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

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

July 17, 2015

Thomas W. Breckel
Vice President of Operations
Colbea Enterprises LLC
2050 Plainfield Pike
Cranston, RI 02921

Re: Authorization to discharge under the Remediation General Permit (RGP) – for the Former Shell-Branded Service Station site located in Raynham, Massachusetts; Authorization # MAG910692

Dear Mr. Breckel:

Based on the review of a Notice of Intent (NOI) that was submitted on your behalf by Leah J. Smith of Sovereign Consulting, Inc. 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 that were detected in your sampling and that may have exceeded Appendix III limits. Please note that the metals included on the checklist are dilution dependent pollutants and subject to limitations based on a dilution factor range (DFR). Based on the effluent flow from the treatment system and the low flow of the receiving water, Dam Lot Brook, the limit for total iron will be based on the dilution factor of 3. (See the RGP Appendix IV for Massachusetts facilities).

The following limits will apply to the effluent of this treatment system: **Total Suspended Solids (TSS) - 30 mg/l, benzene – 5 ug/l, monitoring for toluene, ethylbenzene and xylene, Total BTEX – 100 ug/l, Methyl-tertiary Butyl Ether (MtBE) – 70 ug/l, naphthalene – 20 ug/l, iron - 3,000 ug/l, and a pH range of 6.5 – 8.3 standard units (s.u.). There is also a monitoring requirement for total chloride.**

This EPA general permit and authorization to discharge will expire on September 9, 2015. You have reported this project will terminate on September 1, 2015. Please be aware you are required to reapply for coverage after the EPA expired permit has been reissued, if your project is extended beyond the permit expiration date. The reissuance date as well as the reapplication submittal date will be posted on the EPA web site at that time. Also, regardless of your project termination date you are required to submit a Notice of Termination (NOT) to the attention of the contact person indicated below within thirty (30) days of the termination of the discharge.

Thank you in advance for your cooperation in this matter. Please contact George Papadopoulos at (617) 918-1579 or Papadopoulos.George@epa.gov, if you have any questions.

Sincerely,

Thelma Murphy

Thelma Murphy, Chief
Storm Water and Construction
Permits Section

Enclosure

cc: Robert Kubit, MassDEP
Leah J. Smith, Sovereign Consulting, Inc.

2010 Remediation General Permit
Summary of Monitoring Parameters[1]

NPDES Authorization Number:	**MAG910692**
Authorization Issued:	**July 17, 2015**
Facility/Site Name:	Former Shell-Branded Service Station – Raynham, MA
Facility/Site Address:	
	Email address of owner: twbreckel@eastsideenterprise.com
Legal Name of Operator:	Colbea Enterprises LLC
Operator contact name, title, and Address:	Thomas W. Breckel, Vice President of Operations
	Email: same as above
Estimated date of The Project Completion:	September 1, 2015
Category and Sub-Category:	Petroleum Related Site Remediation Category– Gasoline Only Sites Subcategory
RGP Termination Date:	September 2015
Receiving Water:	Storm Drain to Dam Lot Brook

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) **, Me#160.2/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 10ug/L
√	**5. Benzene (B)**	5 ug/L / Me#8260C/ML 2 ug/L
√	**6. Toluene (T)**	(limited as ug/L total BTEX)/ Me#8260C/ ML 2 ug/L
√	**7. Ethylbenzene (E)**	(limited as ug/L total BTEX) Me#8260C/ ML 2 ug/L
√	**8. (m,p,o) Xylenes (X)**	(limited as ug/L total BTEX) Me#8260C/ ML 2 ug/L
√	**9. Total Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) [4]**	100 ug/L/ Me#8260C/ ML 2 ug/L
	10. Ethylene Dibromide (EDB) (1,2- Dibromoethane)	0.05 ug/l/ Me#8260C/ ML 10ug/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)
√	**11. Methyl-tert-Butyl Ether (MtBE)**	70.0 ug/l/Me#8260C/ML 10 ug/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 2 ug/L
	15. Carbon Tetrachloride	4.4 ug/L /Me#8260C/ ML 5 ug/L
	16. 1,2 Dichlorobenzene (o-DCB)	600 ug/L /Me#8260C/ ML 5 ug/L
	17. 1,3 Dichlorobenzene (m-DCB)	320 ug/L /Me#8260C/ ML 5 ug/L
	18. 1,4 Dichlorobenzene (p-DCB)	5.0 ug/L /Me#8260C/ ML 5 ug/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
	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

	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)
	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 100 ug/L

	Metal Parameters	Total Recoverable Metal Limit H [10] = 50 mg/l CaCO3, Units = ug/l Freshwater Limits	Minimum level=ML[11]
	39. Antimony	5.6	10
	40. Arsenic **	10	20
	41. Cadmium **	0.2	10
	42. Chromium III (trivalent) **	17.1	15
	43. Chromium VI (hexavalent) **	11.4	10
	44. Copper **	5.2	15
	45. Lead **	1.3	20
	46. Mercury **	0.9	0.2
	47. Nickel **	2.38	20
	48. Selenium **	5	20
	49. Silver	1.1	10
	50. Zinc **	66.6	15
√	**51. Iron**	**3000**	**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[12]**
	55. pH Range for Class SA & Class SB Waters in MA	6.5-8.5; 1/Month/Grab[12]
	56. pH Range for Class B Waters in NH	6.5-8; 1/Month/Grab[12]
	57. Daily maximum temperature - Warm water fisheries	83°F; 1/Month/Grab[13]
	58. Daily maximum temperature - Cold water fisheries	68°F; 1/Month/Grab[13]
	59. Maximum Change in Temperature in MA - Any Class A water body	1.5°F; 1/Month/Grab[13]
	60. Maximum Change in Temperature in MA - Any Class B water body- Warm Water	5°F; 1/Month/Grab[13]
	61. Maximum Change in Temperature in MA – Any Class B water body - Cold water and Lakes/Ponds	3°F; 1/Month/Grab[13]
	62. Maximum Change in Temperature in MA – Any Class SA water body - Coastal	1.5°F; 1/Month/Grab[13]
	63. Maximum Change in Temperature in MA – Any Class SB water body - July to September	1.5°F; 1/Month/Grab[13]
	64. Maximum Change in Temperature in MA –Any Class SB water body - October to June	4°F; 1/Month/Grab[13]

Footnotes:

[1] Although the maximum values for TRC are 11 ug/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] 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).

[12] pH sampling for compliance with permit limits may be performed using field methods as provided for in EPA test Method 150.1.

[13] Temperature sampling per Method 170.1

SOVEREIGN CONSULTING INC.

July 6, 2015
Via E-mail

Mr. Victor Alvarez
U.S. Environmental Protection Agency
EPA-Region 1
5 Post Office Square
Boston, MA 02109-3912

Re: **NPDES Remediation General Permit**
Former Shell-Branded Service Station #100077
442 Route 44
Raynham, Massachusetts 02767
RTN 4-0000249

Mr. Alvarez:

Sovereign Consulting Inc. (Sovereign), on behalf of Colbea Enterprises LLC (Colbea), has prepared this National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP) – Notice of Intent (NOI) for the above referenced disposal site. This RGP – NOI pertains to Category I – Petroleum Related Site Remediation, Sub-Category A (Gasoline Only Sites). The NOI RGP permit application was prepared to allow for discharge of groundwater during dewatering from underground storage tank removal activities. The groundwater will require pre-treatment prior to discharging into the municipal storm sewer located on Route 44 in Raynham, Massachusetts and will be discharged in accordance with NPDES regulations. The project is also regulated under the Massachusetts Contingency Plan 310 CMR 40.0000 under Release Tracking Number (RTN) 4-0000249.

If you have any questions regarding this submittal, please feel free to contact the undersigned.

Sincerely,
SOVEREIGN CONSULTING INC.

Leah J. Smith
Project Manager

Attachments: NPDES RGP - Notice of Intent

cc: *With Attachments:*
Thomas W. Breckel, Colbea Enterprises LLC
Town of Raynham
MassDEP-SERO
Mass DOR– 21J
Sovereign File – CO045

SOVEREIGN CONSULTING INC.

Science. Service. Solutions.

NPDES REMEDIATION GENERAL PERMIT

Former Shell-branded Station
442 Route 44
Raynham, Massachusetts

MassDEP RTN 4-0000429

Prepared for:

COLBEA ENTERPRISES LLC
2050 PLAINFIELD PIKE
CRANSTON, RI 02921

Prepared by:

Sovereign Consulting Inc.
4 Open Square Way, Suite 307
Holyoke, Massachusetts 01040

July 6, 2015

Project Number: CO045

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FIGURES

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ATTACHMENTS

Attachment A Notice of Intent Form
Attachment B Laboratory Analytical Data
Attachment C MACRIS Database Search Results

1.0 INTRODUCTION

Sovereign Consulting Inc. (Sovereign) prepared this National Pollutant Discharge Elimination System (NPDES Remediation General Permit (RGP), on behalf of Colbea Enterprises LLC (Colbea) to manage treated groundwater which will be discharged into the municipal storm catch basin located on Route 44 in Raynham, Massachusetts. The residually impacted groundwater will be generated from dewatering during underground storage tank (UST) and associated dispenser lines removal. This site is identified by the Massachusetts Department of Environmental Protection (MassDEP) as Release Tracking Number (RTN) 4-0000249 and is regulated in accordance with the Massachusetts Contingency Plan (MCP) 310 CMR 40.0000. Accordingly, discharges subject to the MCP do not require the completion of a state application form BRPWM 12 or state fee payment.

A Site Location Map and discharge location is provided as **Figure 1** and a Site Plan, depicting relevant site features including the municipal storm catch basin location, is attached as **Figure 2. Figure 3** is the MassDOT drain layout and outfall location for the drain system being used for this NOI along Route 44. **Figure 4** presents a Typical Groundwater Dewatering Installation Diagram. A Waterbody Assessment and TMDL Status for Raynham, Massachusetts is provided as **Figure 5**. The MassDEP Bureau of Waste Site Cleanup Phase I Site Assessment Map, dated June 4, 2015, is provided as **Figure 6**.

For the purpose of this investigation, the "facility" is defined as the area located within the property boundaries of 442 Route 44 in Raynham, Massachusetts. The "disposal site" is defined as the property and other properties where oil and/or hazardous material (OHM) has come to be located as a result of the release from the property. The disposal site is defined by the facility property boundaries and includes a portion of the Papa Gino's property which abuts the facility to the west, and portions of Route 44 to the south.

Relevant Contacts:

Facility/Facility Owner:	Belbroad Corporation C/O Colbea Enterprises LLC 2050 Plainfield Pike Cranston, Rhode Island 02921
Facility Operator:	Colbea Enterprises LLC 2050 Plainfield Pike Cranston, Rhode Island 02921 Contact: Thomas Breckel Tel: (401) 943-0005

2.0 PROJECT SUMMARY

2.1 Site Description

The facility is currently a vacant Shell-branded gasoline service station that was closed in 2012. The station building was constructed in 1962 and was formerly a Texaco-branded service station which included an office/convenience store area, two automotive service bays, and a

storage room. The two automotive service bays are now inactive and are used for storage. The three gasoline USTs, one diesel UST, one fuel oil UST, and two gasoline dispenser islands are located on the southern portion of the facility.

Colbea anticipates conducting UST removal activities at the disposal site in the near future. The disposal site is a commercial property and does not have a NPDES permit exclusion or prior application.

2.2 Sensitive Receptors

According to data obtained from the Massachusetts Geographic Information Systems (Mass GIS) Phase 1 Site Assessment Map (**Figure 6**) dated June 4, 2015, drinking water supplies, areas of critical environmental concern, sole source aquifers, fish habitats, habitats of Species of Special Concern or threatened or Endangered Species are not identified within 500 feet of the disposal site. Wetlands are located within a half a mile of the disposal site to the north, northeast and northwest and potential vernal pools within 1,000 feet to the northwest northeast east, and south of the disposal site. The nearest surface water bodies are the Taunton River located approximately 600 feet south (cross and upgradient) at its closest point and Dam Lot Brook located approximately 700 feet to the west. The nearest protected open space is the Woodland Conservation area which is located approximately 1,440 feet northeast (crossgradient) at its nearest point.

Drinking water is supplied to the property and surrounding area by the Town of Raynham municipal water services. The Raynham Center Water District confirmed that the Town of Raynham obtains drinking water from several wells located throughout Raynham. None of the wells are located within a one-half mile radius of the disposal site. According to data obtained from the MassGIS, groundwater beneath the disposal site is not identified as a drinking water aquifer, a potential drinking water aquifer, an Interim Wellhead Protection Area, or a Zone II wellhead protection area. There are no private supply wells located within 500 feet of the disposal site. Based upon available information obtained from the Town of Raynham and the MassDEP, the nearest private supply well is located at 510 Route 44, approximately 560 feet to the east, upgradient of the disposal site.

The Children's Development Center is located approximately 1,000 feet to the north, crossgradient of the disposal site. The Wedgemere Rehabilitation and Nursing Center is approximately 1.1 miles to the west of the disposal site. The disposal site is located in the business district and it is unknown if the nearby commercial properties have basements. Residential properties are located within a 0.5 mile radius to the north, east, and northeast of the disposal site. The closest residential property with a basement is located approximately 0.25 miles to the north of the disposal site off of South Street West.

3.0 DISCHARGE INFORMATION

3.1 Influent Sampling

An influent sample was collected from groundwater at monitoring well MW-203, providing worst-case scenario. The groundwater sample was collected on April 14, 2015 and May 13, 2015

and analyzed by a State of Massachusetts certified laboratory for the parameters required by the RGP Permit. The sample results, laboratory methods, laboratory method detection limits, and the total maximum daily mass of contaminants of concert (COCs) anticipated to be discharged have been summarized in the Notice of Intent provided as **Attachment A** and the laboratory analytical reports are included as **Attachment B**.

3.1.1 Influent Results

The influent sample results from groundwater collected at monitoring well MW-203 detected benzene, BTEX (benzene, toluene, ethyl benzene and total xylenes), naphthalene, and iron above the effluent limit listed in Appendix III of the RGP regulations. Effluent samples were not collected at the time of sampling because the dewatering treatment system is not installed.

On the NOI, all analytes detected above the laboratory detections limits from the April 14, 2015 and May 13, 2015 sampling event were recorded as "Believed Present" and all analytes detected below the laboratory detections limits were recorded as "Believed Absent". The two exceptions were tert-butyl alcohol (TBA) and tertiary-amyl methyl ether (TAME). Refer to **Section 3.1.2** for additional details.

3.1.2 Laboratory Analytical Method and Method Detection Limit Exceptions

All analytes were analyzed utilizing the methods listed in Appendix VI for the RGP regulations, with the exception of TBA, TAME and Chloride. Due to laboratory limitations, TBA and TAME were analyzed using Method 8260B. Chloride was analyzed using Method 400 CL B.

For TBA, Method 8260B achieved an elevated reporting Method Detection Limit (MDL) of 80 micrograms per liter (µg/L), due to high concentration of non-target compounds. This falls above the Method Detection Limit for approved methods 624, 524.2, and 5035A/8260C listed in Appendix VI of the RGP Regulations. Based on historical data collected from disposal site, TBA has been detected in the groundwater sampled from monitoring wells MW-201, MW-203, MW-204, MW-205 and MW-206. TBA does not have an effluent limit listed in Appendix III of the RGP regulations and is sampled for monitoring purposes only. TBA was listed on the NOI as "Believed Present" and will be sampled accordingly.

For TAME, Method 8260B achieved an elevated reporting Method Detection Limit (MDL) of 800 micrograms per liter (µg/L), due to high concentration of non-target compounds. This also falls above the Method Detection Limit for approved methods 8015D, 524.2, 624, 5035A/8260C listed in Appendix VI of the RGP Regulations. Based on historical data collected from disposal site, TAME has been detected in the groundwater sampled from monitoring wells MW-203, MW-204 and MW-205. TAME does not have an effluent limit listed in Appendix III of the RGP regulations and is sampled for monitoring purposes only. TAME was listed on the NOI as "Believed Present" and will be sampled accordingly.

Per Appendix VI of the RGP regulations, Method 300.0 has a reporting limit of 0.1 milligrams per liter (mg/L). The method used by the laboratory (4500 CL B) has a reporting limit of 2.0 mg/L as a result of the laboratory dilution factor of 2. Per Appendix III of the RGP regulations,

chloride does not have an effluent limit and is sampled for monitoring purposes only. Chloride was listed on the NOI as "Believed Present" and will be sampled accordingly.

3.1.3 Dilution Factor

Total iron was detected in groundwater sampled from MW-203 on May 13, 2015 at a concentration of 11,000 µg/L, which is above the Appendix III Freshwater effluent limit of 1,000 µg/L (assuming a dilution factor range of 0-5). Iron is naturally occurring in the groundwater and is not associated with the Shell-branded Service Station.

