October 25, 2012

US Environmental Protection Agency
Dewatering GP Processing
Municipal Assistance Unit (CMU)
1 Congress Street, Suite 1100
Boston, MA 02114-2023

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

Re: Dewatering General Permit – Notice of Intent
1 Republic Road
Billerica, Massachusetts 01862

To Whom It May Concern:

At the request of Global Montello Group Corp (Global), Groundwater & Environmental Services, Inc. (GES) is submitting the attached Dewatering General Permit (DGP) – Notice of Intent (NOI) for the temporary discharge of groundwater that is anticipated to be generated during construction activities located at 1 Republic Road in Billerica, Massachusetts (the site). The DGP-NOI form is included as Attachment A.

Global intends to re-develop the property as a retail petroleum station. Based upon the available information, the site was used as a restaurant from approximately 1972 to the late 1990s, after which the former restaurant building has been vacant. The site has been used solely as a restaurant and prior to use as a restaurant, the property was vacant land. No known releases to the environment have occurred at the site. According to the on-line Massachusetts Department of Environmental Protection (MassDEP) searchable database, there is one MassDEP listed site within 500 feet of the site. The release condition which triggered notification to the MassDEP in August 2007 (sudden release of 20 gallons of potassium hydroxide solution) at a Town of Billerica wastewater treatment facility located on 270 Treble Cove Road achieved regulatory closure with a Class A-1 Response Action Outcome (RAO) in October 10, 2007. Due to relative elevation of this facility, the release does not have implications for the proposed discharge. A Site Location Map and Site Map are provided as Figures 1 and 2, respectively.

As part of the proposed re-development, an excavation measuring approximately 30 ft by 30 ft by 15 ft below ground surface (bgs) will be required for the installation of underground storage tanks (USTs). Based upon gauging data of monitoring wells at the site, the depth to groundwater is approximately 7.5 feet bgs. Therefore, temporary construction dewatering with an assumed duration of 30 days or less will be required to facilitate the installation of USTs.

On October 17, 2012, a groundwater sample was obtained from monitoring well MW-5 which is located in the area of the proposed excavation area. In accordance with DGP application, the groundwater sample was analyzed for pH, chloride, and metals (antimony, arsenic, cadmium, total chromium, hexavalent chromium, copper, iron, mercury, nickel, silver and zinc). Laboratory analytical results are summarized in Table 1 and the laboratory report is included as Attachment B. Laboratory analytical results indicated that the concentrations of antimony, cadmium, total chromium, hexavalent chromium, copper, mercury, nickel and silver were not detected. Zinc was detected at a concentration of 0.0206 mg/L and below the Environmental Protection Agency's (EPA) National Pollutant Discharge Elimination System (NPDES) MA effluent limits for discharge into freshwater, of 0.0666 mg/L. The concentrations of arsenic (0.169 mg/L) and iron (22.1 mg/L) exceeded the EPA NPDES MA freshwater effluent limits of 0.1 and 1.0 mg/L, respectively. Laboratory results indicated that the concentration of total suspended solids (TSS) was detected at 10 mg/L and below the EPA NPDES MA effluent limit of 30 mg/L. Analytical results indicated a pH of 5.4 standard units (s.u.) in the groundwater sample which is below the range of 6.5 to 8.3 s.u. As described in detail below, the proposed discharge will terminate at a storm drain line that discharges into vegetated areas rather than freshwater, therefore comparison to freshwater effluent limits is conservative. A schematic drawing, or process flow diagram of the proposed treatment system (if required based upon analytical data from the frac tank), is included in Attachment C.

During the construction dewatering process, groundwater will be pumped from the excavation into a fractionation tank for settling and equalization. Prior to discharging, a grab water sample collected from the fractionation tank will be submitted for analyses by the applicable EPA methods for pH, arsenic, and iron to determine if additional treatment (i.e. bag filters, ion exchange vessels, pH neutralization) will be required prior to discharging at 50 gallons per minute or less into the catch basin that is located northwest of the site on the north side of Republic Road. If required based upon analytical data, the treatment process may utilize pH adjustment using sodium hydroxide within the frac tank, filtration using two trains of two 10 micron bag filters, and two resin vessels plumbed in series and each containing 20 cu ft of CGS resin. A flow totalizer will record the volumes groundwater discharged each day.

The location of the site, the catch basin, the storm drain line and the outfalls are depicted on the aerial photo (Attachment D) provided by the Town of Billerica Engineering Department. As shown on the aerial photo, the storm drain line from the catch basin extends northeast for approximately 230 feet and then approximately 150 feet east-northeast to the first outfall which discharges to a vegetated area south of the Route 3 ramp. The storm drain line extends northwest beneath the Route 3 on-ramp to a second outfall which discharges to a vegetated area.

The site is not located at or near any location subject to consultation with the U.S. Fisheries and Wildlife Service or the National Fisheries Service. According to the Massachusetts Division of Fisheries and Wildlife, the site is not located within a National Heritage Endangered Species Program (NHESP) Estimated or Priority Habitat (http://www.mass.gov/dfwele/dfw/nhesp/nhesp.htm). As shown on the attached MassDEP Bureau of Waste Site Cleanup (BWSC) Site Scoring Map, the site is not located within an Area of Critical Environmental Concern (ACEC). According to the National Park Service's National Register Information System (NRIS) (http://www.nps.gov/nr/), there are more than 1,300 listed historical sites in Middlesex county and eight listed for the Town of Billerica, Massachusetts. All of the listed historical sites are over a mile away from the site and will therefore not be adversely affected by the proposed discharge. Copies of the NHESP, NRIS, and BWSC listings and /or maps are included in Attachment E.

