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

CERTIFIED MAIL RETURN RECEIPT REQUESTED

MAY 15 2014

Matthew Young
Senior Plant Manager
Cumberland Farms Inc.
100 Crossing Boulevard
Framingham, MA 01702

Re: Authorization to discharge under the Remediation General Permit (RGP) – MAG910000. Cumberland Farms Inc., site located at 217 Worcester St., Grafton, MA 01519, Worcester South County; Authorization # MAG910619

Dear Mr. Young:

Based on the review of a Notice of Intent (NOI) submitted by Mr. Michael C. Bricher from Environmental Compliance Services, Inc., on behalf of Cumberland Farms, 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 have exceeded Appendix III limits. The checklist also includes other parameters for which your laboratory reports indicated there was insufficient sensitivity to detect these parameters at the minimum levels established in Appendix VI of the RGP

Also, please note that the metals included on the checklist are dilution dependent pollutants and subject to limitations based on selected dilution ranges and technology-based ceiling limitations. For each parameter the dilution factor 47.42 for this site is within a dilution range greater than ten to fifty (>10 to 50), established in the RGP. (See

the RGP Appendix IV for Massachusetts facilities). Therefore, the limits for lead of 13 ug/L, and iron of 5,000ug/L, are required to achieve permit compliance at your site.

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

This general permit and authorization to discharge will expire on September 9, 2015. You have reported that this project will terminate on 09/30/2014. You are required to submit a Notice of Termination (NOT) to the attention of the contact person indicated below within 30 days of project completion.

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

Sincerely,

Thelma Murphy

Thelma Murphy, Chief
Storm Water and Construction
Permits Section

Enclosure

cc: Robert Kubit, MassDEP
Peter Sellers, Framingham DPW
Michael C. Bricher, ECS, Inc.

2010 Remediation General Permit
Summary of Monitoring Parameters[1]

NPDES Authorization Number:	**MAG910619**
Authorization Issued:	May, 2014
Facility/Site Name:	Cumberland Farms Inc.
Facility/Site Address:	217 Worcester Street, Framingham, MA 01519
	Email address of owner: myoung@cumberlandgulf.com
Legal Name of Operator:	Cumberland Farms, Inc.
Operator contact name, title, and Address:	Matthew Young, Senior Project Manager
	Email: myoung@cumberlandgulf.com
Estimated date of The Project Completion:	September 30, 2014
Category and Sub-Category:	Category I – Petroleum Related Site Remediation. Subcategory C. Petroleum Sites with Additional Contamination.
RGP Termination Date:	September 2015
Receiving Water:	Culvert Stream to Quinsigamond River

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

	Parameter	**Effluent Limit/Method#/ML** (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
√	1. Total Suspended Solids (TSS)	30 milligrams/liter (mg/L) **, 50 mg/L for hydrostatic testing ** Me#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)	5ug/L /50.0 ug/L for hydrostatic testing only/ Me#8260C/ML 2 ug/L
	6. Toluene (T)	(limited as ug/L total BTEX)/ Me#8260C/ ML 2ug/L
	7. Ethylbenzene (E)	(limited as ug/L total BTEX) Me#8260C/ ML 2ug/L
	8. (m,p,o) Xylenes (X)	(limited as ug/L total BTEX) Me#8260C/ ML 2ug/L
√	9. Total Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) [4]	100 ug/L/ Me#8260C/ ML 2ug/L

	Parameter	Effluent Limit/Method#/ML (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	10. Ethylene Dibromide (EDB) (1,2- Dibromoethane)	0.05 ug/l/ Me#8260C/ ML 10ug/L
√	11. Methyl-tert-Butyl Ether (MtBE)	70.0 ug/l/Me#8260C/ML 10ug/L
	12.tert-Butyl Alcohol (TBA) (TertiaryButanol)	Monitor Only(ug/L)/Me#8260C/ML 10ug/L
	13. tert-Amyl Methyl Ether (TAME)	Monitor Only(ug/L)/Me#8260C/ML 10ug/L
	14. Naphthalene [5]	20 ug/L /Me#8260C/ML 2ug/L
	15. Carbon Tetrachloride	4.4 ug/L /Me#8260C/ ML 5ug/L
	16. 1,2 Dichlorobenzene (o-DCB)	600 ug/L /Me#8260C/ ML 5ug/L
	17. 1,3 Dichlorobenzene (m-DCB)	320 ug/L /Me#8260C/ ML 5ug/L
	18. 1,4 Dichlorobenzene (p-DCB)	5.0 ug/L /Me#8260C/ ML 5ug/L
	18a. Total dichlorobenzene	763 ug/L - NH only /Me#8260C/ ML 5ug/L
	19. 1,1 Dichloroethane (DCA)	70 ug/L /Me#8260C/ ML 5ug/L
	20. 1,2 Dichloroethane (DCA)	5.0 ug/L /Me#8260C/ ML 5ug/L
	21. 1,1 Dichloroethene (DCE)	3.2 ug/L/Me#8260C/ ML 5ug/L
	22. cis-1,2 Dichloroethene (DCE)	70 ug/L/Me#8260C/ ML 5ug/L
	23. Methylene Chloride	4.6 ug/L/Me#8260C/ ML 5ug/L
	24. Tetrachloroethene (PCE)	5.0 ug/L/Me#8260C/ ML 5ug/L
	25. 1,1,1 Trichloro-ethane (TCA)	200 ug/L/Me#8260C/ ML 5ug/L
	26. 1,1,2 Trichloro-ethane (TCA)	5.0 ug/L /Me#8260C/ ML 5ug/L
	27. Trichloroethene (TCE)	5.0 ug/L /Me#8260C/ ML 5ug/L
	28. Vinyl Chloride (Chloroethene)	2.0 ug/L /Me#8260C/ ML 5ug/L
	29. Acetone	Monitor Only(ug/L)/Me#8260C/ML 50ug/L
	30. 1,4 Dioxane	Monitor Only /Me#1624C/ML 50ug/L
	31. Total Phenols	300 ug/L Me#420.1&420.2/ML 2 ug/L/ Me# 420.4 /ML 50ug/L
	32. Pentachlorophenol (PCP)	1.0 ug/L /Me#8270D/ML 5ug/L,Me#604 &625/ML 10ug/L
	33. Total Phthalates (Phthalate esters) [6]	3.0 ug/L ** /Me#8270D/ML 5ug/L, Me#606/ML 10ug/L& Me#625/ML 5ug/L
	34. Bis (2-Ethylhexyl) Phthalate [Di- (ethylhexyl) Phthalate]	6.0 ug/L /Me#8270D/ML 5ug/L,Me#606/ML 10ug/L & Me#625/ML 5ug/L
	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

	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)
√	b. Benzo(a) Pyrene [7]	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
√	c. Benzo(b)Fluoranthene [7]	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
√	d. Benzo(k)Fluoranthene [7]	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
√	e. Chrysene [7]	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
√	f. Dibenzo(a,h)anthracene [7]	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML 5ug/L
√	g. Indeno(1,2,3-cd) Pyrene [7]	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L& Me#625/ML5ug/L
	36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	100 ug/L
	h. Acenaphthene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	i. Acenaphthylene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	j. Anthracene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	k. Benzo(ghi) Perylene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	l. Fluoranthene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	m. Fluorene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	n. Naphthalene [5]	20 ug/l / Me#8270/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	o. Phenanthrene	X/Me#8270D/ML 5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	p. Pyrene	X/Me#8270D/ML5ug/L,Me#610/ML 5ug/L & Me#625/ML 5ug/L
	37. Total Polychlorinated Biphenyls (PCBs) [8, 9]	0.000064 ug/L/Me# 608/ ML 0.5 ug/L
√	38. Chloride	Monitor only/Me# 300.0/ ML 100 ug/L

	Metal parameter	Total Recoverable Metal Limit @ H [10]= 50 mg/l CaCO3 for discharges in Massachusetts (ug/l) [11/12]	Minimum level=ML
		Freshwater	
	39. Antimony	5.6/ML 10	
	40. Arsenic **	10/ML20	

	Metal parameter	Total Recoverable Metal Limit @ H [10]= 50 mg/l CaCO3 for discharges in Massachusetts (ug/l) [11/12]		Minimum level=ML	
		Freshwater			
	41. Cadmium **	0.2		ML10	
	42. Chromium III (trivalent) **	48.8		ML15	
	43. Chromium VI (hexavalent) **	11.4		ML10	
	44. Copper **	5.2		ML15	
√	45. Lead **	1.3		ML20	
	46. Mercury **	0.9		ML02	
	47. Nickel **	29		ML20	
	48. Selenium **	5		ML20	
	49. Silver	1.2		ML10	
	50. Zinc **	66.6		ML15	
√	51. Iron	1,000		ML 20	

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

Footnotes:

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

[2] Limits for cyanide are based on EPA's water quality criteria expressed as micrograms per liter. There is currently no EPA approved test method for free cyanide. Therefore, total cyanide must be reported.
[3] Although the maximum values for cyanide are 5.2 ug/l and 1.0 ug/l for freshwater and saltwater, respectively, the compliance limits are equal to the minimum level (ML) of the Method 335.4 as listed in Appendix VI (i.e., 10 ug/l).
[4] BTEX = sum of Benzene, Toluene, Ethylbenzene, and total Xylenes.
[5] Naphthalene can be reported as both a purgeable (VOC) and extractable (SVOC) organic compound. If both VOC and SVOC are analyzed, the highest value must be used unless the QC criteria for one of the analyses is not met. In such cases, the value from the analysis meeting the QC criteria must be used.
[6] The sum of individual phthalate compounds(not including the #34, Bis (2-Ethylhexyl) Phthalate . The compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.
Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measurement of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.
[7] Although the maximum value for the individual PAH compounds is 0.0038 ug/l, the compliance limits are equal to the minimum level (ML) of the test method used as listed in Appendix VI.
[8] In the November 2002 WQC, EPA has revised the definition of Total PCBs for aquatic life as total PCBs is the sum of all homologue, all isomer, all congener, or all "Oroclor analyses."Total values calculated for reporting on NOIs and discharge monitoring reports shall be calculated by adding the measured concentration of each constituent. If the measure of a constituent is less than the ML, the permittee shall use a value of zero for that constituent. For each test, the permittee shall also attach the raw data for each constituent to the discharge monitoring report, including the minimum level and minimum detection level for the analysis.
[9]Although the maximum value for total PCBs is 0.000064 ug/l, the compliance limit is equal to the minimum level (ML) of the test method used as listed in Appendix VI (i.e., 0.5 ug/l for Method 608 or 0.00005 ug/l when Method 1668a is approved).
[10] Hardness. Cadmium, Chromium III, Copper, Lead, Nickel, Silver, and Zinc are Hardness Dependent.
[11] For a Dilution Factor (DF) from 1 to 5, metals limits are calculated using DF times the base limit for the metal. See Appendix IV. For example, iron limits are calculated using DF x 1,000ug/L (the iron base limit). Therefore DF is 1.5, the iron limit will be 1,500 ug/L; DF 2, then iron limit =1,000 x 2 =2,000 ug/L., etc. not to exceed the DF=5.
[12] Minimum Level (ML) is the lowest level at which the analytical system gives a recognizable signal and acceptable calibration point for the analyte. The ML represents the lowest concentration at which an analyte can be measured with a known level of confidence. The ML is calculated by multiplying the laboratory-determined method detection limit by 3.18 (see 40 CFR Part 136, Appendix B).
[13] pH sampling for compliance with permit limits may be performed using field methods as provided for in EPA test Method 150.1.
[14] Temperature sampling per Method 170.1

ecs
WHERE BUSINESS AND THE ENVIRONMENT CONVERGE

997 Millbury Street, Unit G, Worcester, MA 01607 tel 508.756.0151 fax 508.757.7063 www.ecsconsult.com

May 2, 2014
Project No. 03-220304

Mr. Victor Alvarez
U.S. Environmental Protection Agency
EPA-Region 1
5 Post Office Square
Mail Code OEP06-4
Boston, MA 02109-3912

RE: Notice of Intent for Remediation General Permit
Cumberland Farms Inc.
217 Worcester Street
Grafton, MA 01519

Dear Mr. Alvarez:

Environmental Compliance Services, Inc. (ECS) is pleased to provide supporting documentation for the Notice of Intent (NOI) for the Remediation General Permit (RGP) on behalf of Cumberland Farms, Inc. (CFI), for the above-referenced property. This NOI is being submitted in order to obtain a permit for the operation of a temporary groundwater recovery and treatment system (GWTS) at the Site. The GWTS is required to be operated at the Site in order to allow for the installation of new petroleum underground storage tanks (USTs) during site redevelopment. A Site Locus is provided as Figure 1, a Site Grading and Drainage Plan as Figure 2, and a Boundary and Topographic Survey Plan depicting the dewatering discharge location is provided as Figure 2A. A Flow Schematic of the dewatering treatment plan is included as Figure 3. A copy of the NOI form is provided as Attachment I.

System Design

Groundwater treatment will occur prior to discharge to the storm water manhole located along the northern property boundary. A plan detailing the location of the new UST system is depicted on Figure 2, and the proposed storm water manhole discharge location is depicted on Figure 2A.

The groundwater treatment system located on the Site will be composed of the following:

Submersible pneumatic pumps that collect groundwater from the UST excavation area, then recovered groundwater will be pumped into a 20,000 gallon frac tank (to settle out solids) and then processed through particulate filters and two-1,000 lbs. liquid phase granular activated carbon (GAC) units for the treatment of recovered liquids. A line diagram of the groundwater treatment system is provided as Figure 3.

The proposed discharge location for treated groundwater is a catch basin (CB-1) located on the northern boundary of the subject property along the shoulder of Worcester Street (Route 122). This storm water catch basin (CB-1) discharges to a storm water drainage culvert running underneath Worcester Street. The storm water drainage culvert discharges into an unnamed stream located north of Worcester Street. This stream discharges into Hovey Pond located approximately 3,000 feet northeast of the Site property boundary. Hovey Pond ultimately discharges to the Quinsigamond River located approximately 3,000 feet east of the Site. Please refer to Figure 1 for a depiction of the unnamed stream located north of the property as well as Hovey Pond and Quinsigamond River.

Average flow rate of discharge of treated groundwater from the system to the storm water line is expected to be approximately 50 gallons per minute (gpm). The design capacity of the groundwater treatment system is 75 gpm based upon data collected from comparable systems installed at other remedial sites operated/designed by ECS.

Influent Sample Analysis

Groundwater samples were collected from monitoring well MW-3 on April 10, 2014. These samples were submitted to Spectrum Analytical, Inc. of Agawam, Massachusetts under standard chain of custody protocol for analysis of extractable petroleum hydrocarbons (EPH) by MassDEP method, volatile organic compounds (VOCs) by USEPA Method 8260B, total metals (iron and lead) by USEPA Method 200.7, polychlorinated byphenyls (PCBs) and total suspended solids by SM2540D. A copy of the laboratory report and chains of custody record are provided as Attachment II.

Appendix III of the 2010 RGP under NPDES sets the effluent limitations for treatment system discharges. Groundwater analytical results of the samples collected from MW-3 on April 10, 2014 were compared to the Appendix III effluent limitations (www.epa.gov/region1/npdes/rgp.html). These results indicate that the petroleum constituents (i.e., benzene, total benzene, toluene, ethylbenzene, and xylenes (BTEX), methyl tert butyl ether (MTBE), and naphthalene) were not detected in the sample at concentrations above the applicable Appendix III effluent limitations for Subcategory A-Petroleum Sites with additional contamination.

Receiving Waters Information

The receiving water for the treated groundwater discharge is the Quinsigamond River, located approximately 3,000 feet east of the Site. ECS consulted the online United States Geological Survey (USGS) Streamstats program to determine the 7Q10 flow rate at the discharge location (http://ma.water.usgs.gov/streamstats/, accessed April 30, 2014). Data obtained from the online resource indicated that the 7Q10 flow rate for the Quinsigamond River at USGS station #01110100 (approximately 2,000 feet east of the Site) is 7.8 cubic feet per second (cfs). Based on data available, ECS calculated a 7Q10 flow rate for this area to be 468 cubic feet per minute.

Receiving Water Classification

ECS consulted the Massachusetts Department of Environmental Protection (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. The Quinsigamond River is listed as Class B surface water.

Evaluation of Threatened or Endangered Species or Critical Habitat Located within Receiving Waters

According to Massachusetts Geographic Information Systems (MassGIS) online maps for the Natural Heritage Endangered Species Program (NHESP) (2008), no Priority Habitat of Rare Species or Estimated Habitats of Rare Wildlife are located within the proposed at or immediately adjacent to the work zone area. The closest NHESP Estimated Habitats of Rare Wildlife in Wetland Areas Protected Open Spaces are located approximately 3,000 feet east of the Site. Given the fact there will be an on-site dewatering treatment system, the potential discharge will not have an adverse affect on the NHESP Estimated Habitats of Rare Wildlife. A copy of the MassGIS Resource Priority and NHESP Maps of the Site area is included in Attachment III.