Per the RGP regulations, if a metal concentration in a potential discharge (untreated influent) to freshwater exceeds the limits in Appendix III with zero dilution, the applicant must evaluate the potential concentration considering a dilution factor (DF) using the formula below:

Dilution Factor (DF) Calculation: **DF = (Qd + Qs)/Qd**

Where:

DF = Dilution Factor
Qd = Maximum flow rate of the discharge in cubic feet per second (cfs) (1.0 gpm =0.002676 cfs)
Qs = Receiving water 7Q10 flow (cfs) where 7Q10 is the minimum flow (cfs) for 7 consecutive days with a recurrence interval of 10 years

Estimated flow rates are based on the maximum flow rate of 20 gpm and the United States Geological Society 7Q10 flow data for Dam Lot Brook, the dilution factor is as follows:

DF = (Qd + Qs)/Qd
Qd = .0.05352 cfs
Qs = 0.110

DF = (0.05352 +0.110)/ 0.05352
DF= 3.06

As a result of the calculated dilution factor, Sovereign requests an effluent iron concentration limit of 3,000/L.

Colbea anticipates that the treatment system will remove the majority of dissolved iron from the effluent water stream prior to discharge to the storm water drain which discharges to Dam Lot Brook. If needed, a modification to the system may be required which will include the incorporation of a sequestering agent to keep iron in solution. Any modifications to the system will be submitted for approval by a Notice of Change (NOC).

4.0 TREATMENT SYSTEM INFORMATION

4.1 System Design

The sump water treatment system will be located in on the disposal site, located at 442 Route 44 in Raynham, Massachusetts. The system will be composed of the following: one submersible sump pump locate within each sub-grade sump, a 165-gallon poly tank (or equivalent), two bag filters piped in parallel to filter out particulates, two influent 200-pound or greater liquid phase granular activated carbon (LGAC) units piped in parallel and two effluent 200-pound or greater LGAC units piped in parallel. The flow rate of the system is expected to range from 0.5 to 1.0 gpm. The component of the system with the most limited flow will be the LGACs.

The proposed discharge location for treated groundwater is a municipal storm drain catch basin located adjacent to the property line, in Route 44 adjacent to the disposal site as depicted on **Figure 2**. This storm drain discharges to Dam Lot Brook at an outlet under Bridge No. R-2-11. Refer to **Figure 4** for the typical Groundwater Dewatering Installation Diagram.

5.0 RECEIVING SURFACE WATER

The proposed discharge location for treated groundwater is a municipal storm drain catch basin located adjacent to the property line, in Route 44 as depicted on **Figure 2**. This storm drain discharges to Dam Lot Brook at an outlet under Bridge No. R-2-11 approximately 700 feet to the west, which then discharges to Three Mile River (Taunton River).

5.1 Receiving Water Information

The receiving water for the indirect discharge of the treated groundwater discharge is the Dam Lot Brook. On June 4, 2015, Sovereign consulted the online United States Geological Survey (USGS) Streamstats program (http://ssdev.cr.usgs.gov/v3_beta/viewer.aspx and http://ssdev.cr.usgs.gov/gagepages/html/01108240.htm, to determine the 7Q10 flow rate at the discharge location. Data obtained from the online resource indicated that the 7Q10 flow rate for the Dam Lot Brook at USGS station #01108240 is 0.110 cubic feet per second (cfs). Based on data available, Sovereign calculated a 7Q10 flow rate for this area to be approximately 40 cubic feet per minute.

Per the Waterbody Assessment and TMDL Status Map (**Figure 5**) for Raynham, Massachusetts, Dam Lot Brook was not assigned a Category designation. Taunton River, which receives water from Dam Lot Brook is listed as a Category 5 impaired or threatened water body. Category 5 is water that is impaired or threatened for one of more uses and required a TMDL. A copy of the Waterbody Assessment and TMDL Status Map for Brockton, Massachusetts is included as **Figure 4**.

5.2 Receiving Water Classification

Sovereign consulted the MassDEP Division of Water Pollution Control (http://www.mass.gov/eea/docs/dep/water/laws/i-thru-z/tblfig.pdf) to determine the

classification for the receiving waters. Dam Lot Brook is not classified, but one of the downgradient receiving water (Three Mile River/Taunton River) is listed as Class B.

6.0 ESA AND NHPA ELIGIBILITY

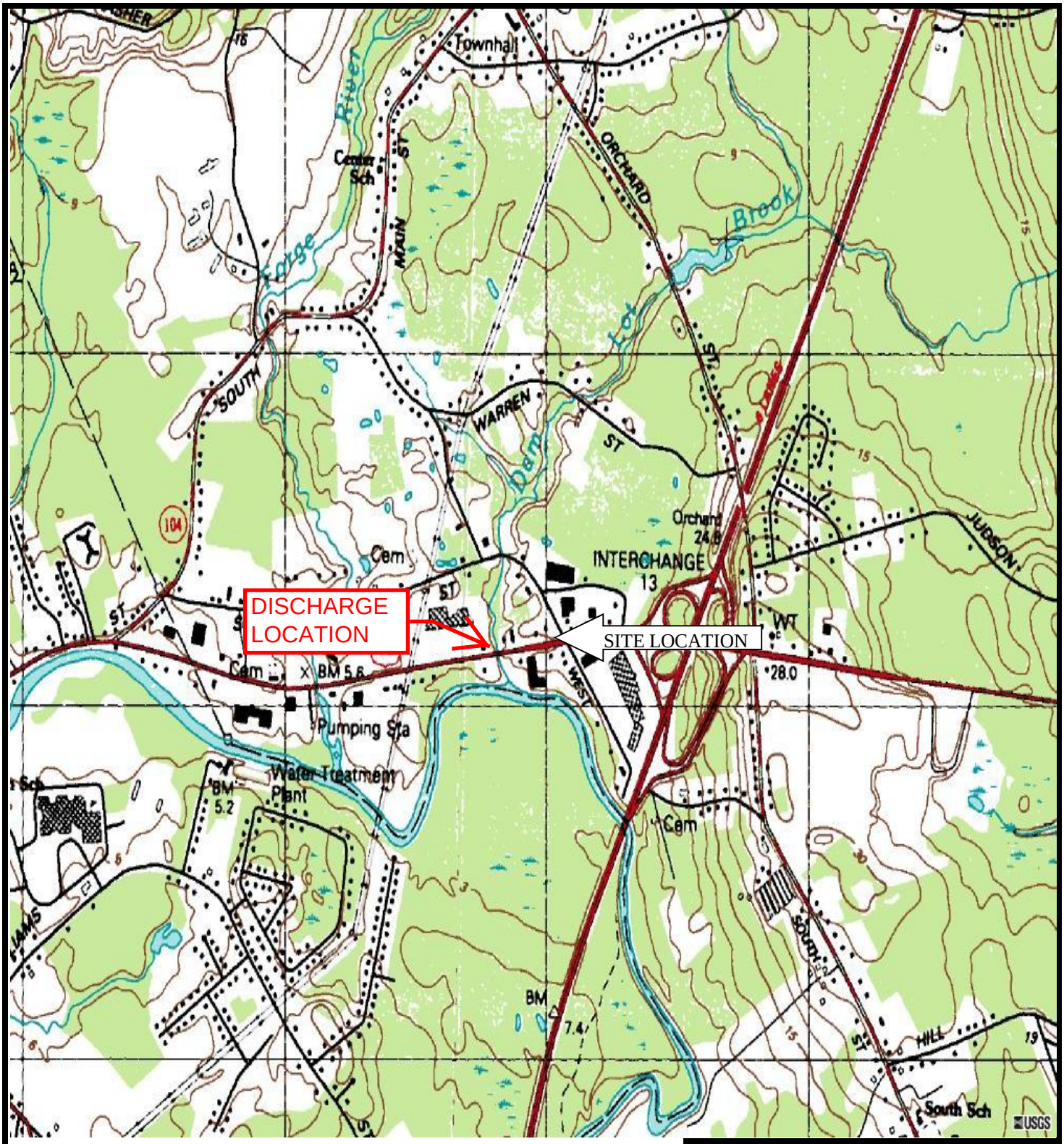
6.1 Endangered Species Act Guidance

In accordance with Appendix II and VII of the RGP regulations, Sovereign personnel reviewed the regulations to determine if the proposed discharge to the storm drain in Route 44, which discharges to Dam Lot Brook, is in compliance with the Endangered Species Act (ESA) eligibility criteria. Based on the ESA Eligibility Criteria, the applicable criterion is "Criterion A". Criterion A states that "No endangered or threatened species or their designated critical habitat are likely to occur in proximity to the storm water discharges related activities".

6.2 National Historic Preservation Act

In accordance with Appendix VII of the RGP regulations, on June 4, 2015, Sovereign personal reviewed the electronic listings to determine if any historic properties, or eligible for listing on the National Register of Historic Places, are within the path of the discharge or discharge related activities. Listings of Historic Places within the Town of Raynham, in the vicinity of the disposal site and proposed discharge area of Dam Lot Brook were obtained from the Massachusetts Cultural Resources Information System (MACRIS) online database at http://mhc-macris.net/Towns.aspx?Page=towns.asp (accessed June 4, 2015). A copy of the MACRIS report is provided as **Attachment C**. The database indicated that there are no historic places located in close proximity to the disposal site and proposed discharge area. In accordance with Part IIC of Appendix VII of the RGP regulations, Permit Eligibility Criteria 1 is applicable. Criteria 1 states that "This project does not involve new construction or the demolition or rehabilitation of existing buildings or other structures or facilities and historic properties are not affected by the discharge or identified in the path of the discharges regulated by this permit."

FIGURES



Reference: Taunton, MA Quadrangle - USGS 1985
Contour Interval = 10 feet

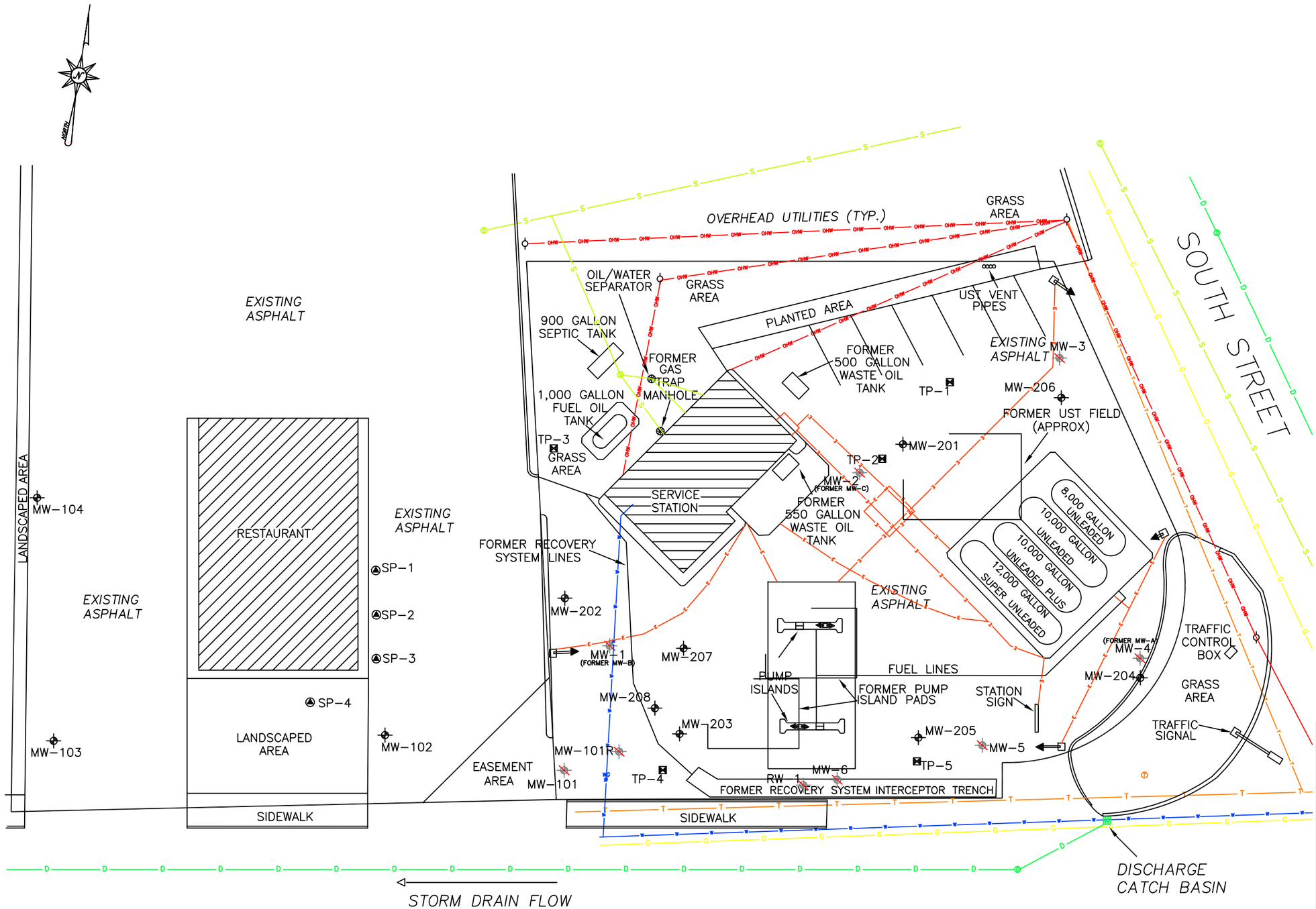
Longitude: 71° 02' 55" **Latitude: 41° 54' 23"**

SOVEREIGN CONSULTING INC.

FIGURE 1
SITE LOCATION MAP

Shell-Branded Gasoline Station
442 Route 44, Raynham MA

Sovereign Job No.	Scale (approx.)
EQ699	1" = 1000'



LEGEND

- MW-206 — MONITORING WELL
- MW-3 — DESTROYED MONITORING WELL
- B-211 — SOIL BORING/TEMPORARY WELL
- MANHOLE
- UTILITY POLE
- SOIL VAPOR POINTS
- FORMER STRUCTURES
- FENCE LINE
- LIGHT POLE
- OVERHEAD WIRES
- ELECTRIC MANHOLE
- UNDERGROUND ELECTRIC
- STORM DRAIN MANHOLE
- STORM DRAIN CATCH BASIN
- UNDERGROUND STORM DRAIN LINE
- TELEPHONE MANHOLE
- UNDERGROUND TELEPHONE LINE
- SEWER MANHOLE
- UNDERGROUND SEWER LINE
- UNDERGROUND GAS LINE
- GAS SHUT OFF GATE
- UNDERGROUND WATER LINE
- WATER SHUT OFF GATE
- HYDRANT

30 0 30 60

APPROXIMATE SCALE

FIGURE 2
SITE PLAN

SHELL-BRANDED SERVICE STATION
LOCATED AT
442 ROUTE 44
RAYNHAM, MA 02767
PREPARED FOR
COLBEA ENTERPRISES LLC

SOVEREIGN CONSULTING INC.
16 CHESTNUT STREET
FOXBOROUGH, MA 02035
TEL:(508) 339-3200 FAX:(508) 339-3248

PREPARED	UPDATED	UPDATED	UPDATED	UPDATED
05/12/2010	05/02/2014			
BY: SCB	BY: ROV	BY:	BY:	BY:

HIGHWAY GUARD RAIL

B.E. STA. 11+31.3 TO STA. 11+50.5 RT. TRAILING END
LEADING END STA. 11+66.8 RT. TO STA. 12+20.0 RT. B.E.
STA. 11+31.4 LT. TO STA. 11+49.7 LT. LEADING END
TRAILING END STA. 11+66.8 LT. TO STA. 11+73.6 LT. TERM. SECT.