If you have any questions or require further information, please contact the undersigned at (800) 221-6119.

Sincerely,

Groundwater & Environmental Services, Inc.

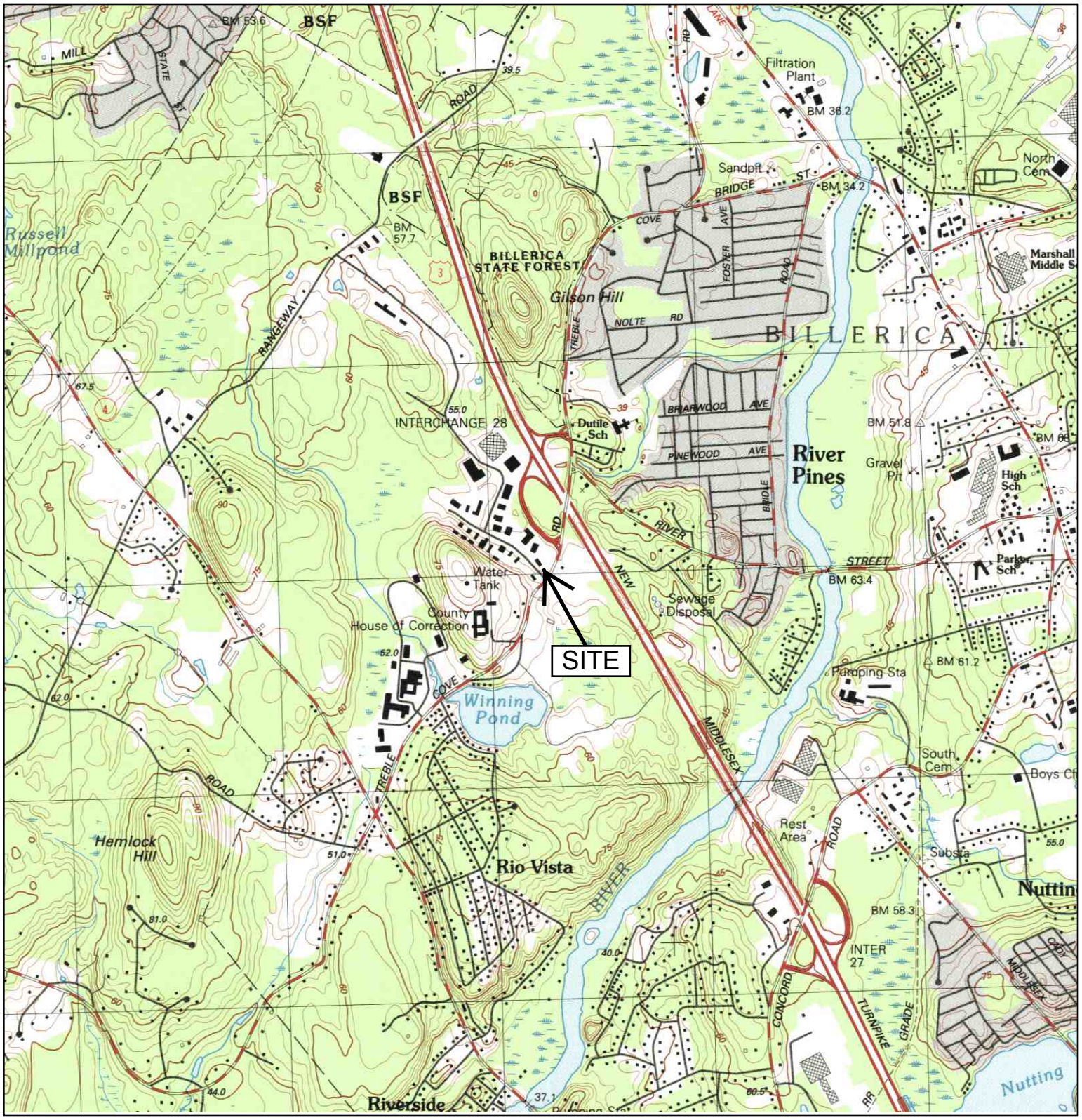
Mary W. Cathey
Project Geologist

Michael Decoteau, PE
Senior Project Engineer

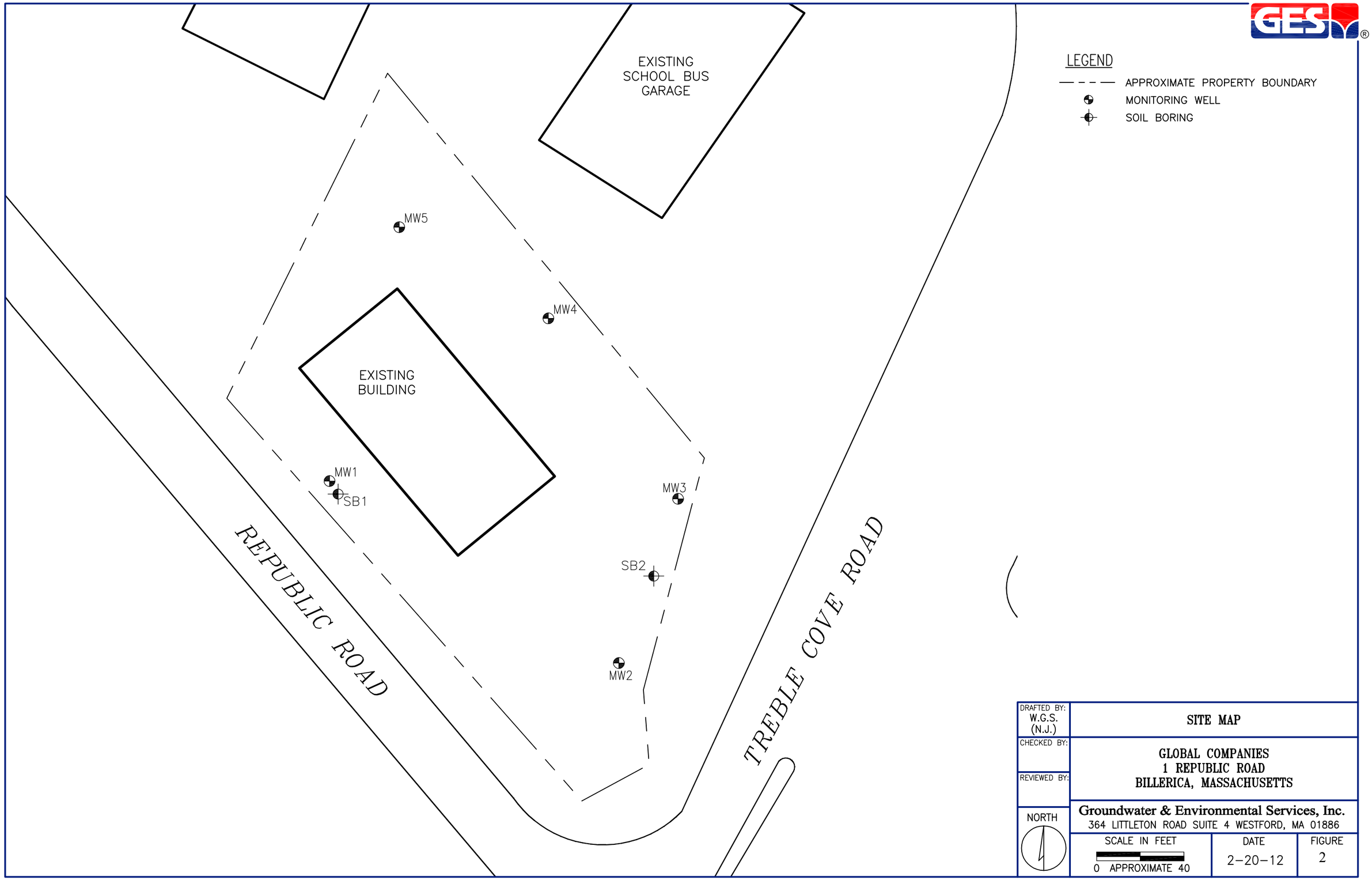
cc: Global

Figures and Table

Figure 1



N	TARGET QUAD NAME: BILLERICA MAP YEAR: 1987 SERIES: 7.5 SCALE: 1:25000	SITE NAME: 1 Republic Road ADDRESS: 1 Republic Road North Billerica, MA 01862 LAT/LONG: 42.5578 / -71.2989	CLIENT: Groundwater & Env. Svcs. LLC CONTACT: Mary W. Cathey INQUIRY#: 3245464.4 RESEARCH DATE: 01/25/2012



M:\Graphics\1600-Westford\Global Partners\Billerica\Billerica SM.dwg, B-40, 2/20/2012 11:55:52 AM, WShea

DRAFTED BY: W.G.S. (N.J.)	SITE MAP
CHECKED BY:	GLOBAL COMPANIES 1 REPUBLIC ROAD BILLERICA, MASSACHUSETTS
REVIEWED BY:	
NORTH	Groundwater & Environmental Services, Inc. 364 LITTLETON ROAD SUITE 4 WESTFORD, MA 01886
SCALE IN FEET 0 APPROXIMATE 40	DATE: 2-20-12 / FIGURE: 2

Attachment A

II. Suggested Notice of Intent (NOI) Form

1. General facility information. Please provide the following information about the facility.

a) Name of facility: 1 Republic Road, Billerica, MA	**Mailing Address for the Facility:** 241 Treble Cove Road, Billerica, MA, 01862	