Review of National Register of Historic Places

Listings of Historic Places within the Town of Grafton in the vicinity of the Site were obtained from the Massachusetts Cultural Resources Information System (MACRIS) online database at http://mhc-macris.net/towns.aspx (accessed April 23, 2014). Copies of the MACRIS report are provided as Attachment IV. The database indicated that there are no historic places located in close proximity to the Site and proposed discharge area. This project does not involve the demolition or rehabilitation of historic properties.

Lastly, discharges in Massachusetts under the RGP are subject to MassDEP application form BRP WM 12 and a payment fee of $950.00. A copy of the MassDEP application form BRP WM 12 and payment check are included in Attachment V.

Should you have any questions or concerns regarding the contents of this letter or the NOI for the RGP, please do not hesitate to contact the undersigned at (508) 756-0151.

Sincerely,
ENVIRONMENTAL COMPLIANCE SERVICES, INC.

Michael C. Bricher, P.G., LSP
Senior Project Manager

cc: Matthew Young, Cumberland Farms, Inc., 100 Crossing Blvd, Framingham, MA 01702
Robert Kubit, MassDEP, Division of Watershed Management, 627 Main Street, Worcester, MA 01608
William M. Clougherty, P.E., MassDOT Highway Division, District 3, 403 Belmont Street, Worcester, MA 01604
David Crouse, Highway Superintendant, Town of Grafton Highway Department, 27 Upton Street, Grafton, MA 01519

LIST OF ATTACHMENTS

Figures
Figure 1: Site Locus
Figure 2: Site Grading and Drainage Plan
Figure 2A: Boundary and Topographic Survey Plan
Figure 3: Flow Schematic

Attachment I: NOI for the RGP
Attachment II: Laboratory Analytical Reports and Chain of Custody Records
Attachment III: On-line MassGIS Resource Priority & NHESP Maps
Attachment IV: MACRIS Database Search Results
Attachment V: BRP WM 12 Transmittal Form and Copy of Fee Payment

FIGURES

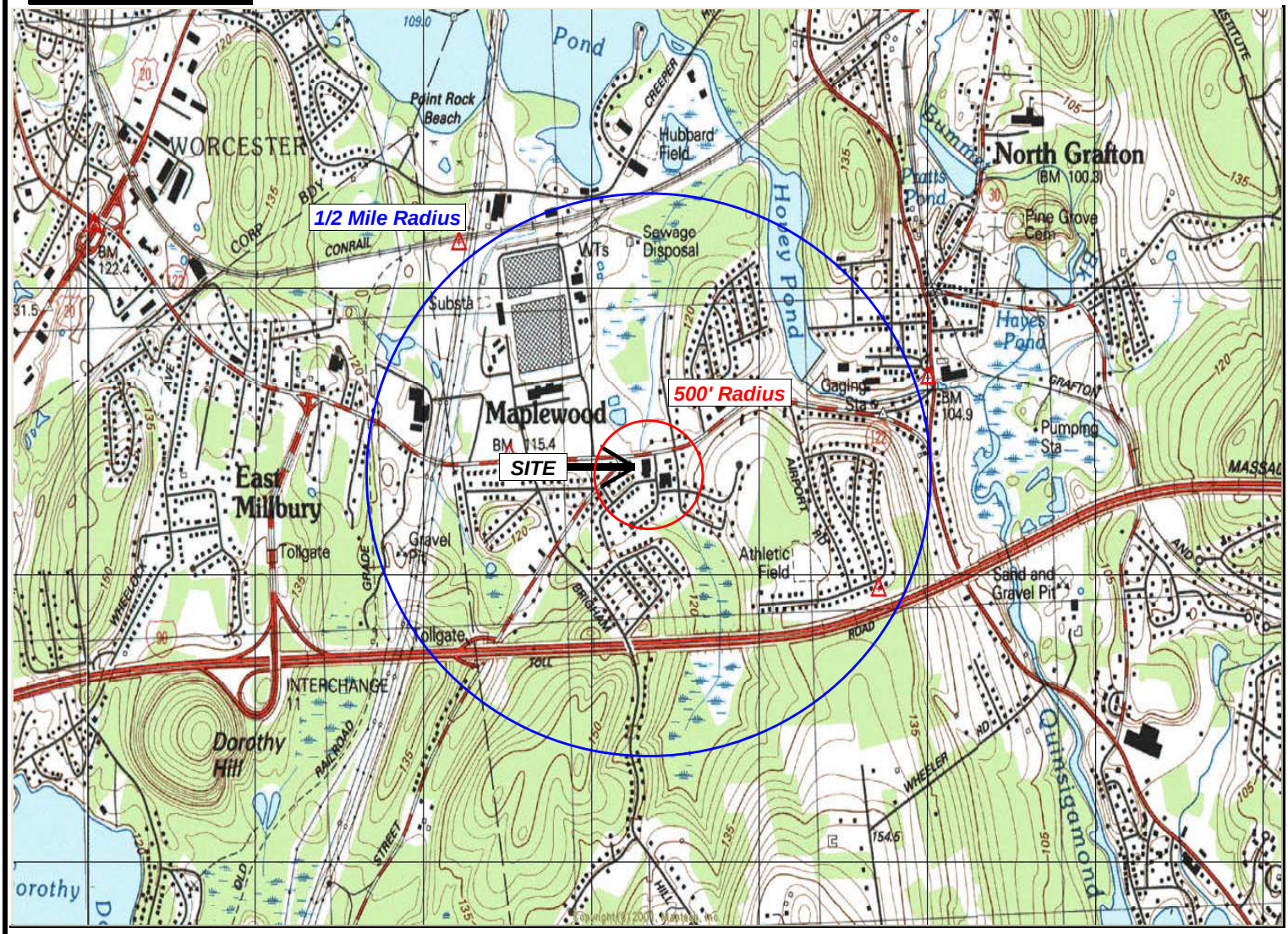
Environmental Compliance Services, Inc.
588 Silver Street, Agawam, MA 01001
Phone (413)-789-3530 Fax (413)-789-2776
www.ecsconsult.com

SITE LOCUS

Figure: 1

217 Worcester St
Grafton, MA

Job Number: 01-220304



1 1/2 0 1 Mile

1 inch = 1500 feet

Contour Interval: 3 Meters

North

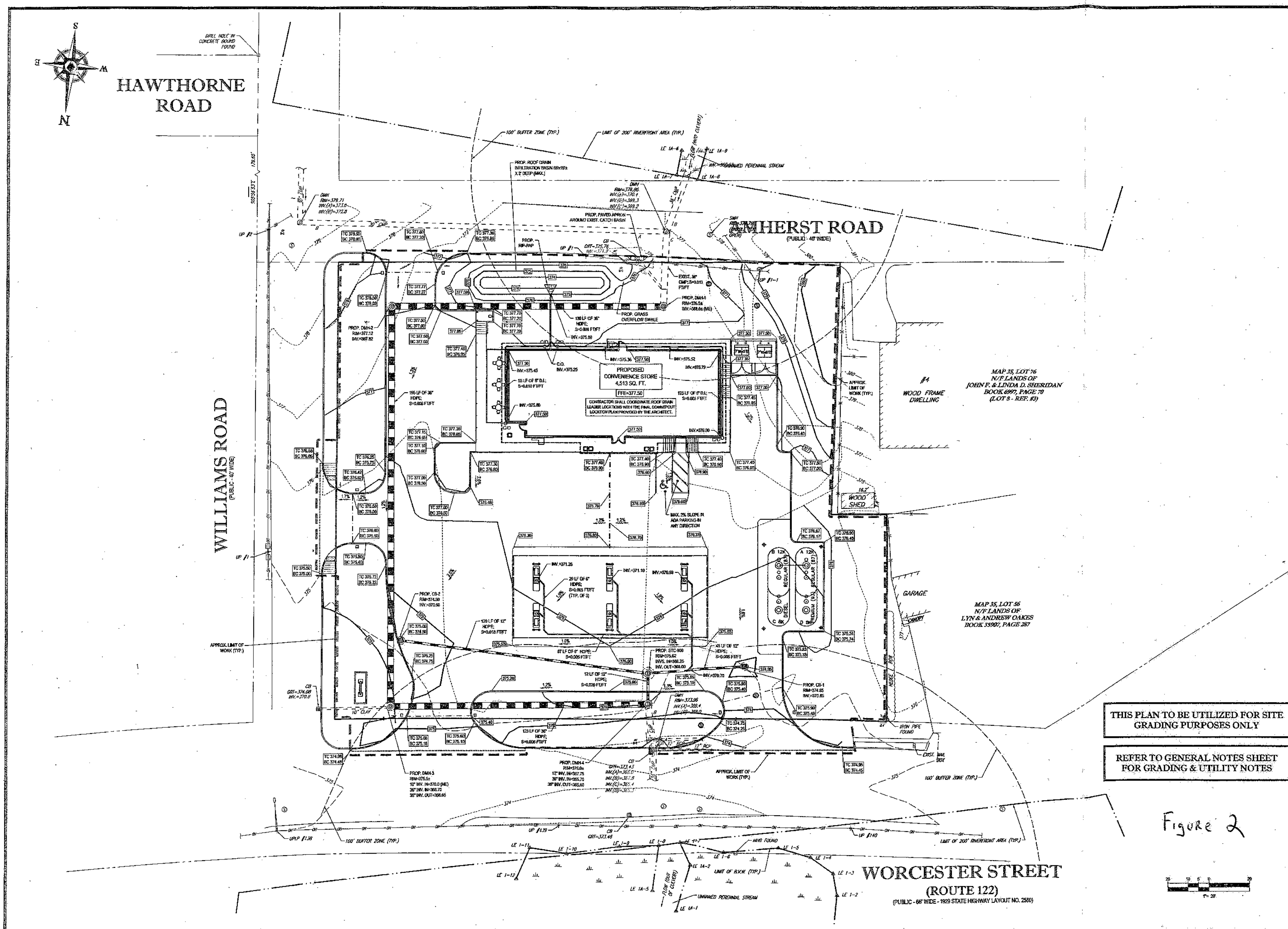
Base Map: U.S. Geological Survey; Quadrangle Location: Milford, MA

Latitude and Longitude: 42d 13" 41.20' North / 71d 43" 20.09' West

Map Edited: 1982

Map Revised:

Generated By: CEF



BOHLER ENGINEERING

CIVIL & CONSULTING ENGINEERS
SURVEYORS
PROJECT MANAGERS
ENVIRONMENTAL CONSULTANTS
LANDSCAPE ARCHITECTS

CORPORATE OFFICE:
♦ WARREN, NJ
OFFICES:
♦ SOUTHBOROUGH, MA ♦ BOWIE, MD ♦ TOWSON, MD ♦ ALBANY, NY ♦ RONKONKOMA, NY ♦ CENTER VALLEY, PA
♦ CHALFONT, PA ♦ PHILADELPHIA, PA ♦ STERLING, VA ♦ WARRENTON, VA ♦ FORT LAUDERDALE, FL ♦ TAMPA, FL

REVISIONS

REV	DATE	COMMENT	BY
1	7/31/13	CFI COMMENTS	MNB
2	8/13/13	WETLAND DELINEATIONS	MNB
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			

PERMIT SET

PROJECT No.:	W131041
DRAWN BY:	CFD/MNB
CHECKED BY:	LMD
DATE:	06/26/2013
SCALE:	AS NOTED
CAD I.D.:	W131041SS2

PROJECT:
SITE PLAN DOCUMENTS
FOR
Cumberland FARMS
MAP #35, LOT #54
217 WORCESTER STREET
(ROUTE 122)
TOWN OF GRAFTON
WORCESTER COUNTY
MASSACHUSETTS

PREPARED FOR:
GERSHMAN BROWN CROWLEY, INC.
14 BREAKNECK HILL RD., SUITE 101
LINCOLN, RI 02865

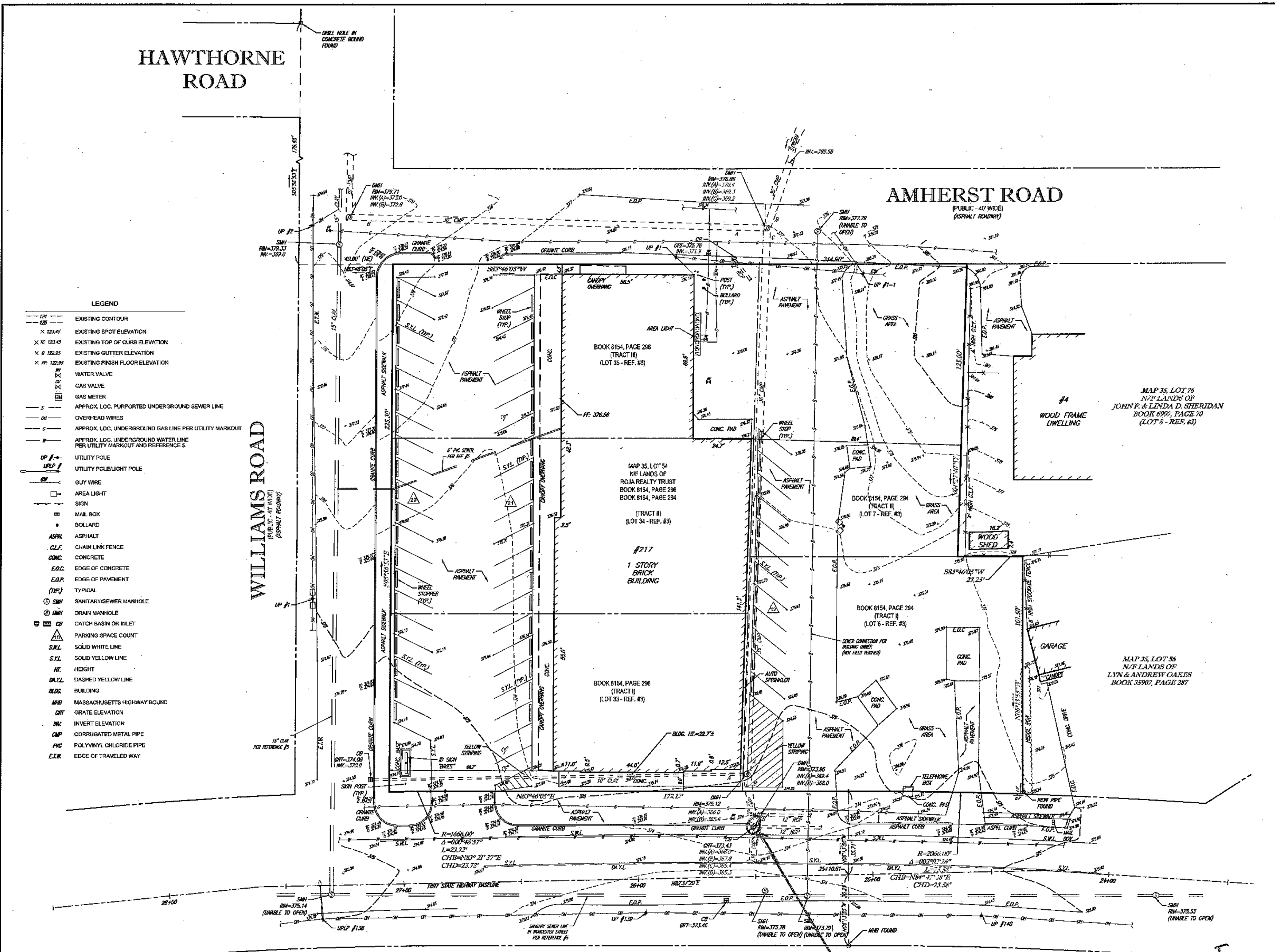
BOHLER ENGINEERING
352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
Phone: (508) 480-9900
Fax: (508) 480-9080
www.BohlerEngineering.com

S.P. DESOURSEY
PROFESSIONAL ENGINEER
VERMONT LICENSE No. 7110
CONNECTICUT LICENSE No. 23862
RHODE ISLAND LICENSE No. 7990

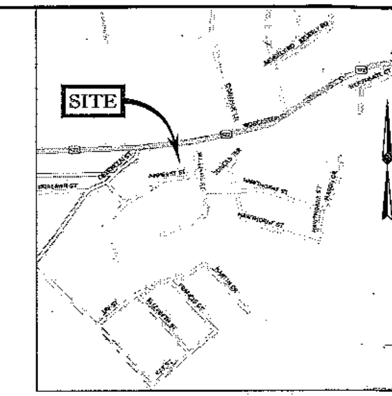
SHEET TITLE:
SITE GRADING & DRAINAGE PLAN

SHEET NUMBER:
CFG5.0

REV 2 - 08/13/2013



HAWTHORNE ROAD
AMHERST ROAD
(PUBLIC - 40' WIDE)
(ASPHALT ROADWAY)
WILLIAMS ROAD
WORCESTER STREET
(PUBLIC - 66' WIDE - 1929 STATE HIGHWAY LAYOUT NO. 2580)
MAP 35, LOT 54
N/F LANDS OF
ROJA REALTY TRUST
BOOK 8154, PAGE 298
BOOK 8154, PAGE 294
#217
1 STORY
BRICK
BUILDING
MAP 35, LOT 76
N/F LANDS OF
JOHN F. & LINDA D. SHERIDAN
BOOK 6997, PAGE 70
MAP 35, LOT 56
N/F LANDS OF
LYN & ANDREW OAKES
BOOK 35907, PAGE 287
#4
WOOD FRAME
DWELLING
WOOD SHED
GARAGE
LEGEND
EXISTING CONTOUR
EXISTING SPOT ELEVATION
EXISTING TOP OF CURB ELEVATION
EXISTING GUTTER ELEVATION
EXISTING FINISH FLOOR ELEVATION
WATER VALVE
GAS VALVE
GAS METER
OVERHEAD WIRES
UTILITY POLE
UTILITY POLE/LIGHT POLE
GUY WIRE
AREA LIGHT
SIGN
MAIL BOX
BOLLARD
ASPHALT
CHAIN LINK FENCE
CONCRETE
EDGE OF CONCRETE
EDGE OF PAVEMENT
TYPICAL
SANITARY/SEWER MANHOLE
DRAIN MANHOLE
CATCH BASIN OR INLET
PARKING SPACE COUNT
SOLID WHITE LINE
SOLID YELLOW LINE
HEIGHT
DASHED YELLOW LINE
BUILDING
MASSACHUSETTS HIGHWAY BOUND
GRATE ELEVATION
INVERT ELEVATION
CORRUGATED METAL PIPE
POLYVINYL CHLORIDE PIPE
EDGE OF TRAVELED WAY
PROPOSED DISCHARGE
LOCATION
(CB-1)
GRAPHIC SCALE
(IN FEET)
1 inch = 20 ft.



