Somerset	MA	02726	508-646-5200	

8. DEP Facility Number (if Known)	9. Federal I.D. Number (if Known)	10. BWSC Tracking # (if Known)
1200061		

D. Application Prepared by (if different from Section B)*

1. Name of Firm Or Individual: Dominion Resouces Services, Inc.

2. Address: 40 Point Street

3. City/Town	4. State	5. Zip Code	6. Telephone #	7. Ext. #
Providence	RI	02903	401-457-9191	

8. Contact Person	9. LSP Number (BWSC Permits only)
Steven Horn	

E. Permit - Project Coordination

1. Is this project subject to MEPA review? ☒ yes ☐ no
   If yes, enter the project's EOEA file number - assigned when an Environmental Notification Form is submitted to the MEPA unit: 14235 (EOEA File Number)

F. Amount Due

DEP Use Only

Permit No:

Rec'd Date:

Reviewer:

Special Provisions:

1. ☐ **Fee** Exempt (city, town or municipal housing authority)(state agency if fee is $100 or less).
   There are no fee exemptions for BWSC permits, regardless of applicant status.
2. ☐ Hardship Request - payment extensions according to 310 CMR 4.04(3)(c).
3. ☐ Alternative Schedule Project (according to 310 CMR 4.05 and 4.10).
4. ☐ Homeowner (according to 310 CMR 4.02).

Check Number	Dollar Amount	Date
0650	$775	11/30/10

Remediation General Permit 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 **facility/site**: Brayton Point Station		**Facility/site** mailing address:		
Location of **facility/site**: longitude: 071 11' 28.4" W latitude: 041 43' 1.7" N	Facility SIC code(s): 4911	Street: Dominion Energy Brayton Point, LLC 1 Brayton Point Road		
b) Name of **facility/site owner:**		Town: Somerset		
Email address of facility/site owner: Meredith.Simas@dom.com		State: MA	Zip: 02725	County: Bristol
Telephone no. of facility/site **owner**: 508-646-5000				
Fax no. of facility/site **owner**: 888-284-2888		**Owner** is (check one): 1. Federal ○ 2. State/Tribal ○ 3. Private ◉ 4. Other ○ if so, describe:		
Address of **owner** (if different from site):				
Street: 5000 Dominion Boulevard				
Town: Glen Allen	State: VA	Zip: 23060	County:	
c) Legal name of **operator**: Dominion Energy Brayton Point, LLC	**Operator** telephone no: 508-646-5000			
	Operator fax no.: 508-646-5401	**Operator** email: Meredith.Simas@dom.com		
Operator contact name and title: Meredith Simas, Supervisor Environmental Regulation				
Address of **operator** (if different from owner):	Street: 1 Brayton Point Road			
Town: Somerset	State: MA	Zip: 02725	County: Bristol	

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: MAR05CV65
2. Final Dewatering General Permit? Y ○ N ◉, if Y, number:
3. EPA Construction General Permit? Y ◉ N ○, if Y, number: MAR100000
4. Individual NPDES permit? Y ◉ N ○, if Y, number: MA0003654
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.

Activity Category	**Activity Sub-Category**
I - Petroleum Related Site Remediation	A. Gasoline Only Sites ☐ B. Fuel Oils and Other Oil Sites (including Residential Non-Business Remediation Discharges) ☐ C. Petroleum Sites with Additional Contamination ☐
II - Non Petroleum Site Remediation	A. Volatile Organic Compound (VOC) Only Sites ☐ B. VOC Sites with Additional Contamination ☐ C. Primarily Heavy Metal Sites ☒
III - Contaminated Construction Dewatering	A. General Urban Fill Sites ☐ B. Known Contaminated Sites ☐

* Not Directly. Dewatering is for construction required to comply with EPA and MADEP orders to implement the NPDES permit for Brayton Point.

IV - Miscellaneous Related Discharges	A. Aquifer Pump Testing to Evaluate Formerly Contaminated Sites ☐ B. Well Development/Rehabilitation at Contaminated/Formerly Contaminated Sites ☐ C. Hydrostatic Testing of Pipelines and Tanks ☐ D. Long-Term Remediation of Contaminated Sumps and Dikes ☐ E. Short-term Contaminated Dredging Drain Back Waters (if not covered by 401/404 permit) ☐

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:

Dewatering associated with construction of closed loop cooling project in compliance with EPA and MADEP orders.

b) Provide the following information about each discharge:

1) Number of discharge points: 1 Outfall, 1 Catch Basin

2) What is the **maximum** and **average flow rate** of discharge (in cubic feet per second, ft^3/s)?
Max. flow 0.44 ft3/s Is maximum flow a **design value**? Y ○ N ◉
Average flow (include units) 0.05 ft3/s Is average flow a design value or estimate? Estimate

3) Latitude and longitude of each discharge within 100 feet:

pt.1: lat	41.7074	long	-71.1958	pt.2: lat.	41.7166	long.	-71.1905 ;
pt.3: lat		long		pt.4: lat.		long.	;
pt.5: lat		long		pt.6: lat.		long.	;
pt.7: lat		long		pt.8: lat.		long.	; etc.

4) If hydrostatic testing, total volume of the discharge (gals): NA

5) Is the discharge intermittent ◉ or seasonal ○ ?
Is discharge ongoing? Y ○ N ◉

c) Expected dates of discharge (mm/dd/yy): start 12/8/2010 end Dec 31, 2012

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): See Figures 2 and 3

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.

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)
1. Total Suspended Solids (TSS)		☐	☒	1	Grab	SM2540D	5 mg/l	2600			
2. Total Residual Chlorine (TRC)		☐	☐	N/A							
3. Total Petroleum Hydrocarbons (TPH)		☐	☐	N/A							
4. Cyanide (CN)	57125	☒	☐	1	Grab	EPA 335.4	5 ug/l	ND			
5. Benzene (B)	71432	☐	☐	N/A							
6. Toluene (T)	108883	☐	☐	N/A							
7. Ethylbenzene (E)	100414	☐	☐	N/A							
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207	☐	☐	N/A							
9. Total BTEX [2]	n/a	☐	☐	N/A							
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) [3]	106934	☐	☐	N/A							
11. Methyl-tert-Butyl Ether (MtBE)	1634044	☐	☐	N/A							
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650	☐	☐	N/A							

* 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.

[2] BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

[3] EDB is a groundwater contaminant at fuel spill and pesticide application sites in New England.

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)
13. tert-Amyl Methyl Ether (TAME)	9940508	☐	☐	N/A							
14. Naphthalene	91203	☐	☐	N/A							
15. Carbon Tetrachloride	56235	☒	☐	1	Grab	8260B*	5 ug/l*	ND			
16. 1,2 Dichlorobenzene (o-DCB)	95501	☒	☐	1	Grab	8260B*	5 ug/l*	ND			
17. 1,3 Dichlorobenzene (m-DCB)	541731	☒	☐	1	Grab	8260B*	5 ug/l*	ND			
18. 1,4 Dichlorobenzene (p-DCB)	106467	☒	☐	1	Grab	8260B*	5 ug/l*	ND			
18a. Total dichlorobenzene		☒	☐	1	Grab	8260B*	5 ug/l*	ND			
19. 1,1 Dichloroethane (DCA)	75343	☒	☐	1	Grab	8260B*	5 ug/l*	ND			
20. 1,2 Dichloroethane (DCA)	107062	☒	☐	1	Grab	8260B*	5 ug/l*	ND			
21. 1,1 Dichloroethene (DCE)	75354	☒	☐	1	Grab	8260B*	5 ug/l*	ND			
22. cis-1,2 Dichloroethene (DCE)	156592	☒	☐	1	Grab	8260B*	5 ug/l*	ND			
23. Methylene Chloride	75092	☒	☐	1	Grab	8260B*	5 ug/l*	ND			
24. Tetrachloroethene (PCE)	127184	☒	☐	1	Grab	8260B*	5 ug/l*	ND			
25. 1,1,1 Trichloro-ethane (TCA)	71556	☒	☐	1	Grab	8260B*	5 ug/l*	ND			
26. 1,1,2 Trichloro-ethane (TCA)	79005	☒	☐	1	Grab	8260B*	5 ug/l*	ND			
27. Trichloroethene (TCE)	79016	☒	☐	1	Grab	8260B*	5 ug/l*	ND			

* Parameters 15 - 28: Mthod 8260C is not yet available for use. EPA advises that 8260B is being accepted. The ML listed here is the ML listed in Appendix VI of the RGP for Method 8260C.

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	☒	☐	1	Grab	8260B*	5 ug/l*	ND			
29. Acetone	67641	☐	☐	N/A							
30. 1,4 Dioxane	123911	☐	☐	N/A							
31. Total Phenols	108952	☐	☐	N/A							
32. Pentachlorophenol (PCP)	87865	☐	☐	N/A							
33. Total Phthalates (Phthalate esters) [4]		☐	☐	N/A							
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	117817	☐	☐	N/A							
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		☐	☐	N/A							
a. Benzo(a) Anthracene	56553	☐	☐	N/A							
b. Benzo(a) Pyrene	50328	☐	☐	N/A							
c. Benzo(b)Fluoranthene	205992	☐	☐	N/A							
d. Benzo(k)Fluoranthene	207089	☐	☐	N/A							
e. Chrysene	21801	☐	☐	N/A							
f. Dibenzo(a,h)anthracene	53703	☐	☐	N/A							
g. Indeno(1,2,3-cd) Pyrene	193395	☐	☐	N/A							
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		☐	☐	N/A							

[4] The sum of individual phthalate compounds.

* Parameters 15 - 28: Mthod 8260C is not yet available for use. EPA advises that 8260B is being accepted. The ML listed here is the ML listed in Appendix VI of the RGP for Method 8260C.

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	☐	☐	N/A							
i. Acenaphthylene	208968	☐	☐	N/A							
j. Anthracene	120127	☐	☐	N/A							
k. Benzo(ghi) Perylene	191242	☐	☐	N/A							
l. Fluoranthene	206440	☐	☐	N/A							
m. Fluorene	86737	☐	☐	N/A							
n. Naphthalene	91203	☐	☐	N/A							
o. Phenanthrene	85018	☐	☐	N/A							
p. Pyrene	129000	☐	☐	N/A							
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817.	☐	☐	N/A							
38. Chloride	16887006	☐	☐	N/A							
39. Antimony	7440360	☒	☐	1	Grab	6010C	10 ug/l	ND			
40. Arsenic	7440382	☒	☐	1	Grab	6010C	20 ug/l	ND			
41. Cadmium	7440439	☒	☐	1	Grab	6010C	10 ug/l	ND			
42. Chromium III (trivalent)	16065831	☒	☐	1	Grab	6010C**	15 ug/l**	ND			
43. Chromium VI (hexavalent)	18540299	☒	☐	1	Grab	6010C**	15 ug/l**	ND			
44. Copper	7440508	☒	☐	1	Grab	6010C	15 ug/l	ND			
45. Lead	7439921	☒	☐	1	Grab	6010C	20 ug/l	ND			
46. Mercury	7439976	☒	☐	1	Grab	7470A	0.2ug/l	ND			
47. Nickel	7440020	☒	☐	1	Grab	6010C	20 ug/l	ND			
48. Selenium	7782492	☒	☐	1	Grab	6010C	20 ug/l	ND			
49. Silver	7440224	☒	☐	1	Grab	6010C	10 ug/l	ND			
50. Zinc	7440666	☒	☐	1	Grab	6010C	15 ug/l	ND			
51. Iron	7439896	☐	☒	1	Grab	6010C	20 ug/l	178 ug/l			
Other (describe):		☐	☐	N/A							

** RGP Appendix III calls for both Chromium III and Chromium VI to be analyzed. This is normally done by performing Total Chromium by Method 6010C and performing Chromium VI analysis by method 7196A. Subtracting the Chromium VI from the Total Chromium gives the Chromium III value. In this case, the lab did not achieve the required 24-hour hold time for the Chromium VI analysis but since Total Chromium was 'ND' by a method with a detection limit of 5 ug/l it is reasonable to conclude that neither Chromium III nor Chromium VI were present at concentrations greater than 5 ug/l.

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)
		☐	☐								
		☐	☐								

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

Step 1: Do any of the metals in the influent exceed the effluent limits in Appendix III (i.e., the limits set at zero dilution)? Y ○ N ◉	If yes, which metals? No metal concentrations exceeded effluent limits.
Step 2: For any metals which exceed the **Appendix III** limits, calculate the **dilution factor (DF)** 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? Metal: _____ DF: _____ Metal: _____ DF: _____ Metal: _____ DF: _____ Metal: _____ DF: _____ Etc.	Look up the limit calculated at the corresponding dilution factor in **Appendix IV.** Do any of the metals in the **influent** have the potential to exceed the corresponding **effluent** limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y ○ N ○ If Y, list which metals: N/A - Discharge to salt water

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:

Fractionation and filter bag for TSS removal; green sand filter for metals.

b) Identify each applicable treatment unit (check all that apply):	Frac. tank ☒	Air stripper ☐	Oil/water separator ☐	Equalization tanks ☐	Bag filter ☒	GAC filter ☐
	Chlorination ☐	De-chlorination ☐	Other (please describe):	Green sand filter		

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 20 gpm Maximum flow rate of treatment system 200 gpm
Design flow rate of treatment system 236 gpm

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

N/A

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 ☐	Within facility (sewer) ☐	Storm drain ☒	Wetlands ☐	Other (describe):

b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:
Treated water from dewatering activities will discharge to existing discharge points 21 and 22, which in turn discharge to Mount Hope Bay via NPDES outfall 001.