b) Location Address of the Facility (if different from mailing address): 1 Republic Road, Billerica, MA	**Facility Location** **longitude:** -71.298862 **latitude:** 42.557839	**Type of Business:** current: vacant (former restaurant); proposed: retail petrol **Facility SIC codes:**

c) Name of facility owner: Black Cove LLC **Owner's email:** _____

Owner's Tel #: 508-574-3000 **Owner's Fax #:** _____

Address of owner (if different from facility address)

PO Box 755
Randolph, MA 02368

Owner is (check one): 1. Federal____ 2. State _____ 3.Tribal_____ 4. Private_✓__ 4. Other _____(Describe)

Legal name of Operator, if not owner: Global Montello Group Corp.

Operator Contact Name: Steven Charron

Operator Tel Number: (781) 786-6320 **Fax Number:** (781) 398-9270

Operator's email: scharron@globalp.com

Operator Address (if different from owner)

404 Wyman Street, Suite 425, Waltham, MA, 02451

d) Attach a topographic map indicating the location of the facility and the outfall(s) to the receiving water. Map attached? _✓_

e) Check Yes or No for the following:

1. **Has a prior NPDES permit been granted for the discharge? Yes ____ No_✓_ If Yes, Permit Number: _____**
2. **Is the discharge a "new discharge" as defined by 40 CFR Section 122.22? Yes_✓_ No_____**
3. **Is the facility covered by an individual NPDES permit? Yes_____ No_✓_ If Yes, Permit Number ____**
4. **Is there a pending application on file with EPA for this discharge? Yes_____ No _✓_ If Yes, date of submittal:**