VICINITY MAP

© 2008 DeLorme. Street Atlas USA

Figure 2A

ZONING INFORMATION
COMMUNITY BUSINESS DISTRICT (CB)
SOURCE: PER CUMBERLAND/GULF GROUP
PRELIMINARY ZONING ANALYSIS

ITEMS	REQUIRED
MIN. LOT AREA	40,000 S.F.
MIN. FRONTAGE	140 FT.
MIN. FRONT YARD SETBACK	40 FT.
MIN. SIDE YARD SETBACK	15 FT.
MIN. REAR YARD SETBACK	15 FT.
MAX. BUILDING COVERAGE	30%
MAX. BUILDING HEIGHT	35 FT.

NOTE: ZONING CRITERIA IDENTIFIED HEREON ARE BASED UPON PRELIMINARY INVESTIGATION AND PRESENTED FOR REFERENCE ONLY. SAME MUST BE CONFIRMED WITH LOCAL ZONING OFFICIAL AND LEGAL COUNSEL TO CONFIRM VALIDITY.

NOTES:

1. PROPERTY KNOWN AS LOT 54, MAP 35, TOWN OF GRAFTON, WORCESTER COUNTY, COMMONWEALTH OF MASSACHUSETTS.
2. AREA = 57,395 SQ. FT. OR 1.318 ACRES.
3. LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE. LOCATIONS AND SIZES ARE BASED ON UTILITY MARK-OUTS, ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD, AND THE MAPS AS LISTED IN THE REFERENCES AVAILABLE AT THE TIME OF THE SURVEY. AVAILABLE AS-BUILT PLANS AND UTILITY MARKOUT DOES NOT ENSURE MAPPING OF ALL UNDERGROUND UTILITIES AND STRUCTURES. BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATION, SIZE AND TYPE BY THE PROPER UTILITY COMPANIES. CONTROL POINT ASSOCIATES, INC. DOES NOT GUARANTEE THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED.
4. THIS PLAN IS BASED ON INFORMATION PROVIDED BY A SURVEY PREPARED IN THE FIELD BY CONTROL POINT ASSOCIATES, INC. AND OTHER REFERENCE MATERIAL AS LISTED HEREON.
5. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO THE RESTRICTIONS, COVENANTS AND/OR EASEMENTS THAT MAY BE CONTAINED THEREIN.
6. BY GRAPHIC PLOTTING ONLY PROPERTY IS LOCATED IN FLOOD HAZARD ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) PER REF. #2.
7. ELEVATIONS ARE BASED UPON NAVD 88, REFERENCE BENCHMARK: NGS DISK" N38," ELEVATION=377.81 (NGVD 88).
8. THE OFFSETS SHOWN ARE NOT TO BE USED FOR THE CONSTRUCTION OF ANY STRUCTURE, FENCE, PERMANENT ADDITION, ETC.

REFERENCES:

1. THE TAX ASSESSOR'S MAP OF TOWN OF GRAFTON, WORCESTER COUNTY, MASSACHUSETTS, MAP NO. 35.
2. MAP ENTITLED "NATIONAL FLOOD INSURANCE PROGRAM, FIRM, FLOOD INSURANCE RATE MAP, WORCESTER COUNTY, MASSACHUSETTS, (ALL JURISDICTIONS), PANEL 826 OF 1075," MAP NUMBER 25027C0826E, EFFECTIVE DATE: JULY 4, 2011.
3. MAP ENTITLED "PROPOSED DEVELOPMENT OF LAND IN GRAFTON, MASS. BY THE HENLEY-LUNDGREN CO.," DATED: APRIL 1946, REVISED: MAY 1946, FILED IN THE WORCESTER DISTRICT REGISTRY OF DEEDS IN PLAN BOOK 146, PLAN 36.
4. MAP ENTITLED "GRAFTON - 1929 ALTERATION," LAYOUT NO. 2580, SHEETS 2 & 3 OF 15.
5. SEWER FACILITY MAPPING AND TIE CARDS PROVIDED BY THE GRAFTON SEWER DEPARTMENT ON MAY 2, 2013.
6. WATER FACILITY TIE CARD PROVIDED BY THE GRAFTON WATER DISTRICT ON MAY 2, 2013.
7. GAS FACILITY MAPPING PROVIDED BY NSTAR GAS ON MAY 2, 2013.

UTILITIES:

THE FOLLOWING COMPANIES WERE NOTIFIED BY MASSACHUSETTS ONE-CALL SYSTEM (1-888-344-7233) AND REQUESTED TO MARK OUT UNDERGROUND FACILITIES AFFECTING AND SERVICING THIS SITE. THE UNDERGROUND UTILITY INFORMATION SHOWN HEREON IS BASED UPON THE UTILITY COMPANIES RESPONSE TO THIS REQUEST. SERIAL NUMBER(S): 20131812709

UTILITY COMPANY	PHONE NUMBER
NSTAR GAS	800-592-2000
VERIZON	508-767-0900
NATIONAL GRID ELECTRIC-MASS ELEC	800-322-3223
ON TARGET LOCATING	508-429-1002
INNOVATIVE DATA MANAGEMENT	888-664-5577

STOP - CALL BEFORE YOU DIG!

THE COMMONWEALTH OF MASSACHUSETTS REQUIRES NOTIFICATION BY EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE.

THIS SURVEY HAS BEEN PERFORMED IN THE FIELD UNDER MY SUPERVISION, AND TO THE BEST OF MY KNOWLEDGE, BELIEF, AND INFORMATION, THIS SURVEY HAS BEEN PERFORMED IN ACCORDANCE WITH CURRENTLY ACCEPTED ACCURACY STANDARDS.

NOT A VALID ORIGINAL DOCUMENT UNLESS EMBOSSED WITH RAISED IMPRESSION OR STAMPED WITH A BLUE INK SEAL

A. JOHN LLOYD — DATE

MASSACHUSETTS PROFESSIONAL LAND SURVEYOR #38395

FIELD DATE	5-19-13
FIELD BOOK NO.	12-37
FIELD BOOK PG.	141-142
FIELD CREW	B.S.B.
DRAWN:	IDV_VW

Cumberland FARMS

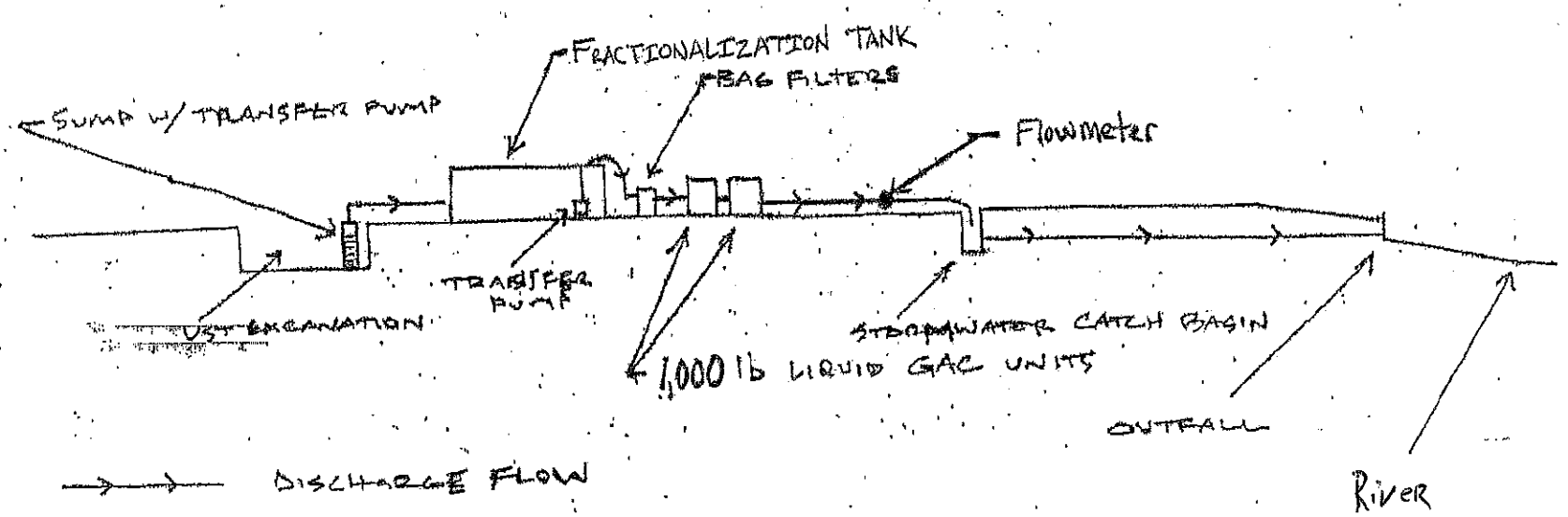
BOUNDARY & TOPOGRAPHIC SURVEY
217 WORCESTER STREET
LOT 54, MAP 35
TOWN OF GRAFTON
WORCESTER COUNTY
COMMONWEALTH OF MASSACHUSETTS

CONTROL POINT ASSOCIATES, INC.
352 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772
508.948.3000 - 508.948.3003 FAX
WARREN, NJ 908.668.0099
CHALFONT, PA 215.712.9800

REVIEWED:	APPROVED:	DATE	SCALE	FILE NO.	DWG. NO.
R.G.B.	A.J.L.	05-29-13	1"=20'	CM13071	1 OF 1

CONTROL POINT ASSOCIATES, INC. - ALL RIGHTS RESERVED

Flow Schematic - Figure 3



ATTACHMENT I

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**: Cumberland Farms Inc.		**Facility/site** mailing address:		
Location of **facility/site**: longitude: 714320 latitude: 421341	Facility SIC code(s): 7549	Street: 217 Worcester Street		
b) Name of **facility/site owner:**		Town: Grafton		
Email address of facility/site owner: myoung@cumberlandgulf.com		State: MA	Zip: 01519	County: Worcester South
Telephone no. of facility/site **owner**: 508-270-4477				
Fax no. of facility/site **owner**: 781-459-0454		**Owner** is (check one): 1. Federal ○ 2. State/Tribal ○ 3. Private ◉ 4. Other ○ if so, describe:		
Address of **owner** (if different from site):				
Street: 100 Crossing Boulevard				
Town: Framingham	State: MA	Zip: 01702	County: Middlesex	
c) Legal name of **operator**: Cumberland Farms, Inc.	**Operator** telephone no: 508-270-4477			
	Operator fax no.: 781-459-0454	**Operator** email: myoung@cumberlandgulf.co		
Operator contact name and title: Matthew Young, Senior Project Manager				
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:
2. permit or license # assigned:
3. state agency contact information: name, location, and telephone number:

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

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

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

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:

The site is being redeveloped as a petroleum station and will require the installation of underground fuel storage tanks. Site dewatering will be necessary to perform these UST installation activities. The discharge will be associated with the dewatering activities.

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: 0.168 Is maximum flow a **design value**? Y ○ N ◉
Average flow (include units) 0.0117 cubic ft/s Is average flow a design value or estimate? Estimate

3) Latitude and longitude of each discharge within 100 feet:
pt.1: lat. 421341 long. 714320 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 6/1/2014 end 9/30/2014

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). Flow Schematic is attached.

3. Contaminant information.

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

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
1. Total Suspended Solids (TSS)		☐	☒	1	Grab	SM2540D	5,000	114,000	31.1	114,000	31.1
2. Total Residual Chlorine (TRC)		☒	☐								
3. Total Petroleum Hydrocarbons (TPH)		☒	☐	1	Grab	EPH	116	<116	0	<116	0
4. Cyanide (CN)	57125	☒	☐								
5. Benzene (B)	71432	☒	☐	1	Grab	8260	1.0	<1.0	0	<1.0	0
6. Toluene (T)	108883	☒	☐	1	Grab	8260	1.0	<1.0	0	<1.0	0
7. Ethylbenzene (E)	100414	☒	☐	1	Grab	8260	1.0	<1.0	0	<1.0	0
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207	☒	☐	1	Grab	8260	1.0	<3.0	0	<3.0	0
9. Total BTEX [2]	n/a	☒	☐	1	Grab	8260/	1.0	<6.0	0	<6.0	0
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) [3]	106934	☒	☐	1	Grab	8260	0.5	<0.5	0	<0.5	0
11. Methyl-tert-Butyl Ether (MtBE)	1634044	☐	☒	1	Grab	8260	1.0	1.79	0.0004	1.79	0.0004
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650	☒	☐	1	Grab	8260	1.0	<1.0	0	<1.0	0

***** 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	8260	1.0	<1.0	0	<1.0	0
14. Naphthalene	91203	☒	☐	1	Grab	8260	1.0	<1.0	0	<1.0	0
15. Carbon Tetrachloride	56235	☒	☐	1	Grab	8260	1.0	<1.0	0	<1.0	0
16. 1,2 Dichlorobenzene (o-DCB)	95501	☒	☐	1	Grab	8260	1.0	<1.0	0	<1.0	0
17. 1,3 Dichlorobenzene (m-DCB)	541731	☒	☐	1	Grab	8260	1.0	<1.0	0	<1.0	0
18. 1,4 Dichlorobenzene (p-DCB)	106467	☒	☐	1	Grab	8260	1.0	<1.0	0	<1.0	0
18a. Total dichlorobenzene		☒	☐	1	Grab	8260	1.0	<1.0	0	<1.0	0
19. 1,1 Dichloroethane (DCA)	75343	☒	☐	1	Grab	8260	1.0	<1.0	0	<1.0	0
20. 1,2 Dichloroethane (DCA)	107062	☒	☐	1	Grab	8260	1.0	<1.0	0	<1.0	0
21. 1,1 Dichloroethene (DCE)	75354	☒	☐	1	Grab	8260	1.0	<1.0	0	<1.0	0
22. cis-1,2 Dichloroethene (DCE)	156592	☒	☐	1	Grab	8260	1.0	<1.0	0	<1.0	0
23. Methylene Chloride	75092	☒	☐	1	Grab	8260	1.0	<1.0	0	<1.0	0
24. Tetrachloroethene (PCE)	127184	☒	☐	1	Grab	8260	1.0	<1.0	0	<1.0	0
25. 1,1,1 Trichloro-ethane (TCA)	71556	☒	☐	1	Grab	8260	1.0	<1.0	0	<1.0	0
26. 1,1,2 Trichloro-ethane (TCA)	79005	☒	☐	1	Grab	8260	1.0	<1.0	0	<1.0	0
27. Trichloroethene (TCE)	79016	☒	☐	1	Grab	8260	1.0	<1.0	0	<1.0	0

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
28. Vinyl Chloride (Chloroethene)	75014	☒	☐	1	Grab	8260	1.0	<1.0	0	<1.0	0
29. Acetone	67641	☒	☐	1	Grab	8260	10	<10	0	<10	0
30. 1,4 Dioxane	123911	☒	☐	1	Grab	8260	20	<20	0	<20	0
31. Total Phenols	108952	☒	☐	0							
32. Pentachlorophenol (PCP)	87865	☒	☐	0							
33. Total Phthalates (Phthalate esters) [4]		☒	☐	0							
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	117817	☒	☐	0							
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		☒	☐	0							
a. Benzo(a) Anthracene	56553	☒	☐	0							
b. Benzo(a) Pyrene	50328	☒	☐	0							
c. Benzo(b)Fluoranthene	205992	☒	☐	0							
d. Benzo(k)Fluoranthene	207089	☒	☐	0							
e. Chrysene	21801	☒	☐	0							
f. Dibenzo(a,h)anthracene	53703	☒	☐	0							
g. Indeno(1,2,3-cd) Pyrene	193395	☒	☐	0							
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		☒	☐	0							

[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	☒	☐	1	grab	EPH	5.81	<5.81	0	<5.81	0
i. Acenaphthylene	208968	☒	☐	1	grab	EPH	5.81	<5.81	0	<5.81	0
j. Anthracene	120127	☒	☐	1	grab	EPH	5.81	<5.81	0	<5.81	0
k. Benzo(ghi) Perylene	191242	☒	☐	1	grab	EPH	5.81	<5.81	0	<5.81	0
l. Fluoranthene	206440	☒	☐	1	grab	EPH	5.81	<5.81	0	<5.81	0
m. Fluorene	86737	☒	☐	1	grab	EPH	5.81	<5.81	0	<5.81	0
n. Naphthalene	91203	☒	☐	1	grab	EPH	5.81	<5.81	0	<5.81	0
o. Phenanthrene	85018	☒	☐	1	grab	EPH	5.81	<5.81	0	<5.81	0
p. Pyrene	129000	☒	☐	1	grab	EPH	5.81	<5.81	0	<5.81	0
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817.	☒	☐	1	grab	SW846 3510	0.233	<0.233	0	<0.233	0
38. Chloride	16887006	☒	☐	0							
39. Antimony	7440360	☒	☐	0							
40. Arsenic	7440382	☒	☐	0							
41. Cadmium	7440439	☒	☐	0							
42. Chromium III (trivalent)	16065831	☒	☐	0							
43. Chromium VI (hexavalent)	18540299	☒	☐	0							
44. Copper	7440508	☒	☐	0							
45. Lead	7439921	☒	☐	1	grab	6010C	7.5	<7.5	0	<7.5	0
46. Mercury	7439976	☒	☐	0							
47. Nickel	7440020	☒	☐	0							
48. Selenium	7782492	☒	☐	0							
49. Silver	7440224	☒	☐	0							
50. Zinc	7440666	☒	☐	0							
51. Iron	7439896	☐	☒	1	grab	6010C	15	1,380	0.37	1,380	0.37
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? Iron
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: 5 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: Iron

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 water from the UST excavation will be pumped into a frac tank for settling, then through two bag filter units in parallell, two 1,000 lbs liquid granular activated carbon vessels in series, and a flow meter prior to discharge to a MassDOT storm drainage manhole. The storm drain located adjacent to the Site on Route 122 is discharged to a culverted stream. This culverted stream discharges into Hovey Pond and ultimately into the Quinsigamond River.