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 SB

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water N/A - saltwater 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)?

Is there a final TMDL? Y ○ N ◉ If yes, for which pollutant(s)? Unknown Toxicity, nutrient, thermal modifications, low DO, pathogens

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.

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 ○ B ◉ C ○ D ○ E ○ F ○

b) If you selected Criterion D or F, has consultation with the federal services been completed? Y ○ N ○ Underway ○

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 ◉ N ○

d) Attach documentation of ESA eligibility as described in the NOI instructions and required by Appendix VII, Part I.C, Step 4.

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 ○ 2 ◉ 3 ○

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.

7. Supplemental information.

Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.

Attachments include:
Figure 1 - Location Map
Figure 2 - General Diagram of Proposed Treatment System
Figure 3 - Location of Discharge Outfall
Laboratory Analysis
Agency Correspondence and ESA Evaluation

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:	Dominion Energy Brayton Point, LLC
Operator signature:	KB Curtis
Printed Name &Title:	Katheryn B. Curtis, Vice President Fossil and Hydro Merchant Operations
Date:	12/1/2010

Analytical Data

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES INC

67 South Bedford Street, Suite 101W
Burlington, Massachusetts 01803 TEL 781-270-6600 FAX 781-270-9066

October 6, 2010

Mr. Steven G. Horn
Dominion Resources Services, Inc.
40 Point Street
Providence, Rhode Island 02903

Re: Analytical Results for Remediation General Permit Notice of Intent
Dominion Brayton Point Station
Somerset, Massachusetts

Dear Mr. Horn:

Attached for your use are the analytical results of a groundwater sample collected at Dominion's Brayton Point Station located in Somerset, Massachusetts (the Site). The results are intended to be used by Dominion for renewing their Remediation General Permit, Permit No. MAG910000 (RGP) for discharging treated water generated from dewatering activities associated with the construction of two closed-loop cooling towers. The current RGP expired on September 9, 2010, and according to the United States Environmental Protection Agency (USEPA), current discharges have a 90-day grace period from the expiration date during which time they can apply to discharge under the new permit. The Notice of Intent (NOI) used to renew the RGP requires a minimum of one sample of the untreated water be collected and analyzed for parameters applicable to the sub-category listed in Appendix III of the RGP into which the discharge falls. For the Site, the applicable sub-category is Category II – Non Petroleum Site Remediation, Sub-Category – Primarily Heavy Metal Sites. The remainder of this letter provides a discussion of sampling and analysis activities performed.

On September 17, 2010, Roux Associates, Inc. (Roux Associates) collected a groundwater sample from monitoring well B97006 located at the southern end of Cell 1A. This well is screened in the shallow groundwater near where future excavation is planned associated with the construction of a sound barrier wall for the cooling towers.

Low-flow groundwater sampling protocol was used to collect the sample. The sample bottles were submitted to TestAmerica Laboratories, Inc. in Nashville, Tennessee for analysis. Analyses performed included the parameters listed in the RGP, Appendix III for Category II – Non Petroleum Site Remediation, Sub-Category – Primarily Heavy Metal Sites and copied below.

- Total Suspended Solids
- Cyanide

- Select Volatile Organic Compounds (VOCs):
    - Carbon tetrachloride; 1,2 Dichlorobenzene; 1,3 Dichlorobenzene; 1,4 Dichlorobenzene; 1,1 Dichloroethane; 1,2 Dichloroethane; 1,1 Dichloroethene; cis-1,2 Dichloroethene; Methylene chloride; Tetrachloroethene; 1,1,1 Trichloroethane; 1,1,2 Trichloroethane; Trichloroethene; and Vinyl chloride
- Select Metals:
    - Antimony, Arsenic, Cadmium, Total Chromium, Copper, Lead, Mercury, Nickel, Selenium, Silver, Zinc, and Iron

Note that the required Appendix III list of analytes includes both trivalent and hexavalent chromium. However, the laboratory did not set up the hexavalent chromium analysis in time to meet the required 24-hour hold time. The total chromium analysis was run, and the result was non-detect with a detection limit of 5 ug/L. Therefore, neither hexavalent nor trivalent chromium were present at concentrations greater than 5 ug/L. For comparison purposes, the RGP effluent standards for hexavalent and trivalent chromium for saltwater discharge are 50.3 ug/L, and 100 ug/L, respectively.

Please do not hesitate to call if you have any questions regarding the information presented in this letter, of if there is any additional information you would like.

Sincerely,

ROUX ASSOCIATES, INC.

Mark A. Lovejoy, P.E.
Senior Engineer

Enclosure;

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

October 01, 2010 2:08:06PM

Client: Roux Associates (13854)
67 South Bedford Street Ste 101W
Burlington, MA 01803
Attn: Mark Lovejoy

Work Order: NTI1719
Project Name: Dominion Energy
Project Nbr: Dominion Energy
P/O Nbr:
Date Received: 09/18/10

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
BP-97006	NTI1719-01	09/17/10 11:40
Trip Blank	NTI1719-02	09/17/10 00:01

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. These results relate only to the items tested, and this report may not be reproduced except in full and with the permission of the Laboratory. Any opinions, if expressed, are outside the scope of the Laboratory's accredidation.

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.

Certification Number: M-TN032

Additional Laboratory Comments:
REVISED REPORT: Not reporting Hexavalent Chromium due to missed holding time.

All samples were received in good condition, properly preserved, and properly labeled. All analyses were completed within holding times.

All no responses from the attached "MCP Response Action Analytical Report Certification Form" are addressed below.

H. The RPD for the Sample Duplicate1 value and the original sample value for Cyanide in batch 10l4084 was outside QC limits. The individual recoveries were within QC limits; therefore the data was accepted without further analysis.

I. The full MCP 6010C and 8260B CAM analyte lists were not reported. Only those analytes requested on the chain of custody by the client were reported.

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report.

These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

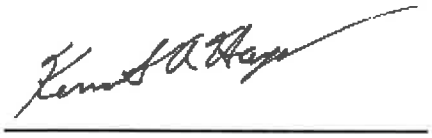
All solids results are reported in wet weight unless specifically stated.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Roux Associates (13854)	Work Order:	NTI1719
	67 South Bedford Street Ste 101W	Project Name:	Dominion Energy
	Burlington, MA 01803	Project Number:	Dominion Energy
Attn	Mark Lovejoy	Received:	09/18/10 08:00

Estimated uncertainty is available upon request.
This report has been electronically signed.
Report Approved By:



Ken A. Hayes

Senior Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Roux Associates (13854)	Work Order:	NTI1719
	67 South Bedford Street Ste 101W	Project Name:	Dominion Energy
	Burlington, MA 01803	Project Number:	Dominion Energy
Attn	Mark Lovejoy	Received:	09/18/10 08:00

Sample Cooler Information

Lab ID	Cooler ID	Temp	Seals	Containers Intact	Preservation Confirmed	On Ice
	5787	0.6C	No	Yes	Yes	Yes

MassDEP Analytical Protocol Certification Form

Laboratory Name: TestAmerica Analytical Testing Corporation | Project #: Dominion Energy

Project Location: Dominion Energy | RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):

NTI1719

Matrices: Groundwater/Surface Water Soil/Sediment Drinking Water Air Other:

CAM Protocol (check all that apply below):

8260 VOC CAM II A ✓	7470/7471 Hg CAM III B ✓	MassDEP VPH CAM IV A	8081 Pesticides CAM V B	7196 Hex Cr CAM VI B	MassDEP APH CAM IX A
8270 SVOC CAM II B	7010 Metals CAM III C	MassDEP EPH CAM IV B	8151 Herbicides CAM V C	8330 Explosives CAM VIII A	TO-15 VOC CAM IX B
6010 Metals CAM III A ✓	6020 Metals CAM III D	8082 PCB CAM V A	9014 Total Cyanide/PAC CAM VI A	6860 Perchlorate CAM VIII B	

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	✓ Yes No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	✓ Yes No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	✓ Yes No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	✓ Yes No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes No Yes No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	✓ Yes No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	✓ Yes No[1]

***Data User Note**: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.*

H	Were all QC performance standards specified in the CAM protocol(s) achieved?	Yes ✓ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes ✓ No[1]

[1] *All negative responses must be addressed in an attached laboratory narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Kenneth A Hayes **Position:** Senior Project Manager

Printed Name: Kenneth A Hayes **Date:** 10-1-10

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Client	Roux Associates (13854)	Work Order:	NTI1719
	67 South Bedford Street Ste 101W	Project Name:	Dominion Energy
	Burlington, MA 01803	Project Number:	Dominion Energy
Attn	Mark Lovejoy	Received:	09/18/10 08:00

ANALYTICAL REPORT

Analyte	Result	Units	Flag	Report Limit	Dil Factor	Extracted Date/Time	Analysis Date/Time	Analyst	Method	Batch
Sample ID: NTI1719-01 (BP-97006 - Ground Water) Sampled: 09/17/10 11:40										
General Chemistry Parameters										
Cyanide	ND	mg/L		0.00500	1	09/27/10 11:25	09/27/10 15:09	SAB	EPA 335.4	10I4084
Total Suspended Solids	**2.60**	mg/L		1.00	1	09/23/10 19:50	09/23/10 19:50	BMC	SM2540 D	10I3772
Chromium, Trivalent	ND	mg/L		0.00560	1	09/19/10 02:50	09/20/10 18:19	COB	SW846 7196A	[CALC]

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Attn	Mark Lovejoy	Received:	09/18/10 08:00

ANALYTICAL REPORT

Analyte	Result	Units	Flag	Report Limit	Dil Factor	Extracted Date/Time	Analysis Date/Time	Analyst	Method	Batch
Sample ID: NTI1719-01 (BP-97006 - Ground Water) - cont. Sampled: 09/17/10 11:40										
Total Metals by EPA 6010C										
Antimony	ND	mg/L		0.0100	1	09/19/10 02:50	09/20/10 18:19	SSN	SW846 6010C	10I2920
Arsenic	ND	mg/L		0.0100	1	09/19/10 02:50	09/20/10 18:19	SSN	SW846 6010C	10I2920
Cadmium	ND	mg/L		0.00100	1	09/19/10 02:50	09/20/10 18:19	SSN	SW846 6010C	10I2920
Chromium	ND	mg/L		0.00500	1	09/19/10 02:50	09/20/10 18:19	SSN	SW846 6010C	10I2920
Copper	ND	mg/L		0.0100	1	09/19/10 02:50	09/20/10 18:19	SSN	SW846 6010C	10I2920
Iron	**0.178**	mg/L		0.0500	1	09/19/10 02:50	09/20/10 18:19	SSN	SW846 6010C	10I2920
Lead	ND	mg/L		0.00500	1	09/19/10 02:50	09/20/10 18:19	SSN	SW846 6010C	10I2920
Nickel	ND	mg/L		0.0100	1	09/19/10 02:50	09/20/10 18:19	SSN	SW846 6010C	10I2920
Selenium	ND	mg/L		0.0100	1	09/19/10 02:50	09/20/10 18:19	SSN	SW846 6010C	10I2920
Silver	ND	mg/L		0.00500	1	09/19/10 02:50	09/20/10 18:19	SSN	SW846 6010C	10I2920
Zinc	ND	mg/L		0.0500	1	09/19/10 02:50	09/20/10 18:19	SSN	SW846 6010C	10I2920

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Attn	Mark Lovejoy	Received:	09/18/10 08:00

ANALYTICAL REPORT

Analyte	Result	Units	Flag	Report Limit	Dil Factor	Extracted Date/Time	Analysis Date/Time	Analyst	Method	Batch
Sample ID: NTI1719-01 (BP-97006 - Ground Water) - cont. Sampled: 09/17/10 11:40										
Mercury by EPA Methods 7470A/7471A										
Mercury	ND	mg/L		0.000200	1	09/18/10 19:00	09/20/10 15:36	MB	SW846 7470A	10I2929

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	Burlington, MA 01803	Project Number:	Dominion Energy
Attn	Mark Lovejoy	Received:	09/18/10 08:00