2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed)

a) Name of receiving water into which discharge will occur: discharge will occur in a vegetated area along Route
State Water Quality Classification: NA **Freshwater:** NA **Marine Water:** NA

b) Describe the discharge activities for which the owner/applicant is seeking coverage:
1. **Construction dewatering of groundwater intrusion and/or storm water accumulation.**
2. **Short-term or long-term dewatering of foundation sumps.**
3. **Other.**

c) Number of outfalls 1

For each outfall:

d) Estimate the maximum daily and average monthly flow of the discharge (in gallons per day – GPD). Max Daily Flow 72,000 **GPD**
Average Monthly Flow 72,000 **GPD**

e) What is the maximum and minimum monthly pH of the discharge (in s.u.)? Max pH 8.3 **Min pH** 5.84

f) Identify the source of the discharge (i.e. potable water, surface water, or groundwater). If groundwater, the facility shall submit effluent test results, as required in Section 4.4.5 of the General Permit. groundwater (see attached laboratory report in Attachment B for sampling results)

g) What treatment does the wastewater receive prior to discharge? equalization/sedimentation tank (additional information provided in attached letter)

h) Is the discharge continuous? Yes _____ **No** ✓ **If no, is the discharge periodic (P) (occurs regularly, i.e., monthly or seasonally, but is not continuous all year) or intermittent (I) (occurs sometimes but not regularly) or both (B)** I
If (P), number of days or months per year of the discharge _____ **and the specific months of discharge** _____;
If (I), number of days/year there is a discharge 30
Is the discharge temporary? Yes ✓ **No** _____
If yes, approximate start date of dewatering 11/15/12 **approximate end date of dewatering** 12/15/12

i) Latitude and longitude of each discharge within 100 feet (See http://www.epa.gov/tri/report/siting_tool): Outfall 1: long. -71.29974 **lat.** 42.55824;
Outfall 2: long._____ **lat.**_____; **Outfall 3: long.**_____ **lat.**_____.

j) If the source of the discharge is potable water, please provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water and attach any calculation sheets used to support stream flow and dilution calculations NA **cfs**
(See Appendix VII for equations and additional information)

MASSACHUSETTS FACILITIES: See Section 3.4 and Appendix 1 of the General Permit for more information on Areas of Critical Environmental Concern (ACEC):

k) Does the discharge occur in an ACEC? Yes _____ No ✓
If yes, provide the name of the ACEC: _____

3. Contaminant Information

a) Are any pH neutralization and/or dechlorination chemicals used in the discharge? If so, include the chemical name and manufacturer; maximum and average daily quantity used as well as the maximum and average daily expected concentrations (mg/l) in the discharge, and the vendor's reported aquatic toxicity (NOAEL and/or LC_{50} in percent for aquatic organism(s)).

b) Please report any known remediation activities or water-quality issues in the vicinity of the discharge.

4. Determination of Endangered Species Act Eligibility: Provide documentation of ESA eligibility as required at Part 3.4 and Appendices III and IV. In addition, respond to the following questions.

a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes____No✓
b) Has any consultation with the federal services been completed ? Yes___ No✓
c) Is consultation underway? Yes ____ No✓
d) What were the results of the consultation with the U.S. Fish and Wildlife Service and/or NOAA Fisheries Service (check one): a "no jeopardy" opinion _____or written concurrence____ on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat.
e) Which of the five eligibility criteria listed in Appendix 2, Section B (A,B,C,D,or E) have you met? A
f) Please attach a copy of the most current federal listing of endangered and threatened species, found at USF&W website.

5. Documentation of National Historic Preservation Act requirements: Please respond to the following questions:

a) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility site or in proximity to the discharge? Yes _____ No ✓
b) Have any State or Tribal historic preservation officers been consulted in this determination? Yes _____ or No ✓ If yes, attach the results of the consultation(s).
c) Which of the three National Historic Preservation Act requirements listed in Appendix 3, Section C (1,2 o3) have you met? 1

6. 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

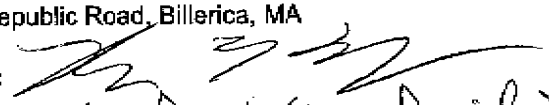
7. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22 (see below) including the following certification:

I certify under penalty of law that (1) no biocides or other chemical additives except for those used for pH adjustment and/or dechlorination are used in the dewatering system; (2) the discharge consists solely of dewatering and authorized pH adjustment and/or

dechlorination chemicals; (3) the discharge does not come in contact with any raw materials, intermediate product, water product or finished product; (4) if the discharge of dewatering subsequently mixes with other permitted wastewater (i.e.stormwater) prior to discharging to the receiving water, any monitoring provided under this permit will be only for dewatering discharge; (5) where applicable, the facility has complied with the requirements of this permit specific to the Endangered Species Act and National Historic Preservation Act; and (6) 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 Name: 1 Republic Road, Billerica, MA

Operator signature: 

Title: Thomas Keefe Vice President Environmental Heath & Safety

Date: 10/24/12

Federal regulations require this application to be signed as follows:

1. For a corporation, by a principal executive officer of at least the level of vice president;
2. For partnership or sole proprietorship, by a general partner or the proprietor, respectively, or,
3. For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.

Attachment B

Report Date:
19-Oct-12 14:49

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

GES, Inc.
364 Littleton Road, Suite 4
Westford, MA 01886
Attn: Brian Horan

Project: 1 Republic Road - Billerica, MA
Project #: 1604282

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SB58333-01	MW-5	Ground Water	17-Oct-12 09:00	17-Oct-12 16:15

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 7 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 and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

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

CASE NARRATIVE:

The samples were received 1.0 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.

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

EPA 245.1/7470A

Laboratory Control Samples:

1225414 BS

Mercury percent recovery 81 (85-115) is outside individual acceptance criteria, but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

MW-5

SW846 6010C

Blanks:

1225422-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

Laboratory Control Samples:

1225422-BS1

Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Iron

1225422-BSD1

Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Iron

Samples:

SB58333-01 *MW-5*

Analyte is found in the associated blank as well as in the sample (CLP B-flag).