DRAINAGE DETAILS

SEE SHEET NO. 12 – 16

TRAFFIC SIGNAL CONDUIT

SEE BELOW

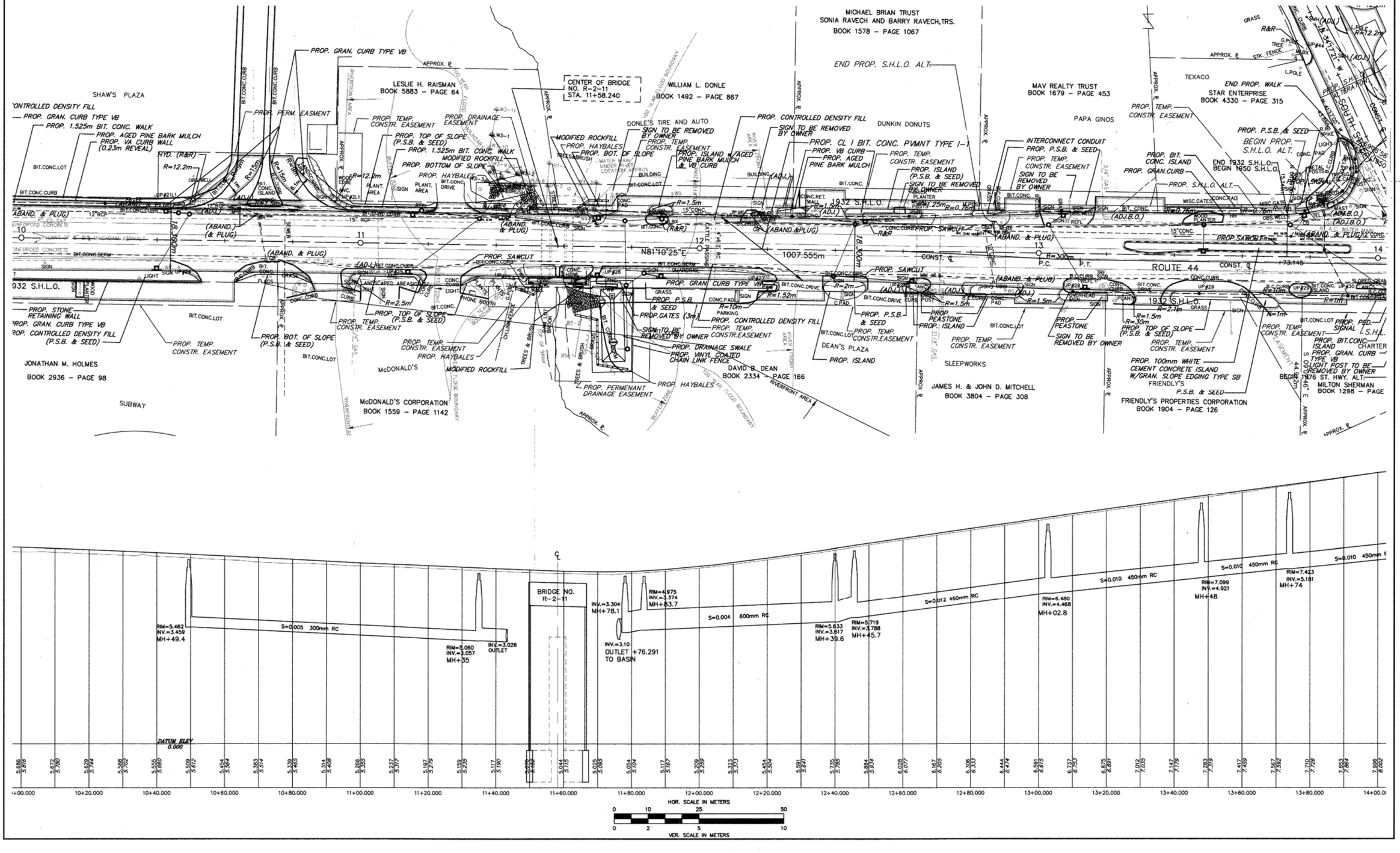
WATER SUPPLY ALTERATIONS

SEE SHEET NO. 17

RAYNHAM
ROUTE 44

STATE	FED.AID PROJ.NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
MASS.	STP-134(002)X		9	79
PROJECT FILE NO. 600590				

CONSTRUCTION PLAN



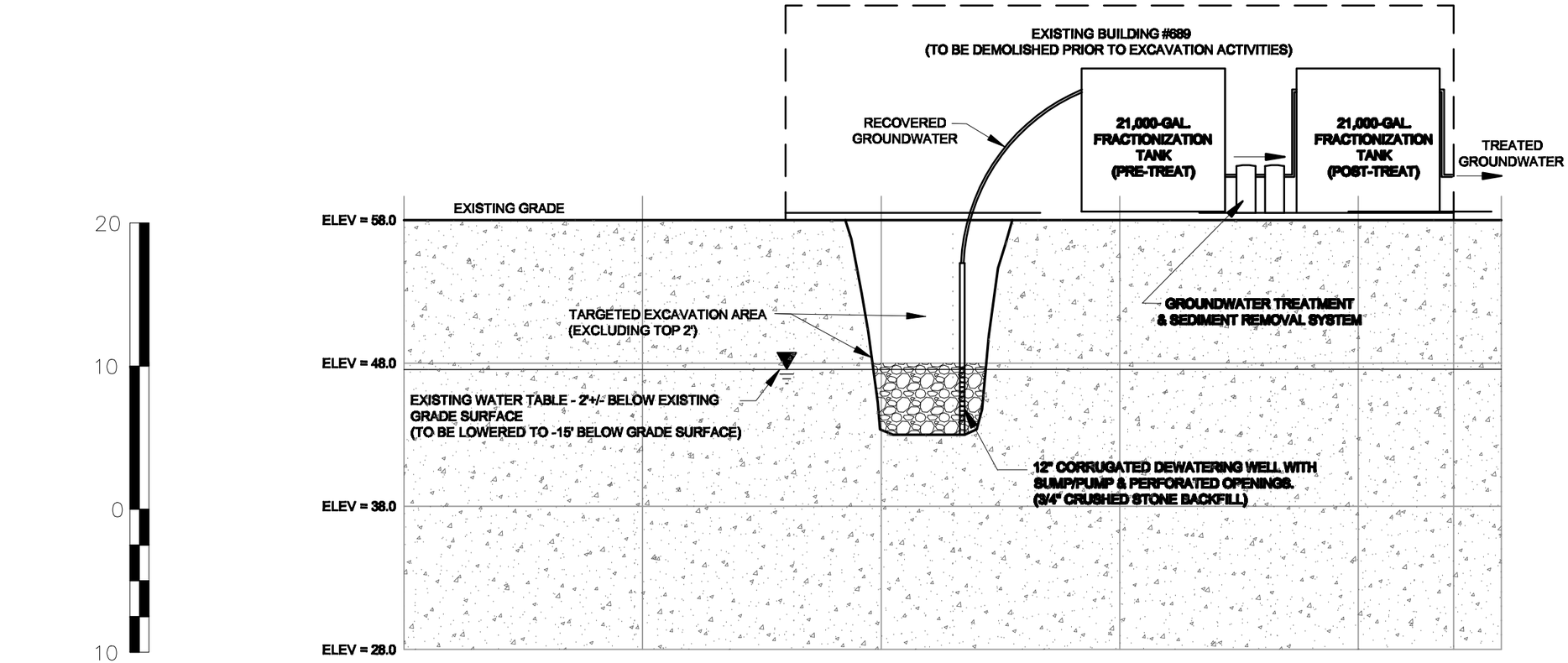


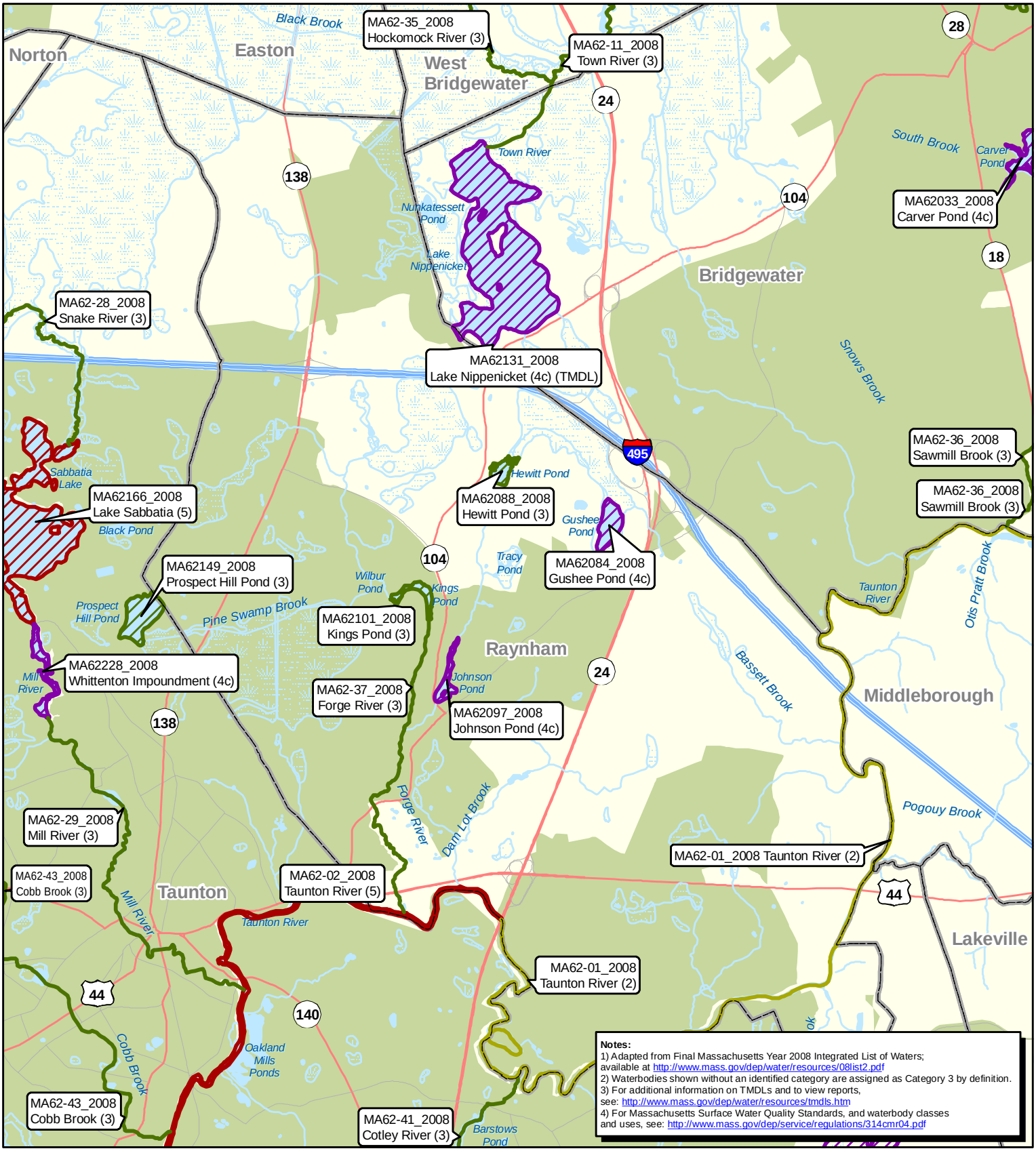
FIGURE 4

TYPICAL GROUNDWATER DEWATERING INSTALLATION DIAGRAM

LOCATED AT
442 ROUTE 44
RAYNHAM, MA
PREPARED FOR
COLBEA

SCALE AS NOTED PREPARED: JUNE 29, 2015:

SOVEREIGN CONSULTING INC.
4 OPEN SQUARE WAY, SUITE 307
HOLYOKE, MA 01040
TEL:(413) 540-0650
FAX:(413) 540-0656



Notes:
1) Adapted from Final Massachusetts Year 2008 Integrated List of Waters; available at http://www.mass.gov/dep/water/resources/08list2.pdf
2) Waterbodies shown without an identified category are assigned as Category 3 by definition.
3) For additional information on TMDLs and to view reports, see: http://www.mass.gov/dep/water/resources/tmdls.htm
4) For Massachusetts Surface Water Quality Standards, and waterbody classes and uses, see: http://www.mass.gov/dep/service/regulations/314cmr04.pdf

Waterbody Assessment and TMDL Status
Raynham, MA

N

0 0.5 Miles

EPA

Map produced by EPA Region I GIS Center
Map Tracker ID 6678, February 25, 2010
Data Sources: TeleAtlas, Census Bureau, USGS, MassDEP

Waterbody Label

State ID,
Waterbody Name (Category)
(TMDL(s) approved for this waterbody)

See companion table for a listing of pollutants, non-pollutants, and TMDLs for each waterbody

Assessment of Waterbody Segment

- **Category 2:** Attaining some uses; other uses not assessed
- **Category 3:** Insufficient information to make assessments for any use.
- **Category 4a:** TMDL is completed and approved for one or more pollutants
- **Category 4c:** Impairment not caused by a pollutant.
- **Category 5:** Impaired or threatened for one or more uses and requiring a TMDL.

- Waterbodies
- Swamp/Marsh
- MS4 Urbanized Areas (2000 Census)
- Municipal Boundaries

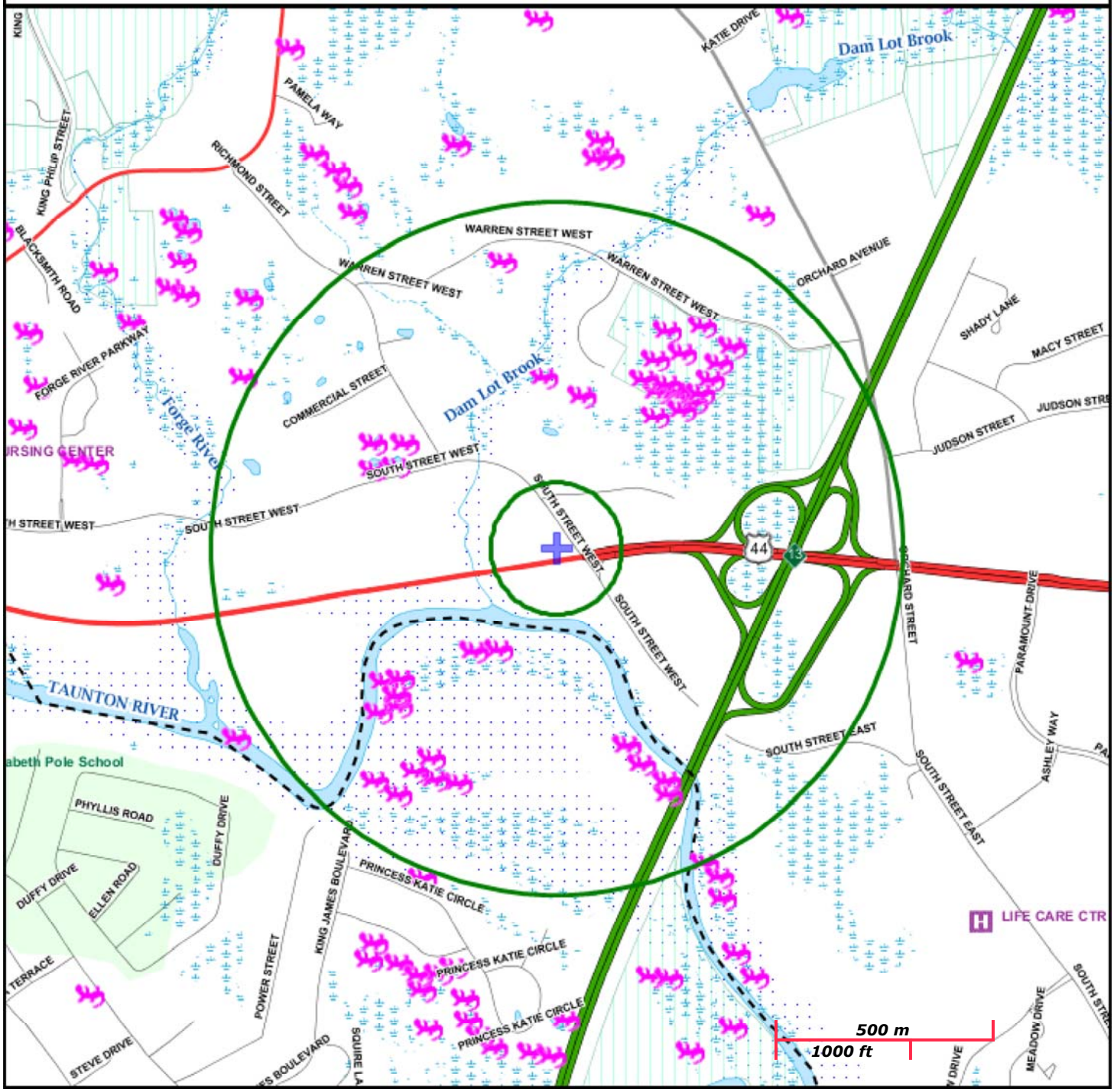
MassDEP - Bureau of Waste Site Cleanup

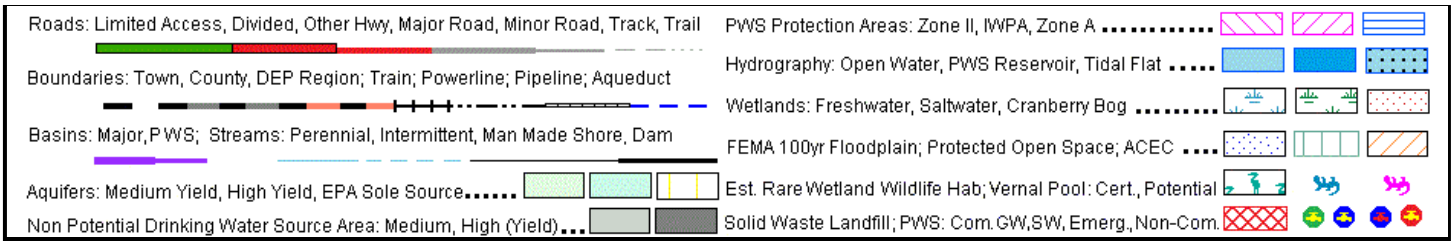
Phase 1 Site Assessment Map: 500 feet & 0.5 Mile Radii

Site Information:
RAYNHAM, MA
NAD83 UTM Meters:
4641426mN , 330061mE (Zone: 19)
June 4, 2015

The information shown is the best available at the date of printing. However, it may be incomplete. The responsible party and LSP are ultimately responsible for ascertaining the true conditions surrounding the site. Metadata for data layers shown on this map can be found at: http://www.mass.gov/mgis/.