ANALYTICAL REPORT

Analyte	Result	Units	Flag	Report Limit	Dil Factor	Preserved Date/Time	Analysis Date/Time	Analyst	Method	Batch
Sample ID: NTI1719-01 (BP-97006 - Ground Water) - cont. Sampled: 09/17/10 11:40										
Volatile Organic Compounds by EPA Method 8260B										
Carbon Tetrachloride	ND	ug/L		1.00	1	09/21/10 07:58	09/21/10 15:27	CMM/H	SW846 8260B	1013286
1,2-Dichlorobenzene	ND	ug/L		1.00	1	09/21/10 07:58	09/21/10 15:27	CMM/H	SW846 8260B	1013286
1,3-Dichlorobenzene	ND	ug/L		1.00	1	09/21/10 07:58	09/21/10 15:27	CMM/H	SW846 8260B	1013286
1,4-Dichlorobenzene	ND	ug/L		1.00	1	09/21/10 07:58	09/21/10 15:27	CMM/H	SW846 8260B	1013286
1,2-Dichloroethane	ND	ug/L		1.00	1	09/21/10 07:58	09/21/10 15:27	CMM/H	SW846 8260B	1013286
1,1-Dichloroethane	ND	ug/L		1.00	1	09/21/10 07:58	09/21/10 15:27	CMM/H	SW846 8260B	1013286
1,1-Dichloroethene	ND	ug/L		1.00	1	09/21/10 07:58	09/21/10 15:27	CMM/H	SW846 8260B	1013286
cis-1,2-Dichloroethene	ND	ug/L		1.00	1	09/21/10 07:58	09/21/10 15:27	CMM/H	SW846 8260B	1013286
Methylene Chloride	ND	ug/L		2.00	1	09/21/10 07:58	09/21/10 15:27	CMM/H	SW846 8260B	1013286
Tetrachloroethene	ND	ug/L		1.00	1	09/21/10 07:58	09/21/10 15:27	CMM/H	SW846 8260B	1013286
1,1,1-Trichloroethane	ND	ug/L		1.00	1	09/21/10 07:58	09/21/10 15:27	CMM/H	SW846 8260B	1013286
1,1,2-Trichloroethane	ND	ug/L		1.00	1	09/21/10 07:58	09/21/10 15:27	CMM/H	SW846 8260B	1013286
Trichloroethene	ND	ug/L		1.00	1	09/21/10 07:58	09/21/10 15:27	CMM/H	SW846 8260B	1013286
Vinyl chloride	ND	ug/L		1.00	1	09/21/10 07:58	09/21/10 15:27	CMM/H	SW846 8260B	1013286
Surr: 1,2-Dichloroethane-d4 (70-130%)	*88 %*						09/21/10 15:27	CMM/H	SW846 8260B	1013286
Surr: Dibromofluoromethane (70-130%)	*92 %*						09/21/10 15:27	CMM/H	SW846 8260B	1013286
Surr: Toluene-d8 (70-130%)	*97 %*						09/21/10 15:27	CMM/H	SW846 8260B	1013286
Surr: 4-Bromofluorobenzene (70-130%)	*96 %*						09/21/10 15:27	CMM/H	SW846 8260B	1013286

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	Burlington, MA 01803	Project Number:	Dominion Energy
Attn	Mark Lovejoy	Received:	09/18/10 08:00

ANALYTICAL REPORT

Analyte	Result	Units	Flag	Report Limit	Dil Factor	Preserved Date/Time	Analysis Date/Time	Analyst	Method	Batch
Sample ID: NTI1719-02 (Trip Blank - Water) Sampled: 09/17/10 00:01										
Volatile Organic Compounds by EPA Method 8260B										
Carbon Tetrachloride	ND	ug/L		1.00	1	09/21/10 07:58	09/21/10 11:14	CMM/H	SW846 8260B	10I3286
1,2-Dichlorobenzene	ND	ug/L		1.00	1	09/21/10 07:58	09/21/10 11:14	CMM/H	SW846 8260B	10I3286
1,3-Dichlorobenzene	ND	ug/L		1.00	1	09/21/10 07:58	09/21/10 11:14	CMM/H	SW846 8260B	10I3286
1,4-Dichlorobenzene	ND	ug/L		1.00	1	09/21/10 07:58	09/21/10 11:14	CMM/H	SW846 8260B	10I3286
1,2-Dichloroethane	ND	ug/L		1.00	1	09/21/10 07:58	09/21/10 11:14	CMM/H	SW846 8260B	10I3286
1,1-Dichloroethane	ND	ug/L		1.00	1	09/21/10 07:58	09/21/10 11:14	CMM/H	SW846 8260B	10I3286
1,1-Dichloroethene	ND	ug/L		1.00	1	09/21/10 07:58	09/21/10 11:14	CMM/H	SW846 8260B	10I3286
cis-1,2-Dichloroethene	ND	ug/L		1.00	1	09/21/10 07:58	09/21/10 11:14	CMM/H	SW846 8260B	10I3286
Methylene Chloride	ND	ug/L		2.00	1	09/21/10 07:58	09/21/10 11:14	CMM/H	SW846 8260B	10I3286
Tetrachloroethene	ND	ug/L		1.00	1	09/21/10 07:58	09/21/10 11:14	CMM/H	SW846 8260B	10I3286
1,1,1-Trichloroethane	ND	ug/L		1.00	1	09/21/10 07:58	09/21/10 11:14	CMM/H	SW846 8260B	10I3286
1,1,2-Trichloroethane	ND	ug/L		1.00	1	09/21/10 07:58	09/21/10 11:14	CMM/H	SW846 8260B	10I3286
Trichloroethene	ND	ug/L		1.00	1	09/21/10 07:58	09/21/10 11:14	CMM/H	SW846 8260B	10I3286
Vinyl chloride	ND	ug/L		1.00	1	09/21/10 07:58	09/21/10 11:14	CMM/H	SW846 8260B	10I3286
Surr: 1,2-Dichloroethane-d4 (70-130%)	*84 %*						09/21/10 11:14	CMM/H	SW846 8260B	10I3286
Surr: Dibromofluoromethane (70-130%)	*91 %*						09/21/10 11:14	CMM/H	SW846 8260B	10I3286
Surr: Toluene-d8 (70-130%)	*90 %*						09/21/10 11:14	CMM/H	SW846 8260B	10I3286
Surr: 4-Bromofluorobenzene (70-130%)	*97 %*						09/21/10 11:14	CMM/H	SW846 8260B	10I3286

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SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Mercury by EPA Methods 7470A/7471A							
SW846 7470A	1012929	NTI1719-01	30.00	30.00	09/18/10 19:00	LCB	EPA 7470
Total Metals by EPA 6010C							
SW846 6010C	1012920	NTI1719-01	50.00	50.00	09/19/10 02:50	RDS	EPA 3010A / 6010
SW846 6010C	1012920	NTI1719-01	50.00	50.00	09/19/10 02:50	RDS	EPA 3010A / 6010
SW846 6010C	1012920	NTI1719-01	50.00	50.00	09/19/10 02:50	RDS	EPA 3010A / 6010
SW846 6010C	1012920	NTI1719-01	50.00	50.00	09/19/10 02:50	RDS	EPA 3010A / 6010
SW846 6010C	1012920	NTI1719-01	50.00	50.00	09/19/10 02:50	RDS	EPA 3010A / 6010
SW846 6010C	1012920	NTI1719-01	50.00	50.00	09/19/10 02:50	RDS	EPA 3010A / 6010
SW846 6010C	1012920	NTI1719-01	50.00	50.00	09/19/10 02:50	RDS	EPA 3010A / 6010
SW846 6010C	1012920	NTI1719-01	50.00	50.00	09/19/10 02:50	RDS	EPA 3010A / 6010
SW846 6010C	1012920	NTI1719-01	50.00	50.00	09/19/10 02:50	RDS	EPA 3010A / 6010
SW846 6010C	1012920	NTI1719-01	50.00	50.00	09/19/10 02:50	RDS	EPA 3010A / 6010
SW846 6010C	1012920	NTI1719-01	50.00	50.00	09/19/10 02:50	RDS	EPA 3010A / 6010

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PROJECT QUALITY CONTROL DATA
Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
General Chemistry Parameters						
10I3772-BLK1						
Total Suspended Solids	<0.500		mg/L	10I3772	10I3772-BLK1	09/23/10 19:50
10I4084-BLK1						
Cyanide	0.00390		mg/L	10I4084	10I4084-BLK1	09/27/10 15:02
Total Metals by EPA 6010C						
10I2920-BLK1						
Antimony	<0.00590		mg/L	10I2920	10I2920-BLK1	09/20/10 17:22
Arsenic	<0.00370		mg/L	10I2920	10I2920-BLK1	09/20/10 17:22
Cadmium	<0.000600		mg/L	10I2920	10I2920-BLK1	09/20/10 17:22
Chromium	<0.00260		mg/L	10I2920	10I2920-BLK1	09/20/10 17:22
Copper	<0.00300		mg/L	10I2920	10I2920-BLK1	09/20/10 17:22
Iron	<0.0490		mg/L	10I2920	10I2920-BLK1	09/20/10 17:22
Lead	<0.00290		mg/L	10I2920	10I2920-BLK1	09/20/10 17:22
Nickel	<0.00230		mg/L	10I2920	10I2920-BLK1	09/20/10 17:22
Selenium	<0.00390		mg/L	10I2920	10I2920-BLK1	09/20/10 17:22
Silver	<0.00280		mg/L	10I2920	10I2920-BLK1	09/20/10 17:22
Zinc	<0.00780		mg/L	10I2920	10I2920-BLK1	09/20/10 17:22
Mercury by EPA Methods 7470A/7471A						
10I2929-BLK1						
Mercury	<0.000100		mg/L	10I2929	10I2929-BLK1	09/20/10 15:01
Volatile Organic Compounds by EPA Method 8260B						
10I3286-BLK1						
Carbon Tetrachloride	<0.170		ug/L	10I3286	10I3286-BLK1	09/21/10 10:46
1,2-Dichlorobenzene	<0.130		ug/L	10I3286	10I3286-BLK1	09/21/10 10:46
1,3-Dichlorobenzene	<0.140		ug/L	10I3286	10I3286-BLK1	09/21/10 10:46
1,4-Dichlorobenzene	<0.150		ug/L	10I3286	10I3286-BLK1	09/21/10 10:46
1,2-Dichloroethane	<0.170		ug/L	10I3286	10I3286-BLK1	09/21/10 10:46
1,1-Dichloroethane	<0.170		ug/L	10I3286	10I3286-BLK1	09/21/10 10:46
1,1-Dichloroethene	<0.170		ug/L	10I3286	10I3286-BLK1	09/21/10 10:46
cis-1,2-Dichloroethene	<0.150		ug/L	10I3286	10I3286-BLK1	09/21/10 10:46
Methylene Chloride	<1.67		ug/L	10I3286	10I3286-BLK1	09/21/10 10:46
Tetrachloroethene	<0.190		ug/L	10I3286	10I3286-BLK1	09/21/10 10:46
1,1,1-Trichloroethane	<0.170		ug/L	10I3286	10I3286-BLK1	09/21/10 10:46
1,1,2-Trichloroethane	<0.150		ug/L	10I3286	10I3286-BLK1	09/21/10 10:46
Trichloroethene	<0.180		ug/L	10I3286	10I3286-BLK1	09/21/10 10:46
Vinyl chloride	<0.170		ug/L	10I3286	10I3286-BLK1	09/21/10 10:46
Surrogate: 1,2-Dichloroethane-d4	84%			10I3286	10I3286-BLK1	09/21/10 10:46
Surrogate: Dibromofluoromethane	91%			10I3286	10I3286-BLK1	09/21/10 10:46

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PROJECT QUALITY CONTROL DATA
Blank - Cont.

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B						
10I3286-BLK1						
Surrogate: Toluene-d8	91%			10I3286	10I3286-BLK1	09/21/10 10:46
Surrogate: 4-Bromofluorobenzene	96%			10I3286	10I3286-BLK1	09/21/10 10:46

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PROJECT QUALITY CONTROL DATA
Duplicate

Analyte	Orig. Val.	Duplicate	Q	Units	RPD	Limit	Batch	Sample Duplicated	% Rec	Analyzed Date/Time
General Chemistry Parameters										
10I3772-DUP1										
Total Suspended Solids	ND	ND		mg/L		5	10I3772	NTI1721-01		09/23/10 19:50
10I3772-DUP2										
Total Suspended Solids	ND	ND		mg/L		5	10I3772	NTI2033-06		09/23/10 19:50
10I4084-DUP1										
Cyanide	0.0907	0.0361	R	mg/L	86	20	10I4084	NTI2302-09		09/27/10 15:04

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PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val	Analyzed Val	Q	Units	% Rec	Target Range	Batch	Analyzed Date/Time
General Chemistry Parameters								
10I3772-BS1								
Total Suspended Solids	100	95.0		mg/L	95%	90 - 110	10I3772	09/23/10 19:50
10I4084-BS1								
Cyanide	0.100	0.0948		mg/L	95%	90 - 110	10I4084	09/27/10 15:02
Total Metals by EPA 6010C								
10I2920-BS1								
Antimony	0.100	0.108		mg/L	108%	80 - 120	10I2920	09/20/10 17:36
Arsenic	0.0500	0.0494		mg/L	99%	80 - 120	10I2920	09/20/10 17:36
Cadmium	0.0500	0.0503		mg/L	101%	80 - 120	10I2920	09/20/10 17:36
Chromium	0.200	0.193		mg/L	96%	80 - 120	10I2920	09/20/10 17:36
Copper	0.250	0.248		mg/L	99%	80 - 120	10I2920	09/20/10 17:36
Iron	1.00	1.01		mg/L	101%	80 - 120	10I2920	09/20/10 17:36
Lead	0.0500	0.0518		mg/L	104%	80 - 120	10I2920	09/20/10 17:36
Nickel	0.500	0.531		mg/L	106%	80 - 120	10I2920	09/20/10 17:36
Selenium	0.0500	0.0506		mg/L	101%	80 - 120	10I2920	09/20/10 17:36
Silver	0.0500	0.0509		mg/L	102%	80 - 120	10I2920	09/20/10 17:36
Zinc	0.500	0.500		mg/L	100%	80 - 120	10I2920	09/20/10 17:36
Mercury by EPA Methods 7470A/7471A								
10I2929-BS1								
Mercury	0.00100	0.00106		mg/L	106%	80 - 120	10I2929	09/20/10 15:04
Volatile Organic Compounds by EPA Method 8260B								
10I3286-BS1								
Carbon Tetrachloride	50.0	41.6		ug/L	83%	70 - 130	10I3286	09/21/10 08:54
1,2-Dichlorobenzene	50.0	49.3		ug/L	99%	70 - 130	10I3286	09/21/10 08:54
1,3-Dichlorobenzene	50.0	50.2		ug/L	100%	70 - 130	10I3286	09/21/10 08:54
1,4-Dichlorobenzene	50.0	46.5		ug/L	93%	70 - 130	10I3286	09/21/10 08:54
1,2-Dichloroethane	50.0	39.8		ug/L	80%	70 - 130	10I3286	09/21/10 08:54
1,1-Dichloroethane	50.0	44.1		ug/L	88%	70 - 130	10I3286	09/21/10 08:54
1,1-Dichloroethene	50.0	48.9		ug/L	98%	70 - 130	10I3286	09/21/10 08:54
cis-1,2-Dichloroethene	50.0	44.7		ug/L	89%	70 - 130	10I3286	09/21/10 08:54
Methylene Chloride	50.0	48.8		ug/L	98%	70 - 130	10I3286	09/21/10 08:54
Tetrachloroethene	50.0	46.5		ug/L	93%	70 - 130	10I3286	09/21/10 08:54
1,1,1-Trichloroethane	50.0	42.8		ug/L	86%	70 - 130	10I3286	09/21/10 08:54
1,1,2-Trichloroethane	50.0	43.3		ug/L	87%	70 - 130	10I3286	09/21/10 08:54
Trichloroethene	50.0	47.9		ug/L	96%	70 - 130	10I3286	09/21/10 08:54
Vinyl chloride	50.0	44.0		ug/L	88%	70 - 130	10I3286	09/21/10 08:54
Surrogate: 1,2-Dichloroethane-d4	25.0	19.8			79%	70 - 130	10I3286	09/21/10 08:54
Surrogate: Dibromofluoromethane	25.0	22.9			92%	70 - 130	10I3286	09/21/10 08:54

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Roux Associates (13854)	Work Order:	NTI1719
	67 South Bedford Street Ste 101W	Project Name:	Dominion Energy
	Burlington, MA 01803	Project Number:	Dominion Energy
Attn	Mark Lovejoy	Received:	09/18/10 08:00

PROJECT QUALITY CONTROL DATA
LCS - Cont.