Iron

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
MW-5 SB58333-01	1604282	Ground Water	17-Oct-12 09:00	17-Oct-12

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Total Metals by EPA 200/6000 Series Methods													
	Preservation	**Field Preserved**		N/A			1	EPA 200/6000 methods			ZJG	1225520	
Total Metals by EPA 6000/7000 Series Methods													
7440-22-4	Silver	< 0.0050		mg/l	0.0050	0.0014	1	SW846 6010C	18-Oct-12	18-Oct-12	EDT	1225422	
7440-38-2	Arsenic	**0.169**		mg/l	0.0040	0.0024	1	"	"	"	"	"	
7440-43-9	Cadmium	< 0.0025		mg/l	0.0025	0.0002	1	"	"	"	"	"	
7440-47-3	Chromium	< 0.0050		mg/l	0.0050	0.0026	1	"	"	"	"	"	
7440-50-8	Copper	< 0.0050		mg/l	0.0050	0.0014	1	"	"	"	"	"	
7439-89-6	Iron	**22.1**	B	mg/l	0.0150	0.0100	1	"	"	"	"	"	
7440-02-0	Nickel	< 0.0050		mg/l	0.0050	0.0005	1	"	"	"	"	"	
7440-36-0	Antimony	< 0.0060		mg/l	0.0060	0.0033	1	"	"	"	"	"	
7440-66-6	Zinc	**0.0206**		mg/l	0.0050	0.0022	1	"	"	"	"	"	
Total Metals by EPA 200 Series Methods													
7439-97-6	Mercury	< 0.00020		mg/l	0.00020	0.00007	1	EPA 245.1/7470A	18-Oct-12	19-Oct-12	EDT	1225414	X
General Chemistry Parameters													
16887-00-6	Chloride	**91.7**		mg/l	1.00	0.448	1	EPA 300.0	17-Oct-12	18-Oct-12	KK	1225450	X
18540-29-9	Hexavalent Chromium	< 0.005		mg/l	0.005	0.003	1	SW846 7196A/SM3500C rD	17-Oct-12 19:42	17-Oct-12 19:50	TDD/C	1225458	
	pH	**5.84**	pH	pH Units			1	ASTM D 1293-99B	17-Oct-12 17:55	17-Oct-12 17:55	SPW	1225350	X
	Total Suspended Solids	**10**		mg/l	5	2	1	SM2540D	18-Oct-12	19-Oct-12	SPW	1225504	X

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1225422 - SW846 3005A										
Blank (1225422-BLK1)					Prepared & Analyzed: 18-Oct-12					
Iron	**0.0288**	QB1	mg/l	0.0150						
Nickel	< 0.0050		mg/l	0.0050						
Antimony	< 0.0060		mg/l	0.0060						
Zinc	< 0.0050		mg/l	0.0050						
Chromium	< 0.0050		mg/l	0.0050						
Silver	< 0.0050		mg/l	0.0050						
Cadmium	< 0.0025		mg/l	0.0025						
Copper	< 0.0050		mg/l	0.0050						
Arsenic	< 0.0040		mg/l	0.0040						
LCS (1225422-BS1)					Prepared & Analyzed: 18-Oct-12					
Zinc	**1.23**		mg/l	0.0050	1.25		98	85-115		
Antimony	**1.15**		mg/l	0.0060	1.25		92	85-115		
Nickel	**1.19**		mg/l	0.0050	1.25		95	85-115		
Iron	**1.29**	B	mg/l	0.0150	1.25		103	85-115		
Silver	**1.19**		mg/l	0.0050	1.25		95	85-115		
Copper	**1.18**		mg/l	0.0050	1.25		94	85-115		
Chromium	**1.21**		mg/l	0.0050	1.25		97	85-115		
Cadmium	**1.22**		mg/l	0.0025	1.25		97	85-115		
Arsenic	**1.18**		mg/l	0.0040	1.25		95	85-115		
LCS Dup (1225422-BSD1)					Prepared & Analyzed: 18-Oct-12					
Antimony	**1.15**		mg/l	0.0060	1.25		92	85-115	0.2	20
Nickel	**1.20**		mg/l	0.0050	1.25		96	85-115	1	20
Zinc	**1.26**		mg/l	0.0050	1.25		101	85-115	3	20
Iron	**1.35**	B	mg/l	0.0150	1.25		108	85-115	5	20
Copper	**1.19**		mg/l	0.0050	1.25		95	85-115	0.8	20
Chromium	**1.24**		mg/l	0.0050	1.25		99	85-115	2	20
Silver	**1.20**		mg/l	0.0050	1.25		96	85-115	0.8	20
Arsenic	**1.20**		mg/l	0.0040	1.25		96	85-115	1	20
Cadmium	**1.25**		mg/l	0.0025	1.25		100	85-115	2	20