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 50 gpm Maximum flow rate of treatment system 75 gpm
Design flow rate of treatment system 75 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:

The storm drain located adjacent to the Site on Route 122 is discharged to a culverted stream which subsequently discharges to the Quinsigamond River

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 Class B

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water 7.8 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)?

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.

Based on a review of the MassDEP Resource Priority Map and the MassGIS Priority Habitat and Estimated Habitat Natural Heritage and Endangered Species Program Map, no areas of priority or estimated habitats or rare species were identified at the Site/work zone area relative to the proposed discharge (see attached maps). Therefore, it was determined that Criterion A in Section 6 (a) was applicable.

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:	Cumberland Farms Inc.
Operator signature:	
Printed Name &Title:	Matthew D. Young Senior Project Manager
Date:	5/1/14

ATTACHMENT II

Report Date:
18-Apr-14 16:58

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

Environmental Compliance Services
997 Millbury Street, Unit G
Worcester, MA 01607
Attn: Matt Lyne

Project: CFI-Acquisition - Grafton, MA
Project #: 03-220304.02

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB87479-01	MW-3	Ground Water	10-Apr-14 14:58	11-Apr-14 15:00

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435

Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of Massachusetts for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of Massachusetts does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 27 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, NJ-MA012, PA-68-04426 and FL-E87936).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

The following outlines the condition of all EPH samples contained within this report upon laboratory receipt.

Matrices	Ground Water
Containers	✓ Satisfactory
Aqueous Preservative	N/A ✓ pH≤2 pH>2 pH adjusted to <2 in lab
Temperature	Received on ice ✓ Received at 4 ± 2 ºC

Were all QA/QC procedures followed as required by the EPH method? *Yes*
Were any significant modifications made to the EPH method as specified in Section 11.3? *No*
Were all performance/acceptance standards for required QA/QC procedures achieved? *Yes*

I attest 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.

Authorized by:

Nicole Leja
Laboratory Director

MassDEP Analytical Protocol Certification Form

Laboratory Name: Spectrum Analytical, Inc.	**Project #:** 03-220304.02
Project Location: CFI-Acquisition - Grafton, MA	**RTN:**
This form provides certifications for the following data set: SB87479-01	
Matrices: Ground Water	

CAM Protocol

✓ 8260 VOC CAM II A	7470/7471 Hg CAM III B	MassDEP VPH CAM IV A	8081 Pesticides CAM V B	7196 Hex Cr CAM VI B	MassDEP APH CAM IX A
8270 SVOC CAM II B	7010 Metals CAM III C	✓ MassDEP EPH CAM IV B	8151 Herbicides CAM V C	8330 Explosives CAM VIII A	TO-15 VOC CAM IX B
✓ 6010 Metals CAM III A	6020 Metals CAM III D	✓ 8082 PCB CAM V A	9012 Total Cyanide/PAC CAM VI A	9014 Total Cyanide/PAC CAM VI A	6860 Perchlorate CAM VIII B

Affirmative responses to questions A through F are required for "Presumptive Certainty" status

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

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

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

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

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

All negative responses are addressed in a case narrative on the cover page of this report.

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.

Nicole Leja
Laboratory Director
Date: 4/18/2014

CASE NARRATIVE:

Data has been reported to the RDL. This report excludes estimated concentrations detected below the RDL and above the MDL (J-Flag).

The samples were received 3.2 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

MADEP has published a list of analytical methods (CAM) which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of MCP decisions. "Presumptive Certainty" can be established only for those methods published by the MADEP in the MCP CAM. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method. Regulatory limits may not be achieved if specific method and/or technique was not requested on the Chain of Custody.

According to WSC-CAM 5/2009 Rev.1, Table 11 A-1, recovery for some VOC analytes have been deemed potentially difficult. Although they may still be within the recommended recovery range, a range has been set based on historical control limits.

Some target analytes which are not listed as exceptions in the Summary of CAM Reporting Limits may exceed the recommended RL based on sample initial volume or weight provided, % moisture content, or responsiveness of a particular analyte to purge and trap instrumentation.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

MADEP EPH 5/2004 R

Calibration:

1402014

Analyte quantified by quadratic equation type calibration.

Benzo (a) pyrene
Dibenzo (a,h) anthracene
Indeno (1,2,3-cd) pyrene

This affected the following samples:

S401318-ICV2

Laboratory Control Samples:

1408042 BSD

Benzo (b) fluoranthene RPD 30% (25%) is outside individual acceptance criteria.

Benzo (g,h,i) perylene RPD 28% (25%) is outside individual acceptance criteria.

Dibenzo (a,h) anthracene RPD 30% (25%) is outside individual acceptance criteria.

Indeno (1,2,3-cd) pyrene RPD 28% (25%) is outside individual acceptance criteria.

SW846 6010C

Blanks:

1408184-BLK1

SW846 6010C

Blanks:

1408184-BLK1

The method blank contains analyte at a concentration above the MRL; however, concentration is less than 10% of the sample result, which is negligible according to method criteria.

Iron

Spikes:

1408184-MSD1 *Source: SB87479-01*

The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.

Iron

SW846 8260C

Calibration:

1404004

Analyte quantified by quadratic equation type calibration.

1,1,2,2-Tetrachloroethane
1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,2-Dibromo-3-chloropropane
1,3,5-Trimethylbenzene
1,4-Dioxane
2-Hexanone (MBK)
4-Methyl-2-pentanone (MIBK)
Bromoform
Carbon tetrachloride
cis-1,3-Dichloropropene
Dibromochloromethane
Naphthalene
n-Butylbenzene
sec-Butylbenzene
trans-1,3-Dichloropropene
trans-1,4-Dichloro-2-butene

This affected the following samples:

1408067-BLK1
1408067-BS1
1408067-BSD1
MW-3
S403289-ICV1
S403825-CCV1

Laboratory Control Samples:

1408067 BS/BSD

1,1,1-Trichloroethane percent recoveries (131/124) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

MW-3

2,2-Dichloropropane percent recoveries (133/119) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

MW-3

SW846 8260C

Laboratory Control Samples:

1408067 BS/BSD

Dichlorodifluoromethane (Freon12) percent recoveries (131/114) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

MW-3

Trichlorofluoromethane (Freon 11) percent recoveries (132/127) are outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

MW-3

Samples:

S403825-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

1,1,1,2-Tetrachloroethane (25.1%)
1,1,1-Trichloroethane (36.5%)
1,1,2-Trichlorotrifluoroethane (Freon 113) (32.7%)
1,1-Dichloroethene (25.5%)
2,2-Dichloropropane (44.9%)
Bromodichloromethane (26.0%)
Dichlorodifluoromethane (Freon12) (32.0%)
Hexachlorobutadiene (21.8%)
tert-Butylbenzene (21.3%)
Tetrachloroethene (22.2%)
Trichlorofluoromethane (Freon 11) (41.1%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Carbon tetrachloride (33.0%)

This affected the following samples:

1408067-BLK1
1408067-BS1
1408067-BSD1
MW-3

Sample Acceptance Check Form

Client:	Environmental Compliance Services - Worcester, MA
Project:	CFI-Acquisition - Grafton, MA / 03-220304.02
Work Order:	SB87479
Sample(s) received on:	4/11/2014
Received by:	Allison Edens

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	Yes	No	N/A
1. Were custody seals present?	☐	☑	☐
2. Were custody seals intact?	☐	☐	☑
3. Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
4. Were samples cooled on ice upon transfer to laboratory representative?	☐	☑	☐
5. Were samples refrigerated upon transfer to laboratory representative?	☑	☐	☐
6. Were sample containers received intact?	☑	☐	☐
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
8. Were samples accompanied by a Chain of Custody document?	☑	☐	☐
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☑	☐	☐
10. Did sample container labels agree with Chain of Custody document?	☑	☐	☐
11. Were samples received within method-specific holding times?	☑	☐	☐

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-3	03-220304.02	Ground Water	10-Apr-14 14:58	11-Apr-14
SB87479-01				

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5030 Water MS													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00		µg/l	1.00	0.65	1	SW846 8260C	15-Apr-14	15-Apr-14	GMA	1408067	
67-64-1	Acetone	< 10.0		µg/l	10.0	2.56	1	"	"	"	"	"	
107-13-1	Acrylonitrile	< 0.50		µg/l	0.50	0.48	1	"	"	"	"	"	
71-43-2	Benzene	< 1.00		µg/l	1.00	0.67	1	"	"	"	"	"	
108-86-1	Bromobenzene	< 1.00		µg/l	1.00	0.72	1	"	"	"	"	"	
74-97-5	Bromochloromethane	< 1.00		µg/l	1.00	0.71	1	"	"	"	"	"	
75-27-4	Bromodichloromethane	< 0.50		µg/l	0.50	0.48	1	"	"	"	"	"	
75-25-2	Bromoform	< 1.00		µg/l	1.00	0.60	1	"	"	"	"	"	
74-83-9	Bromomethane	< 2.00		µg/l	2.00	1.14	1	"	"	"	"	"	
78-93-3	2-Butanone (MEK)	< 10.0		µg/l	10.0	1.93	1	"	"	"	"	"	
104-51-8	n-Butylbenzene	< 1.00		µg/l	1.00	0.56	1	"	"	"	"	"	
135-98-8	sec-Butylbenzene	< 1.00		µg/l	1.00	0.82	1	"	"	"	"	"	
98-06-6	tert-Butylbenzene	< 1.00		µg/l	1.00	0.74	1	"	"	"	"	"	
75-15-0	Carbon disulfide	< 2.00		µg/l	2.00	1.28	1	"	"	"	"	"	
56-23-5	Carbon tetrachloride	< 1.00		µg/l	1.00	0.55	1	"	"	"	"	"	
108-90-7	Chlorobenzene	< 1.00		µg/l	1.00	0.65	1	"	"	"	"	"	
75-00-3	Chloroethane	< 2.00		µg/l	2.00	1.00	1	"	"	"	"	"	
67-66-3	Chloroform	< 1.00		µg/l	1.00	0.69	1	"	"	"	"	"	
74-87-3	Chloromethane	< 2.00		µg/l	2.00	1.47	1	"	"	"	"	"	
95-49-8	2-Chlorotoluene	< 1.00		µg/l	1.00	0.79	1	"	"	"	"	"	
106-43-4	4-Chlorotoluene	< 1.00		µg/l	1.00	0.73	1	"	"	"	"	"	
96-12-8	1,2-Dibromo-3-chloropropane	< 2.00		µg/l	2.00	1.20	1	"	"	"	"	"	
124-48-1	Dibromochloromethane	< 0.50		µg/l	0.50	0.34	1	"	"	"	"	"	
106-93-4	1,2-Dibromoethane (EDB)	< 0.50		µg/l	0.50	0.36	1	"	"	"	"	"	
74-95-3	Dibromomethane	< 1.00		µg/l	1.00	0.67	1	"	"	"	"	"	
95-50-1	1,2-Dichlorobenzene	< 1.00		µg/l	1.00	0.67	1	"	"	"	"	"	
541-73-1	1,3-Dichlorobenzene	< 1.00		µg/l	1.00	0.71	1	"	"	"	"	"	
106-46-7	1,4-Dichlorobenzene	< 1.00		µg/l	1.00	0.62	1	"	"	"	"	"	
75-71-8	Dichlorodifluoromethane (Freon12)	< 2.00		µg/l	2.00	0.45	1	"	"	"	"	"	
75-34-3	1,1-Dichloroethane	< 1.00		µg/l	1.00	0.68	1	"	"	"	"	"	
107-06-2	1,2-Dichloroethane	< 1.00		µg/l	1.00	0.78	1	"	"	"	"	"	
75-35-4	1,1-Dichloroethene	< 1.00		µg/l	1.00	0.49	1	"	"	"	"	"	
156-59-2	cis-1,2-Dichloroethene	< 1.00		µg/l	1.00	0.72	1	"	"	"	"	"	
156-60-5	trans-1,2-Dichloroethene	< 1.00		µg/l	1.00	0.83	1	"	"	"	"	"	
78-87-5	1,2-Dichloropropane	< 1.00		µg/l	1.00	0.77	1	"	"	"	"	"	
142-28-9	1,3-Dichloropropane	< 1.00		µg/l	1.00	0.81	1	"	"	"	"	"	
594-20-7	2,2-Dichloropropane	< 1.00		µg/l	1.00	0.87	1	"	"	"	"	"	
563-58-6	1,1-Dichloropropene	< 1.00		µg/l	1.00	0.64	1	"	"	"	"	"	
10061-01-5	cis-1,3-Dichloropropene	< 0.50		µg/l	0.50	0.36	1	"	"	"	"	"	
10061-02-6	trans-1,3-Dichloropropene	< 0.50		µg/l	0.50	0.50	1	"	"	"	"	"	
100-41-4	Ethylbenzene	< 1.00		µg/l	1.00	0.95	1	"	"	"	"	"	
87-68-3	Hexachlorobutadiene	< 0.50		µg/l	0.50	0.49	1	"	"	"	"	"	
591-78-6	2-Hexanone (MBK)	< 10.0		µg/l	10.0	0.66	1	"	"	"	"	"	