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8260B								
10I3286-BS1								
Surrogate: Toluene-d8	25.0	23.4			93%	70 - 130	10I3286	09/21/10 08:54
Surrogate: 4-Bromofluorobenzene	25.0	25.0			100%	70 - 130	10I3286	09/21/10 08:54

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Client	Roux Associates (13854)	Work Order:	NTI1719
	67 South Bedford Street Ste 101W	Project Name:	Dominion Energy
	Burlington, MA 01803	Project Number:	Dominion Energy
Attn	Mark Lovejoy	Received:	09/18/10 08:00

PROJECT QUALITY CONTROL DATA

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
General Chemistry Parameters												
10I3772-BSD1												
Total Suspended Solids		95.0		mg/L	100	95%	90 - 110	0	20	10I3772		09/23/10 19:50
Total Metals by EPA 6010C												
10I2920-BSD1												
Antimony		0.108		mg/L	0.100	108%	80 - 120	0.2	20	10I2920		09/20/10 17:39
Arsenic		0.0516		mg/L	0.0500	103%	80 - 120	4	20	10I2920		09/20/10 17:39
Cadmium		0.0505		mg/L	0.0500	101%	80 - 120	0.4	20	10I2920		09/20/10 17:39
Chromium		0.193		mg/L	0.200	97%	80 - 120	0.2	20	10I2920		09/20/10 17:39
Copper		0.250		mg/L	0.250	100%	80 - 120	0.5	20	10I2920		09/20/10 17:39
Iron		1.01		mg/L	1.00	101%	80 - 120	0	20	10I2920		09/20/10 17:39
Lead		0.0517		mg/L	0.0500	103%	80 - 120	0.2	20	10I2920		09/20/10 17:39
Nickel		0.535		mg/L	0.500	107%	80 - 120	0.8	20	10I2920		09/20/10 17:39
Selenium		0.0499		mg/L	0.0500	100%	80 - 120	1	20	10I2920		09/20/10 17:39
Silver		0.0512		mg/L	0.0500	102%	80 - 120	0.6	20	10I2920		09/20/10 17:39
Zinc		0.500		mg/L	0.500	100%	80 - 120	0.08	20	10I2920		09/20/10 17:39
Mercury by EPA Methods 7470A/7471A												
10I2929-BSD1												
Mercury		0.00108		mg/L	0.00100	108%	80 - 120	2	20	10I2929		09/20/10 15:06
Volatile Organic Compounds by EPA Method 8260B												
10I3286-BSD1												
Carbon Tetrachloride		40.8		ug/L	50.0	82%	70 - 130	2	25	10I3286		09/21/10 09:22
1,2-Dichlorobenzene		48.0		ug/L	50.0	96%	70 - 130	3	25	10I3286		09/21/10 09:22
1,3-Dichlorobenzene		48.9		ug/L	50.0	98%	70 - 130	2	25	10I3286		09/21/10 09:22
1,4-Dichlorobenzene		44.9		ug/L	50.0	90%	70 - 130	4	25	10I3286		09/21/10 09:22
1,2-Dichloroethane		38.8		ug/L	50.0	78%	70 - 130	2	25	10I3286		09/21/10 09:22
1,1-Dichloroethane		43.2		ug/L	50.0	86%	70 - 130	2	25	10I3286		09/21/10 09:22
1,1-Dichloroethene		47.7		ug/L	50.0	95%	70 - 130	2	25	10I3286		09/21/10 09:22
cis-1,2-Dichloroethene		43.5		ug/L	50.0	87%	70 - 130	3	25	10I3286		09/21/10 09:22
Methylene Chloride		47.4		ug/L	50.0	95%	70 - 130	3	25	10I3286		09/21/10 09:22
Tetrachloroethene		44.1		ug/L	50.0	88%	70 - 130	5	25	10I3286		09/21/10 09:22
1,1,1-Trichloroethane		41.6		ug/L	50.0	83%	70 - 130	3	25	10I3286		09/21/10 09:22
1,1,2-Trichloroethane		41.1		ug/L	50.0	82%	70 - 130	5	25	10I3286		09/21/10 09:22
Trichloroethene		46.4		ug/L	50.0	93%	70 - 130	3	25	10I3286		09/21/10 09:22
Vinyl chloride		43.4		ug/L	50.0	87%	70 - 130	1	25	10I3286		09/21/10 09:22
Surrogate: 1,2-Dichloroethane-d4		19.8		ug/L	25.0	79%	70 - 130			10I3286		09/21/10 09:22
Surrogate: Dibromofluoromethane		22.7		ug/L	25.0	91%	70 - 130			10I3286		09/21/10 09:22
Surrogate: Toluene-d8		22.8		ug/L	25.0	91%	70 - 130			10I3286		09/21/10 09:22
Surrogate: 4-Bromofluorobenzene		25.2		ug/L	25.0	101%	70 - 130			10I3286		09/21/10 09:22

2960 Foster Creighton Road Nashville, TN 37204 * 800-765-0980 * Fax 615-726-3404

Client	Roux Associates (13854)	Work Order:	NTI1719
	67 South Bedford Street Ste 101W	Project Name:	Dominion Energy
	Burlington, MA 01803	Project Number:	Dominion Energy
Attn	Mark Lovejoy	Received:	09/18/10 08:00

DATA QUALIFIERS AND DEFINITIONS

R	The RPD exceeded the method control limit. The individual analyte QA/QC recoveries, however, were within acceptance limits.
ND	Not detected at the reporting limit (or method detection limit if shown)

METHOD MODIFICATION NOTES

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECE

NTI1719

Cooler Received/Opened On 9/18/2010 @ 08:00

1. Tracking # 5787 (last 4 digits, FedEx)

Courier: FEDEX IR Gun ID 96210146

2. Temperature of rep. sample or temp blank when opened: 0.6 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES...(NO)...NA

4. Were custody seals on outside of cooler? YES...(NO)...NA

If yes, how many and where: NA

5. Were the seals intact, signed, and dated correctly? YES...NO...(NA)

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) P.H.

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other (None)

9. Cooling process: (Ice) Ice-pack (Ice (direct contact)) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? (YES)...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...(NO)...NA

14. Was there a Trip Blank in this cooler? (YES)...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (intial) A

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? (YES)...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used (YES)...NO...NA

16. Was residual chlorine present? YES...(NO)...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) A

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) A

I certify that I attached a label with the unique LIMS number to each container (intial) A

21. Were there Non-Conformance issues at login? YES...(NO) Was a PIPE generated? YES...(NO)...# 5816

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 6/24/09

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NTI1719
10/04/10 23 59

Chain of Custody Form

012239

●53 Southampton Road
Westfield, MA 01085
(P) 413-572-4000
(F) 413-572-3707
Westfield

●240 Bear Hill Rd., Suite 104
Waltham, MA 02451
(P) 781-466-6900
(F) 781-466-6901
Boston - Service Center

Client: Rizzo Associates, Inc — Client Project #: — Job# — Quote# — PO#

Address: 47 S Bedford St Ste 101W — Site ID & State: MA

Burlington MA 01803 — Reports Sent to: Mark Lovejoy

Phone: 781 270 0600 Fax: 781 270 9066 — Email: MLovejoy@rizzoinc.com — Email Rpt. ☒

Shaded areas for office use
Invoice same as Report to? ☒
If invoice contact or address different, note in Comments

Requested Turnaround Time (PLEASE SPECIFY)
STANDARD X — RUSH _____ (Lab Approval Required)

Regulatory Programs/Presumptive Certainty/QC Forms
MADEP MCP ☒ GW1/S1 ☐ — PWS DEP Forms ☒
CTDEP RCP ☐ CT RSR ☐ — EDD Required ☒
Std Rpt (L1) ☐ Rpt + QC(L2/MCP ☐ CLP Rpt (L3 or L4) ☐

500 series for drinking water
600 series for wastewater: NPDES
5000 series for groundwater, soil, waste
8000 series for groundwater, soil, waste
Use comments section to further define

Comments (Special Instructions)

Please print legibly. If the analytical requests are not clearly defined on the chain-of-custody, the turnaround time will begin after all questions have been satisfactorily answered.

Sample Type Codes: WW-Wastewater, DW-Drinking Water, SW-Surface Water, GW-Groundwater, LW Lab Water, A-Air, S-Solids/Soil O-Oil, "Z"- Other

Sample I.D.	Sample Type	Sampler's Initials	Date / Time Collected	pH ✓ (lab use only)	Grab	Comp	# Containers	Plastic(P) or Glass(G)	Preservative: NaHSO4/MeOH	HNO3 to pH <2	H2SO4 to pH <2	HCl to pH <2	NaOH to pH >12	Na2S2O3	None / 4°C	8260 / 524 / 624	8270 / 525 / 625	PCB / Pest / Herbicide	EPH / VPH	DRO / GRO / ETPH	Metals (Please Specify)	Mercury	General Chemistry (TSS)	Bacteriological	Toxicity	Cyanide
GP-97006	GW	MH	9/17/10 1140		X		6	3P 3G		1		3			1	X					X	X			X
Trip Blank	—	—														X									

Comments:

*VOCs Select List:
1,2 Dichlorobenzene
1,3 Dichlorobenzene
1,4 Dichlorobenzene
Tot. Dichlorobenzene
1,1 Dichloroethane
1,2 Dichloroethane
cis-1,2 Dichloroethene
Methylene chloride
Tetrachloroethane
1,1,1 Trichloroethane
1,1,2 Trichloroethane
Trichloroethene
Vinyl Chloride

**Metals Select List:
Antimony
Arsenic
Cadmium
Chromium III
Chromium VI
Copper
Lead
Mercury
Nickel
Selenium
Silver
Zinc
Iron

Gen Chem: TSS

Sampled by (print): Michael Hadess — Signature:

	Date	Time		Date	Time
Relinquished by:	9/17		Received by:	9/17/10	1600
Relinquished by:	9/17/10	1700	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	9/18/10	0800