Total Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1225414 - EPA200/SW7000 Series										
Blank (1225414-BLK1)						Prepared: 18-Oct-12 Analyzed: 19-Oct-12				
Mercury	< 0.00020		mg/l	0.00020						
LCS (1225414-BS1)						Prepared: 18-Oct-12 Analyzed: 19-Oct-12				
Mercury	**0.00403**	QC3	mg/l	0.00020	0.00500		81	85-115		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1225350 - General Preparation										
Reference (1225350-SRM1)						Prepared & Analyzed: 17-Oct-12				
pH	**6.03**		pH Units		6.00		100	97.5-102.5		
Reference (1225350-SRM2)						Prepared & Analyzed: 17-Oct-12				
pH	**6.03**		pH Units		6.00		100	97.5-102.5		
Batch 1225450 - General Preparation										
Blank (1225450-BLK1)						Prepared: 17-Oct-12 Analyzed: 18-Oct-12				
Chloride	< 1.00		mg/l	1.00						
LCS (1225450-BS1)						Prepared: 17-Oct-12 Analyzed: 18-Oct-12				
Chloride	**20.6**		mg/l	1.00	20.0		103	90-110		
LCS (1225450-BS2)						Prepared: 17-Oct-12 Analyzed: 18-Oct-12				
Chloride	**3.84**		mg/l	1.00	4.00		96	90-110		
Reference (1225450-SRM1)						Prepared: 17-Oct-12 Analyzed: 18-Oct-12				
Chloride	**24.6**		mg/l	1.00	25.0		98	90-110		
Reference (1225450-SRM2)						Prepared: 17-Oct-12 Analyzed: 18-Oct-12				
Chloride	**4.67**		mg/l	1.00	5.00		93	90-110		
Batch 1225458 - General Preparation										
Blank (1225458-BLK1)						Prepared & Analyzed: 17-Oct-12				
Hexavalent Chromium	< 0.005		mg/l	0.005						
LCS (1225458-BS1)						Prepared & Analyzed: 17-Oct-12				
Hexavalent Chromium	**0.050**		mg/l	0.005	0.0500		100	80-120		
Calibration Blank (1225458-CCB1)						Prepared & Analyzed: 17-Oct-12				
Hexavalent Chromium	**0.00**		mg/l							
Calibration Blank (1225458-CCB2)						Prepared & Analyzed: 17-Oct-12				
Hexavalent Chromium	**0.00**		mg/l							
Calibration Check (1225458-CCV1)						Prepared & Analyzed: 17-Oct-12				
Hexavalent Chromium	**0.050**		mg/l	0.005	0.0500		100	85-115		
Calibration Check (1225458-CCV2)						Prepared & Analyzed: 17-Oct-12				
Hexavalent Chromium	**0.050**		mg/l	0.005	0.0500		100	85-115		
Duplicate (1225458-DUP1)			**Source: SB58333-01**			Prepared & Analyzed: 17-Oct-12				
Hexavalent Chromium	< 0.005		mg/l	0.005		BRL				20
Matrix Spike (1225458-MS1)			**Source: SB58333-01**			Prepared & Analyzed: 17-Oct-12				
Hexavalent Chromium	**0.050**		mg/l	0.005	0.0500	BRL	100	85-115		
Matrix Spike Dup (1225458-MSD1)			**Source: SB58333-01**			Prepared & Analyzed: 17-Oct-12				
Hexavalent Chromium	**0.050**		mg/l	0.005	0.0500	BRL	100	85-115	0	20
Reference (1225458-SRM1)						Prepared & Analyzed: 17-Oct-12				
Hexavalent Chromium	**0.025**		mg/l	0.005	0.0250		100	85-115		
Batch 1225504 - General Preparation										
Blank (1225504-BLK1)						Prepared: 18-Oct-12 Analyzed: 19-Oct-12				
Total Suspended Solids	< 5		mg/l	5						
LCS (1225504-BS1)						Prepared: 18-Oct-12 Analyzed: 19-Oct-12				
Total Suspended Solids	**94**		mg/l	10	100		94	90-110		

Notes and Definitions

B	Analyte is found in the associated blank as well as in the sample (CLP B-flag).
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.
QC3	The spike recovery is outside acceptable limits for the LCS. The batch was accepted based upon the MS and/or MSD meeting the LCS limits criteria.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
pH	The method for pH does not stipulate a specific holding time other than to state that the samples should be analyzed as soon as possible. For aqueous samples the 40 CFR 136 specifies a holding time of 15 minutes from sampling to analysis. Therefore all aqueous pH samples not analyzed in the field are considered out of hold time at the time of sample receipt. All soil samples are analyzed as soon as possible after sample receipt.

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:
Kimberly Wisk
Rebecca Merz

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

J 3B58333 JB

Special Handling:
- ☒ Standard TAT - 7 to 10 business days
- ☒ Rush TAT - Date Needed: 48-hr
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Approved by Dulce

Report To: Brian Horan & Mary Cathey
GES
364 Littleton Rd, Ste 4
Westford, MA 01886
Telephone #: 800-221-6119 x3244
Project Mgr. Mary Cathey

Invoice To: GES
364 Littleton Rd, Ste 4
Westford, MA 01886
P.O. No.: 1604282 RQN:

Project No.: 1604282
Site Name: 1 Republic Rd
Location: Billerica State: MA
Sampler(s): Mary Cathey

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10= none 11=

List preservative code below: 10 | 4 |

QA/QC Reporting Notes:
* additional charges may apply

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Containers: chloride	Analyses: TSS, pH, CrVI	Analyses: metals (Sb, As, Cd, Cr (total), Cu, Fe, Hg, Ni, Ag, Zn)
58333-01	MW-5	10/17/12	0900	G	~~SO~~ GW				13		X	X

MA DEP MCP CAM Report: Yes☐ No☒
CT DPH RCP Report: Yes☐ No☐

QA/QC Reporting Level
☒ Standard ☐ No QC ☐ DQA*
☐ NY ASP A* ☐ NY ASP B*
☐ NJ Reduced* ☐ NJ Full*
☐ TIER II* ☐ TIER V*
☐ Other

State-specific reporting standards:

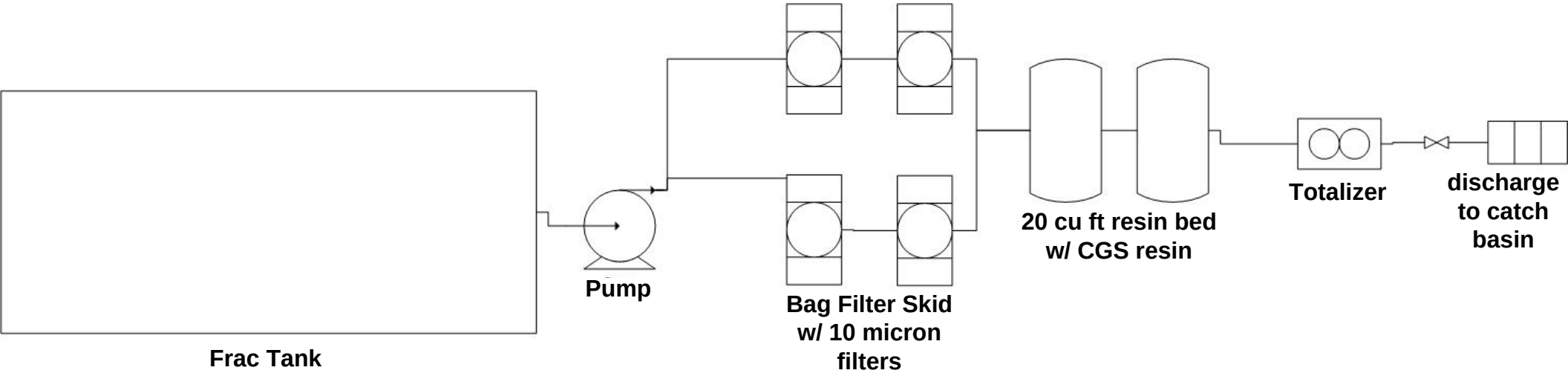
Relinquished by:	Received by:	Date:	Time:	Temp°C
Mary Cathey	GES Stock	10/17/12	1045	
		10-17-12	1312	
	JB	10/17/12	16:15	1.0

☐ EDD Format
☒ E-mail to mcathey@gesonline.com

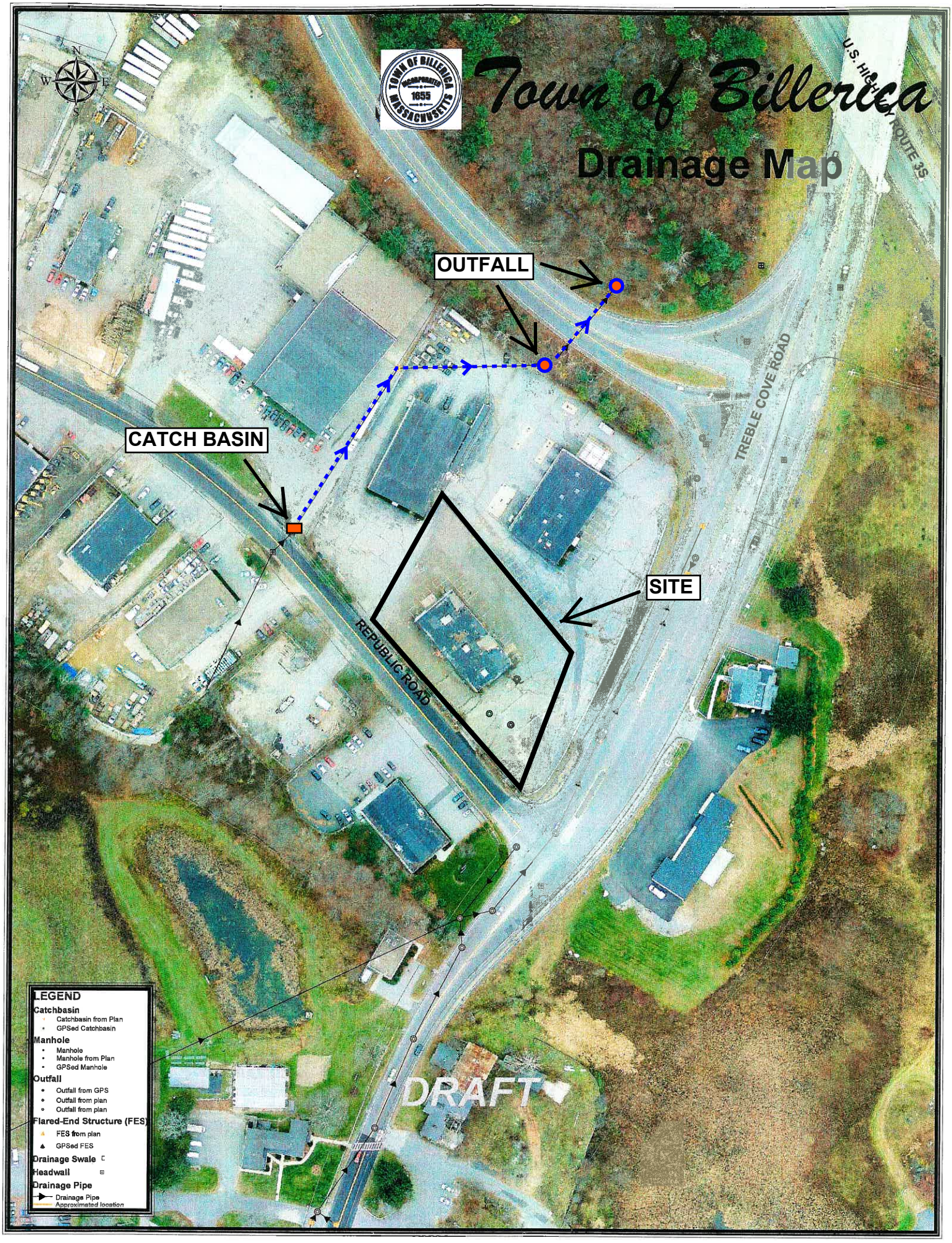
☐ Ambient ☐ Iced ☒ Refrigerated ☐ Fridge temp ___°C ☐ Freezer temp ___°C