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-3	03-220304.02	Ground Water	10-Apr-14 14:58	11-Apr-14
SB87479-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5030 Water MS													
98-82-8	Isopropylbenzene	< 1.00		µg/l	1.00	0.62	1	SW846 8260C	15-Apr-14	15-Apr-14	GMA	1408067	
99-87-6	4-Isopropyltoluene	< 1.00		µg/l	1.00	0.61	1	"	"	"	"	"	
1634-04-4	Methyl tert-butyl ether	1.79		µg/l	1.00	0.65	1	"	"	"	"	"	
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0	2.76	1	"	"	"	"	"	
75-09-2	Methylene chloride	< 2.00		µg/l	2.00	0.95	1	"	"	"	"	"	
91-20-3	Naphthalene	< 1.00		µg/l	1.00	0.58	1	"	"	"	"	"	
103-65-1	n-Propylbenzene	< 1.00		µg/l	1.00	0.76	1	"	"	"	"	"	
100-42-5	Styrene	< 1.00		µg/l	1.00	0.62	1	"	"	"	"	"	
630-20-6	1,1,1,2-Tetrachloroethane	< 1.00		µg/l	1.00	0.67	1	"	"	"	"	"	
79-34-5	1,1,2,2-Tetrachloroethane	< 0.50		µg/l	0.50	0.32	1	"	"	"	"	"	
127-18-4	Tetrachloroethene	< 1.00		µg/l	1.00	0.74	1	"	"	"	"	"	
108-88-3	Toluene	< 1.00		µg/l	1.00	0.81	1	"	"	"	"	"	
87-61-6	1,2,3-Trichlorobenzene	< 1.00		µg/l	1.00	0.38	1	"	"	"	"	"	
120-82-1	1,2,4-Trichlorobenzene	< 1.00		µg/l	1.00	0.36	1	"	"	"	"	"	
108-70-3	1,3,5-Trichlorobenzene	< 1.00		µg/l	1.00	0.78	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 1.00		µg/l	1.00	0.58	1	"	"	"	"	"	
79-00-5	1,1,2-Trichloroethane	< 1.00		µg/l	1.00	0.64	1	"	"	"	"	"	
79-01-6	Trichloroethene	< 1.00		µg/l	1.00	0.76	1	"	"	"	"	"	
75-69-4	Trichlorofluoromethane (Freon 11)	< 1.00		µg/l	1.00	0.63	1	"	"	"	"	"	
96-18-4	1,2,3-Trichloropropane	< 1.00		µg/l	1.00	0.74	1	"	"	"	"	"	
95-63-6	1,2,4-Trimethylbenzene	< 1.00		µg/l	1.00	0.76	1	"	"	"	"	"	
108-67-8	1,3,5-Trimethylbenzene	< 1.00		µg/l	1.00	0.74	1	"	"	"	"	"	
75-01-4	Vinyl chloride	< 1.00		µg/l	1.00	0.81	1	"	"	"	"	"	
179601-23-1	m,p-Xylene	< 2.00		µg/l	2.00	1.64	1	"	"	"	"	"	
95-47-6	o-Xylene	< 1.00		µg/l	1.00	0.88	1	"	"	"	"	"	
109-99-9	Tetrahydrofuran	< 2.00		µg/l	2.00	1.44	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 1.00		µg/l	1.00	0.69	1	"	"	"	"	"	
994-05-8	Tert-amyl methyl ether	< 1.00		µg/l	1.00	0.72	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 1.00		µg/l	1.00	0.78	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 1.00		µg/l	1.00	0.73	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0	8.64	1	"	"	"	"	"	
123-91-1	1,4-Dioxane	< 20.0		µg/l	20.0	12.0	1	"	"	"	"	"	
110-57-6	trans-1,4-Dichloro-2-butene	< 5.00		µg/l	5.00	0.74	1	"	"	"	"	"	
64-17-5	Ethanol	< 400		µg/l	400	35.0	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	*4-Bromofluorobenzene*	*98*			*70-130 %*			"	"	"	"	"	
2037-26-5	*Toluene-d8*	*100*			*70-130 %*			"	"	"	"	"	
17060-07-0	*1,2-Dichloroethane-d4*	*115*			*70-130 %*			"	"	"	"	"	
1868-53-7	*Dibromofluoromethane*	*113*			*70-130 %*			"	"	"	"	"	
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3510C													

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-3	03-220304.02	Ground Water	10-Apr-14 14:58	11-Apr-14
SB87479-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GC													
Polychlorinated Biphenyls													
Prepared by method SW846 3510C													
12674-11-2	Aroclor-1016	< 0.233		µg/l	0.233	0.141	1	SW846 8082A	11-Apr-14	16-Apr-14	TG	1407916	
11104-28-2	Aroclor-1221	< 0.233		µg/l	0.233	0.178	1	"	"	"	"	"	
11141-16-5	Aroclor-1232	< 0.233		µg/l	0.233	0.156	1	"	"	"	"	"	
53469-21-9	Aroclor-1242	< 0.233		µg/l	0.233	0.136	1	"	"	"	"	"	
12672-29-6	Aroclor-1248	< 0.233		µg/l	0.233	0.114	1	"	"	"	"	"	
11097-69-1	Aroclor-1254	< 0.233		µg/l	0.233	0.143	1	"	"	"	"	"	
11096-82-5	Aroclor-1260	< 0.233		µg/l	0.233	0.143	1	"	"	"	"	"	
37324-23-5	Aroclor-1262	< 0.233		µg/l	0.233	0.128	1	"	"	"	"	"	
11100-14-4	Aroclor-1268	< 0.233		µg/l	0.233	0.108	1	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*95*			*30-150 %*			"	"	"	"	"	
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr) [2C]*	*95*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr)*	*75*			*30-150 %*			"	"	"	"	"	
2051-24-3	*Decachlorobiphenyl (Sr) [2C]*	*75*			*30-150 %*			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
MADEP EPH													
Prepared by method SW846 3510C													
	C9-C18 Aliphatic Hydrocarbons	< 116		µg/l	116	47.5	1	MADEP EPH 5/2004 R	14-Apr-14	18-Apr-14	MWP	1408042	
	C19-C36 Aliphatic Hydrocarbons	< 116		µg/l	116	84.9	1	"	"	"	"	"	
	C11-C22 Aromatic Hydrocarbons	< 116		µg/l	116	73.3	1	"	"	"	"	"	
	Unadjusted C11-C22 Aromatic Hydrocarbons	< 116		µg/l	116	73.3	1	"	"	"	"	"	
91-20-3	Naphthalene	< 5.81		µg/l	5.81	3.58	1	"	"	"	"	"	
91-57-6	2-Methylnaphthalene	< 5.81		µg/l	5.81	3.81	1	"	"	"	"	"	
208-96-8	Acenaphthylene	< 5.81		µg/l	5.81	4.17	1	"	"	"	"	"	
83-32-9	Acenaphthene	< 5.81		µg/l	5.81	4.17	1	"	"	"	"	"	
86-73-7	Fluorene	< 5.81		µg/l	5.81	3.97	1	"	"	"	"	"	
85-01-8	Phenanthrene	< 5.81		µg/l	5.81	3.27	1	"	"	"	"	"	
120-12-7	Anthracene	< 5.81		µg/l	5.81	3.77	1	"	"	"	"	"	
206-44-0	Fluoranthene	< 5.81		µg/l	5.81	4.21	1	"	"	"	"	"	
129-00-0	Pyrene	< 5.81		µg/l	5.81	4.09	1	"	"	"	"	"	
56-55-3	Benzo (a) anthracene	< 5.81		µg/l	5.81	4.66	1	"	"	"	"	"	
218-01-9	Chrysene	< 5.81		µg/l	5.81	4.88	1	"	"	"	"	"	
205-99-2	Benzo (b) fluoranthene	< 5.81		µg/l	5.81	5.45	1	"	"	"	"	"	
207-08-9	Benzo (k) fluoranthene	< 5.81		µg/l	5.81	5.52	1	"	"	"	"	"	
50-32-8	Benzo (a) pyrene	< 5.81		µg/l	5.81	4.67	1	"	"	"	"	"	
193-39-5	Indeno (1,2,3-cd) pyrene	< 5.81		µg/l	5.81	5.05	1	"	"	"	"	"	
53-70-3	Dibenzo (a,h) anthracene	< 5.81		µg/l	5.81	5.55	1	"	"	"	"	"	
191-24-2	Benzo (g,h,i) perylene	< 5.81		µg/l	5.81	4.76	1	"	"	"	"	"	
Surrogate recoveries:													
3386-33-2	*1-Chlorooctadecane*	*67*			*40-140 %*			"	"	"	"	"	

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-3 SB87479-01	03-220304.02	Ground Water	10-Apr-14 14:58	11-Apr-14

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
Extractable Petroleum Hydrocarbons													
MADEP EPH Prepared by method SW846 3510C													
84-15-1	*Ortho-Terphenyl*	*71*			*40-140 %*			MADEP EPH 5/2004 R	14-Apr-14	18-Apr-14	MWP	1408042	
321-60-8	*2-Fluorobiphenyl*	*58*			*40-140 %*			"	"	"	"	"	
	Non-polar material (SGT-HEM)	< 1.1		mg/l	1.1	0.3	1	EPA 1664B	16-Apr-14	17-Apr-14	JK	1408154	
Total Metals by EPA 200/6000 Series Methods													
	Preservation	**Lab Preserved**		N/A			1	EPA 200/6000 methods	14-Apr-14	14-Apr-14	LNB	1407967	
Total Metals by EPA 6000/7000 Series Methods													
7439-89-6	Iron	**1.38**		mg/l	0.0150	0.0122	1	SW846 6010C	16-Apr-14	17-Apr-14	edt	1408184	
7439-92-1	Lead	< 0.0075		mg/l	0.0075	0.0032	1	"	18-Apr-14	18-Apr-14	"	1408480	
General Chemistry Parameters													
	Total Suspended Solids	**114**		mg/l	5.0	2.2	1	SM2540D	14-Apr-14	15-Apr-14	BD	1408033	X

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1408067 - SW846 5030 Water MS										
Blank (1408067-BLK1)					Prepared & Analyzed: 15-Apr-14					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 1.00		µg/l	1.00						
Acetone	< 10.0		µg/l	10.0						
Acrylonitrile	< 0.50		µg/l	0.50						
Benzene	< 1.00		µg/l	1.00						
Bromobenzene	< 1.00		µg/l	1.00						
Bromochloromethane	< 1.00		µg/l	1.00						
Bromodichloromethane	< 0.50		µg/l	0.50						
Bromoform	< 1.00		µg/l	1.00						
Bromomethane	< 2.00		µg/l	2.00						
2-Butanone (MEK)	< 10.0		µg/l	10.0						
n-Butylbenzene	< 1.00		µg/l	1.00						
sec-Butylbenzene	< 1.00		µg/l	1.00						
tert-Butylbenzene	< 1.00		µg/l	1.00						
Carbon disulfide	< 2.00		µg/l	2.00						
Carbon tetrachloride	< 1.00		µg/l	1.00						
Chlorobenzene	< 1.00		µg/l	1.00						
Chloroethane	< 2.00		µg/l	2.00						
Chloroform	< 1.00		µg/l	1.00						
Chloromethane	< 2.00		µg/l	2.00						
2-Chlorotoluene	< 1.00		µg/l	1.00						
4-Chlorotoluene	< 1.00		µg/l	1.00						
1,2-Dibromo-3-chloropropane	< 2.00		µg/l	2.00						
Dibromochloromethane	< 0.50		µg/l	0.50						
1,2-Dibromoethane (EDB)	< 0.50		µg/l	0.50						
Dibromomethane	< 1.00		µg/l	1.00						
1,2-Dichlorobenzene	< 1.00		µg/l	1.00						
1,3-Dichlorobenzene	< 1.00		µg/l	1.00						
1,4-Dichlorobenzene	< 1.00		µg/l	1.00						
Dichlorodifluoromethane (Freon12)	< 2.00		µg/l	2.00						
1,1-Dichloroethane	< 1.00		µg/l	1.00						
1,2-Dichloroethane	< 1.00		µg/l	1.00						
1,1-Dichloroethene	< 1.00		µg/l	1.00						
cis-1,2-Dichloroethene	< 1.00		µg/l	1.00						
trans-1,2-Dichloroethene	< 1.00		µg/l	1.00						
1,2-Dichloropropane	< 1.00		µg/l	1.00						
1,3-Dichloropropane	< 1.00		µg/l	1.00						
2,2-Dichloropropane	< 1.00		µg/l	1.00						
1,1-Dichloropropene	< 1.00		µg/l	1.00						
cis-1,3-Dichloropropene	< 0.50		µg/l	0.50						
trans-1,3-Dichloropropene	< 0.50		µg/l	0.50						
Ethylbenzene	< 1.00		µg/l	1.00						
Hexachlorobutadiene	< 0.50		µg/l	0.50						
2-Hexanone (MBK)	< 10.0		µg/l	10.0						
Isopropylbenzene	< 1.00		µg/l	1.00						
4-Isopropyltoluene	< 1.00		µg/l	1.00						
Methyl tert-butyl ether	< 1.00		µg/l	1.00						
4-Methyl-2-pentanone (MIBK)	< 10.0		µg/l	10.0						
Methylene chloride	< 2.00		µg/l	2.00						
Naphthalene	< 1.00		µg/l	1.00						
n-Propylbenzene	< 1.00		µg/l	1.00						
Styrene	< 1.00		µg/l	1.00						
1,1,1,2-Tetrachloroethane	< 1.00		µg/l	1.00						