MassDEP
Commonwealth of Massachusetts
Department of Environmental Protection




Roads: Limited Access, Divided, Other Hwy, Major Road, Minor Road, Track, Trail
Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct
Basins: Major,PWS; Streams: Perennial, Intermittent, Man Made Shore, Dam
Aquifers: Medium Yield, High Yield, EPA Sole Source
Non Potential Drinking Water Source Area: Medium, High (Yield)
PWS Protection Areas: Zone II, IWPA, Zone A
Hydrography: Open Water, PWS Reservoir, Tidal Flat
Wetlands: Freshwater, Saltwater, Cranberry Bog
FEMA 100yr Floodplain; Protected Open Space; ACEC
Est. Rare Wetland Wildlife Hab; Vernal Pool: Cert., Potential
Solid Waste Landfill; PWS: Com.GW,SW, Emerg., Non-Com.

ATTACHMENT A

Remediation General Permit
Appendix V

Notice of Intent (NOI)
Suggested Forms & Instructions

I. Notice of Intent (NOI) Suggested Form and Instructions

In order to be covered by the remediation general permit (RGP), applicants must submit a completed Notice of Intent (NOI) to EPA Region I and the appropriate state agency. The owner or operator, as defined by 40 CFR § 122.2, means the owner or operator of any "facility or activity" subject to regulation under the NPDES program.

The following are three general "**operator"** scenarios (variations on any of these three are possible, especially as the number of owners and contractors increases):

▸ **"***Owner" as "Operator" - sole permittee.* The property owner designs the structures and control systems for the site, develops and implements the BMPP, and serves as general contractor (or has an on-site representative with full authority to direct day-to-day operations). Under the definition of operator, in this case, the "Owner" would be considered the "operator" and therefore the only party that needs permit coverage. Everyone else working on the site may be considered subcontractors and do not need to apply for permit coverage.

▸ *"Contractor" as "Operator" - sole permittee.* The property owner hires a company (e.g., a contractor) to design the project and oversee all aspects, including preparation and implementation of the BMPP and compliance with the permit (e.g., a "turnkey" project). Here, the contractor would likely be the only party needing a permit. Similarly, EPA expects that property owners hiring a contractor or consultant to perform groundwater remediation work (e.g., due to a leaking fuel oil tank) would come under this type of scenario. EPA believes that the contractor, being a professional in the industry, should be the responsible entity rather than the individual. The contractor is better equipped to meet the requirements of both applying for permit coverage and developing and properly implementing the plans needed to comply with the permit. However, property owners would also meet the definition of "operator" and require permit coverage in instances where they perform any of the required tasks on their personal properties.

▸ *"Owner" and "Contractor" as "Operators" - co-permittees.* The owner retains control over any changes to site plans, BMPPs, or wastewater conveyance or control designs, but the contractor is responsible for conducting and overseeing the actual activities (e.g., excavation, installation and operation of treatment train, etc.) and daily implementation of BMPP and other permit conditions. In this case, both parties need to apply for coverage.

Generally, a person would not be considered an "operator," and subsequently would not need permit coverage, if: 1) that person is a subcontractor hired by, and under the supervision of, the owner or a general contractor (e.g., if the contractor directs the

subcontractor's activities on-site, it is probably not an operator); or 2) the person's activities would otherwise result in the need for coverage under the RGP but another operator has legally assumed responsibility for the impacts of project activities.

A. Instructions for the Suggested Notice of Intent (NOI) - At a minimum, the Notice of Intent must include the following for each individual facility or site. Additional information may be attached as needed.

1. General facility/site information.

a) Provide the facility/site name, mailing address, and telephone and fax numbers. Provide the facility Standard Industrial Classification (SIC) code(s), which can be found online at http://www.osha.gov/pls/imis/sic_manual.html. Provide the site location, including longitude and latitude.

b) Provide the facility/site owner's name, address, email address, telephone and fax numbers, if different from the site information. Indicate whether the owner is a Federal, State/Tribal, private, or other entity.

c) Provide the site operator's (e.g., contractor's) name, mailing address, telephone and fax numbers, and email address if different from the owner's information.

d) For the site for which the application is being submitted, indicate whether:

1) a prior NPDES permit exclusion has been granted for the discharge (if so, provide the tracking number of the exclusion letter);

2) a prior NPDES application (Form 1 & 2C – for reference, please visit http://www.epa.gov/region1/npdes/epa_attach.html) has ever been filed for the discharge (if so, provide the tracking number and date that the application was submitted to EPA);

3) the discharge is a "new discharge" as defined by 40 CFR 122.2; and

4) for sites in Massachusetts, is the discharge covered under the Massachusetts Contingency Plan (MCP) 310 CMR 40.0000 and exempt from state permitting.

e) Indicate whether there is any ongoing state permitting, licensing, or other action regarding the facility or site which is generating the discharge. If "yes," provide any site identification number assigned by the state of NH or MA, any permit or license number assigned, and the state agency contact information (e.g. name, location, telephone no.).

f) Indicate whether or not the facility is covered by other EPA permits including:

1) the Multi-Sector General Permit (MSGP) http://cfpub.epa.gov/npdes/stormwater/msgp.cfm;
2) the Final NPDES General Permit for Dewatering Activity Discharges in Massachusetts and New Hampshire http://www.epa.gov/region1/npdes/dewatering.html;
3) the EPA Construction General Permit http://cfpub.epa.gov/npdes/stormwater/cgp.cfm;
4) an individual NPDES permit; or
5) any other water quality-related individual or general permit.

If so, provide permit tracking number(s).

g) Indicate if the site/facility discharge(s) to an Area of Critical Environmental Concern (ACEC), as shown on the tables and maps in Appendix I.

h) Based on the nature of the facility/site and any historical sampling data, the applicant must indicate which of the sub-categories within which the potential discharge falls.

2. Discharge information.

a) Describe the discharge activities to be covered by the permit. Attach additional sheets as needed.

b) Provide the following information about each discharge:

1) the number of discharge points;
2) the maximum and average flow rate of the discharge in cubic feet per second. For the average flow magnitude, include the units and appropriate notation if this value is a calculated design value or estimate if technical/design information is not available;
3) the latitude and longitude of each discharge with an accuracy of 100 feet (see EPA's siting tool at: http://www.epa.gov/tri/report/siting_tool);
4) the total volume of potential discharge (gal), only if hydrostatic testing;
5) whether the discharge(s) is intermittent or seasonal and if ongoing.

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

d) 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).

3. Contaminant information.

In order to complete the NOI, the applicant will need to take a minimum of one sample of the untreated water and have it analyzed for the parameters applicable to the sub-category into which the discharge falls, as listed in Appendix III of the permit and selected in Part 1 of the NOI form, except as noted below.

Permittees shall provide additional sampling results with the NOI if such sampling already exists, or if the permittee has reason to believe the site contains additional contaminants not listed in Appendix III for that sub-category or contains additional contaminants not included in Appendix III.

The applicant may use historical data as a substitute for the new sample if the data was collected no more than 2 years prior to the "Submittal of the NOI" and if collected pursuant to:

i. for sites in Massachusetts, 310 CMR 40.0000, the Massachusetts Contingency Plan ("Chapter 21E");

ii. for sites in New Hampshire, New Hampshire's Title 50 RSA 485-A: Water Pollution and Waste Disposal or Title 50 RSA 485-C: Groundwater Protection Act;

a) Based on the analysis of the untreated influent, the applicant must indicate whether each listed chemical is believed present or believed absent in the potential discharge.

Based on the required sampling and analysis, the applicant must fill in the table, or provide a narrative description, with the following additional information for each chemical that is believed present (chemical that violate EPA's criteria limitations):

1) the number of samples taken (minimum of one sample for applicable parameters per Appendix III);
2) the type of sample (e.g. grab, composite, etc.);
3) the analytical method used, including the method number;
4) the minimum level (ML) of the method used (based on Appendix VI);
5) the maximum daily amount (concentration (ug/l) and mass (kg)) of each pollutant, based on the sampling data

lb/day (pounds per day) equals flow (in million gallons per day, MGD) times concentration in milligrams per liter (mg/l) times 8.34.
Example: 2.5 MGD x 30 mg/l TSS x 8.34 = 625.5 lb TSS/day
MGD = gallons per minute (gpm) x 0.00144
1 kg = 2.2 lbs

And;
6) the average daily amount (concentration and mass) of each pollutant, based on the sampling data.

If the results of any sampling indicate that pollutants exist in addition to those listed in Appendix III of the RGP of the permit, the applicant must also describe those contaminants on the NOI in boxes in section I.3.c.)on the line marked "Other," or use additional sheets as needed. Subsequently, EPA may require monitoring for such parameters or will decide if an individual permit is necessary.

c) Determination of Reasonable Potential and Allowable Dilution for Discharges of Metals:

If any *metals* are believed present in the potential discharge to freshwater[1], the applicant must follow the procedures below to determine the dilution factor for each metal.

Step 1: Initial Evaluation

1) The applicant must evaluate all metals believed present in the discharge subject to this permit, including "naturally occurring" metals such as dissolved and/or total Iron. Applicants must enter the highest detected concentration of the metal at zero dilution in the "Maximum value" column of the NOI.

2) Based on the maximum concentration of each metal, the applicant must perform an initial evaluation assuming zero dilution in the receiving water. The applicant must compare the metals concentrations in the untreated (intake) waters to the effluent limits contained in Appendix III.

[1]Dilution factors may be available for discharges to saline waters but only with approval of the flow modeling information from the State prior to the submission of the NOI.

i. If potential discharges (untreated influent) with metals contain concentrations above the concentration limits listed in Appendix III, applicant must proceed to step 2.
ii. If potential discharges (untreated influent) with metals contain concentrations below the concentrations listed in Appendix III, the applicant may skip step 2 and those metals will **not** be subject to permit limitations or monitoring requirements.

Step 2: Calculation of Dilution Factor

1) **For applicants in NH**: If a metal concentration in a potential discharge (untreated influent) to **freshwater** exceeds the limits in Appendix III with zero dilution, the applicant shall evaluate the potential concentration considering a dilution factor (DF) using the formula below. **For sites in New Hampshire, the applicant must contact NH DES to determine the 7Q10 and dilution factor.**

DF = [(Qd + Qs)/Qd] x 0.9

Where:
DF **= Dilution Factor**
Qd **= Maximum flow rate of the discharge in cubic feet per second (cfs) (1.0 gpm = .00223 cfs)**
Qs **= Receiving water 7Q10 flow, in cfs, where 7Q10 is the annual minimum flow for 7 consecutive days with a recurrence interval of 10 years**
0.9 = **Allowance for reserving 10% of the assets in the receiving stream as per Chapter ENV-Wq 1700, Surface Water Quality Regulations**

i. Using the DF calculated from the formula above, the applicant must refer to the corresponding dilution range column in Appendix IV. The applicant then compares the maximum concentration of the metal entered on the NOI to the corresponding total recoverable metals limits listed in Appendix IV. Please note that for this reissuance the applicant will be permitted to determine a limit using any fraction within the 1-5 dilution factor range times the metal limit (for all regulated metals). For example: if the DF is 1.5, the Iron limit is 1,500 ug/L; if the DF is 1.5, the antimony limit is 8.4, etc. All limits above a dilution factor of 5 are maintained.

1. If a metal concentration in the potential discharge (untreated influent) is less than the corresponding limit in Appendix IV, the metal will **not** be subject to permit limitations or monitoring requirements.
2. If a metal concentration in the potential discharge (untreated influent) is equal to or exceeds the corresponding limit in Appendix IV, the applicant must reduce it in the effluent to a concentration below the applicable total recoverable metals limit in Appendix IV prior to discharge.

ii. In either case, the applicant must submit the results of this calculation as part of the NOI. EPA and NH DES will review the proposed effluent limitations for each metal and approve or disapprove the limits in the notification of coverage letter to the applicant.

2) **For applicants in MA**: If a metal concentration in a potential discharge (untreated influent) to **freshwater** exceeds the limits in Appendix III with zero dilution, the applicant must evaluate the potential concentration considering a dilution factor (DF) using the formula below.

DF = (Qd + Qs)/Qd

Where:
DF = Dilution Factor
Qd = Maximum flow rate of the discharge in cubic feet per second (cfs) (1.0 gpm = .00223 cfs)
Qs = Receiving water 7Q10 flow (cfs) where 7Q10 is the minimum flow (cfs) for 7 consecutive days with a recurrence interval of 10 years

i. The applicant may estimate the 7Q10 for receiving water by using available information such as nearby USGS stream gauging stations directly or by application of certain "flow factors," using historic streamflow publication information, calculations based on drainage area, information from state water quality offices, or other means. In many cases Massachusetts has calculated 7Q10 information using "flow factors" for a number of streams in the state. The source of the low flow value(s) used by the applicant must be included on NOI application form. Flow data can also be obtained from web applications such as the one located at: http://ma.water.usgs.gov/streamstats/.

ii. Using the DF calculated from the formula above, the applicant must refer to the corresponding dilution range column in Appendix IV. The applicant then shall compare the maximum concentration of each metal entered on the NOI to the corresponding total recoverable metals limit listed in Appendix IV. Please note that for this reissuance the applicant will be permitted to determine a limit using any fraction of the 0-5 of DF times the metal limit (for all regulated metals). For example: if the DF is 1.5, the Iron limit is 1,500 ug/L; if the DF is 1.5, the antimony limit is 8.4, etc. Not to exceed DF of 5.

1. If a metal concentration in the potential discharge (untreated influent) is less than the corresponding limit in Appendix IV, the metal will **not** be subject to permit limitations or monitoring requirements.
2. If a metal concentration in a potential discharge (untreated influent) is equal to or exceeds the corresponding limit in Appendix IV, the applicant must reduce it in the effluent to a concentration below the applicable total recoverable metals limit in Appendix IV prior to discharge.

iii. The applicant must submit the results of this calculation as part of the NOI. EPA (and MassDEP where the discharge is not covered by 310 CMR 40.0000) will review the proposed effluent limitations for each metal and approve or disapprove the limits in the notification of coverage letter to the applicant.

4. Treatment system information.

a) Provide a written description of the treatment train and how the system will be set up for each discharge and attach a schematic of the proposed or existing treatment system(s).
b) Identify each major treatment unit (e.g. frac tanks, filters, air stripper, liquid phase/vapor phase activated carbon, oil/water separators, etc.) by checking all that apply and describing any additional equipment not listed. Attach additional sheets as needed.
c) Provide the proposed average and maximum flow rates (in gallons per minute, gpm) for the discharge and the design flow rates (in gpm) of the treatment system. Clearly identify the component of the treatment with the most limited flow, i.e., the part of the treatment train that establishes the design flow.
d) Describe any chemical additives being used, or planned to be used, and attach MSDS sheets for each. EPA may request further information regarding the chemical composition of the additive, potential toxic effects, or other information to insure that approval of the use of the additive will not cause or contribute to a violation of State water quality standards. Approval of coverage under the RGP will constitute approval of the use of the chemical additive(s). If coverage of the discharge under the RGP has already been granted and the use of a chemical additive becomes necessary, the permittee must submit a Notice of Change (NOC).

5. Receiving surface water(s) information.

a) Identify the discharge pathway by checking whether it is discharged: directly to the receiving water (river, stream, or brook), within the facility (e.g., through a sewer drain), to a storm drain, to a wetland, or other receiving body.
b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters into which discharge will occur.
c) Provide a detailed map(s) indicating the location of the site and outfall(s) to the receiving water(s):

1) For multiple discharges, the discharges should be numbered sequentially.
2) In the case of indirect dischargers (to municipal storm sewer, etc) the map(s) must be sufficient to indicate the location of the discharge to the indirect conveyance and the discharge to the state classified 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 and the basin (for Massachusetts, the Surface Water Quality Standards (314 CMR 4.00) are available at http://www.mass.gov/dep/water/laws/regulati.htm#wqual) (for New Hampshire, contact the NH DES at (603) 271-2984).
e) Specify the reported seven day-ten year low flow (7Q10) of the receiving water (see Section I.A.3) c. above). In New Hampshire, the 7Q10 must be provided by to the applicant by the New Hampshire Department of Environmental Services**.**

f) Indicate whether the receiving water is a listed 303(d) water quality impaired or limited water and if so, for which pollutants (see Section IX of the Fact Sheet for additional information).
For MA, the most updated integrated list of waters (CWA 303(d) and 305(b)) is available at http://www.mass.gov/dep/water/resources/tmdls.htm#info.
For NH, the most updated integrated list of waters (CWA 303(d) and 305(b)) is available at http://des.nh.gov/organization/divisions/water/wmb/swqa/index.htm.
Also, indicate if there is a final TMDL for any of the listed pollutants. For MA, final TMDLs can be found at: http://www.mass.gov/dep/water/resources/tmdls.htm and for NH, final TMDLs can be found at http://des.nh.gov/organization/divisions/water/wmb/tmdl/index.htm. For more information, contact the states at: New Hampshire Department of Environmental Services, Watershed Management Bureau at 603-271-3503 or the Massachusetts Department of Environmental Protection at 508-767-2796 or 508-767-2873.