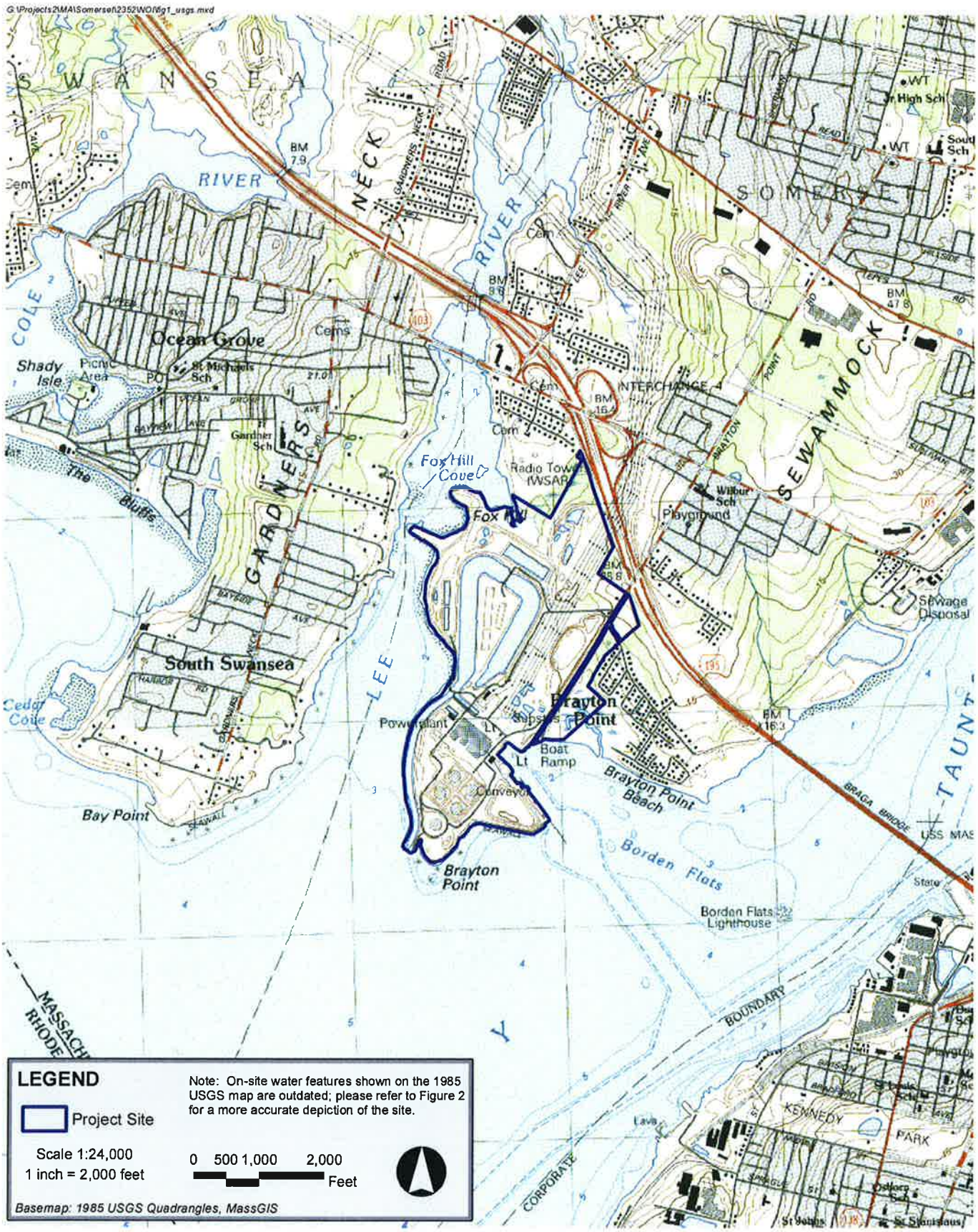
Cooler ? Y / N — MADEP Requirement Samples Iced? Y / N

Temp @ receipt: _____ °C

Preservation / pH checked? Y / N

By: _____ Date: _____

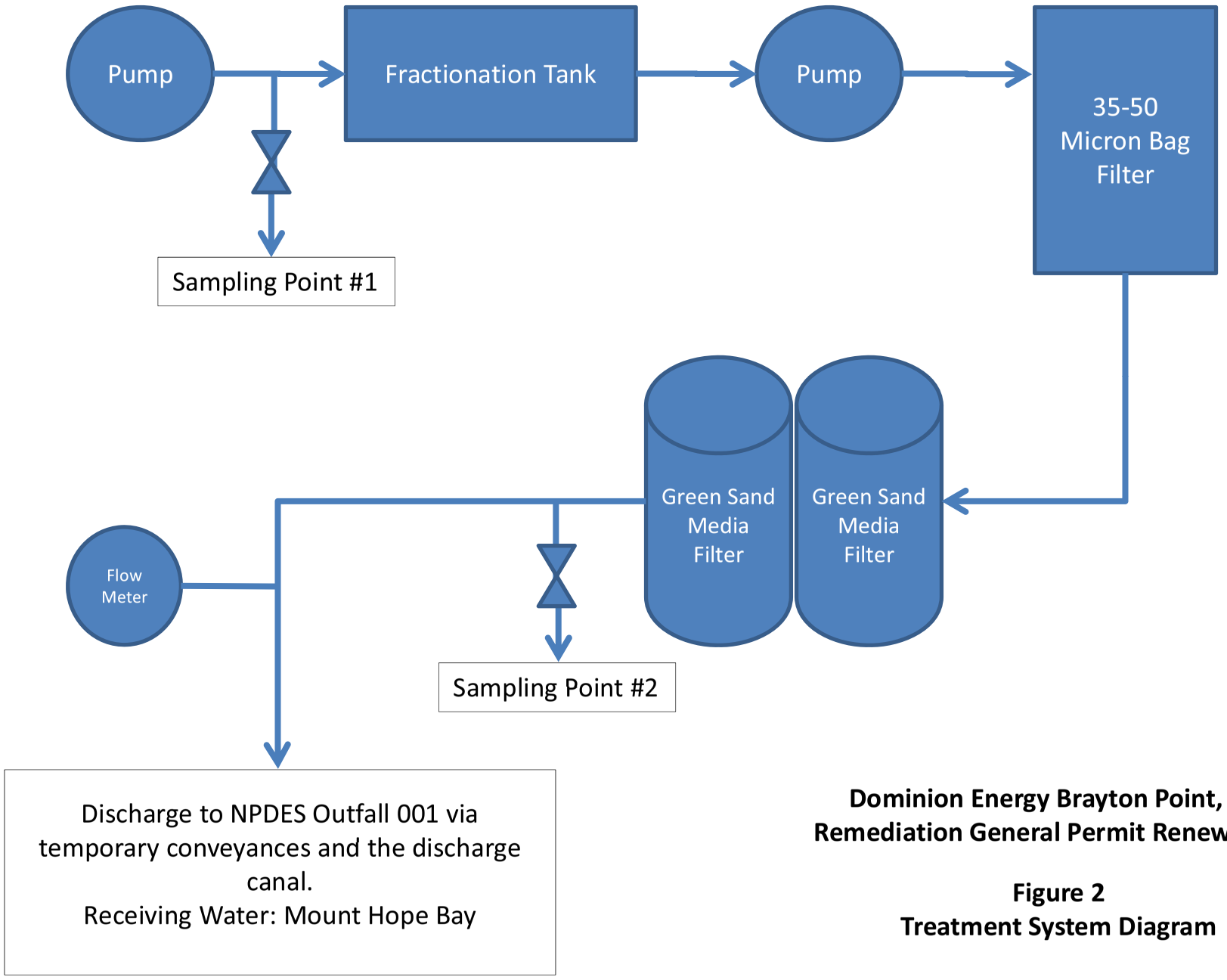
Figures



Brayton Point Cooling Tower Project **Somerset, Massachusetts**

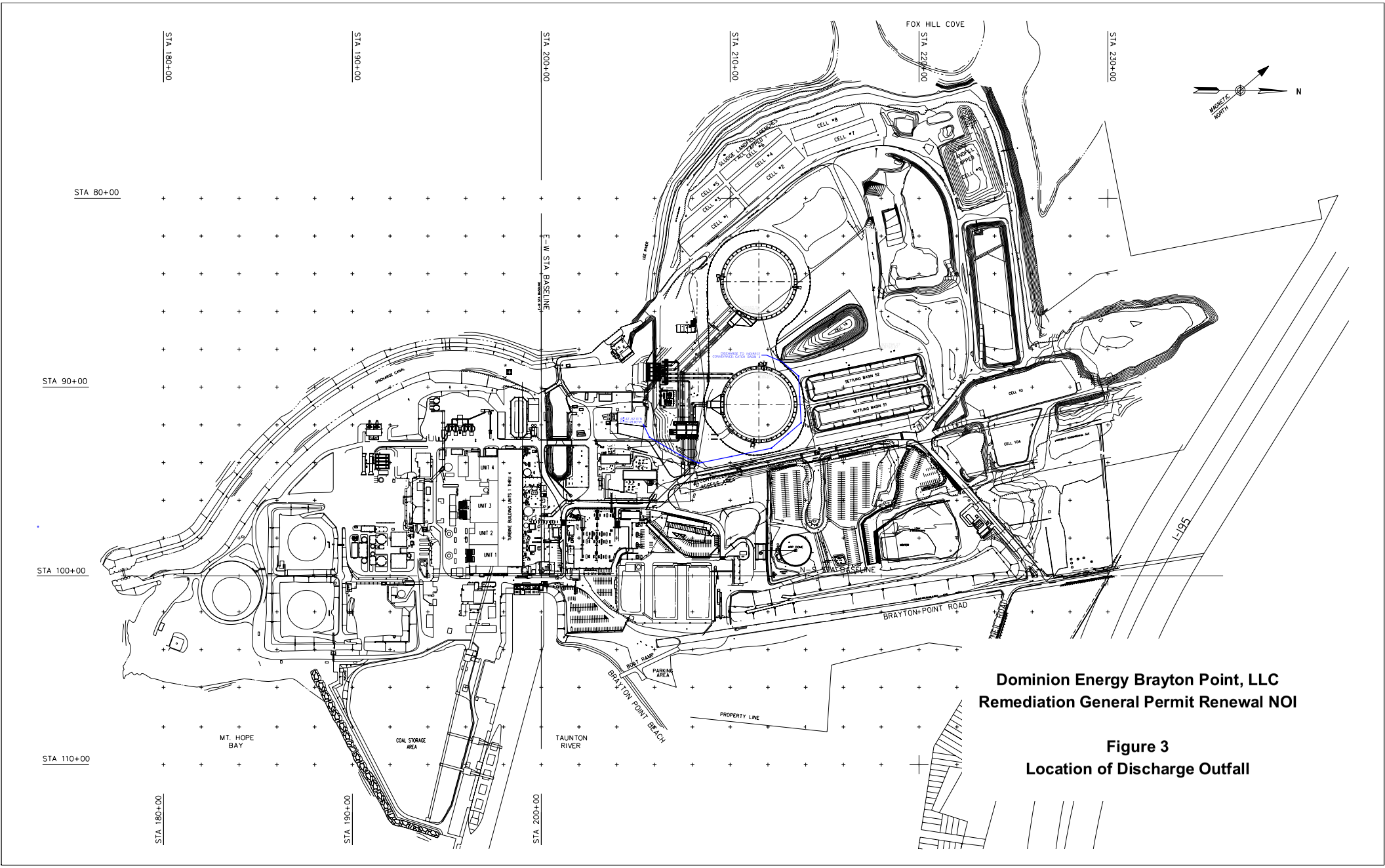
Epsilon

Figure 1
USGS Locus Map



Dominion Energy Brayton Point, LLC
Remediation General Permit Renewal NOI

Figure 2
Treatment System Diagram



Dominion Energy Brayton Point, LLC
Remediation General Permit Renewal NOI

Figure 3
Location of Discharge Outfall

Endangered Species Act Evaluation

United States Department of the Interior

FISH AND WILDLIFE SERVICE

New England Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5087
http://www.fws.gov/newengland

January 4, 2010

To Whom It May Concern:

This project was reviewed for the presence of federally-listed or proposed, threatened or endangered species or critical habitat per instructions provided on the U.S. Fish and Wildlife Service's New England Field Office website:

(http://www.fws.gov/newengland/EndangeredSpec-Consultation.htm)

Based on the information currently available, no federally-listed or proposed, threatened or endangered species or critical habitat under the jurisdiction of the U.S. Fish and Wildlife Service (Service) are known to occur in the project area(s). Preparation of a Biological Assessment or further consultation with us under Section 7 of the Endangered Species Act is not required.

This concludes the review of listed species and critical habitat in the project location(s) and environs referenced above. No further Endangered Species Act coordination of this type is necessary for a period of one year from the date of this letter, unless additional information on listed or proposed species becomes available.

Thank you for your cooperation. Please contact Mr. Anthony Tur at 603-223-2541 if we can be of further assistance.

Sincerely yours,

Thomas R. Chapman
Supervisor
New England Field Office

DOCUMENTATION OF THREATENED AND ENDANGERED SPECIES EVALUATION

As per http://www.fws.gov/newengland/EndangeredSpec-Consultation_Project_Review.htm

The following information is designed to assist applicants or project sponsors in determining whether a federally-listed, proposed and/or candidate species may occur within the proposed project area and whether it is appropriate to contact our office for additional coordination or consultation. We encourage you to print out all materials used in the analyses of effects on listed, proposed or candidate species for your records or submission to the appropriate federal agency or our office.

Step 1. - Determine whether any listed, proposed, or candidate species (T/E species) are likely to occur within the proposed project **action area** based on location of the proposed project:

A. Choose your state list below and review for Towns in which federally-listed species occur:

Connecticut - 12 species (29 KB)
Massachusetts - 14 species (41 KB)
New Hampshire - 13 species (31 KB)
Rhode Island - 8 species (22 KB)
Vermont - 10 species (25 KB)

List attached – Three species are listed for Bristol County but none are listed for the Town of Somerset.

B. You should contact your state Natural Heritage Program or Endangered Species Program (see list below) for additional information on federally and state-listed species:

Rhode Island Natural Heritage Program
Connecticut Endangered Species Program
Massachusetts **Natural Heritage and Endangered Species Program**
Vermont **Non-Game and Natural Heritage**
New Hampshire **Fish and Game's Non-game and Endangered Wildlife Program**
New Hampshire Natural Heritage Bureau's **Home Page**

Please note that these agencies provide information on known occurrences; this information does not replace field surveys, especially for plants, as most project sites have not been previously surveyed specifically for listed species.

Spoke with Amy Coman of NHESP. Their reviews are good for three years. She was aware of our September 19, 2008 response letter and knew of no objection to its contents. The particular activity for which coverage is sought will create no disturbance to natural habitats adjacent to the project area.

C. If the project falls within a Town where the endangered dwarf wedgemussel is known to occur, check the appropriate map to determine whether your project is in the vicinity of its known range.

Massachusetts - **Connecticut River Watershed** (912 KB)
New Hampshire/Vermont - Connecticut River Watershed
Upper Connecticut River (872 KB)
Middle Connecticut River (1.07 MB)

Lower Connecticut River (1.56 MB)
New Hampshire - **Ashuelot River Watershed** (886 KB)
Connecticut - **Connecticut River Watershed** (2.04 MB)

The discharge is outside of this area. See attached map.