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1408067 - SW846 5030 Water MS										
Blank (1408067-BLK1)					Prepared & Analyzed: 15-Apr-14					
1,1,2,2-Tetrachloroethane	< 0.50		µg/l	0.50						
Tetrachloroethene	< 1.00		µg/l	1.00						
Toluene	< 1.00		µg/l	1.00						
1,2,3-Trichlorobenzene	< 1.00		µg/l	1.00						
1,2,4-Trichlorobenzene	< 1.00		µg/l	1.00						
1,3,5-Trichlorobenzene	< 1.00		µg/l	1.00						
1,1,1-Trichloroethane	< 1.00		µg/l	1.00						
1,1,2-Trichloroethane	< 1.00		µg/l	1.00						
Trichloroethene	< 1.00		µg/l	1.00						
Trichlorofluoromethane (Freon 11)	< 1.00		µg/l	1.00						
1,2,3-Trichloropropane	< 1.00		µg/l	1.00						
1,2,4-Trimethylbenzene	< 1.00		µg/l	1.00						
1,3,5-Trimethylbenzene	< 1.00		µg/l	1.00						
Vinyl chloride	< 1.00		µg/l	1.00						
m,p-Xylene	< 2.00		µg/l	2.00						
o-Xylene	< 1.00		µg/l	1.00						
Tetrahydrofuran	< 2.00		µg/l	2.00						
Ethyl ether	< 1.00		µg/l	1.00						
Tert-amyl methyl ether	< 1.00		µg/l	1.00						
Ethyl tert-butyl ether	< 1.00		µg/l	1.00						
Di-isopropyl ether	< 1.00		µg/l	1.00						
Tert-Butanol / butyl alcohol	< 10.0		µg/l	10.0						
1,4-Dioxane	< 20.0		µg/l	20.0						
trans-1,4-Dichloro-2-butene	< 5.00		µg/l	5.00						
Ethanol	< 400		µg/l	400						
Surrogate: 4-Bromofluorobenzene	*48.5*		µg/l		*50.0*		*97*	*70-130*		
Surrogate: Toluene-d8	*51.3*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*58.2*		µg/l		*50.0*		*116*	*70-130*		
Surrogate: Dibromofluoromethane	*56.1*		µg/l		*50.0*		*112*	*70-130*		
LCS (1408067-BS1)					Prepared & Analyzed: 15-Apr-14					
1,1,2-Trichlorotrifluoroethane (Freon 113)	**25.7**		µg/l		20.0		129	70-130		
Acetone	**22.3**		µg/l		20.0		112	70-130		
Acrylonitrile	**19.5**		µg/l		20.0		97	70-130		
Benzene	**20.1**		µg/l		20.0		101	70-130		
Bromobenzene	**22.6**		µg/l		20.0		113	70-130		
Bromochloromethane	**23.9**		µg/l		20.0		120	70-130		
Bromodichloromethane	**24.3**		µg/l		20.0		122	70-130		
Bromoform	**22.6**		µg/l		20.0		113	70-130		
Bromomethane	**21.7**		µg/l		20.0		109	70-130		
2-Butanone (MEK)	**21.2**		µg/l		20.0		106	70-130		
n-Butylbenzene	**19.1**		µg/l		20.0		96	70-130		
sec-Butylbenzene	**20.1**		µg/l		20.0		100	70-130		
tert-Butylbenzene	**23.2**		µg/l		20.0		116	70-130		
Carbon disulfide	**22.4**		µg/l		20.0		112	70-130		
Carbon tetrachloride	**24.6**		µg/l		20.0		123	70-130		
Chlorobenzene	**20.1**		µg/l		20.0		100	70-130		
Chloroethane	**20.2**		µg/l		20.0		101	70-130		
Chloroform	**23.1**		µg/l		20.0		116	70-130		
Chloromethane	**19.6**		µg/l		20.0		98	70-130		
2-Chlorotoluene	**22.3**		µg/l		20.0		111	70-130		
4-Chlorotoluene	**22.0**		µg/l		20.0		110	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1408067 - SW846 5030 Water MS										
LCS (1408067-BS1)					Prepared & Analyzed: 15-Apr-14					
1,2-Dibromo-3-chloropropane	**21.2**		µg/l		20.0		106	70-130		
Dibromochloromethane	**23.0**		µg/l		20.0		115	70-130		
1,2-Dibromoethane (EDB)	**22.1**		µg/l		20.0		110	70-130		
Dibromomethane	**22.0**		µg/l		20.0		110	70-130		
1,2-Dichlorobenzene	**20.6**		µg/l		20.0		103	70-130		
1,3-Dichlorobenzene	**21.7**		µg/l		20.0		108	70-130		
1,4-Dichlorobenzene	**19.4**		µg/l		20.0		97	70-130		
Dichlorodifluoromethane (Freon12)	**26.1**		µg/l		20.0		131	70-130		
1,1-Dichloroethane	**21.0**		µg/l		20.0		105	70-130		
1,2-Dichloroethane	**24.4**		µg/l		20.0		122	70-130		
1,1-Dichloroethene	**23.2**		µg/l		20.0		116	70-130		
cis-1,2-Dichloroethene	**22.4**		µg/l		20.0		112	70-130		
trans-1,2-Dichloroethene	**21.5**		µg/l		20.0		107	70-130		
1,2-Dichloropropane	**18.7**		µg/l		20.0		94	70-130		
1,3-Dichloropropane	**20.0**		µg/l		20.0		100	70-130		
2,2-Dichloropropane	**26.6**	QM9	µg/l		20.0		133	70-130		
1,1-Dichloropropene	**23.0**		µg/l		20.0		115	70-130		
cis-1,3-Dichloropropene	**21.2**		µg/l		20.0		106	70-130		
trans-1,3-Dichloropropene	**22.2**		µg/l		20.0		111	70-130		
Ethylbenzene	**21.1**		µg/l		20.0		105	70-130		
Hexachlorobutadiene	**23.4**		µg/l		20.0		117	70-130		
2-Hexanone (MBK)	**21.4**		µg/l		20.0		107	70-130		
Isopropylbenzene	**21.8**		µg/l		20.0		109	70-130		
4-Isopropyltoluene	**21.8**		µg/l		20.0		109	70-130		
Methyl tert-butyl ether	**21.5**		µg/l		20.0		108	70-130		
4-Methyl-2-pentanone (MIBK)	**22.9**		µg/l		20.0		114	70-130		
Methylene chloride	**21.7**		µg/l		20.0		108	70-130		
Naphthalene	**22.3**		µg/l		20.0		112	70-130		
n-Propylbenzene	**21.5**		µg/l		20.0		108	70-130		
Styrene	**21.6**		µg/l		20.0		108	70-130		
1,1,1,2-Tetrachloroethane	**22.3**		µg/l		20.0		112	70-130		
1,1,2,2-Tetrachloroethane	**22.0**		µg/l		20.0		110	70-130		
Tetrachloroethene	**23.3**		µg/l		20.0		116	70-130		
Toluene	**21.6**		µg/l		20.0		108	70-130		
1,2,3-Trichlorobenzene	**23.5**		µg/l		20.0		117	70-130		
1,2,4-Trichlorobenzene	**22.2**		µg/l		20.0		111	70-130		
1,3,5-Trichlorobenzene	**22.1**		µg/l		20.0		111	70-130		
1,1,1-Trichloroethane	**26.2**	QM9	µg/l		20.0		131	70-130		
1,1,2-Trichloroethane	**22.1**		µg/l		20.0		111	70-130		
Trichloroethene	**20.8**		µg/l		20.0		104	70-130		
Trichlorofluoromethane (Freon 11)	**26.3**	QM9	µg/l		20.0		132	70-130		
1,2,3-Trichloropropane	**18.4**		µg/l		20.0		92	70-130		
1,2,4-Trimethylbenzene	**22.5**		µg/l		20.0		113	70-130		
1,3,5-Trimethylbenzene	**21.3**		µg/l		20.0		107	70-130		
Vinyl chloride	**20.7**		µg/l		20.0		104	70-130		
m,p-Xylene	**20.8**		µg/l		20.0		104	70-130		
o-Xylene	**21.5**		µg/l		20.0		108	70-130		
Tetrahydrofuran	**18.4**		µg/l		20.0		92	70-130		
Ethyl ether	**20.1**		µg/l		20.0		100	70-130		
Tert-amyl methyl ether	**18.1**		µg/l		20.0		91	70-130		
Ethyl tert-butyl ether	**19.6**		µg/l		20.0		98	70-130		
Di-isopropyl ether	**19.3**		µg/l		20.0		96	70-130		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1408067 - SW846 5030 Water MS										
LCS (1408067-BS1)						Prepared & Analyzed: 15-Apr-14				
Tert-Butanol / butyl alcohol	**218**		µg/l		200		109	70-130		
1,4-Dioxane	**210**		µg/l		200		105	70-130		
trans-1,4-Dichloro-2-butene	**21.2**		µg/l		20.0		106	70-130		
Ethanol	**379**		µg/l		400		95	70-130		
Surrogate: 4-Bromofluorobenzene	*51.4*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*51.6*		µg/l		*50.0*		*103*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*57.8*		µg/l		*50.0*		*116*	*70-130*		
Surrogate: Dibromofluoromethane	*55.7*		µg/l		*50.0*		*111*	*70-130*		
LCS Dup (1408067-BSD1)						Prepared & Analyzed: 15-Apr-14				
1,1,2-Trichlorotrifluoroethane (Freon 113)	**24.1**		µg/l		20.0		120	70-130	7	20
Acetone	**23.7**		µg/l		20.0		119	70-130	6	20
Acrylonitrile	**20.3**		µg/l		20.0		102	70-130	4	20
Benzene	**20.1**		µg/l		20.0		100	70-130	0.2	20
Bromobenzene	**21.7**		µg/l		20.0		108	70-130	4	20
Bromochloromethane	**22.9**		µg/l		20.0		114	70-130	4	20
Bromodichloromethane	**22.8**		µg/l		20.0		114	70-130	6	20
Bromoform	**23.3**		µg/l		20.0		117	70-130	3	20
Bromomethane	**19.3**		µg/l		20.0		97	70-130	12	20
2-Butanone (MEK)	**22.2**		µg/l		20.0		111	70-130	5	20
n-Butylbenzene	**18.2**		µg/l		20.0		91	70-130	5	20
sec-Butylbenzene	**19.8**		µg/l		20.0		99	70-130	1	20
tert-Butylbenzene	**22.2**		µg/l		20.0		111	70-130	4	20
Carbon disulfide	**21.6**		µg/l		20.0		108	70-130	4	20
Carbon tetrachloride	**23.5**		µg/l		20.0		117	70-130	5	20
Chlorobenzene	**20.2**		µg/l		20.0		101	70-130	0.3	20
Chloroethane	**19.6**		µg/l		20.0		98	70-130	3	20
Chloroform	**21.9**		µg/l		20.0		110	70-130	5	20
Chloromethane	**17.6**		µg/l		20.0		88	70-130	11	20
2-Chlorotoluene	**20.9**		µg/l		20.0		104	70-130	6	20
4-Chlorotoluene	**22.0**		µg/l		20.0		110	70-130	0.5	20
1,2-Dibromo-3-chloropropane	**22.1**		µg/l		20.0		110	70-130	4	20
Dibromochloromethane	**22.1**		µg/l		20.0		110	70-130	4	20
1,2-Dibromoethane (EDB)	**22.3**		µg/l		20.0		112	70-130	1	20
Dibromomethane	**21.4**		µg/l		20.0		107	70-130	3	20
1,2-Dichlorobenzene	**20.4**		µg/l		20.0		102	70-130	0.7	20
1,3-Dichlorobenzene	**21.7**		µg/l		20.0		109	70-130	0.3	20
1,4-Dichlorobenzene	**19.3**		µg/l		20.0		97	70-130	0.6	20
Dichlorodifluoromethane (Freon12)	**22.7**		µg/l		20.0		114	70-130	14	20
1,1-Dichloroethane	**20.7**		µg/l		20.0		104	70-130	1	20
1,2-Dichloroethane	**22.5**		µg/l		20.0		112	70-130	8	20
1,1-Dichloroethene	**21.6**		µg/l		20.0		108	70-130	7	20
cis-1,2-Dichloroethene	**21.8**		µg/l		20.0		109	70-130	3	20
trans-1,2-Dichloroethene	**20.2**		µg/l		20.0		101	70-130	6	20
1,2-Dichloropropane	**18.3**		µg/l		20.0		92	70-130	2	20
1,3-Dichloropropane	**20.7**		µg/l		20.0		103	70-130	4	20
2,2-Dichloropropane	**23.9**		µg/l		20.0		119	70-130	11	20
1,1-Dichloropropene	**20.7**		µg/l		20.0		104	70-130	11	20
cis-1,3-Dichloropropene	**20.8**		µg/l		20.0		104	70-130	2	20
trans-1,3-Dichloropropene	**22.4**		µg/l		20.0		112	70-130	0.9	20
Ethylbenzene	**20.6**		µg/l		20.0		103	70-130	2	20
Hexachlorobutadiene	**22.4**		µg/l		20.0		112	70-130	4	20