6. ESA and NHPA Eligibility.
As required in Parts I.A.4 and Appendix VII the operator of a site/facility must ensure that the potential discharge will not adversely affect endangered species, designated critical habitat, or national historic places that are in proximity to the potential discharge. If the potential discharge is to certain water bodies, the applicant must also submit a formal certification with the NOI that indicates the consultation, with the U.S. Fish and Wildlife Service and National Marine Fisheries Service (the Services), resulted in either a no jeopardy opinion or a written concurrence on a finding that the discharge is not likely to adversely affect any endangered species or critical habitat. Facilities should begin the consultation as early in the process as possible.
a) Using the instructions in Appendix VII and information in Appendix II, indicate under which criterion listed you are eligible for coverage under this general permit.
b) If you selected criterion D or F, indicate if consultation with the federal services has been completed or if it is underway.
c) If consultation with the U.S. Fish and Wildlife Service and/or NOAA Fisheries Service was completed, indicate if a written concurrence finding that the discharge is "not likely to adversely affect" listed species or critical habitat was received.
d) Attach documentation of ESA eligibility as described below and required in Appendix VII, Part I.C, Step 4.

Criterion A - No federally-listed threatened or endangered species or federally-designated critical habitat are present: A copy of the most current county species list pages for the county(ies) where your site or facility and discharges are located. You must also include a statement on how you determined that no listed species or critical habitat are in proximity to your site or facility or discharge locations.

Criterion B – Section 7 consultation completed with the Service(s) on a prior project: A copy of the USFWS and/or NOAA Fisheries, as appropriate, biological opinion or concurrence on a finding of "unlikely to adversely effect" regarding the ESA Section 7 consultation.

Criterion C – Activities are covered by a Section 10 Permit: A copy of the USFWS and/or the NOAA Fisheries, as appropriate, letter transmitting the ESA Section 10 authorization.

Criterion D - Concurrence from the Service(s) that the discharge is "not likely to adversely affect" federally-listed species or federally-designated critical habitat (not including the four species of concern identified in Section I of Appendix I): A copy of the USFWS and/or the NOAA Fisheries, as appropriate, letter or memorandum concluding that the discharge is consistent with the general permit's "not likely to adversely affect" determination.

Criterion E – Activities are covered by certification of eligibility: A copy of the documents originally used by the other operator of your site or facility (or area including your site) to satisfy the documentation requirement of Criteria A, B, C or D.

Criterion F - Concurrence from the Service(s) that the discharge is "not likely to adversely affect" species of concern, as identified in Section I of Appendix I: A copy of the USFWS and/or the NOAA Fisheries, as appropriate, concurrence with the applicant's determination that the discharge is "not likely to adversely affect" listed species.

e) Using the instructions in Appendix VII, identify which criterion listed in Part C makes you eligible for coverage under this general permit.

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. Applicants should provide any supplemental information needed to meet the requirements of the permit, including any analytical data used to support the application, and any certification(s) required.

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.*

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**: Former Shell-Branded Service Station		**Facility/site** mailing address:		
Location of **facility/site**: longitude: 71 02' 55" W latitude: 41 54' 23" N	Facility SIC code(s): 5541	Street: 442 Route 44		
b) Name of **facility/site owner:**		Town: Raynham		
Email address of facility/site owner: twbreckel@eastsideenterprise.com		State: MA	Zip: 01824	County: Plymouth
Telephone no. of facility/site **owner**: 401-943-0005				
Fax no. of facility/site **owner**: 401-943-3250		**Owner** is (check one): 1. Federal ○ 2. State/Tribal ○ 3. Private ◉ 4. Other ○ if so, describe:		
Address of **owner** (if different from site):				
Street: 2050 Plainfield Pike				
Town: Cranston	State: RI	Zip: 02921	County: Providence	
c) Legal name of **operator**:		**Operator** telephone no: 401-943-0005		
Thomas Breckel		**Operator** fax no.: 401-943-3250	**Operator** email: twbreckel@eastsideenterprise.c	
Operator contact name and title:				
Address of **operator** (if different from owner):		Street:		
Town:	State:	Zip:	County:	

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: 4-0000249
2. permit or license # assigned:
3. state agency contact information: name, location, and telephone number:

MassDEP-SERO
20 Riverside Drive, Lakeville, MA 02347
508-946-2714

f) Is the site/facility covered by any other EPA permit, including:
1. Multi-Sector General Permit? Y ○ N ⊙,
if Y, number:
2. Final Dewatering General Permit? Y ○ N ⊙,
if Y, number:
3. EPA Construction General Permit? Y ○ N ⊙,
if Y, number:
4. Individual NPDES permit? Y ○ N ⊙,
if Y, number:
5. any other water quality related individual or general permit? Y ○ N ⊙, if Y, number:

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

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

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 ☐

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 during the underground storage tank renovation activities, including the removal and replacement of USTs, associated piping, and dispenser islands. Groundwater will be treated and discharged into a storm drain catch basin adjacent to the disposal site.

b) Provide the following information about each discharge:

1) Number of discharge points: 1

2) What is the **maximum** and **average flow rate** of discharge (in cubic feet per second, ft^3/s)?
Max. flow: 0.05352 Is maximum flow a **design value**? Y ◉ N ○
Average flow (include units): 0.0134 Is average flow a design value or estimate? estimate

3) Latitude and longitude of each discharge within 100 feet:
pt.1: lat. 41 54' 23" N long. 71 02' 55" W pt.2: lat. _____ long. _____;
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): _____

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

c) Expected dates of discharge (mm/dd/yy): start 07/01/2015 end 09/01/2015

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). Refer to Figures 1 through 4 of the attached NPDES report.

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	2540D	5,000	10,000		10,000	
2. Total Residual Chlorine (TRC)		☐	☒	1	Grab	4500 CL B	2,000	37,000		37,000	
3. Total Petroleum Hydrocarbons (TPH)		☐	☐								
4. Cyanide (CN)	57125	☐	☐								
5. Benzene (B)	71432	☐	☒	1	Grab	MAVPH	10	620		620	
6. Toluene (T)	108883	☐	☒	1	Grab	MAVPH	10	3,900		3,900	
7. Ethylbenzene (E)	100414	☐	☒	1	Grab	MAVPH	10	1,900		1,900	
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207	☐	☒	1	Grab	MAVPH	30	9,800		9,800	
9. Total BTEX [2]	n/a	☐	☒	1	Grab	MAVPH		16,220		16,220	
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) [3]	106934	☒	☐	1	Grab	504.1	0.02	<0.02		<0.02	
11. Methyl-tert-Butyl Ether (MtBE)	1634044	☒	☐	1	Grab	MAVPH	10	<10		<10	
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650	☐	☒	1	Grab	8260C	80	<80		<80	

***** 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	☐	☒	1	Grab	8260C	800	<800		<800	
14. Naphthalene	91203	☐	☒	1	Grab	MAVPH	50	350		350	
15. Carbon Tetrachloride	56235	☐	☐								
16. 1,2 Dichlorobenzene (o-DCB)	95501	☐	☐								
17. 1,3 Dichlorobenzene (m-DCB)	541731	☐	☐								
18. 1,4 Dichlorobenzene (p-DCB)	106467	☐	☐								
18a. Total dichlorobenzene		☐	☐								
19. 1,1 Dichloroethane (DCA)	75343	☐	☐								
20. 1,2 Dichloroethane (DCA)	107062	☐	☐								
21. 1,1 Dichloroethene (DCE)	75354	☐	☐								
22. cis-1,2 Dichloroethene (DCE)	156592	☐	☐								
23. Methylene Chloride	75092	☐	☐								
24. Tetrachloroethene (PCE)	127184	☐	☐								
25. 1,1,1 Trichloro-ethane (TCA)	71556	☐	☐								
26. 1,1,2 Trichloro-ethane (TCA)	79005	☐	☐								
27. Trichloroethene (TCE)	79016	☐	☐								

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

[4] The sum of individual phthalate compounds.

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
h. Acenaphthene	83329	☐	☐								
i. Acenaphthylene	208968	☐	☐								
j. Anthracene	120127	☐	☐								
k. Benzo(ghi) Perylene	191242	☐	☐								
l. Fluoranthene	206440	☐	☐								
m. Fluorene	86737	☐	☐								
n. Naphthalene	91203	☐	☐								
o. Phenanthrene	85018	☐	☐								
p. Pyrene	129000	☐	☐								
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817.	☐	☐								
38. Chloride	16887006	☐	☐								
39. Antimony	7440360	☐	☐								
40. Arsenic	7440382	☐	☐								
41. Cadmium	7440439	☐	☐								
42. Chromium III (trivalent)	16065831	☐	☐								
43. Chromium VI (hexavalent)	18540299	☐	☐								
44. Copper	7440508	☐	☐								
45. Lead	7439921	☒	☐	1	Grab	6010C	10	<10		<0.010	
46. Mercury	7439976	☐	☐								
47. Nickel	7440020	☐	☐								
48. Selenium	7782492	☐	☐								
49. Silver	7440224	☐	☐								
50. Zinc	7440666	☐	☐								
51. Iron	7439896	☐	☒	1	Grab	6010C	50	11,000		11,000	
Other (describe):		☐	☐								

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?
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: Iron DF: 3.06 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:

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

a) A description of the treatment system, including a schematic of the proposed or existing treatment system:

The sump water treatment system will be located in on the disposal site, located at 442 Route 44 in Raynham, Massachusetts. The system will be composed of the following: one submersible sump pump locate within each sub-grade sump, a 165-gallon poly tank (or equivalent), two bag filters piped in parallel to filter out particulates, two influent 200-pound or greater liquid phase granular activated carbon (LGAC) units piped in parallel and two effluent 200-pound or greater LGAC units piped in parallel. A typical Groundwater Dewatering Installation Diagram is included as Figure 4 in the attached NPDES report.

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):			

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 5 gpm Maximum flow rate of treatment system 20 gpm
Design flow rate of treatment system ~20 gpm

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

None

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:

TMunicipal storm drain catch basin located adjacent to the property line, in Route 44 that discharges to Dam Lot Brook

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 B

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 0.110 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)? 5 impaired or threatened

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.

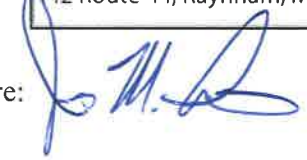
7. Supplemental information.

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

Please see attached NPDES Remediation General Permit report.

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:	442 Route 44, Raynham, MA Former Shell-Branded Service Station
Operator signature:	
Printed Name &Title:	James M. Smith - Sovereign Consulting Inc. on behalf of Colben Enterprises LLC.
Date:	7/6/2015

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

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

or electronically mailed to NPDES.Generalpermits@epa.gov

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

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

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

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

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

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

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

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

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

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

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

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

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

ATTACHMENT B

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

April 14, 2015

Leah Smith
Sovereign Consulting - Foxboro, MA
16 Chestnut Street
Foxboro, MA 02035

Project Location: Raynham MA, 442 Rt. 44
Client Job Number:
Project Number: C0045
Laboratory Work Order Number: 15D0195

Enclosed are results of analyses for samples received by the laboratory on April 3, 2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

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Sovereign Consulting - Foxboro, MA
16 Chestnut Street
Foxboro, MA 02035
ATTN: Leah Smith

REPORT DATE: 4/14/2015

PURCHASE ORDER NUMBER:

PROJECT NUMBER: C0045

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 15D0195

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Raynham MA, 442 Rt. 44

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-201	15D0195-01	Ground Water		MADEP-VPH-04-1.1	
MW-202	15D0195-02	Ground Water		MADEP-VPH-04-1.1	
MW-203	15D0195-03	Ground Water		MADEP-VPH-04-1.1	
MW-204	15D0195-04	Ground Water		MADEP-VPH-04-1.1	
MW-205	15D0195-05	Ground Water		MADEP-VPH-04-1.1	
MW-206	15D0195-06	Ground Water		MADEP-VPH-04-1.1	
MW-207	15D0195-07	Ground Water		MADEP-VPH-04-1.1	
MW-208	15D0195-08	Ground Water		MADEP-VPH-04-1.1	
MW-102	15D0195-09	Ground Water		MADEP-VPH-04-1.1	
MW-103	15D0195-10	Ground Water		MADEP-VPH-04-1.1	
MW-104	15D0195-11	Ground Water		MADEP-VPH-04-1.1	
Duplicate	15D0195-12	Ground Water		MADEP-VPH-04-1.1	
Field Blank	15D0195-13	Field Blank		MADEP-VPH-04-1.1	
Trip Blank	15D0195-14	Trip Blank Water		MADEP-VPH-04-1.1	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

MADEP-VPH-04-1.1

Qualifications:

RL-05

Elevated reporting limit due to high concentration of target compounds. MA CAM reporting limit not met.

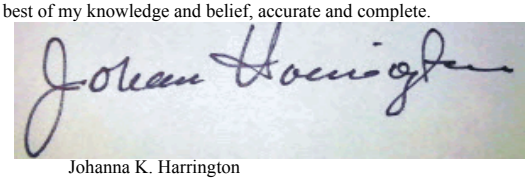
Analyte & Samples(s) Qualified:

Methyl tert-Butyl Ether (MTBE)
15D0195-03[MW-203]

MADEP-VPH-04-1.1

No significant modifications were made to the method. All VPH samples were received preserved properly at pH <2 in the proper containers as specified on the chain-of-custody form unless specified in this narrative.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Johanna K. Harrington
Manager, Laboratory Reporting

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Project Location: Raynham MA, 442 Rt. 44 Sample Description: Work Order: 15D0195

Date Received: 4/3/2015

Field Sample #: MW-201 Sampled: 4/3/2015 12:42

Sample ID: 15D0195-01

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	920	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 0:16	EEH
C5-C8 Aliphatics	800	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 0:16	EEH
Unadjusted C9-C12 Aliphatics	280	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 0:16	EEH
C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 0:16	EEH
C9-C10 Aromatics	270	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 0:16	EEH
Benzene	120	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 0:16	EEH
Ethylbenzene	39	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 0:16	EEH
Methyl tert-Butyl Ether (MTBE)	6.0	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 0:16	EEH
Naphthalene	15	5.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 0:16	EEH
Toluene	4.0	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 0:16	EEH
m+p Xylene	8.5	2.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 0:16	EEH
o-Xylene	2.0	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 0:16	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,5-Dibromotoluene (FID)	90.1	70-130		4/10/15 0:16
2,5-Dibromotoluene (PID)	84.6	70-130		4/10/15 0:16

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Project Location: Raynham MA, 442 Rt. 44 Sample Description: Work Order: 15D0195

Date Received: 4/3/2015

Field Sample #: MW-202 Sampled: 4/3/2015 12:10

Sample ID: 15D0195-02

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 0:52	EEH
C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 0:52	EEH
Unadjusted C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 0:52	EEH
C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 0:52	EEH
C9-C10 Aromatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 0:52	EEH
Benzene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 0:52	EEH
Ethylbenzene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 0:52	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 0:52	EEH
Naphthalene	ND	5.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 0:52	EEH
Toluene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 0:52	EEH
m+p Xylene	ND	2.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 0:52	EEH
o-Xylene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 0:52	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,5-Dibromotoluene (FID)	98.2	70-130		4/10/15 0:52
2,5-Dibromotoluene (PID)	92.9	70-130		4/10/15 0:52

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Project Location: Raynham MA, 442 Rt. 44 Sample Description: Work Order: 15D0195