D. If the project falls within a Town where the endangered northern red-bellied cooter is known to occur, or if the project occurs in Plymouth County, Massachusetts, check the map to determine whether your project is in the vicinity of its known range or critical habitat. **NRBC_MAP** (59 KB)

The discharge area is far from both the Critical Habitat Boundry and known range of the species. The northern red-bellied cooter is a freshwater species that inhabits deep coastal plain ponds. No such habitat is present in any case. See attached map.

E. If a proposed project occurs in a Town with no known listed, proposed or candidate species present, no further coordination with the Service is needed. You may download a **"no species present" letter** (158 KB) stating "no species are known to occur in the project area".

F. If the proposed project occurs in a Town with known occurrences of T/E species, proceed to Step 2.

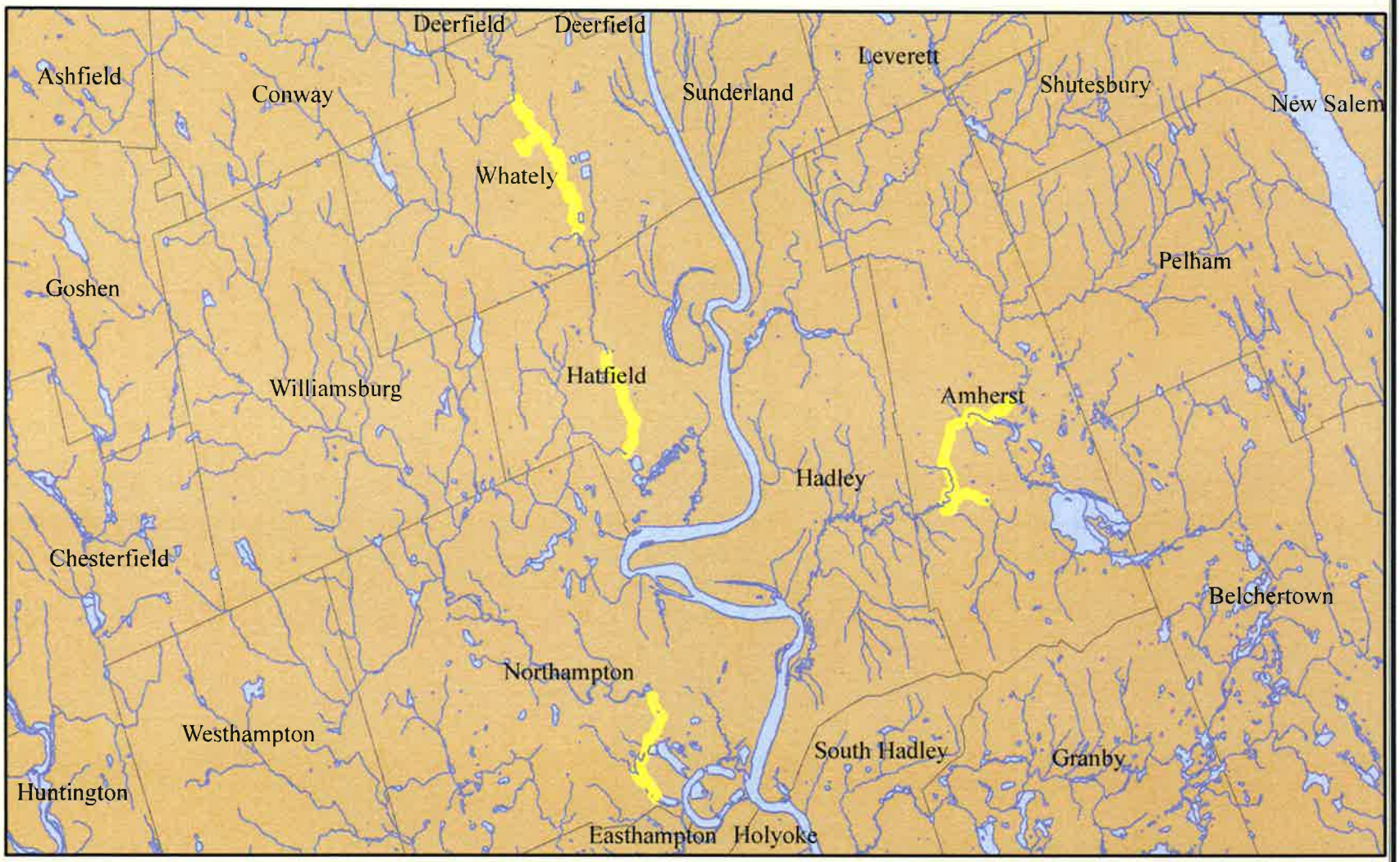
See Step 1.A., no occurrences in Somerset. End of process. The nature of the potential activity to be permitted is to discharge dewatering wastewater intermittently. If discharged, the wastewater will be treated to meet all requirements of the RGP for water quality. The treated discharge then follows, and comingles with, the facility's NPDES-approved pathway currently used for condenser cooling water discharges. See attached diagram.

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	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, Wareham, Halifax, and Pembroke
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Plymouth, Marion, 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.

Revised 06/22/2009



Legend
No Known DWM
DWM Present

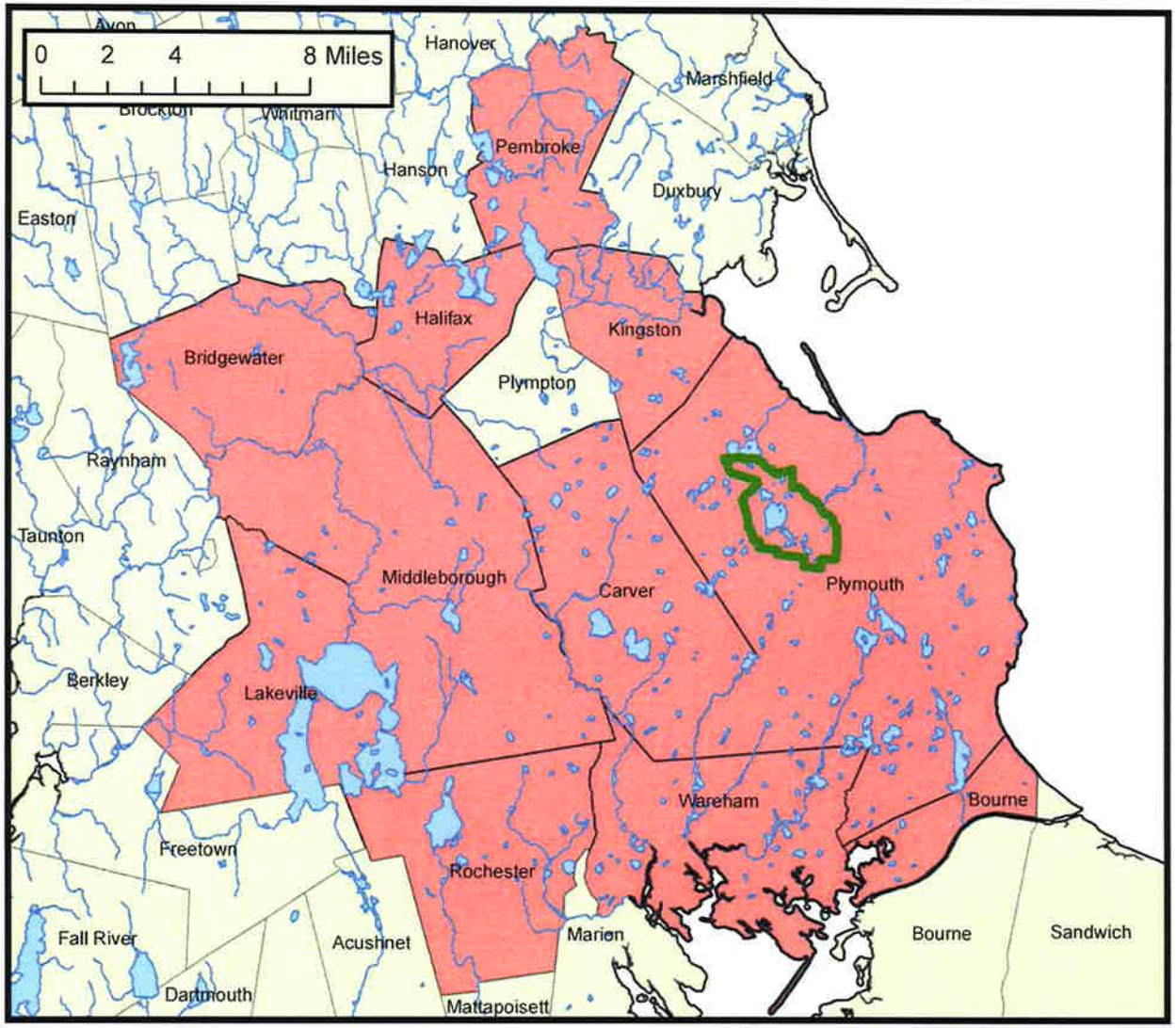
The Dwarf Wedgemussel Waters of Massachusetts

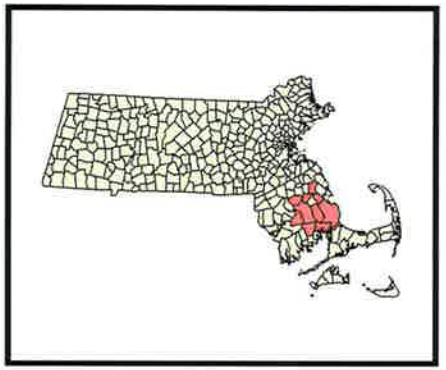
U.S. Fish & Wildlife Service
New England Field Office
Conserving New England's Natural Resources

0 0.5 1 2 3 4
Miles

August 27, 2007

Area with Known and Expected Occurences for the Northern Red-bellied Cooter in Massachusetts





Legend
- Critical Habitat Boundary
- No Known Occurences
- Cooters Present

For a complete description of the Critical Habitat boundary, please visit :
http://ecos.fws.gov/docs/federal_register/fr398.pdf

U.S. Fish & Wildlife Service
New England Field Office
Conserving New England's Natural Resources

EXECUTIVE SUMMARY

Plymouth Redbelly Turtle Revised Recovery Plan

Current Species Status: The Plymouth population of the redbelly turtle *(Pseudemys rubriventris)* is restricted to approximately 17 ponds and one river site in Plymouth County, Massachusetts. The total number of breeding age individuals is believed to be about 300. While an active headstarting program has introduced turtles to several new ponds and the river site, and has significantly increased the number of turtles in other ponds, juvenile and subadult headstarted turtles have not yet reached breeding status. It is therefore premature to evaluate the ultimate success of this effort. Continued threats to the species include restricted range, habitat alteration, low population size, and high mortality of eggs, hatchlings, and small juvenile turtles due to nest failure, nest depredation, and predation on hatchlings following emergence. The Plymouth redbelly turtle was listed as endangered, with critical habitat, in 1980.

Habitat Requirements and Limiting Factors: The Plymouth redbelly turtle is a large, freshwater basking turtle of deep coastal plain ponds. It subsists primarily on aquatic vegetation, and requires good water quality and suitable basking, nesting, and overwintering sites free from disturbance. Among many limiting factors are habitat alteration and fragmentation, nest predation, and high hatchling and juvenile mortality rates.

Recovery Objective: Reclassification to threatened status may be feasible by the year 2000, and eventual delisting is an attainable long-term objective. Further research on limiting factors and appropriate intervention strategies will be necessary before full recovery can be achieved.

Recovery Criteria: Reclassification to threatened status will be considered when numbers increase to 600 or more breeding-age turtles distributed among 15 or more self-sustaining populations. Delisting will be considered when numbers increase to 1,000 breeding-age turtles in 20 or more self-sustaining populations (in ponds, lakes, and possibly rivers). In addition to population targets, maintenance of sufficient habitat to allow long-term survival of the population, and an understanding of the turtle's life history and habitat requirements sufficient to adequately manage the population will be required to meet the full recovery objective.

Actions Needed:

1. Monitor the status of populations, and search for additional populations.
2. Conduct research into limiting factors, particularly high nest predation and mortality of hatchling and juvenile turtles, as well as life history studies and possible contaminants issues.
3. Protect and manage occupied and potential habitat.
4. Continue the headstart program to enhance small populations and establish new populations.
5. Conduct information and education programs.

Estimated Cost of Recovery (in thousands)*:

YEAR	Need 1	Need 2	Need 3	Need 4	Need 5	TOTAL
FY1	4.0	16.5	15.0	3.5	3.5	42.5
FY2	3.0	16.5	12.5	3.5	3.5	39.0
FY3	4.0	16.5	11.5	3.5	3.5	39.0
FY4	3.0	8.0	8.0	3.5	2.0	24.5
FY5-17	63.0	63.0	99.0	25.5	26.0	276.5
TOTAL	77.0	120.5	146.0	39.5	38.5	421.5

* Land acquisition costs not included.

Agency Correspondence

Pamela F. Faggert
Vice President and Chief Environmental Officer

Dominion Resources Services, Inc.
5000 Dominion Boulevard, Glen Allen, Virginia 23060
Phone: 804-273-3467

Dominion®

April 4, 2008

U.S. Fish and Wildlife Service
70 Commercial Street, Suite 300
Concord, NH 03301-5087

Re: Dominion Energy Brayton Point, LLC, Somerset Massachusetts - Request for Information Regarding Federally-listed Species

Dear Reviewer:

Dominion Energy Brayton Point, LLC hereby makes a formal request for information regarding federally-listed threatened and endangered species in the vicinity of the site of the Brayton Point Power Station in Somerset, Massachusetts (see Figure 1). This request is being made in support of the construction project described below.