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1408067 - SW846 5030 Water MS										
LCS Dup (1408067-BSD1)					Prepared & Analyzed: 15-Apr-14					
2-Hexanone (MBK)	**22.2**		µg/l		20.0		111	70-130	4	20
Isopropylbenzene	**21.3**		µg/l		20.0		107	70-130	3	20
4-Isopropyltoluene	**20.8**		µg/l		20.0		104	70-130	5	20
Methyl tert-butyl ether	**20.9**		µg/l		20.0		104	70-130	3	20
4-Methyl-2-pentanone (MIBK)	**20.6**		µg/l		20.0		103	70-130	10	20
Methylene chloride	**20.6**		µg/l		20.0		103	70-130	5	20
Naphthalene	**22.9**		µg/l		20.0		114	70-130	3	20
n-Propylbenzene	**21.3**		µg/l		20.0		106	70-130	1	20
Styrene	**21.7**		µg/l		20.0		109	70-130	0.6	20
1,1,1,2-Tetrachloroethane	**22.5**		µg/l		20.0		112	70-130	0.8	20
1,1,2,2-Tetrachloroethane	**22.8**		µg/l		20.0		114	70-130	3	20
Tetrachloroethene	**22.4**		µg/l		20.0		112	70-130	4	20
Toluene	**20.3**		µg/l		20.0		101	70-130	6	20
1,2,3-Trichlorobenzene	**22.3**		µg/l		20.0		112	70-130	5	20
1,2,4-Trichlorobenzene	**21.5**		µg/l		20.0		108	70-130	3	20
1,3,5-Trichlorobenzene	**22.1**		µg/l		20.0		111	70-130	0.05	20
1,1,1-Trichloroethane	**24.8**		µg/l		20.0		124	70-130	5	20
1,1,2-Trichloroethane	**21.1**		µg/l		20.0		105	70-130	5	20
Trichloroethene	**19.9**		µg/l		20.0		99	70-130	4	20
Trichlorofluoromethane (Freon 11)	**25.3**		µg/l		20.0		127	70-130	4	20
1,2,3-Trichloropropane	**19.8**		µg/l		20.0		99	70-130	7	20
1,2,4-Trimethylbenzene	**21.8**		µg/l		20.0		109	70-130	4	20
1,3,5-Trimethylbenzene	**20.0**		µg/l		20.0		100	70-130	7	20
Vinyl chloride	**19.8**		µg/l		20.0		99	70-130	5	20
m,p-Xylene	**21.2**		µg/l		20.0		106	70-130	2	20
o-Xylene	**21.6**		µg/l		20.0		108	70-130	0.6	20
Tetrahydrofuran	**20.3**		µg/l		20.0		102	70-130	10	20
Ethyl ether	**20.9**		µg/l		20.0		105	70-130	4	20
Tert-amyl methyl ether	**17.4**		µg/l		20.0		87	70-130	4	20
Ethyl tert-butyl ether	**19.3**		µg/l		20.0		96	70-130	2	20
Di-isopropyl ether	**18.7**		µg/l		20.0		93	70-130	3	20
Tert-Butanol / butyl alcohol	**237**		µg/l		200		119	70-130	9	20
1,4-Dioxane	**198**		µg/l		200		99	70-130	6	20
trans-1,4-Dichloro-2-butene	**21.0**		µg/l		20.0		105	70-130	1	20
Ethanol	**403**		µg/l		400		101	70-130	6	20
Surrogate: 4-Bromofluorobenzene	*53.1*		µg/l		*50.0*		*106*	*70-130*		
Surrogate: Toluene-d8	*50.1*		µg/l		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*56.2*		µg/l		*50.0*		*112*	*70-130*		
Surrogate: Dibromofluoromethane	*54.6*		µg/l		*50.0*		*109*	*70-130*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1407916 - SW846 3510C										
Blank (1407916-BLK1)					Prepared: 11-Apr-14 Analyzed: 14-Apr-14					
Aroclor-1016	< 0.200		µg/l	0.200						
Aroclor-1016 [2C]	< 0.200		µg/l	0.200						
Aroclor-1221	< 0.200		µg/l	0.200						
Aroclor-1221 [2C]	< 0.200		µg/l	0.200						
Aroclor-1232	< 0.200		µg/l	0.200						
Aroclor-1232 [2C]	< 0.200		µg/l	0.200						
Aroclor-1242	< 0.200		µg/l	0.200						
Aroclor-1242 [2C]	< 0.200		µg/l	0.200						
Aroclor-1248	< 0.200		µg/l	0.200						
Aroclor-1248 [2C]	< 0.200		µg/l	0.200						
Aroclor-1254	< 0.200		µg/l	0.200						
Aroclor-1254 [2C]	< 0.200		µg/l	0.200						
Aroclor-1260	< 0.200		µg/l	0.200						
Aroclor-1260 [2C]	< 0.200		µg/l	0.200						
Aroclor-1262	< 0.200		µg/l	0.200						
Aroclor-1262 [2C]	< 0.200		µg/l	0.200						
Aroclor-1268	< 0.200		µg/l	0.200						
Aroclor-1268 [2C]	< 0.200		µg/l	0.200						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.180*		µg/l		*0.200*		*90*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*0.180*		µg/l		*0.200*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.170*		µg/l		*0.200*		*85*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*0.170*		µg/l		*0.200*		*85*	*30-150*		
LCS (1407916-BS1)					Prepared: 11-Apr-14 Analyzed: 14-Apr-14					
Aroclor-1016	**2.16**		µg/l	0.200	2.50		86	40-140		
Aroclor-1016 [2C]	**2.16**		µg/l	0.200	2.50		86	40-140		
Aroclor-1260	**2.03**		µg/l	0.200	2.50		81	40-140		
Aroclor-1260 [2C]	**2.00**		µg/l	0.200	2.50		80	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.180*		µg/l		*0.200*		*90*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*0.190*		µg/l		*0.200*		*95*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.130*		µg/l		*0.200*		*65*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*0.130*		µg/l		*0.200*		*65*	*30-150*		
LCS Dup (1407916-BSD1)					Prepared: 11-Apr-14 Analyzed: 14-Apr-14					
Aroclor-1016	**2.15**		µg/l	0.200	2.50		86	40-140	0.5	20
Aroclor-1016 [2C]	**2.08**		µg/l	0.200	2.50		83	40-140	4	20
Aroclor-1260	**1.93**		µg/l	0.200	2.50		77	40-140	5	20
Aroclor-1260 [2C]	**2.03**		µg/l	0.200	2.50		81	40-140	1	20
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*0.170*		µg/l		*0.200*		*85*	*30-150*		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	*0.180*		µg/l		*0.200*		*90*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*0.140*		µg/l		*0.200*		*70*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr) [2C]	*0.130*		µg/l		*0.200*		*65*	*30-150*		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1408042 - SW846 3510C										
Blank (1408042-BLK1)					Prepared: 14-Apr-14 Analyzed: 15-Apr-14					
C9-C18 Aliphatic Hydrocarbons	< 100		µg/l	100						
C19-C36 Aliphatic Hydrocarbons	< 100		µg/l	100						
C11-C22 Aromatic Hydrocarbons	< 100		µg/l	100						
Unadjusted C11-C22 Aromatic Hydrocarbons	< 100		µg/l	100						
Total Petroleum Hydrocarbons	< 300		µg/l	300						
Unadjusted Total Petroleum Hydrocarbons	< 300		µg/l	300						
Naphthalene	< 5.00		µg/l	5.00						
2-Methylnaphthalene	< 5.00		µg/l	5.00						
Acenaphthylene	< 5.00		µg/l	5.00						
Acenaphthene	< 5.00		µg/l	5.00						
Fluorene	< 5.00		µg/l	5.00						
Phenanthrene	< 5.00		µg/l	5.00						
Anthracene	< 5.00		µg/l	5.00						
Fluoranthene	< 5.00		µg/l	5.00						
Pyrene	< 5.00		µg/l	5.00						
Benzo (a) anthracene	< 5.00		µg/l	5.00						
Chrysene	< 5.00		µg/l	5.00						
Benzo (b) fluoranthene	< 5.00		µg/l	5.00						
Benzo (k) fluoranthene	< 5.00		µg/l	5.00						
Benzo (a) pyrene	< 5.00		µg/l	5.00						
Indeno (1,2,3-cd) pyrene	< 5.00		µg/l	5.00						
Dibenzo (a,h) anthracene	< 5.00		µg/l	5.00						
Benzo (g,h,i) perylene	< 5.00		µg/l	5.00						
n-Nonane (C9)	< 5.00		µg/l	5.00						
n-Decane	< 5.00		µg/l	5.00						
n-Dodecane	< 5.00		µg/l	5.00						
n-Tetradecane	< 5.00		µg/l	5.00						
n-Hexadecane	< 5.00		µg/l	5.00						
n-Octadecane	< 5.00		µg/l	5.00						
n-Nonadecane	< 5.00		µg/l	5.00						
n-Eicosane	< 5.00		µg/l	5.00						
n-Docosane	< 5.00		µg/l	5.00						
n-Tetracosane	< 5.00		µg/l	5.00						
n-Hexacosane	< 5.00		µg/l	5.00						
n-Octacosane	< 5.00		µg/l	5.00						
n-Triacontane	< 5.00		µg/l	5.00						
n-Hexatriacontane	< 5.00		µg/l	5.00						
Naphthalene (aliphatic fraction)	**0.00**		µg/l							
2-Methylnaphthalene (aliphatic fraction)	**0.00**		µg/l							
Surrogate: 1-Chlorooctadecane	*51.5*		µg/l		*50.0*		*103*	*40-140*		
Surrogate: Ortho-Terphenyl	*38.9*		µg/l		*50.0*		*78*	*40-140*		
Surrogate: 2-Fluorobiphenyl	*20.5*		µg/l		*40.0*		*51*	*40-140*		
LCS (1408042-BS1)					Prepared: 14-Apr-14 Analyzed: 15-Apr-14					
C9-C18 Aliphatic Hydrocarbons	**430**		µg/l	100	600		72	40-140		
C19-C36 Aliphatic Hydrocarbons	**788**		µg/l	100	800		99	40-140		
Unadjusted C11-C22 Aromatic Hydrocarbons	**1100**		µg/l	100	1700		65	40-140		
Naphthalene	**53.6**		µg/l	5.00	100		54	40-140		
2-Methylnaphthalene	**59.4**		µg/l	5.00	100		59	40-140		
Acenaphthylene	**71.5**		µg/l	5.00	100		71	40-140		
Acenaphthene	**68.4**		µg/l	5.00	100		68	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1408042 - SW846 3510C										
LCS (1408042-BS1)						Prepared: 14-Apr-14 Analyzed: 15-Apr-14				
Fluorene	**76.9**		µg/l	5.00	100		77	40-140		
Phenanthrene	**85.8**		µg/l	5.00	100		86	40-140		
Anthracene	**79.7**		µg/l	5.00	100		80	40-140		
Fluoranthene	**91.7**		µg/l	5.00	100		92	40-140		
Pyrene	**89.0**		µg/l	5.00	100		89	40-140		
Benzo (a) anthracene	**95.6**		µg/l	5.00	100		96	40-140		
Chrysene	**90.2**		µg/l	5.00	100		90	40-140		
Benzo (b) fluoranthene	**99.8**		µg/l	5.00	100		100	40-140		
Benzo (k) fluoranthene	**101**		µg/l	5.00	100		101	40-140		
Benzo (a) pyrene	**82.8**		µg/l	5.00	100		83	40-140		
Indeno (1,2,3-cd) pyrene	**88.6**		µg/l	5.00	100		89	40-140		
Dibenzo (a,h) anthracene	**88.4**		µg/l	5.00	100		88	40-140		
Benzo (g,h,i) perylene	**92.6**		µg/l	5.00	100		93	40-140		
n-Nonane (C9)	**41.9**		µg/l	5.00	100		42	30-140		
n-Decane	**54.3**		µg/l	5.00	100		54	40-140		
n-Dodecane	**63.9**		µg/l	5.00	100		64	40-140		
n-Tetradecane	**75.1**		µg/l	5.00	100		75	40-140		
n-Hexadecane	**85.0**		µg/l	5.00	100		85	40-140		
n-Octadecane	**90.4**		µg/l	5.00	100		90	40-140		
n-Nonadecane	**92.0**		µg/l	5.00	100		92	40-140		
n-Eicosane	**93.5**		µg/l	5.00	100		93	40-140		
n-Docosane	**94.5**		µg/l	5.00	100		95	40-140		
n-Tetracosane	**96.0**		µg/l	5.00	100		96	40-140		
n-Hexacosane	**96.7**		µg/l	5.00	100		97	40-140		
n-Octacosane	**99.3**		µg/l	5.00	100		99	40-140		
n-Triacontane	**97.3**		µg/l	5.00	100		97	40-140		
n-Hexatriacontane	**97.2**		µg/l	5.00	100		97	40-140		
Naphthalene (aliphatic fraction)	**0.00**		µg/l					0-200		
2-Methylnaphthalene (aliphatic fraction)	**0.00**		µg/l					0-200		
Surrogate: 1-Chlorooctadecane	*43.8*		µg/l		*50.0*		*88*	*40-140*		
Surrogate: Ortho-Terphenyl	*42.6*		µg/l		*50.0*		*85*	*40-140*		
Surrogate: 2-Fluorobiphenyl	*27.8*		µg/l		*40.0*		*69*	*40-140*		
LCS (1408042-BS3)						Prepared: 14-Apr-14 Analyzed: 15-Apr-14				
C9-C18 Aliphatic Hydrocarbons	**523**		µg/l	100	600		87	40-140		
C19-C36 Aliphatic Hydrocarbons	**866**		µg/l	100	800		108	40-140		
Unadjusted C11-C22 Aromatic Hydrocarbons	**997**		µg/l	100	1700		59	40-140		
Naphthalene	**50.4**		µg/l	5.00	100		50	40-140		
2-Methylnaphthalene	**54.7**		µg/l	5.00	100		55	40-140		
Acenaphthylene	**65.1**		µg/l	5.00	100		65	40-140		
Acenaphthene	**63.1**		µg/l	5.00	100		63	40-140		
Fluorene	**71.2**		µg/l	5.00	100		71	40-140		
Phenanthrene	**78.8**		µg/l	5.00	100		79	40-140		
Anthracene	**72.5**		µg/l	5.00	100		72	40-140		
Fluoranthene	**83.2**		µg/l	5.00	100		83	40-140		
Pyrene	**80.8**		µg/l	5.00	100		81	40-140		
Benzo (a) anthracene	**87.2**		µg/l	5.00	100		87	40-140		
Chrysene	**84.6**		µg/l	5.00	100		85	40-140		
Benzo (b) fluoranthene	**79.9**		µg/l	5.00	100		80	40-140		
Benzo (k) fluoranthene	**95.6**		µg/l	5.00	100		96	40-140		
Benzo (a) pyrene	**75.1**		µg/l	5.00	100		75	40-140		
Indeno (1,2,3-cd) pyrene	**79.0**		µg/l	5.00	100		79	40-140		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1408042 - SW846 3510C										
LCS (1408042-BS3)						Prepared: 14-Apr-14 Analyzed: 15-Apr-14				
Dibenzo (a,h) anthracene	**79.0**		µg/l	5.00	100		79	40-140		
Benzo (g,h,i) perylene	**81.4**		µg/l	5.00	100		81	40-140		
n-Nonane (C9)	**58.7**		µg/l	5.00	100		59	30-140		
n-Decane	**69.1**		µg/l	5.00	100		69	40-140		
n-Dodecane	**77.1**		µg/l	5.00	100		77	40-140		
n-Tetradecane	**87.6**		µg/l	5.00	100		88	40-140		
n-Hexadecane	**96.8**		µg/l	5.00	100		97	40-140		
n-Octadecane	**103**		µg/l	5.00	100		103	40-140		
n-Nonadecane	**105**		µg/l	5.00	100		105	40-140		
n-Eicosane	**107**		µg/l	5.00	100		107	40-140		
n-Docosane	**107**		µg/l	5.00	100		107	40-140		
n-Tetracosane	**107**		µg/l	5.00	100		107	40-140		
n-Hexacosane	**106**		µg/l	5.00	100		106	40-140		
n-Octacosane	**109**		µg/l	5.00	100		109	40-140		
n-Triacontane	**105**		µg/l	5.00	100		105	40-140		
n-Hexatriacontane	**105**		µg/l	5.00	100		105	40-140		
Naphthalene (aliphatic fraction)	**0.00**		µg/l					0-200		
2-Methylnaphthalene (aliphatic fraction)	**0.00**		µg/l					0-200		
Surrogate: 1-Chlorooctadecane	*45.9*		µg/l		*50.0*		*92*	*40-140*		
Surrogate: Ortho-Terphenyl	*40.0*		µg/l		*50.0*		*80*	*40-140*		
Surrogate: 2-Fluorobiphenyl	*22.9*		µg/l		*40.0*		*57*	*40-140*		
LCS Dup (1408042-BSD1)						Prepared: 14-Apr-14 Analyzed: 15-Apr-14				
C9-C18 Aliphatic Hydrocarbons	**432**		µg/l	100	600		72	40-140	0.5	25
C19-C36 Aliphatic Hydrocarbons	**687**		µg/l	100	800		86	40-140	14	25
Unadjusted C11-C22 Aromatic Hydrocarbons	**856**		µg/l	100	1700		50	40-140	25	25
Naphthalene	**45.5**		µg/l	5.00	100		45	40-140	16	25
2-Methylnaphthalene	**49.6**		µg/l	5.00	100		50	40-140	18	25
Acenaphthylene	**59.7**		µg/l	5.00	100		60	40-140	18	25
Acenaphthene	**58.2**		µg/l	5.00	100		58	40-140	16	25
Fluorene	**64.0**		µg/l	5.00	100		64	40-140	18	25
Phenanthrene	**70.0**		µg/l	5.00	100		70	40-140	20	25
Anthracene	**65.8**		µg/l	5.00	100		66	40-140	19	25
Fluoranthene	**73.6**		µg/l	5.00	100		74	40-140	22	25
Pyrene	**72.1**		µg/l	5.00	100		72	40-140	21	25
Benzo (a) anthracene	**75.1**		µg/l	5.00	100		75	40-140	24	25
Chrysene	**73.2**		µg/l	5.00	100		73	40-140	21	25
Benzo (b) fluoranthene	**73.8**	QR2	µg/l	5.00	100		74	40-140	30	25
Benzo (k) fluoranthene	**78.8**		µg/l	5.00	100		79	40-140	24	25
Benzo (a) pyrene	**64.2**		µg/l	5.00	100		64	40-140	25	25
Indeno (1,2,3-cd) pyrene	**66.9**	QR2	µg/l	5.00	100		67	40-140	28	25
Dibenzo (a,h) anthracene	**65.2**	QR2	µg/l	5.00	100		65	40-140	30	25
Benzo (g,h,i) perylene	**69.5**	QR2	µg/l	5.00	100		70	40-140	28	25
n-Nonane (C9)	**44.4**		µg/l	5.00	100		44	30-140	6	25
n-Decane	**56.4**		µg/l	5.00	100		56	40-140	4	25
n-Dodecane	**65.0**		µg/l	5.00	100		65	40-140	2	25
n-Tetradecane	**76.6**		µg/l	5.00	100		77	40-140	2	25
n-Hexadecane	**85.2**		µg/l	5.00	100		85	40-140	0.2	25
n-Octadecane	**89.0**		µg/l	5.00	100		89	40-140	2	25
n-Nonadecane	**89.9**		µg/l	5.00	100		90	40-140	2	25
n-Eicosane	**90.3**		µg/l	5.00	100		90	40-140	3	25
n-Docosane	**89.8**		µg/l	5.00	100		90	40-140	5	25

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1408042 - SW846 3510C										
LCS Dup (1408042-BSD1)					Prepared: 14-Apr-14 Analyzed: 15-Apr-14					
n-Tetracosane	**89.2**		µg/l	5.00	100		89	40-140	7	25
n-Hexacosane	**89.0**		µg/l	5.00	100		89	40-140	8	25
n-Octacosane	**91.0**		µg/l	5.00	100		91	40-140	9	25
n-Triacontane	**88.7**		µg/l	5.00	100		89	40-140	9	25
n-Hexatriacontane	**88.1**		µg/l	5.00	100		88	40-140	10	25
Naphthalene (aliphatic fraction)	**0.00**		µg/l					0-200		200
2-Methylnaphthalene (aliphatic fraction)	**0.00**		µg/l					0-200		200
Surrogate: 1-Chlorooctadecane	*38.7*		µg/l		*50.0*		*77*	*40-140*		
Surrogate: Ortho-Terphenyl	*33.5*		µg/l		*50.0*		*67*	*40-140*		
Surrogate: 2-Fluorobiphenyl	*23.9*		µg/l		*40.0*		*60*	*40-140*		
Batch 1408154 - SW846 3510C										
Blank (1408154-BLK1)					Prepared: 16-Apr-14 Analyzed: 17-Apr-14					
Non-polar material (SGT-HEM)	< 1.0		mg/l	1.0						
LCS (1408154-BS1)					Prepared: 16-Apr-14 Analyzed: 17-Apr-14					
Non-polar material (SGT-HEM)	**27.2**		mg/l	1.0	32.4		84	83-101		

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1408184 - SW846 3005A										
Blank (1408184-BLK1)						Prepared: 16-Apr-14 Analyzed: 17-Apr-14				
Iron	**0.0676**	QB1	mg/l	0.0150						
LCS (1408184-BS1)						Prepared: 16-Apr-14 Analyzed: 17-Apr-14				
Iron	**1.06**		mg/l	0.0150	1.25		85	85-115		
LCS Dup (1408184-BSD1)						Prepared: 16-Apr-14 Analyzed: 17-Apr-14				
Iron	**1.13**		mg/l	0.0150	1.25		90	85-115	6	20
Duplicate (1408184-DUP1)			**Source: SB87479-01**			Prepared: 16-Apr-14 Analyzed: 17-Apr-14				
Iron	**1.32**		mg/l	0.0150		1.38			5	20
Matrix Spike (1408184-MS1)			**Source: SB87479-01**			Prepared: 16-Apr-14 Analyzed: 17-Apr-14				
Iron	**2.43**		mg/l	0.0150	1.25	1.38	84	75-125		
Matrix Spike Dup (1408184-MSD1)			**Source: SB87479-01**			Prepared: 16-Apr-14 Analyzed: 17-Apr-14				
Iron	**2.19**	QM8	mg/l	0.0150	1.25	1.38	64	75-125	11	20
Post Spike (1408184-PS1)			**Source: SB87479-01**			Prepared: 16-Apr-14 Analyzed: 17-Apr-14				
Iron	**2.87**		mg/l	0.0150	1.25	1.38	119	80-120		
Batch 1408480 - SW846 3005A										
Blank (1408480-BLK1)						Prepared & Analyzed: 18-Apr-14				
Lead	< 0.0075		mg/l	0.0075						
LCS (1408480-BS1)						Prepared & Analyzed: 18-Apr-14				
Lead	**1.23**		mg/l	0.0075	1.25		98	85-115		
LCS Dup (1408480-BSD1)						Prepared & Analyzed: 18-Apr-14				
Lead	**1.25**		mg/l	0.0075	1.25		100	85-115	2	20
Duplicate (1408480-DUP1)			**Source: SB87479-01**			Prepared & Analyzed: 18-Apr-14				
Lead	**0.0040**	J	mg/l	0.0075		0.0038			5	20
Matrix Spike (1408480-MS1)			**Source: SB87479-01**			Prepared & Analyzed: 18-Apr-14				
Lead	**1.11**		mg/l	0.0075	1.25	0.0038	89	75-125		
Matrix Spike Dup (1408480-MSD1)			**Source: SB87479-01**			Prepared & Analyzed: 18-Apr-14				
Lead	**1.08**		mg/l	0.0075	1.25	0.0038	86	75-125	3	20
Post Spike (1408480-PS1)			**Source: SB87479-01**			Prepared & Analyzed: 18-Apr-14				
Lead	**1.25**		mg/l	0.0075	1.25	0.0038	100	80-120		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1408033 - General Preparation										
Blank (1408033-BLK1)						Prepared: 14-Apr-14 Analyzed: 15-Apr-14				
Total Suspended Solids	< 5.0		mg/l	5.0						
LCS (1408033-BS1)						Prepared: 14-Apr-14 Analyzed: 15-Apr-14				
Total Suspended Solids	**98.0**		mg/l	10.0	100		98	90-110		