Date Received: 4/3/2015

Field Sample #: MW-203 Sampled: 4/3/2015 13:27

Sample ID: 15D0195-03

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	21000	1000	µg/L	10		MADEP-VPH-04-1.1	4/9/15	4/10/15 6:51	EEH
C5-C8 Aliphatics	16000	1000	µg/L	10		MADEP-VPH-04-1.1	4/9/15	4/10/15 6:51	EEH
Unadjusted C9-C12 Aliphatics	22000	1000	µg/L	10		MADEP-VPH-04-1.1	4/9/15	4/10/15 6:51	EEH
C9-C12 Aliphatics	ND	1000	µg/L	10		MADEP-VPH-04-1.1	4/9/15	4/10/15 6:51	EEH
C9-C10 Aromatics	8500	1000	µg/L	10		MADEP-VPH-04-1.1	4/9/15	4/10/15 6:51	EEH
Benzene	620	10	µg/L	10		MADEP-VPH-04-1.1	4/9/15	4/10/15 6:51	EEH
Ethylbenzene	1900	10	µg/L	10		MADEP-VPH-04-1.1	4/9/15	4/10/15 6:51	EEH
Methyl tert-Butyl Ether (MTBE)	ND	10	µg/L	10	RL-05	MADEP-VPH-04-1.1	4/9/15	4/10/15 6:51	EEH
Naphthalene	350	50	µg/L	10		MADEP-VPH-04-1.1	4/9/15	4/10/15 6:51	EEH
Toluene	3900	10	µg/L	10		MADEP-VPH-04-1.1	4/9/15	4/10/15 6:51	EEH
m+p Xylene	9400	20	µg/L	10		MADEP-VPH-04-1.1	4/9/15	4/10/15 6:51	EEH
o-Xylene	4000	10	µg/L	10		MADEP-VPH-04-1.1	4/9/15	4/10/15 6:51	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,5-Dibromotoluene (FID)	104	70-130		4/10/15 6:51
2,5-Dibromotoluene (PID)	95.2	70-130		4/10/15 6:51

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Project Location: Raynham MA, 442 Rt. 44 Sample Description: Work Order: 15D0195

Date Received: 4/3/2015

Field Sample #: MW-204 Sampled: 4/3/2015 11:30

Sample ID: 15D0195-04

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 1:28	EEH
C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 1:28	EEH
Unadjusted C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 1:28	EEH
C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 1:28	EEH
C9-C10 Aromatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 1:28	EEH
Benzene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 1:28	EEH
Ethylbenzene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 1:28	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 1:28	EEH
Naphthalene	ND	5.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 1:28	EEH
Toluene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 1:28	EEH
m+p Xylene	ND	2.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 1:28	EEH
o-Xylene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 1:28	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
2,5-Dibromotoluene (FID)	101	70-130			4/10/15 1:28
2,5-Dibromotoluene (PID)	94.7	70-130			4/10/15 1:28

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Project Location: Raynham MA, 442 Rt. 44 Sample Description: Work Order: 15D0195

Date Received: 4/3/2015

Field Sample #: MW-205 Sampled: 4/3/2015 12:18

Sample ID: 15D0195-05

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	4600	500	µg/L	5		MADEP-VPH-04-1.1	4/10/15	4/10/15 16:39	EEH
C5-C8 Aliphatics	4500	500	µg/L	5		MADEP-VPH-04-1.1	4/10/15	4/10/15 16:39	EEH
Unadjusted C9-C12 Aliphatics	1000	500	µg/L	5		MADEP-VPH-04-1.1	4/10/15	4/10/15 16:39	EEH
C9-C12 Aliphatics	ND	500	µg/L	5		MADEP-VPH-04-1.1	4/10/15	4/10/15 16:39	EEH
C9-C10 Aromatics	830	500	µg/L	5		MADEP-VPH-04-1.1	4/10/15	4/10/15 16:39	EEH
Benzene	110	5.0	µg/L	5		MADEP-VPH-04-1.1	4/10/15	4/10/15 16:39	EEH
Ethylbenzene	42	5.0	µg/L	5		MADEP-VPH-04-1.1	4/10/15	4/10/15 16:39	EEH
Methyl tert-Butyl Ether (MTBE)	14	5.0	µg/L	5		MADEP-VPH-04-1.1	4/10/15	4/10/15 16:39	EEH
Naphthalene	31	25	µg/L	5		MADEP-VPH-04-1.1	4/10/15	4/10/15 16:39	EEH
Toluene	ND	5.0	µg/L	5		MADEP-VPH-04-1.1	4/10/15	4/10/15 16:39	EEH
m+p Xylene	16	10	µg/L	5		MADEP-VPH-04-1.1	4/10/15	4/10/15 16:39	EEH
o-Xylene	ND	5.0	µg/L	5		MADEP-VPH-04-1.1	4/10/15	4/10/15 16:39	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,5-Dibromotoluene (FID)	114	70-130		4/10/15 16:39
2,5-Dibromotoluene (PID)	103	70-130		4/10/15 16:39

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Project Location: Raynham MA, 442 Rt. 44 Sample Description: Work Order: 15D0195

Date Received: 4/3/2015

Field Sample #: MW-206 Sampled: 4/3/2015 10:02

Sample ID: 15D0195-06

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 2:03	EEH
C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 2:03	EEH
Unadjusted C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 2:03	EEH
C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 2:03	EEH
C9-C10 Aromatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 2:03	EEH
Benzene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 2:03	EEH
Ethylbenzene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 2:03	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 2:03	EEH
Naphthalene	ND	5.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 2:03	EEH
Toluene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 2:03	EEH
m+p Xylene	ND	2.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 2:03	EEH
o-Xylene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 2:03	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,5-Dibromotoluene (FID)	106	70-130		4/10/15 2:03
2,5-Dibromotoluene (PID)	100	70-130		4/10/15 2:03

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Project Location: Raynham MA, 442 Rt. 44 Sample Description: Work Order: 15D0195

Date Received: 4/3/2015

Field Sample #: MW-207 Sampled: 4/3/2015 13:10

Sample ID: 15D0195-07

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	370	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 2:39	EEH
C5-C8 Aliphatics	370	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 2:39	EEH
Unadjusted C9-C12 Aliphatics	170	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 2:39	EEH
C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 2:39	EEH
C9-C10 Aromatics	140	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 2:39	EEH
Benzene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 2:39	EEH
Ethylbenzene	6.4	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 2:39	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 2:39	EEH
Naphthalene	5.6	5.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 2:39	EEH
Toluene	1.2	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 2:39	EEH
m+p Xylene	3.4	2.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 2:39	EEH
o-Xylene	1.4	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 2:39	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,5-Dibromotoluene (FID)	90.7	70-130		4/10/15 2:39
2,5-Dibromotoluene (PID)	85.5	70-130		4/10/15 2:39

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Project Location: Raynham MA, 442 Rt. 44 Sample Description: Work Order: 15D0195

Date Received: 4/3/2015

Field Sample #: MW-208 Sampled: 4/3/2015 12:49

Sample ID: 15D0195-08

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	4000	500	µg/L	5		MADEP-VPH-04-1.1	4/9/15	4/10/15 7:26	EEH
C5-C8 Aliphatics	3200	500	µg/L	5		MADEP-VPH-04-1.1	4/9/15	4/10/15 7:26	EEH
Unadjusted C9-C12 Aliphatics	1400	500	µg/L	5		MADEP-VPH-04-1.1	4/9/15	4/10/15 7:26	EEH
C9-C12 Aliphatics	ND	500	µg/L	5		MADEP-VPH-04-1.1	4/9/15	4/10/15 7:26	EEH
C9-C10 Aromatics	830	500	µg/L	5		MADEP-VPH-04-1.1	4/9/15	4/10/15 7:26	EEH
Benzene	32	5.0	µg/L	5		MADEP-VPH-04-1.1	4/9/15	4/10/15 7:26	EEH
Ethylbenzene	190	5.0	µg/L	5		MADEP-VPH-04-1.1	4/9/15	4/10/15 7:26	EEH
Methyl tert-Butyl Ether (MTBE)	ND	5.0	µg/L	5		MADEP-VPH-04-1.1	4/9/15	4/10/15 7:26	EEH
Naphthalene	29	25	µg/L	5		MADEP-VPH-04-1.1	4/9/15	4/10/15 7:26	EEH
Toluene	730	5.0	µg/L	5		MADEP-VPH-04-1.1	4/9/15	4/10/15 7:26	EEH
m+p Xylene	460	10	µg/L	5		MADEP-VPH-04-1.1	4/9/15	4/10/15 7:26	EEH
o-Xylene	170	5.0	µg/L	5		MADEP-VPH-04-1.1	4/9/15	4/10/15 7:26	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,5-Dibromotoluene (FID)	109	70-130		4/10/15 7:26
2,5-Dibromotoluene (PID)	101	70-130		4/10/15 7:26

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Project Location: Raynham MA, 442 Rt. 44 Sample Description: Work Order: 15D0195

Date Received: 4/3/2015

Field Sample #: MW-102 Sampled: 4/3/2015 10:14

Sample ID: 15D0195-09

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 3:15	EEH
C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 3:15	EEH
Unadjusted C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 3:15	EEH
C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 3:15	EEH
C9-C10 Aromatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 3:15	EEH
Benzene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 3:15	EEH
Ethylbenzene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 3:15	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 3:15	EEH
Naphthalene	ND	5.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 3:15	EEH
Toluene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 3:15	EEH
m+p Xylene	ND	2.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 3:15	EEH
o-Xylene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 3:15	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
2,5-Dibromotoluene (FID)	95.5	70-130		4/10/15	3:15
2,5-Dibromotoluene (PID)	89.4	70-130		4/10/15	3:15

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Project Location: Raynham MA, 442 Rt. 44 Sample Description: Work Order: 15D0195

Date Received: 4/3/2015

Field Sample #: MW-103 Sampled: 4/3/2015 11:32

Sample ID: 15D0195-10

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 3:51	EEH
C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 3:51	EEH
Unadjusted C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 3:51	EEH
C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 3:51	EEH
C9-C10 Aromatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 3:51	EEH
Benzene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 3:51	EEH
Ethylbenzene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 3:51	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 3:51	EEH
Naphthalene	ND	5.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 3:51	EEH
Toluene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 3:51	EEH
m+p Xylene	ND	2.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 3:51	EEH
o-Xylene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/9/15	4/10/15 3:51	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,5-Dibromotoluene (FID)	95.4	70-130		4/10/15 3:51
2,5-Dibromotoluene (PID)	89.0	70-130		4/10/15 3:51

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Project Location: Raynham MA, 442 Rt. 44 Sample Description: Work Order: 15D0195

Date Received: 4/3/2015

Field Sample #: MW-104 Sampled: 4/3/2015 10:50

Sample ID: 15D0195-11

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 19:39	EEH
C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 19:39	EEH
Unadjusted C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 19:39	EEH
C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 19:39	EEH
C9-C10 Aromatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 19:39	EEH
Benzene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 19:39	EEH
Ethylbenzene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 19:39	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 19:39	EEH
Naphthalene	ND	5.0	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 19:39	EEH
Toluene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 19:39	EEH
m+p Xylene	ND	2.0	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 19:39	EEH
o-Xylene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 19:39	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
2,5-Dibromotoluene (FID)	104	70-130		4/10/15	19:39
2,5-Dibromotoluene (PID)	97.7	70-130		4/10/15	19:39

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Project Location: Raynham MA, 442 Rt. 44 Sample Description: Work Order: 15D0195

Date Received: 4/3/2015

Field Sample #: Duplicate Sampled: 4/3/2015 00:00

Sample ID: 15D0195-12

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	4700	500	µg/L	5		MADEP-VPH-04-1.1	4/10/15	4/10/15 19:03	EEH
C5-C8 Aliphatics	4600	500	µg/L	5		MADEP-VPH-04-1.1	4/10/15	4/10/15 19:03	EEH
Unadjusted C9-C12 Aliphatics	1100	500	µg/L	5		MADEP-VPH-04-1.1	4/10/15	4/10/15 19:03	EEH
C9-C12 Aliphatics	ND	500	µg/L	5		MADEP-VPH-04-1.1	4/10/15	4/10/15 19:03	EEH
C9-C10 Aromatics	820	500	µg/L	5		MADEP-VPH-04-1.1	4/10/15	4/10/15 19:03	EEH
Benzene	100	5.0	µg/L	5		MADEP-VPH-04-1.1	4/10/15	4/10/15 19:03	EEH
Ethylbenzene	39	5.0	µg/L	5		MADEP-VPH-04-1.1	4/10/15	4/10/15 19:03	EEH
Methyl tert-Butyl Ether (MTBE)	15	5.0	µg/L	5		MADEP-VPH-04-1.1	4/10/15	4/10/15 19:03	EEH
Naphthalene	38	25	µg/L	5		MADEP-VPH-04-1.1	4/10/15	4/10/15 19:03	EEH
Toluene	ND	5.0	µg/L	5		MADEP-VPH-04-1.1	4/10/15	4/10/15 19:03	EEH
m+p Xylene	16	10	µg/L	5		MADEP-VPH-04-1.1	4/10/15	4/10/15 19:03	EEH
o-Xylene	ND	5.0	µg/L	5		MADEP-VPH-04-1.1	4/10/15	4/10/15 19:03	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,5-Dibromotoluene (FID)	103	70-130		4/10/15 19:03
2,5-Dibromotoluene (PID)	96.6	70-130		4/10/15 19:03

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Project Location: Raynham MA, 442 Rt. 44 Sample Description: Work Order: 15D0195

Date Received: 4/3/2015

Field Sample #: Field Blank Sampled: 4/3/2015 12:50

Sample ID: 15D0195-13

Sample Matrix: Field Blank

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 14:52	EEH
C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 14:52	EEH
Unadjusted C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 14:52	EEH
C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 14:52	EEH
C9-C10 Aromatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 14:52	EEH
Benzene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 14:52	EEH
Ethylbenzene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 14:52	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 14:52	EEH
Naphthalene	ND	5.0	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 14:52	EEH
Toluene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 14:52	EEH
m+p Xylene	ND	2.0	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 14:52	EEH
o-Xylene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 14:52	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,5-Dibromotoluene (FID)	112	70-130		4/10/15 14:52
2,5-Dibromotoluene (PID)	103	70-130		4/10/15 14:52

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Project Location: Raynham MA, 442 Rt. 44 Sample Description: Work Order: 15D0195

Date Received: 4/3/2015

Field Sample #: Trip Blank Sampled: 4/3/2015 00:00

Sample ID: 15D0195-14

Sample Matrix: Trip Blank Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 15:27	EEH
C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 15:27	EEH
Unadjusted C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 15:27	EEH
C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 15:27	EEH
C9-C10 Aromatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 15:27	EEH
Benzene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 15:27	EEH
Ethylbenzene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 15:27	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 15:27	EEH
Naphthalene	ND	5.0	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 15:27	EEH
Toluene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 15:27	EEH
m+p Xylene	ND	2.0	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 15:27	EEH
o-Xylene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	4/10/15	4/10/15 15:27	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,5-Dibromotoluene (FID)	97.3	70-130		4/10/15 15:27
2,5-Dibromotoluene (PID)	88.7	70-130		4/10/15 15:27

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Sample Extraction Data

Prep Method: MA VPH-MADEP-VPH-04-1.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15D0195-01 [MW-201]	B118910	5	5.00	04/09/15
15D0195-02 [MW-202]	B118910	5	5.00	04/09/15
15D0195-03 [MW-203]	B118910	0.5	5.00	04/09/15
15D0195-04 [MW-204]	B118910	5	5.00	04/09/15
15D0195-06 [MW-206]	B118910	5	5.00	04/09/15
15D0195-07 [MW-207]	B118910	5	5.00	04/09/15
15D0195-08 [MW-208]	B118910	1	5.00	04/09/15
15D0195-09 [MW-102]	B118910	5	5.00	04/09/15
15D0195-10 [MW-103]	B118910	5	5.00	04/09/15

Prep Method: MA VPH-MADEP-VPH-04-1.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15D0195-05 [MW-205]	B119015	1	5.00	04/10/15
15D0195-11 [MW-104]	B119015	5	5.00	04/10/15
15D0195-12 [Duplicate]	B119015	1	5.00	04/10/15
15D0195-13 [Field Blank]	B119015	5	5.00	04/10/15
15D0195-14 [Trip Blank]	B119015	5	5.00	04/10/15