Brayton Point Power Station, a steam electric power plant, is owned and operated by Dominion Energy Brayton Point, LLC (Dominion). Dominion is proposing to construct two natural draft cooling towers on the site of its existing facility to comply with its National Pollutant Discharge Elimination System (NPDES) permit and more specifically, administrative orders issued by the United States Environmental Protection Agency and Massachusetts Department of Environmental Protection that require the Brayton Point Station to be converted from an open-cycle cooling system to a closed-cycle cooling system.

The cooling towers will be approximately 500 feet tall and 220 feet in diameter at the exhaust exit. The towers and ancillary facilities are proposed in a previously disturbed location on the 250-acre site of the Brayton Point Power Station. The approximate location of the proposed towers and the project site boundaries are shown on the aerial photo attached as Figure 2.

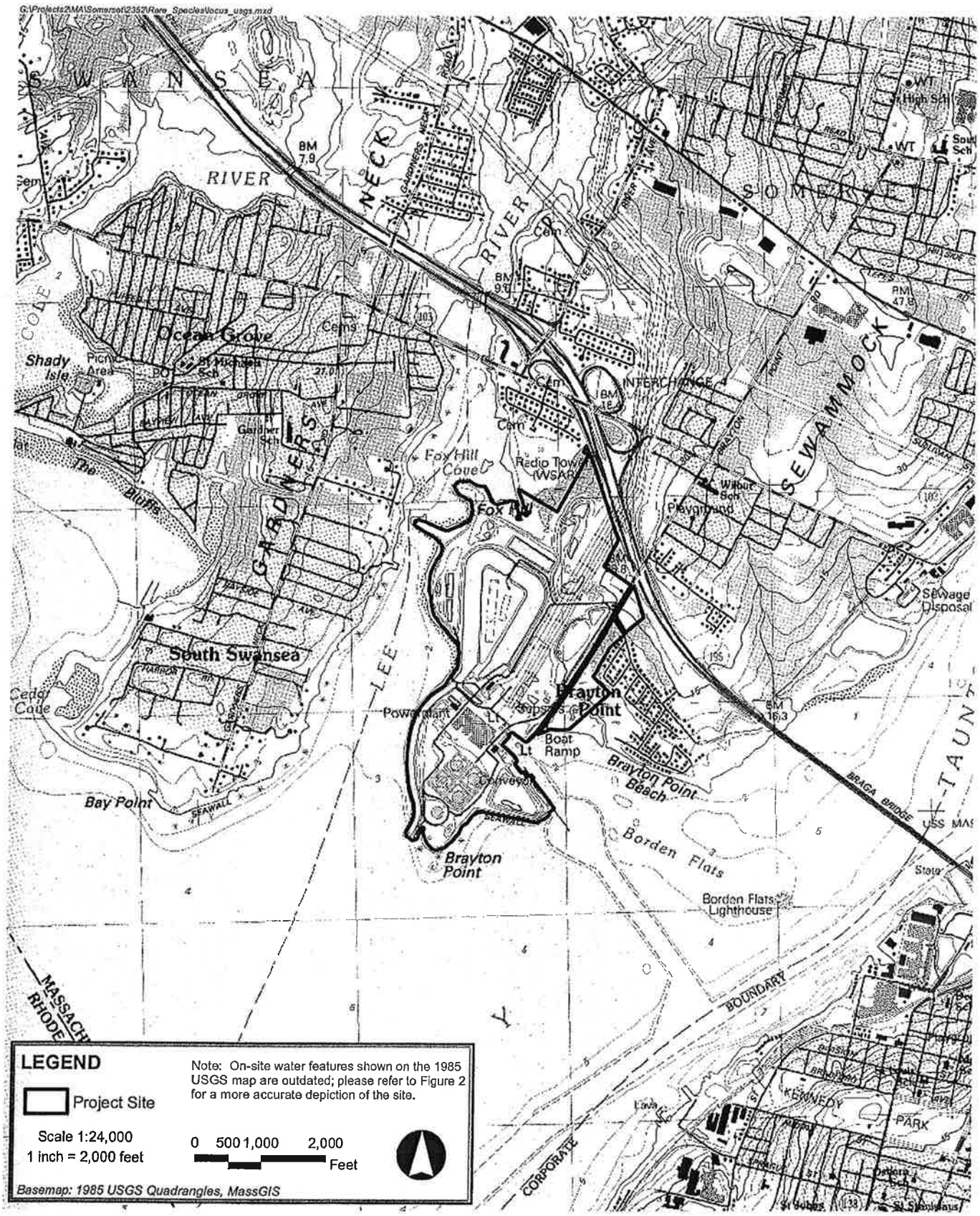
If you have any questions, please contact Meredith Simas at 508-646-5338.

Sincerely,

Pamela F. Faggert

Pamela F. Faggert

Attachments: Figure 1, USGS Locus Map
Figure 2, Aerial Locus Map



Brayton Point Cooling Tower Project **Somerset, Massachusetts**

Epsilon Associates, Inc.

Figure 1
USGS Locus Map

Brayton Point Cooling Tower Project **Somerset, Massachusetts**

Epsilon

Figure 2
Aerial Locus Map

08-I-0275

United States Department of the Interior

FISH AND WILDLIFE SERVICE

New England Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5087
http://www.fws.gov/northeast/newenglandfieldoffice

May 12, 2008

Reference: Project: Power plant improvements; Location: Somerset, MA

Pamela Faggert
Dominion
5000 Dominion Blvd.
Glen Allen, VA 23060

Dear Ms. Faggert:

This responds to your recent correspondence requesting information on the presence of federally-listed and/or proposed endangered or threatened species in relation to the proposed activity(ies) referenced above.

Based on information currently available to us, no federally-listed or proposed, threatened or endangered species or critical habitat under the jurisdiction of the U.S. Fish and Wildlife Service are known to occur in the project area(s). Preparation of a Biological Assessment or further consultation with us under Section 7 of the Endangered Species Act is not required.

This concludes our review of listed species and critical habitat in the project location(s) and environs referenced above. No further Endangered Species Act coordination of this type is necessary for a period of one year from the date of this letter, unless additional information on listed or proposed species becomes available.

In order to curtail the need to contact this office in the future for updated lists of federally-listed or proposed threatened or endangered species and critical habitats, please visit the Endangered Species Consultation page on the New England Field Office's website:

www.fws.gov/northeast/newenglandfieldoffice/EndangeredSpec-Consultation.htm

In addition, there is a link to procedures that may allow you to conclude if habitat for a listed species is present in the project area. If no habitat exists, then no federally-listed species are present in the project area and there is no need to contact us for further consultation. If the above conclusion cannot be reached, further consultation with this office is advised. Information describing the nature and location of the proposed activity that should be provided to us for further informal consultation can be found at the above-referenced site.

Thank you for your coordination. Please contact us at 603-223-2541 if we can be of further assistance.

Sincerely yours,

Anthony P. Tur
Endangered Species Specialist
New England Field Office

Pamela F. Faggert
Vice President and Chief Environmental Officer

Dominion Resources Services, Inc.
5000 Dominion Boulevard, Glen Allen, Virginia 23060
Phone: 804-273-3467

Dominion®

April 4, 2008

Regulatory Review
Natural Heritage and Endangered Species Program
Massachusetts Division of Fisheries and Wildlife
North Drive, Rte. 135
Westborough, MA 01581

Re: Dominion Energy Brayton Point, LLC, Somerset Massachusetts - Request for Information Regarding Threatened and Endangered Species

Dear Reviewer:

In accordance with 321 CMR 10.17 Dominion Energy Brayton Point, LLC hereby makes a formal request for information regarding threatened and endangered species in the vicinity of the site of the Brayton Point Power Station in Somerset, Massachusetts (see Figure 1).

This request is being made in support of the construction project described in the attached MESA Information Request Form.

If you have any questions, please contact Meredith Simas at 508-646-5338.

Sincerely,

Pamela F. Faggert

Pamela F. Faggert

Attachments: MESA Information Request Form
Figure 1,USGS Locus Map
Figure 2, Aerial Locus Map

Enclosure: $50 Processing Fee Payment Check

MESA Information Request Form

Please complete this form to request site-specific information from the Natural Heritage & Endangered Species Program (Please submit only one project per request form).

Please include a check for $50.00 made out to the Natural Heritage & Endangered Species Fund.*

Requestor Information

Name: Pamela F. Faggert

Affiliation: Dominion Resources Services, Inc.

Address: 5000 Dominion Boulevard

City: Glen Allen State: VA Zip Code: 23060

Daytime Phone: 804-273-3467 Ext.

Project Information

Project or Site Name: Brayton Point Cooling Tower Project

Location: One Brayton Point Road Town: Somerset

Name of Landowner or Project Proponent: Dominion Energy Brayton Point LLC

Acreage of the Property: 256 acres

Description of Proposed Project and Current Site Conditions: (If necessary attach additional sheet)

The project is the construction of two natural draft cooling towers and ancillary facilities on the 250 acre site of Brayton Point Power Station, a steam electric power plant (see Figure 1, Locus Map). The towers and ancillary facilities are proposed to be sited in a previously disturbed area on the project site. The towers will be approximately 500 feet tall and 220 feet in diameter at the exhaust exit. The approximate location of the proposed towers is shown on the aerial photo attached as Figure 2.

- [x] Will this project be reviewed as a Notice of Intent by the local Conservation Commission?
- [x] Will this project be undergoing MEPA review for reasons other than rare species?
- [x] Have you enclosed the required copy of a USGS topographic map in the scale 1:24,000 or 1:25,000 (not copy reduced) with the site location clearly marked and centered on the copy page? (Copies of Natural Heritage Atlas pages are not accepted)

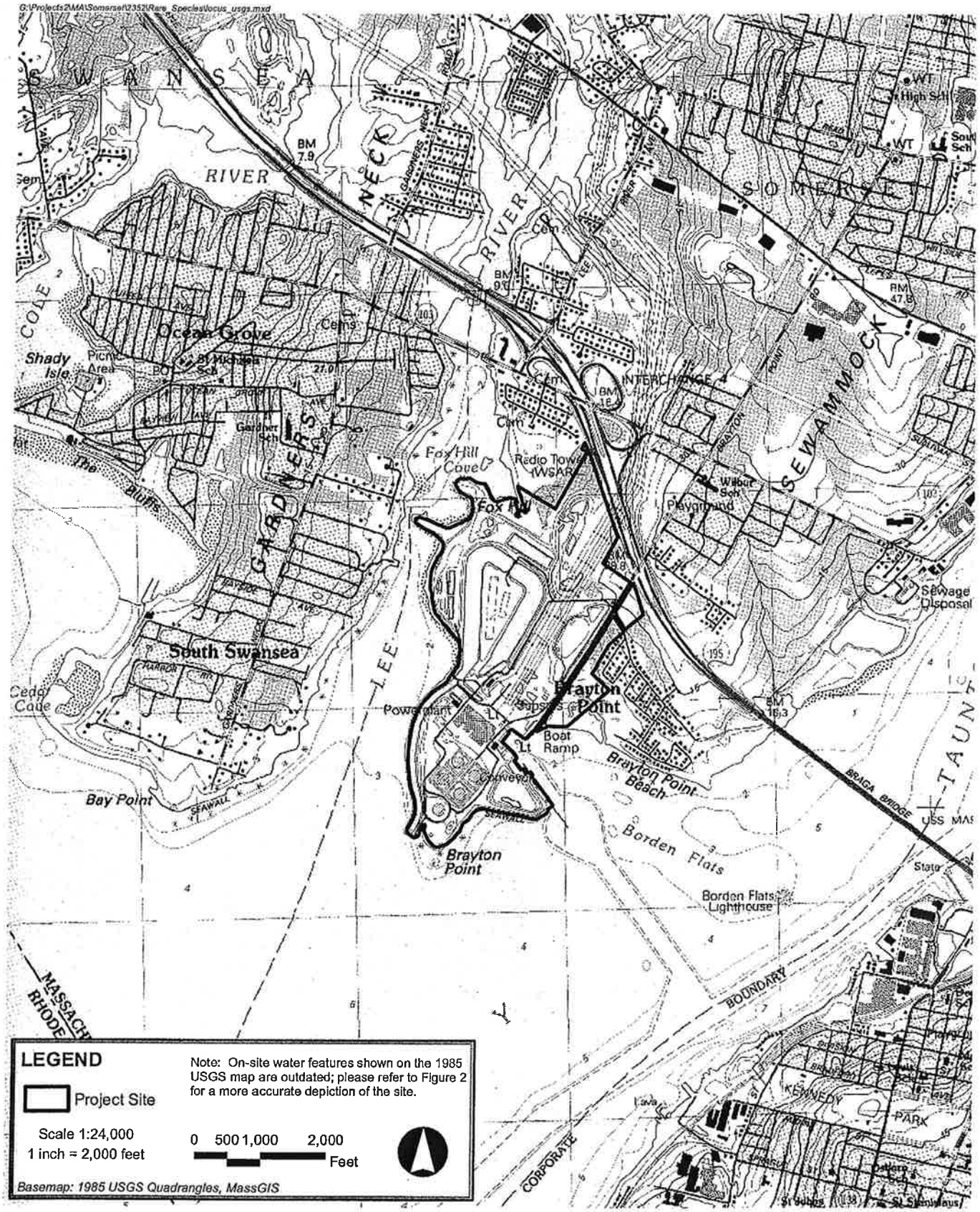
Please **mail** this completed form and topographic map to:

Regulatory Review
Natural Heritage and Endangered Species Program
MA Division of Fisheries and Wildlife
North Drive, Rte. 135
Westborough, MA 01581

Questions regarding this form should be directed to (508) 389-6380.