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S404000				
Calibration Check (S404000-CCV1)				
C9-C18 Aliphatic Hydrocarbons	302221.9	263354.1	-0.1	25
C19-C36 Aliphatic Hydrocarbons	596935.6	310553.3	0.5	25
Unadjusted C11-C22 Aromatic Hydrocarbons	46.33358	18.29834	-7.6	25
Naphthalene	7.690352	6.876156	-10.6	25
2-Methylnaphthalene	5.366286	5.005971	-6.7	25
Acenaphthylene	7.081369	7.016147	-0.9	25
Acenaphthene	4.668751	5.132223	9.9	25
Fluorene	5.106566	4.871739	-4.6	25
Phenanthrene	6.775266	6.70188	-1.1	25
Anthracene	6.481357	7.025361	8.4	25
Fluoranthene	6.686721	6.788364	1.5	25
Pyrene	7.035682	7.061167	0.4	25
Benzo (a) anthracene	5.357012	5.910473	10.3	25
Chrysene	5.669337	5.62301	-0.8	25
Benzo (b) fluoranthene	4.894696	4.91537	0.4	25
Benzo (k) fluoranthene	5.269585	5.949994	12.9	25
Benzo (a) pyrene	4.30189	5.236558	4.4	25
Indeno (1,2,3-cd) pyrene	4.855668	5.976548	3.5	25
Dibenzo (a,h) anthracene	4.240684	4.990845	1.7	25
Benzo (g,h,i) perylene	4.619147	4.992844	8.1	25
n-Nonane (C9)	262228.9	243343.8	-7.2	30
n-Decane	262820.7	249967.6	-4.9	25
n-Dodecane	262601.7	251602.4	-4.2	25
n-Tetradecane	260454.5	248834	-4.5	25
n-Hexadecane	257375.7	245743.6	-4.5	25
n-Octadecane	252236.4	239073.4	-5.2	25
n-Nonadecane	246673.5	233058.2	-5.5	25
n-Eicosane	241555.5	225296.6	-6.7	25
n-Docosane	235619.4	213853.4	-9.2	25
n-Tetracosane	231283.6	203990.6	-11.8	25
n-Hexacosane	230400.3	198712.2	-13.8	25
n-Octacosane	224214	190410	-15.1	25
n-Triacontane	228545.5	196492.8	-14.0	25
n-Hexatriacontane	212745.2	170146.5	-20.0	25
Calibration Check (S404000-CCV2)				
C9-C18 Aliphatic Hydrocarbons	302221.9	280047.5	6.5	25
C19-C36 Aliphatic Hydrocarbons	596935.6	326983.5	7.8	25
Unadjusted C11-C22 Aromatic Hydrocarbons	46.33358	17.94134	-9.7	25
Naphthalene	7.690352	6.499576	-15.5	25
2-Methylnaphthalene	5.366286	4.823986	-10.1	25
Acenaphthylene	7.081369	6.995402	-1.2	25
Acenaphthene	4.668751	4.230803	-9.4	25
Fluorene	5.106566	4.923509	-3.6	25
Phenanthrene	6.775266	6.572349	-3.0	25
Anthracene	6.481357	6.8746	6.1	25
Fluoranthene	6.686721	6.995291	4.6	25
Pyrene	7.035682	7.213894	2.5	25
Benzo (a) anthracene	5.357012	5.967908	11.4	25
Chrysene	5.669337	5.891976	3.9	25
Benzo (b) fluoranthene	4.894696	5.210719	6.5	25
Benzo (k) fluoranthene	5.269585	6.096385	15.7	25

Extractable Petroleum Hydrocarbons - CCV Evaluation Report

Analyte(s)	Average RF	CCRF	% D	Limit
Batch S404000				
Calibration Check (S404000-CCV2)				
Benzo (a) pyrene	4.30189	5.339057	6.4	25
Indeno (1,2,3-cd) pyrene	4.855668	6.004719	4.0	25
Dibenzo (a,h) anthracene	4.240684	5.07739	3.4	25
Benzo (g,h,i) perylene	4.619147	5.051544	9.4	25
n-Nonane (C9)	262228.9	261714.8	-0.2	30
n-Decane	262820.7	269941.6	2.7	25
n-Dodecane	262601.7	271622	3.4	25
n-Tetradecane	260454.5	268881.8	3.2	25
n-Hexadecane	257375.7	267018.8	3.7	25
n-Octadecane	252236.4	259495.8	2.9	25
n-Nonadecane	246673.5	252610	2.4	25
n-Eicosane	241555.5	246488	2.0	25
n-Docosane	235619.4	242218.6	2.8	25
n-Tetracosane	231283.6	236196.2	2.1	25
n-Hexacosane	230400.3	231933.6	0.7	25
n-Octacosane	224214	222029.6	-1.0	25
n-Triacontane	228545.5	226488.2	-0.9	25
n-Hexatriacontane	212745.2	191480.9	-10.0	25

Notes and Definitions

QB1	The method blank contains analyte at a concentration above the MRL; however, concentration is less than 10% of the sample result, which is negligible according to method criteria.
QM8	The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
QR2	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline - includes regular, unleaded, premium, etc.
Fuel Oil #2 - includes home heating oil, #2 fuel oil, and diesel
Fuel Oil #4 - includes #4 fuel oil
Fuel Oil #6 - includes #6 fuel oil and bunker "C" oil
Motor Oil - includes virgin and waste automobile oil
Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha
Aviation Fuel - includes kerosene, Jet A and JP-4
Other Oil - includes lubricating and cutting oil, and silicon oil

At times, the unidentified petroleum product is quantified using a calibration that most closely approximates the distribution of compounds in the sample. When this occurs, the result is qualified as Calculated as.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
June O'Connor
Nicole Leja
Rebecca Merz

SB 87479 SCH

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:
- ☐ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 5 days

All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 60 days unless otherwise instructed.

Report To: ECS Worcester, MA
Telephone #: 508-756-0151
Project Mgr: Matt Lyne

Invoice To: CFI Framingham, MA
P.O No.: Pending Quote/RQN:

Project No: 03-220304.02
Site Name: CFI-Aquisition / Former Rite Aid
Location: 210 Worcester St, North Grafton State: MA
Sampler(s): N. Holmes

F=Field Filtered 1=Na_2S2O_3 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid
7=CH3OH 8=$NaHSO_4$ 9=Deionized Water 10=H_3PO_4 11= 12=

DW=Dinking Water GW=Groundwater SW=Surface Water WW=Waste Water
O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
X1= X2= X3=

G= Grab C=Compsite

List Preservative Code below: 2 2 2 - - - -

QA/QC Reporting Notes:
* additional charges may appply

MA DEP MCP CAM Report? ☒ Yes ☐ No
CT DPH RCP Report? ☐ Yes ☐ No
☒ Standard ☐ No QC ☐ DQA*
☐ ASP A* ☐ ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ Tier II* ☐ Tier IV*
☐ Other:
State-specific reporting standards:

Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Analysis: VOCs 8260	EPH	TPH 1664	PCB's	TSS	Total Lead	Total Iron	Check if chlorinated
SB87479-01	MW-3	4/10/14	14:58	G	GW	3	3		2	x	x	x	x	x	x	x	☐
																	☐
																	☐
																	☐
																	☐
																	☐
																	☐
																	☐
																	☐
																	☐

3.2/0/3.2 IR01
AME 04-11-14

Relinquished by:	Received by:	Date:	Time:	Temp °C
		4-11-14	10:42	Observed
	AME	04-11-14	15:00	Correction Factor
				Corrected
				IR ID #

☐ EDD format:
☒ E-mail to: mlyne@ecsconsult.com

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☒ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

ATTACHMENT III

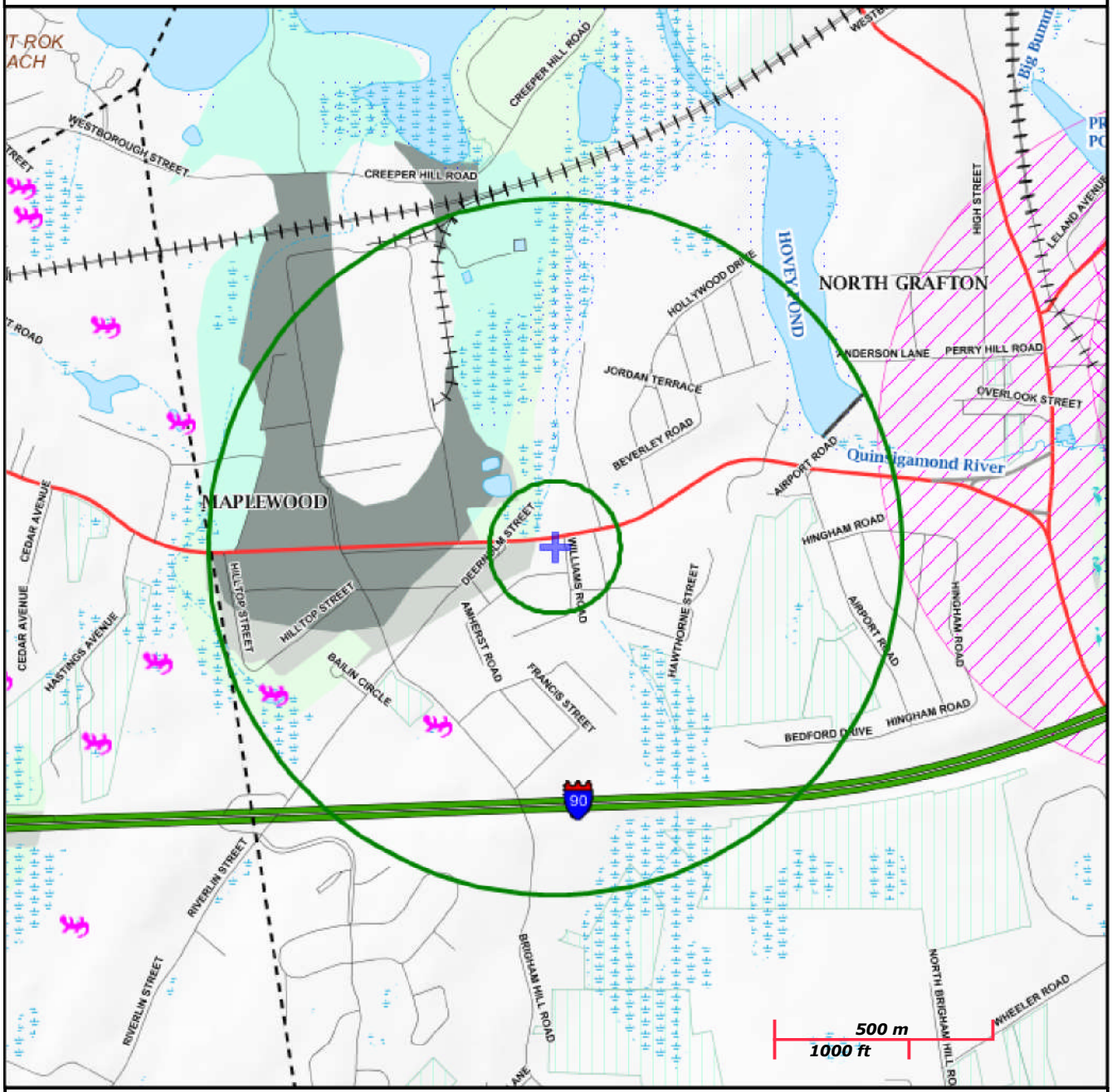
MassDEP - Bureau of Waste Site Cleanup

MCP Numerical Ranking System Map: 500 feet & 0.5 Mile Radii

Site Information:
CUMBERLAND FARMS, INC.
217 WORCESTER STREET GRAFTON, MA
NAD83 UTM Meters:
4678730mN , 275402mE (Zone: 19)
April 16, 2014

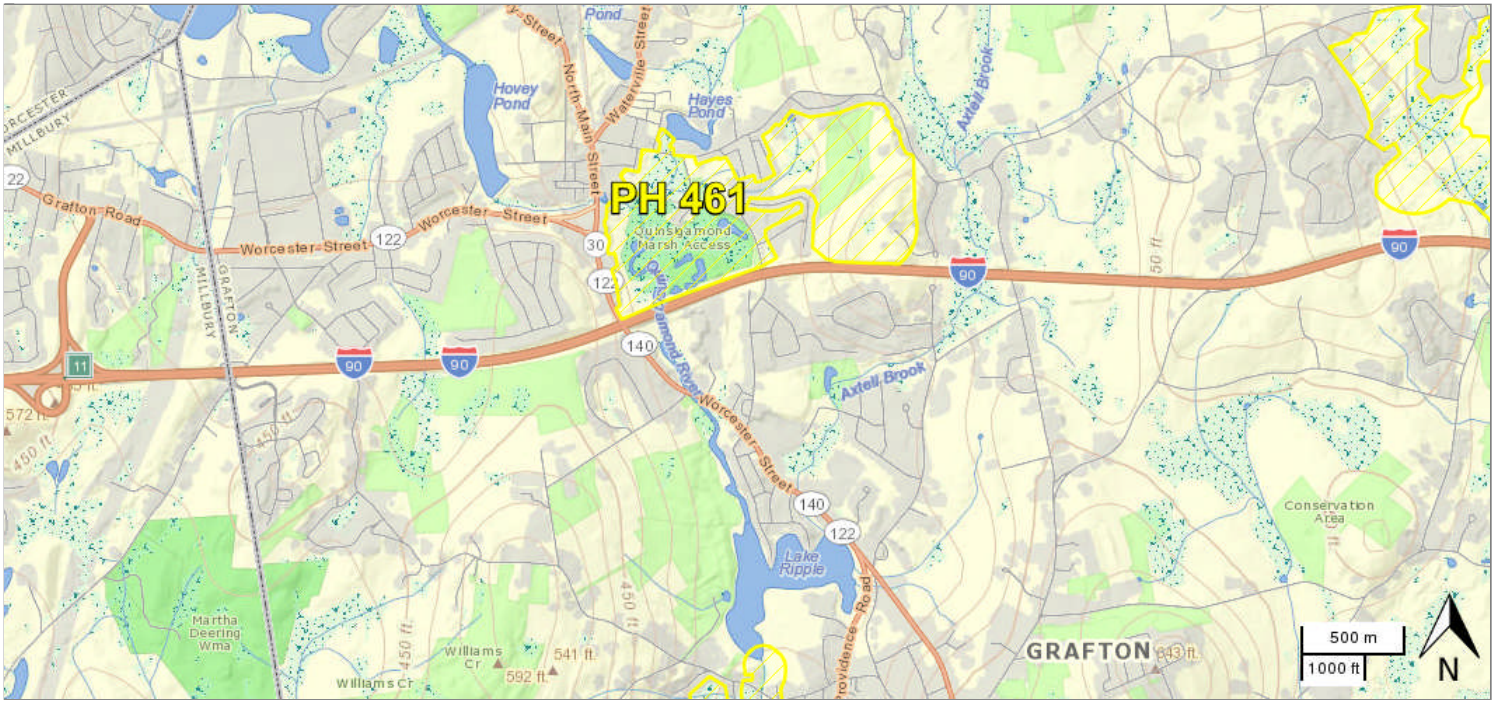
The information shown is the best available at the date of printing. However, it may be incomplete. The responsible party and LSP are ultimately repsponsible for ascertaining the true conditions surrounding the site. Metadata for data layers shown on this map can be found at: http://www.mass.gov/mgis/.

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.

NHESP Map- 217 Worcester Street, Worcester, MA



NHESP Natural Communities

NHESP Priority Habitats of Rare Species

NHESP Estimated Habitats of Rare Wildlife

Detailed Features

ATTACHMENT IV

Massachusetts Cultural Resource Informati
MACRIS

MHC Home | MACRIS Home

Results

Get Results in Report Format
○PDF ◉Spreadsheet

Below are the results of your search, using the following search criteria:
Town(s): Grafton
Street No: 217
Street Name: Worcester

For more information about this page and how to use it, click here

No Results Found.

New Search | New Search – Same Town(s) | Previous

MHC Home | MACRIS Home

ATTACHMENT V

Enter your transmittal number → X260799 (Transmittal Number)

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

Massachusetts Department of Environmental Protection

Transmittal Form for Permit Application and Payment

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

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

3. Three copies of this form will be needed.

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

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

MassDEP
P.O. Box 4062
Boston, MA
02211

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

A. Permit Information

BRP WM 12	Water Management
1. Permit Code: 7 or 8 character code from permit instructions	2. Name of Permit Category

EPA General Permit Construction Dewatering
3. Type of Project or Activity

B. Applicant Information – Firm or Individual

Cumberland Farms Inc
1. Name of Firm - Or, if party needing this approval is an individual enter name below:

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

100 Crossing Boulevard
5. Street Address

Framingham	MA	01702	508-270-4477	
6. City/Town	7. State	8. Zip Code	9. Telephone #	10. Ext. #

Matthew Young	myoung@cumberlandgulf.com
11. Contact Person	12. e-mail address (optional)

C. Facility, Site or Individual Requiring Approval

Cumberland Farms Facility
1. Name of Facility, Site Or Individual

217 Worcester Street
2. Street Address

North Grafton	MA	01519	508-270-4477	
3. City/Town	4. State	5. Zip Code	6. Telephone #	7. Ext. #

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

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

1. Name of Firm Or Individual

2. Address

3. City/Town	4. State	5. Zip Code	6. Telephone #	7. Ext. #

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

E. Permit - Project Coordination

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

EOEA File Number

F. Amount Due

DEP Use Only

Permit No:

Rec'd Date:

Reviewer:

Special Provisions:

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

148230	$950.00	4/25/14
Check Number	Dollar Amount	Date

148230

ENVIRONMENTAL COMPLIANCE SERVICES, INC.
588 SILVER STREET
AGAWAM, MASSACHUSETTS 01001
(413) 789-3530

WESTFIELD BANK
WESTFIELD, MA 01086
53-7160-2118

CHECK DATE
4/25/14

PAY
Nine Hundred Fifty and 00/100 Dollars

AMOUNT
950.00

TO
Commonwealth of Massachusetts

Details on back.

⑈148230⑈ ⑆211871604⑆ 100105131 5⑈

ENVIRONMENTAL COMPLIANCE SERVICES,INC.

148230

Check Date: 4/25/2014

Invoice Number	Date	Voucher	Amount	Discounts	Previous Pay	Net Amount
RGP Discharge - N. Grafton	4/25/2014	000000261529	950.00			950.00
Commonwealth of Massachusetts		TOTAL	950.00			950.00
Cash (1315) - Westfield Corp 3		MASS009				

148230