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B118910 - MA VPH										
Blank (B118910-BLK1)				Prepared & Analyzed: 04/09/15						
Unadjusted C5-C8 Aliphatics	ND	100	µg/L							
C5-C8 Aliphatics	ND	100	µg/L							
Unadjusted C9-C12 Aliphatics	ND	100	µg/L							
C9-C12 Aliphatics	ND	100	µg/L							
C9-C10 Aromatics	ND	100	µg/L							
Benzene	ND	1.0	µg/L							
Butylcyclohexane	ND	1.0	µg/L							
Decane	ND	1.0	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
2-Methylpentane	ND	1.0	µg/L							
Naphthalene	ND	5.0	µg/L							
Nonane	ND	1.0	µg/L							
Pentane	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
2,2,4-Trimethylpentane	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 2,5-Dibromotoluene (FID)	*40.2*		µg/L	40.0		100	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*37.7*		µg/L	40.0		94.4	70-130			
LCS (B118910-BS1)				Prepared & Analyzed: 04/09/15						
Benzene	97.9	1.0	µg/L	100		97.9	70-130			
Butylcyclohexane	99.3	1.0	µg/L	100		99.3	70-130			
Decane	111	1.0	µg/L	100		111	70-130			
Ethylbenzene	97.3	1.0	µg/L	100		97.3	70-130			
Methyl tert-Butyl Ether (MTBE)	102	1.0	µg/L	100		102	70-130			
2-Methylpentane	102	1.0	µg/L	100		102	70-130			
Naphthalene	104	5.0	µg/L	100		104	70-130			
Nonane	103	1.0	µg/L	100		103	30-130			
Pentane	103	1.0	µg/L	100		103	70-130			
Toluene	97.3	1.0	µg/L	100		97.3	70-130			
1,2,4-Trimethylbenzene	99.2	1.0	µg/L	100		99.2	70-130			
2,2,4-Trimethylpentane	98.6	1.0	µg/L	100		98.6	70-130			
m+p Xylene	198	2.0	µg/L	200		99.1	70-130			
o-Xylene	99.6	1.0	µg/L	100		99.6	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	*42.0*		µg/L	40.0		105	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*39.6*		µg/L	40.0		99.1	70-130			
LCS Dup (B118910-BSD1)				Prepared & Analyzed: 04/09/15						
Benzene	97.7	1.0	µg/L	100		97.7	70-130	0.175	25	
Butylcyclohexane	101	1.0	µg/L	100		101	70-130	1.76	25	
Decane	113	1.0	µg/L	100		113	70-130	1.23	25	
Ethylbenzene	95.4	1.0	µg/L	100		95.4	70-130	1.99	25	
Methyl tert-Butyl Ether (MTBE)	99.7	1.0	µg/L	100		99.7	70-130	2.29	25	
2-Methylpentane	102	1.0	µg/L	100		102	70-130	0.360	25	
Naphthalene	97.1	5.0	µg/L	100		97.1	70-130	6.90	25	
Nonane	106	1.0	µg/L	100		106	30-130	2.70	25	
Pentane	103	1.0	µg/L	100		103	70-130	0.490	25	
Toluene	95.5	1.0	µg/L	100		95.5	70-130	1.78	25	
1,2,4-Trimethylbenzene	96.9	1.0	µg/L	100		96.9	70-130	2.28	25	

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B118910 - MA VPH										
LCS Dup (B118910-BSD1)				Prepared & Analyzed: 04/09/15						
2,2,4-Trimethylpentane	98.1	1.0	µg/L	100		98.1	70-130	0.466	25	
m+p Xylene	194	2.0	µg/L	200		96.8	70-130	2.30	25	
o-Xylene	96.9	1.0	µg/L	100		96.9	70-130	2.73	25	
Surrogate: 2,5-Dibromotoluene (FID)	*41.2*		µg/L	40.0		103	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*38.0*		µg/L	40.0		95.0	70-130			
Batch B119015 - MA VPH										
Blank (B119015-BLK1)				Prepared & Analyzed: 04/10/15						
Unadjusted C5-C8 Aliphatics	ND	100	µg/L							
C5-C8 Aliphatics	ND	100	µg/L							
Unadjusted C9-C12 Aliphatics	ND	100	µg/L							
C9-C12 Aliphatics	ND	100	µg/L							
C9-C10 Aromatics	ND	100	µg/L							
Benzene	ND	1.0	µg/L							
Butylcyclohexane	ND	1.0	µg/L							
Decane	ND	1.0	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
2-Methylpentane	ND	1.0	µg/L							
Naphthalene	ND	5.0	µg/L							
Nonane	ND	1.0	µg/L							
Pentane	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
2,2,4-Trimethylpentane	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 2,5-Dibromotoluene (FID)	*41.8*		µg/L	40.0		104	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*38.8*		µg/L	40.0		97.0	70-130			
LCS (B119015-BS1)				Prepared & Analyzed: 04/10/15						
Benzene	89.5	1.0	µg/L	100		89.5	70-130			
Butylcyclohexane	93.3	1.0	µg/L	100		93.3	70-130			
Decane	103	1.0	µg/L	100		103	70-130			
Ethylbenzene	86.8	1.0	µg/L	100		86.8	70-130			
Methyl tert-Butyl Ether (MTBE)	90.4	1.0	µg/L	100		90.4	70-130			
2-Methylpentane	92.9	1.0	µg/L	100		92.9	70-130			
Naphthalene	90.5	5.0	µg/L	100		90.5	70-130			
Nonane	97.1	1.0	µg/L	100		97.1	30-130			
Pentane	84.1	1.0	µg/L	100		84.1	70-130			
Toluene	87.3	1.0	µg/L	100		87.3	70-130			
1,2,4-Trimethylbenzene	89.1	1.0	µg/L	100		89.1	70-130			
2,2,4-Trimethylpentane	92.0	1.0	µg/L	100		92.0	70-130			
m+p Xylene	177	2.0	µg/L	200		88.3	70-130			
o-Xylene	87.9	1.0	µg/L	100		87.9	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	*40.8*		µg/L	40.0		102	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*37.5*		µg/L	40.0		93.8	70-130			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B119015 - MA VPH										
LCS Dup (B119015-BSD1)				Prepared & Analyzed: 04/10/15						
Benzene	84.5	1.0	µg/L	100		84.5	70-130	5.78	25	
Butylcyclohexane	94.7	1.0	µg/L	100		94.7	70-130	1.53	25	
Decane	103	1.0	µg/L	100		103	70-130	0.304	25	
Ethylbenzene	83.6	1.0	µg/L	100		83.6	70-130	3.81	25	
Methyl tert-Butyl Ether (MTBE)	86.7	1.0	µg/L	100		86.7	70-130	4.10	25	
2-Methylpentane	87.0	1.0	µg/L	100		87.0	70-130	6.52	25	
Naphthalene	97.0	5.0	µg/L	100		97.0	70-130	6.87	25	
Nonane	99.1	1.0	µg/L	100		99.1	30-130	2.06	25	
Pentane	79.8	1.0	µg/L	100		79.8	70-130	5.20	25	
Toluene	83.4	1.0	µg/L	100		83.4	70-130	4.63	25	
1,2,4-Trimethylbenzene	86.5	1.0	µg/L	100		86.5	70-130	2.89	25	
2,2,4-Trimethylpentane	85.2	1.0	µg/L	100		85.2	70-130	7.66	25	
m+p Xylene	172	2.0	µg/L	200		85.8	70-130	2.79	25	
o-Xylene	85.7	1.0	µg/L	100		85.7	70-130	2.48	25	
Surrogate: 2,5-Dibromotoluene (FID)	*42.5*		µg/L	40.0		106	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*40.3*		µg/L	40.0		101	70-130			
Matrix Spike (B119015-MS1)	**Source: 15D0195-05**			Prepared & Analyzed: 04/10/15						
Benzene	601	5.0	µg/L	500	112	97.7	70-130			
Butylcyclohexane	520	5.0	µg/L	500	0.00	104	70-130			
Decane	550	5.0	µg/L	500	0.00	110	70-130			
Ethylbenzene	553	5.0	µg/L	500	41.5	102	70-130			
Methyl tert-Butyl Ether (MTBE)	517	5.0	µg/L	500	14.2	101	70-130			
2-Methylpentane	887	5.0	µg/L	500	396	98.1	70-130			
Naphthalene	487	25	µg/L	500	31.2	91.2	70-130			
Nonane	502	5.0	µg/L	500	0.00	100	30-130			
Pentane	707	5.0	µg/L	500	167	108	70-130			
Toluene	505	5.0	µg/L	500	4.31	100	70-130			
1,2,4-Trimethylbenzene	515	5.0	µg/L	500	7.94	101	70-130			
2,2,4-Trimethylpentane	629	5.0	µg/L	500	155	94.7	70-130			
m+p Xylene	1060	10	µg/L	1000	16.5	104	70-130			
o-Xylene	519	5.0	µg/L	500	4.66	103	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	*44.6*		µg/L	40.0		111	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*40.1*		µg/L	40.0		100	70-130			
Matrix Spike Dup (B119015-MSD1)	**Source: 15D0195-05**			Prepared & Analyzed: 04/10/15						
Benzene	610	5.0	µg/L	500	112	99.6	70-130	1.51	50	
Butylcyclohexane	563	5.0	µg/L	500	0.00	113	70-130	8.00	50	
Decane	601	5.0	µg/L	500	0.00	120	70-130	8.77	50	
Ethylbenzene	556	5.0	µg/L	500	41.5	103	70-130	0.511	50	
Methyl tert-Butyl Ether (MTBE)	523	5.0	µg/L	500	14.2	102	70-130	1.16	50	
2-Methylpentane	866	5.0	µg/L	500	396	94.0	70-130	2.36	50	
Naphthalene	597	25	µg/L	500	31.2	113	70-130	20.2	50	
Nonane	576	5.0	µg/L	500	0.00	115	30-130	13.8	50	
Pentane	676	5.0	µg/L	500	167	102	70-130	4.45	50	
Toluene	507	5.0	µg/L	500	4.31	100	70-130	0.375	50	
1,2,4-Trimethylbenzene	525	5.0	µg/L	500	7.94	103	70-130	1.95	50	
2,2,4-Trimethylpentane	663	5.0	µg/L	500	155	102	70-130	5.27	50	
m+p Xylene	1070	10	µg/L	1000	16.5	105	70-130	1.04	20	
o-Xylene	525	5.0	µg/L	500	4.66	104	70-130	1.16	50	
Surrogate: 2,5-Dibromotoluene (FID)	*49.1*		µg/L	40.0		123	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*44.7*		µg/L	40.0		112	70-130			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
RL-05	Elevated reporting limit due to high concentration of target compounds. MA CAM reporting limit not met.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-VPH-04-1.1 in Water	
Unadjusted C5-C8 Aliphatics	CT,NC,WA,ME,NH-P
C5-C8 Aliphatics	CT,NC,WA,ME,NH-P
Unadjusted C9-C12 Aliphatics	CT,NC,WA,ME,NH-P
C9-C12 Aliphatics	CT,NC,WA,ME,NH-P
C9-C10 Aromatics	CT,NC,WA,ME,NH-P
Benzene	CT,NC,WA,ME,NH-P
Ethylbenzene	CT,NC,WA,ME,NH-P
Methyl tert-Butyl Ether (MTBE)	CT,NC,WA,ME,NH-P
Naphthalene	CT,NC,WA,ME,NH-P
Toluene	CT,NC,WA,ME,NH-P
m+p Xylene	CT,NC,WA,ME,NH-P
o-Xylene	CT,NC,WA,ME,NH-P

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2015
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2016
RI	Rhode Island Department of Health	LAO00112	12/30/2015
NC	North Carolina Div. of Water Quality	652	12/31/2015
NJ	New Jersey DEP	MA007 NELAP	06/30/2015
FL	Florida Department of Health	E871027 NELAP	06/30/2015
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2015
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2015
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2015

CHAIN OF CUSTODY RECORD

15D0195

Rev 04.05.12

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Company Name: Sovereign Consulting
Telephone: 508-339-3200
Address: ~~442 RT 44~~ 116 Chestnut St ~~Raynham~~ Foxboro, MA
Project #: C0095
Client PO#:
Attention: Leah Smith
Project Location: Raynham MA, 442 Rt. 44
Sampled By: Erin Foley & Leah Smith

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

DATA DELIVERY (check all that apply)
○ FAX ⊗ EMAIL ○ WEBSITE
Fax #:
Email: LSmith@sovcon
Format: ⊗ PDF ○ EXCEL ○ GIS
○ OTHER _____
○ "Enhanced Data Package"

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code
01	MW-201	1242	1242		X	GW	L
02	MW-202	1210	1210		X	GW	L
03	MW-203	1327	1327		X	GW	H
04	MW-204	1130	1130		X	GW	L
05	MW-205	1218	1218		X	GW	L
06	MW-206	1002	1002		X	GW	L
07	MW-207	1310	1310		X	GW	L
08	MW-208	1249	1249		X	GW	L
09	MW-102	1019	1019		X	GW	L
10	MW-103	1132	1132		X	GW	L

Z
H
V
# of Containers
** Preservation
***Container Code

ANALYSIS REQUESTED

MASS DEP VPH

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:**
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summa can
T=tedlar bag
O=Other

****Preservation**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other _____

*Matrix Code:
GW = groundwater
WW = wastewater
DW = drinking water
A = air
S = soil/solid
SL = sludge
O = other _____

Comments:
MW-205 MS/MSD — 4 vials

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)		Date/Time: 4/3/15 1430
Received by: (signature)	4/3/15	Date/Time: 1010
Relinquished by: (signature)	4/3/15	Date/Time: 6:17
Received by: (signature)	5.3 4/3/15	Date/Time: 1815

Turnaround ††
☐ 7-Day
☒ 10-Day
☐ Other _____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
⊗ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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CHAIN OF CUSTODY RECORD

15D0195

Rev 04.05.12

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East longmeadow, MA 01028

Page ____ of ____

Company Name: Sovereign Consulting | Telephone: 508-339-3200

Address: 16 Chestnut St, Foxboro, MA | Project #: C0045

Client PO#:

Attention:

Project Location: 442 RT 44, Raynham MA

Sampled By: Erin Foley & Leah Smith

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

DATA DELIVERY (check all that apply)
○ FAX ⊗ EMAIL ○ WEBSITE
Fax #:
Email: LSMITH@SOVLON
Format: ⊗ PDF ○ EXCEL ○ GIS
○ OTHER _____
○ "Enhanced Data Package"

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code
11	MW-104	1030	1050		X	GW	L
12	DUPLICATE	0000	0000		X	GW	L
13	FIELD BLANK	1220	1250		X	DI	C

ANALYSIS REQUESTED

	# of Containers	** Preservation	***Container Code
Z			
H			
V			

Mass DEP VPH

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:**
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other _____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other _____

Comments: Field blank is DI water

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Relinquished by: (signature): 4/1/15 1430
Received by: (signature): 4/3/15 1010
Relinquished by: (signature): 4/3/15 1600
Received by: (signature): 5.7 4/3/15 1815

Turnaround ††
☐ 7-Day
☒ 10-Day
☐ Other
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
⊗ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

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WBE/DBE Certified

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

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MCP Analytical Services Request Form

Attach to Chain-of-Custody Form for Data Set

Client Name: Sovereign on behalf of Colbea	Project Name: CO045 Raynham
Address: 442 Route 44, Raynham MA	MCP RTN[1]: 4-0249

Applicable Samples: All samples associated with this chain.

General Questions :

Is MCP Presumptive Certainty status being requested for the referenced data set*? ** Laboratory must use approved MCP Analytical Protocols*	X Yes No
Were all samples that comprise this data set collected in appropriate containers as specified in WSC-CAM-VII A, Appendix VII A-1 for requested analytes?	X Yes No
Were all samples preserved as specified in WSC-CAM-VII A, Appendix VII A-1 for requested analytes?	X Yes No
Were all samples placed in a cooler with ice?	X Yes No
Are any of the soil/sediment samples in the data set preserved by freezing or do any require freezing (< -7°C) by the laboratory (within 48 hours of the time of collection)?	X Yes No
Should the laboratory report the standard CAM analyte list for the requested analytical protocols?	X Yes No
Should protocol-specific CAM reporting limits be used for all requested aqueous samples? ***If lower reporting limits are required, please specify.***	X Yes No
Should protocol-specific CAM reporting limits be used for all requested soil/sediment samples? ***If lower reporting limits are required, please specify.***	Yes X No
Are Matrix Spikes (MS) or MS Duplicates required for this data set?	X Yes No
Has adequate sample volume been provided for the MS/MSD?	X Yes No
Have the samples which require MS or MS Duplicate analysis been identified?	X Yes No
Are any of the samples in the data set characterized as "drinking water" as described in WSC-CAM-VII A, Section 2.5?	X Yes No
If **YES**, samples identified as "drinking water" must be analyzed using MCP Analytical Methods and require the reporting.of Tentatively Identified Compounds (TICs), if GC/MS analyses requested.	X Yes No
Are Field Duplicate Samples provided and identified for all "drinking water" samples*? **** Analysis required only if a target analyte is detected above the RL in the original sample.***	X Yes No
Are Trip Blanks provided and identified for all "drinking water" samples submitted for VOCs and VPH *? **** Analysis required only if a target analyte is detected above the RL in any of the associated samples.***	X Yes No
Is any alternative, supplemental or non-routine QC required for this data set? (*Please specify*)	Yes No

1. MCP Release Tracking Number, as applicable.
2. Laboratory must use approved MCP Analytical Methods.
3. Attach modified analyte list (may include non-routine analytes).
4. Samples that require MS and/or MSD analysis should be designated on the COC. **Data user responsible for providing the laboratory with adequate sample volume to prepare MS/MSD samples.**
5. Attached description of alternative, supplemental or non-routine QC that is required.

Signature _____ Date 4/1/15

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con-test ANALYTICAL LABORATORY

Sample Receipt Checklist

CLIENT NAME: Sovereign Consulting **RECEIVED BY:** JDL **DATE:** 4/3/15

1) Was the chain(s) of custody relinquished and signed? (Yes) No **No CoC Included**

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 5.3

5) Are there Dissolved samples for the lab to filter? Yes (No)

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No (N/A) _____

9) Do all samples have the proper Base pH: Yes No (N/A) _____

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No (N/A)

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below	29	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments: 2 TB received off COC.