Persons requesting information will receive a written response within 30 days of receipt of all information required. Please do not ask for an expedited review. *If you are requesting information for habitat management or conservation purposes and you are a non-profit conservation group, government agency or working with a government agency please fill out a Data Release Form.

July 2005



Brayton Point Cooling Tower Project **Somerset, Massachusetts**

Epsilon Associates Inc.

Figure 1
USGS Locus Map

Brayton Point Cooling Tower Project **Somerset, Massachusetts**

Epsilon

Figure 2
Aerial Locus Map

Received
MAY 12 2008
Environmental

cc: Meredith Gray

Commonwealth of Massachusetts
Division of Fisheries & Wildlife
MassWildlife

Wayne F. MacCallum, *Director*

5/7/2008

Pamela Faggert
Dominion Resources Services, Inc
5000 Dominion Boulevard
Glen Allen VA 23060

RE: Project Location: One Brayton Point Road
Town: SOMERSET
NHESP Tracking No.: 08-24658

To Whom It May Concern:

Thank you for contacting the Natural Heritage and Endangered Species Program ("NHESP") of the MA Division of Fisheries & Wildlife for information regarding state-listed rare species in the vicinity of the above referenced site. Based on the information provided, this project site, or a portion thereof, is located within *Priority Habitat 893* (PH 893) and *Estimated Habitat 270* (EH 270) as indicated in the *Massachusetts Natural Heritage Atlas* (12th Edition). Our database indicates that the following state-listed rare species have been found in the vicinity of the site:

Scientific name	Common Name	Taxonomic Group	State Status
Sterna antillarum	Least Tern	Bird	Special Concern

The species listed above is/are protected under the Massachusetts Endangered Species Act (MESA) (M.G.L. c. 131A) and its implementing regulations (321 CMR 10.00). State-listed wildlife are also protected under the state's Wetlands Protection Act (WPA) (M.G.L. c. 131, s. 40) and its implementing regulations (310 CMR 10.00). Fact sheets for most state-listed rare species can be found on our website (www.nhesp.org).

Please note that projects and activities located within Priority and/or Estimated Habitat must be reviewed by the NHESP for compliance with the state-listed rare species protection provisions of MESA (321 CMR 10.00) and/or the WPA (310 CMR 10.00).

Wetlands Protection Act (310 CMR 10.00)
If the project site is within Estimated Habitat and a Notice of Intent (NOI) is required, then a copy of the NOI must be submitted to the NHESP so that it is received at the same time as the local conservation commission. If the NHESP determines that the proposed project will adversely affect the actual Resource Area habitat of state-protected wildlife, than the proposed project may not be permitted (310 CMR 10.37, 10.58(4)(b) & 10.59). In such a case, the project proponent may request a consultation with the NHESP to discuss potential project design modifications that would avoid adverse effects to rare wildlife habitat.

A streamlined joint MESA/WPA review process is now available. When filing a Notice of Intent (NOI), the applicant may now file concurrently under the MESA on the same NOI form and qualify for a 30-day

streamlined joint review. For a copy of the revised NOI form, please visit the MA Department of Environmental Protection's website: http://www.mass.gov/dep/water/approvals/wpaform3.doc.

MA Endangered Species Act (M.G.L. c. 131A)

If the proposed project is located within Priority Habitat and is not exempt from review (see 321 CMR 10.14), then project plans, a fee, and other required materials must be sent to NHESP Environmental Review to determine whether a probable "take" under the MA Endangered Species Act would occur (321 CMR 10.18). Please note that all proposed and anticipated development must be disclosed, as MESA does not allow project segmentation (321 CMR 10.16). For a MESA filing checklist and additional information please see our website: www.nhesp.org ("Regulatory Review" tab).

We recommend that rare species habitat concerns be addressed during the project design phase prior to submission of a formal MESA filing, as avoidance and minimization of impacts to rare species and their habitats is likely to expedite endangered species regulatory review.

This evaluation is based on the most recent information available in the Natural Heritage database, which is constantly being expanded and updated through ongoing research and inventory. If you have any questions regarding this letter please contact Amy Coman, Endangered Species Review Assistant, at (508) 389-6364.

Sincerely,

Thomas W. French

Thomas W. French, Ph.D.
Assistant Director

Pamela F. Faggert
Vice President and Chief Environmental Officer
Dominion Resources Services, Inc.
5000 Dominion Boulevard, Glen Allen, VA 23060
Phone: 804-273-3467

Dominion

September 19, 2008

Thomas W. French, Ph.D.
Assistant Director
Division of Fisheries and Wildlife
North Drive
Westborough, MA 01581

Re: Project Location: One Brayton Point Road
Town: SOMERSET
NHESP Tracking No.: 08-24658

Dear Dr. French:

Dominion Energy Brayton Point, LLC ("Dominion") is responding to your letter of May 7, 2008. In that letter, your Division notes the presence of the Least Tern, a state species of special concern, in the vicinity of the Brayton Point Closed Cycle Cooling Project referenced in the MESA Information Request Form that Dominion submitted April 4, 2008.

Dominion believes that the Brayton Point Cooling Tower Project will not occur within the habitat of the Least Tern. Specifically, the attached figure shows the approximate location of the Closed Cycle Cooling Project in relation to the *Priority Habitat 893* (PH893) and *Estimated Habitat 270* (EH 270) as indicated in the *Massachusetts Natural Heritage Atlas* (12th Edition). While some habitat exists on Brayton Point Station property, no portion of the Brayton Point Closed Cycle Cooling Project will occur within the identified Least Tern habitat.

A Notice of Intent (NOI) was submitted to MADEP and the Somerset Conservation Commission in July, 2008. An Order of conditions (MADEP File # SE070-0433) was issued on August 4, 2008. Because the project does not impact Priority Habitat, no review is needed under the Massachusetts Endangered Species Act (M.G.L.c.131A).

If you have any questions or if a copy of the NOI/Order of Conditions is needed, please feel free to call Meredith Simas at 508-646-5338.

Sincerely,

Pamela F. Faggert

Pamela F. Faggert

Cc: Amy Coman, Endangered Species Review Assistant, Division of Fisheries and Wildlife, North Drive Westborough, MA 01581

Brayton Point Cooling Tower Project **Somerset, Massachusetts**

Epsilon

NHESP Priority and Significant Habitat

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 1
1 Congress Street, Suite 1100
BOSTON, MA 02114-2023

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

October 16, 2008

Meredith Simas, Supervisor- Environmental regulations
Dominion Energy Brayton Point Station
1 Brayton Point Road
Somerset, MA 02347

Re: Authorization to discharge under the Remediation General Permit (RGP) – MAG910000. Brayton Point Station site at 1 Brayton Point Road, Somerset, MA 02347; Authorization # MAG910385.

Dear Ms. Simas:

Based on the review of the notice of intent (NOI) for the site referenced above, the US Environmental Protection Agency (EPA) hereby authorizes you to discharge in accordance with the provisions of the RGP at that site. Your authorization number is listed above.

The enclosed checklist designates the monitoring parameters applicable to your discharge. 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 . This general permit and authorization to discharge expire on September 9, 2010. This project reportedly will terminate 04/01/12. EPA requests that a Notice of Termination (NOT) is submitted to the attention of the contact person indicated below within 30 days of project completion. Also, please note that the permittee is required to apply for a permit reissuance 180 days prior to the permit expiration date.

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: Paul Hogan, Mass DEP
Pamela F. Faggert, Dominion Brayton Point

SUMMARY OF MONITORING PARAMETERS[1] UNDER THE REMEDIATION GENERAL PERMIT (RGP)

Facility/Site Name: BRAYTON POINT STATION
Facility/Site Address: 1 BRAYTON POINT ROAD, SOMERSET, MA 02347
Sub-category - Primarily Metals (Ground water from excavation/ MCP site) - Estimated date of completion 04/01/12

Permit # MAG910385 **Permit Issued: October 16, 2008**

Monitor checked parameters	Parameter to be monitored (see Parts I.C. and I.D. and Appendix III of the RGP for specific limits and requirements)	Monitor checked parameters	Parameter to be monitored (see Parts I.C. and I.D. and Appendix III of the RGP for specific limits and requirements)
✔	1. Total Suspended Solids (TSS)		27. Trichloroethylene (TCE)
	2. Total Residual Chlorine (TRC)		28. Vinyl Chloride (Chloroethene)
✔	3. Total Petroleum Hydrocarbons (TPH)		29. Acetone
	4. Cyanide (CN)[2]		30. 1,4 Dioxane
	5. Benzene (B)		31. Total Phenols
	6. Toluene (T)		32. Pentachlorophenol (PCP)
	7. Ethylbenzene (E)		33. Total Phthalates
	8. (m,p,o) Xylenes (X)		34. Bis (2-Ethylhexyl) Phthalate
	9. Total BTEX[3]		35. Total Group I Poly. Aromatic Hyd.
	10. Ethylene Dibromide (EDB)		a. Benzo(a) Anthracene
	11. Methyl-tert-Butyl Ether (MtBE)		b. Benzo(a) Pyrene
	12. tert-Butyl Alcohol (TBA)		c. Benzo(b)Fluoranthene
	13. tert-Amyl Methyl Ether (TAME)		d. Benzo(k)Fluoranthene
	14. Naphthalene		e. Chrysene
	15. Carbon Tetrachloride		f. Dibenzo(a,h)anthracene
	16. 1,4 Dichlorobenzene (p-DCB)		g. Indeno(1,2,3-cd) Pyrene
	17. 1,2 Dichlorobenzene (o-DCB)		36. Total Group II Polycyclic Aromatic Hydrocarbons
	18. 1,3 Dichlorobenzene (m-DCB)		h. Acenaphthene
	18.a. Total dichlorobenzene		i. Acenaphthylene
	19. 1,1 Dichloroethane (DCA)		j. Anthracene
	20. 1,2 Dichloroethane (DCA)		k. Benzo(ghi) Perylene
	21. 1,1 Dichloroethylene (DCE)		l. Fluoranthene
	22. cis-1,2 Dichloro-ethylene (DCE)		m. Fluorene
	23. Dichloromethane (Methylene Chloride)		n. Naphthalene
	24. Tetrachloroethylene (PCE)		o. Phenanthrene
	25. 1,1,1 Trichloro-ethane (TCA)		p. Pyrene
	26. 1,1,2 Trichloro-ethane (TCA)		37. Total Polychlorinated Biphenyls (PCBs)

Monitor checked parameters	Parameter to be monitored (see Parts I.C. and I.D. and Appendix III of the RGP for specific limits and requirements)	Monitor checked parameters	Parameter to be monitored (see Parts I.C. and I.D. and Appendix III of the RGP for specific limits and requirements)
✔	38. Antimony	✔	52. Total Flow
✔	39. Arsenic		53. pH Range for Class A & Class B Waters in MA
✔	40. Cadmium	✔	54. pH Range for Class SA & Class SB Waters in MA
✔	41. Chromium III (trivalent)		55. pH Range for Class B Waters in NH
	42. Chromium VI (hexavalent)		56. Daily maximum temperature - Warm water fisheries
✔	43. Copper		57. Daily maximum temperature - Cold water fisheries
✔	44. Lead		58. Maximum Change in Temperature in MA - Any Class A water body
	45. Mercury		59. Maximum Change in Temperature in MA - Warm Water
✔	46. Nickel		60. Maximum Change in Temperature in MA - Cold Water and Lakes/Ponds
✔	47. Selenium		61. Maximum Change in Temperature in MA -Coastal
	48. Silver		62. Maximum Change in Temperature in MA - July to September
✔	49. Zinc		63. Maximum Change in Temperature in MA - October to June
✔	50. Iron		
✔	51. Instantaneous Flow		

Footnotes:

1. This checklist does not represent the complete requirements of the RGP. Operators must comply with all of the applicable requirements of the remediation general permit (RGP), including influent monitoring, narrative water quality standards, etc. Operators must follow the RGP, including Parts I, II, and Appendices I - VIII in order to comply with the specific applicable requirements.

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

3. BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENERGY & ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
ONE WINTER STREET, BOSTON, MA 02108 (617) 292-5500

DEVAL L. PATRICK
Governor

TIMOTHY P. MURRAY
Lieutenant Governor

IAN A. BOWLES
Secretary

LAURIE BURT
Commissioner

Victor Alvarez
EPA-New England, Region I
Municipal Assistance Unit-CMU
1 Congress Street, Suite 1100
Boston MA 02114-2023

October 10, 2008

RE: Brayton Point Station
1 Brayton Point Road
Somerset, MA 02347
Groundwater Remediation General Permit, BASIN CODE 62

Dear Mr. Alvarez,

The Massachusetts Department of Environmental Protection, Division of Watershed Management, has reviewed the notice of intent to be covered under the Remediation & Miscellaneous Contaminated Sites General Permit (RGP) for the above referenced application.

The Department concurs that this project should be authorized to discharge under the permit to Mount Hope Bay, a Class SB waterbody in the area of the discharge.

The discharge is expected to begin April 2009 and last until April 2012 through one outfall. Effluent limitations, minimum levels and test methods are specified in the General Permit.

The applicant should note written notification of work completion is needed. Please call me at 508/767-2854 if you have any questions.

Sincerely,

Robert Kubit, P.E.

cc: AJ Jablonowski/Epsilon Associates, Inc.