40 mL vials: # HCl 29 # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved

Time and Date Frozen:

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	T	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Doc #277 Rev. 4 August 2013 **Log-In Technician Initials:** JDL **Date/Time:** 4/3/15 1815

MADEP MCP Analytical Method Report Certification Form

Laboratory Name:	Con-Test Analytical Laboratory	Project #:	15D0195
Project Location:	Raynham MA, 442 Rt. 44	RTN:	

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

15D0195-01 thru 15D0195-14

Matrices: Water

CAM Protocol (check all that below)

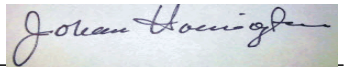
8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A (X)	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX 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 response to Questions A throughF is 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[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
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[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E 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).	☑ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]
	A response to questions G, H and I below is 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 perfomance 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 Environmental Laboratory case 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:  Position: Manager, Laboratory Reporting

Printed Name: Johanna K. Harrington Date: 04/14/15

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

May 13, 2015

Leah Smith
Sovereign Consulting - Foxboro, MA
16 Chestnut Street
Foxboro, MA 02035

Project Location: 442 Rt 44, Raynham
Client Job Number:
Project Number: C0045
Laboratory Work Order Number: 15D1422

Enclosed are results of analyses for samples received by the laboratory on April 29, 2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Aaron L. Benoit
Project Manager

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Sovereign Consulting - Foxboro, MA
16 Chestnut Street
Foxboro, MA 02035
ATTN: Leah Smith

REPORT DATE: 5/13/2015

PURCHASE ORDER NUMBER:

PROJECT NUMBER: C0045

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 15D1422

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 442 Rt 44, Raynham

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-203 (NPDES)	15D1422-01	Ground Water		EPA 504.1	MA M-CT007/CT PH-0618/NY11301
				SM21-22 2540D	
				SM21-22 4500 CL B	
				SW-846 6010C	
				SW-846 8260C	
Trip Blank	15D1422-02	Trip Blank Water		SW-846 8260C	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8260C

Qualifications:

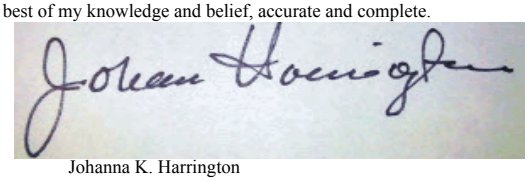
RL-13

Elevated reporting limit due to high concentration of non-target compounds.

Analyte & Samples(s) Qualified:

15D1422-01[MW-203 (NPDES)]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Johanna K. Harrington
Manager, Laboratory Reporting

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 442 Rt 44, Raynham | Sample Description: | Work Order: 15D1422

Date Received: 4/29/2015

Field Sample #: MW-203 (NPDES) | Sampled: 4/27/2015 11:30

Sample ID: 15D1422-01

Sample Matrix: Ground Water

Sample Flags: RL-13

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
tert-Amyl Methyl Ether (TAME)	ND	80	µg/L	200		SW-846 8260C	5/8/15	5/10/15 18:59	EEH
tert-Butyl Alcohol (TBA)	ND	800	µg/L	200		SW-846 8260C	5/8/15	5/10/15 18:59	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	112	70-130		5/10/15 18:59
Toluene-d8	99.9	70-130		5/10/15 18:59
4-Bromofluorobenzene	94.3	70-130		5/10/15 18:59

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 442 Rt 44, Raynham | Sample Description: | Work Order: 15D1422

Date Received: 4/29/2015

Field Sample #: MW-203 (NPDES) | Sampled: 4/27/2015 11:30

Sample ID: 15D1422-01

Sample Matrix: Ground Water

Metals Analyses (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Iron	11	0.050	mg/L	1		SW-846 6010C	5/9/15	5/11/15 14:35	MJH
Lead	ND	0.010	mg/L	1		SW-846 6010C	5/9/15	5/11/15 14:35	MJH

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Project Location: 442 Rt 44, Raynham | Sample Description: | Work Order: 15D1422

Date Received: 4/29/2015

Field Sample #: MW-203 (NPDES) | Sampled: 4/27/2015 11:30

Sample ID: 15D1422-01

Sample Matrix: Ground Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chloride	37	2.0	mg/L	2		SM21-22 4500 CL B	4/30/15	4/30/15 18:40	DJM
Total Suspended Solids	10	5.0	mg/L	1		SM21-22 2540D	4/30/15	4/30/15 13:15	LL

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Project Location: 442 Rt 44, Raynham | Sample Description: | Work Order: 15D1422

Date Received: 4/29/2015

Field Sample #: MW-203 (NPDES) | Sampled: 4/27/2015 11:30

Sample ID: 15D1422-01

Sample Matrix: Ground Water

Drinking Water Organics EPA 504.1 Subcontracted

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2-Dibromoethane (EDB)	ND	0.02	µg/L	1		EPA 504.1		5/5/15 0:00	PEL

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Project Location: 442 Rt 44, Raynham | Sample Description: | Work Order: 15D1422

Date Received: 4/29/2015

Field Sample #: Trip Blank | Sampled: 4/27/2015 00:00

Sample ID: 15D1422-02

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
tert-Amyl Methyl Ether (TAME)	ND	0.40	µg/L	1		SW-846 8260C	5/8/15	5/10/15 11:52	EEH
tert-Butyl Alcohol (TBA)	ND	4.0	µg/L	1		SW-846 8260C	5/8/15	5/10/15 11:52	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	113	70-130		5/10/15 11:52
Toluene-d8	102	70-130		5/10/15 11:52
4-Bromofluorobenzene	94.4	70-130		5/10/15 11:52

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Sample Extraction Data

SM21-22 2540D

Lab Number [Field ID]	Batch	Initial [mL]	Date
15D1422-01 [MW-203 (NPDES)]	B120602	100	04/30/15

SM21-22 4500 CL B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15D1422-01 [MW-203 (NPDES)]	B120668	100	100	04/30/15

Prep Method: SW-846 3005A Dissolved-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15D1422-01 [MW-203 (NPDES)]	B121374	50.0	50.0	05/09/15

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
15D1422-01 [MW-203 (NPDES)]	B121283	0.025	5.00	05/08/15
15D1422-02 [Trip Blank]	B121283	5	5.00	05/08/15

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B121283 - SW-846 5030B										
Blank (B121283-BLK1)				Prepared: 05/08/15 Analyzed: 05/10/15						
tert-Amyl Methyl Ether (TAME)	ND	0.40	µg/L							
tert-Butyl Alcohol (TBA)	ND	4.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*28.2*		µg/L	25.0		113	70-130			
Surrogate: Toluene-d8	*25.3*		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	*23.5*		µg/L	25.0		94.0	70-130			
LCS (B121283-BS1)				Prepared: 05/08/15 Analyzed: 05/10/15						
tert-Amyl Methyl Ether (TAME)	11.6	0.40	µg/L	10.0		116	70-130			
tert-Butyl Alcohol (TBA)	102	4.0	µg/L	100		102	40-160			†
Surrogate: 1,2-Dichloroethane-d4	*28.6*		µg/L	25.0		114	70-130			
Surrogate: Toluene-d8	*25.2*		µg/L	25.0		101	70-130			
Surrogate: 4-Bromofluorobenzene	*23.8*		µg/L	25.0		95.4	70-130			
LCS Dup (B121283-BSD1)				Prepared: 05/08/15 Analyzed: 05/10/15						
tert-Amyl Methyl Ether (TAME)	12.1	0.40	µg/L	10.0		121	70-130	4.47	25	
tert-Butyl Alcohol (TBA)	92.8	4.0	µg/L	100		92.8	40-160	9.31	25	†
Surrogate: 1,2-Dichloroethane-d4	*28.6*		µg/L	25.0		114	70-130			
Surrogate: Toluene-d8	*25.1*		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	*23.4*		µg/L	25.0		93.5	70-130			

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QUALITY CONTROL

Metals Analyses (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B121374 - SW-846 3005A Dissolved										
Blank (B121374-BLK1)				Prepared: 05/09/15 Analyzed: 05/11/15						
Iron	ND	0.050	mg/L							
Lead	ND	0.010	mg/L							
LCS (B121374-BS1)				Prepared: 05/09/15 Analyzed: 05/11/15						
Iron	0.519	0.050	mg/L	0.500		104	80-120			
Lead	0.498	0.010	mg/L	0.500		99.5	80-120			
LCS Dup (B121374-BSD1)				Prepared: 05/09/15 Analyzed: 05/11/15						
Iron	0.521	0.050	mg/L	0.500		104	80-120	0.454	20	
Lead	0.503	0.010	mg/L	0.500		101	80-120	1.14	20	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B120602 - SM21-22 2540D										
Blank (B120602-BLK1)				Prepared & Analyzed: 04/30/15						
Total Suspended Solids	ND	2.5	mg/L							
LCS (B120602-BS1)				Prepared & Analyzed: 04/30/15						
Total Suspended Solids	192	10	mg/L	200		96.0	70.4-114			
Batch B120668 - SM21-22 4500 CL B										
Blank (B120668-BLK1)				Prepared & Analyzed: 04/30/15						
Chloride	ND	1.0	mg/L							
LCS (B120668-BS1)				Prepared & Analyzed: 04/30/15						
Chloride	12	1.0	mg/L	11.8		105	87.1-113			
LCS Dup (B120668-BSD1)				Prepared & Analyzed: 04/30/15						
Chloride	12	1.0	mg/L	11.8		101	87.1-113	4.11	9.72	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
RL-13	Elevated reporting limit due to high concentration of non-target compounds.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SM21-22 2540D in Water	
Total Suspended Solids	CT,MA,NH,NY,RI,NC,ME,VA,NJ
SM21-22 4500 CL B in Water	
Chloride	NH,CT,MA,NY,RI,NC,ME,VA,NJ
SW-846 6010C in Water	
Iron	CT,NH,NY,ME,NC,VA,NJ
Lead	CT,NH,NY,NC,ME,VA,NJ
SW-846 8260C in Water	
tert-Amyl Methyl Ether (TAME)	NH,NY,ME,VA,NJ
tert-Butyl Alcohol (TBA)	NH,NY,ME,VA,NJ

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2015
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2016
RI	Rhode Island Department of Health	LAO00112	12/30/2015
NC	North Carolina Div. of Water Quality	652	12/31/2015
NJ	New Jersey DEP	MA007 NELAP	06/30/2015
FL	Florida Department of Health	E871027 NELAP	06/30/2015
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2015
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2015
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2015

CHAIN OF CUSTODY RECORD

15D1422 Rev 04-05-12

con-test ANALYTICAL LABORATORY
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www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

Company Name: Sovereign Consulting — Telephone: 508-339-3200

Address: 16 Chestnut St. Foxboro, MA — Project #: 60045

Client PO#:

Attention: Leah Smith

Project Location: 442 RT 44 RAYNHAM

Sampled By: Leah Smith

DATA DELIVERY (check all that apply): ○ FAX ☒ EMAIL ○ WEBSITE

Fax #:

Email: LSmith@SovCon.com

Format: ○ PDF ○ EXCEL ○ GIS ○ OTHER ○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes) ○ yes _____ proposal date

Con-Test Lab ID (Laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	# of Containers	** Preservation	*** Container Code	VOC 8260 - TBA, TMVE	EDB	TSS + Chloride	Metals (choose)	Temp Blank
01	MW-203 (NPDES)	4/27/15	1130		X	GW	4	H	V	X	X	X	X	X
		~~4/27/15~~	~~1130~~											

Comments: Metal Sample field filtered.

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) — Date/Time: 4/29/15 1730

Received by: (signature) — Date/Time: 4/29/15 1810

Relinquished by: (signature) — Date/Time: 4/29/15 2300

Received by: (signature) — Date/Time: 4/29/15 15:50

Turnaround ††
- ☐ 7-Day
- ☒ 10-Day
- ☐ Other

RUSH †
- ☐ †24-Hr ☐ †48-Hr
- ☐ †72-Hr ☐ †4-Day
- † Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP?
- ○ MCP Form Required
- ○ RCP Form Required
- ○ MA State DW Form Required PWSID # _____

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certifie

†† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

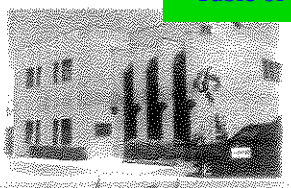
*Matrix Code:
GW = groundwater
WW = wastewater
DW = drinking water
A = air
S = soil/solid
SL = sludge
O = other

Dissolved Metals
○ Field Filtered
○ Lab to Filter

Table of Contents

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: Sovereign RECEIVED BY: KKM DATE: 4/29/15

1) Was the chain(s) of custody relinquished and signed? (Yes) No No CoC Included

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank 5.0 Temperature °C by Temp gun _____

5) Are there Dissolved samples for the lab to filter? Yes (No)

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: (Yes) No N/A _____

9) Do all samples have the proper Base pH: Yes No (N/A) _____

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No (N/A)

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic	2	Non-ConTest Container	
40 mL Vial - type listed below	28	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl 5 # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate 3 Unpreserved _____

Time and Date Frozen:

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	KKM T	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Log-In Technician Initials: KKM **Date/Time:** 4/29/15 15:50

PHOENIX
Environmental Laboratories, Inc.

Monday, May 11, 2015

Attn: Laurie Kopyscinski
Con-Test
39 Spruce Street
East Longmeadow, MA 01028

Project ID: 15D1422
Sample ID#s: BJ10004

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 11, 2015

FOR: Attn: Laurie Kopyscinski
Con-Test
39 Spruce Street
East Longmeadow, MA 01028

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		04/27/15	11:30
Location Code:	CON-TEST	Received by:	LK	04/30/15	10:25
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	15D1422				

Laboratory Data

SDG ID: GBJ10004
Phoenix ID: BJ10004

Project ID: 15D1422
Client ID: 01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dibromoethane (EDB)	ND	0.02	ug/L	1	05/05/15	JRB	E504.1

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller, Laboratory Director
May 11, 2015
Reviewed and Released by: Deb Lawrie, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

May 11, 2015

QA/QC Data

SDG I.D.: GBJ10004

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 306897 (ug/L), QC Sample No: BJ10004 (BJ10004)										
EDB and DBCP Analysis - Water										
1,2-Dibromoethane (EDB)	ND	0.01	109	104	4.7	124	118	5.0	70 - 130	25

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
May 11, 2015

Monday, May 11, 2015

Criteria: None

State: MA

Sample Criteria Exceedences Report

GBJ10004 - CON-TEST

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

SUBCONTRACT ORDER

Con-Test Analytical Laboratory

15D1422

Subcontract lab must notify Con-Test Analytical Lab of any MCL exceedance within 24-hours of obtaining valid data.

SENDING LABORATORY:

Con-Test Analytical Laboratory
39 Spruce Street
East Longmeadow, MA 01028
Phone: 413.525.2332
Fax: 413.525.6405
Project Manager: Aaron L. Benoit

RECEIVING LABORATORY:

Phoenix Laboratory
587 Middle Turnpike East
Manchester, CT 06040
Phone :(860) 645-1102
Fax: (860) 645-0823

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 15D1422-01	**Water**	**Sampled:04/27/15 11:30**	[redacted]	
504 - Subcontracted	05/12/15 23:59	05/11/15 11:30		EDB Only. Possible High Concentration
Containers Supplied:				
VOA vial + NaS2O3 (F)	VOA vial + NaS2O3 (G)	VOA vial + NaS2O3 (H)		

Released By	Date	Received By	Date
K. Mellee	4/30/15 9:30		
			4/30/15 10:25

ATTACHMENT C

Massachusetts Cultural Resource Information System

MACRIS

MACRIS Search Results

Search Criteria: Town(s): Raynham; Resource Type(s): Area, Building, Burial Ground, Object, Structure;

Inv. No.	Property Name	Street	Town	Year
RAY.901	Rozenas I/II Site		Raynham	
RAY.900	Church Street Bridge over Penn Central Railroad	Church St	Raynham	1940
RAY.4	Shaw, Samual House	1087 Locust St	Raynham	r 1700
RAY.6	Merrill, Lillie B. House	31 North Main St	Raynham	c 1780
RAY.1		86 Oak St	Raynham	r 1800
RAY.8	Hannant - Hall House	16 Pleasant St	Raynham	1773
RAY.3	Jones, Timothy House	355 Pleasant St	Raynham	r 1715
RAY.2	Gushee House	808 Pleasant St	Raynham	1779
RAY.902	Route 44 Bridge over Forge River	Rt 44	Raynham	1932
RAY.903	Route 44 Bridge over Dam Lot Brook	Rt 44	Raynham	1932
RAY.904		Rt 495	Raynham	r 1865
RAY.7	Hathaway, Abraham House	366 South Main St	Raynham	1743
RAY.9	Center School	558 South Main St	Raynham	1919
RAY.5		691 South Main St	Raynham	c 1850
RAY.10	Raynham Dog Kennel and Racing Track	385 Thrasher St	Raynham	1870