Attachment C

Global Partners LP
1 Republic Road
Billerica, Massachusetts



Attachment D


Town of Billerica
Drainage Map
OUTFALL
CATCH BASIN
SITE
TREBLE COVE ROAD
REPUBLIC ROAD
U.S. HIGHWAY ROUTE 3S
DRAFT
LEGEND
Catchbasin
Catchbasin from Plan
GPSed Catchbasin
Manhole
Manhole
Manhole from Plan
GPSed Manhole
Outfall
Outfall from GPS
Outfall from plan
Outfall from plan
Flared-End Structure (FES)
FES from plan
GPSed FES
Drainage Swale
Headwall
Drainage Pipe
Drainage Pipe
Approximated location

Attachment E

MassDEP - Bureau of Waste Site Cleanup

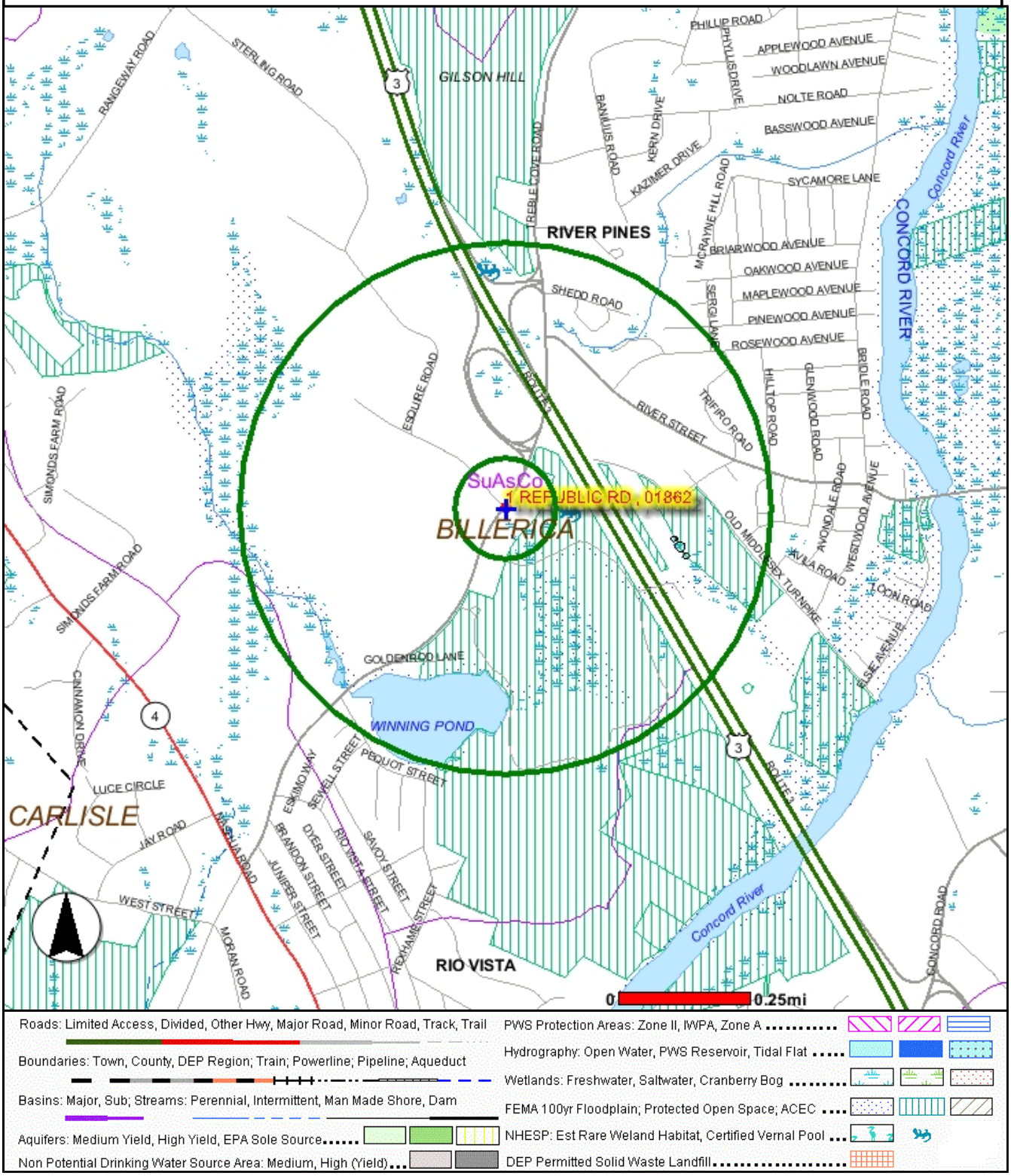
MCP Numerical Ranking System Map: 500 feet & 0.5 Mile Radii

Site Name:
1 Republic Road
Billerica, MA
RTN:
NAD83 MA Coordinates:
216545mE, 922974mN

October 21, 2012

The information shown on this map is the best available at the date of printing. For more information please refer to www.mass.gov/mgis/massgis.htm

MassDEP
Department of Environmental Protection



New England Field Office

Conserving the Nature of New England

Sunday,
October 21, 2012

ENDANGERED SPECIES
- Overview
- Consultation
- N.E. Listed Species
- Species Under Review
- Recovery Activities
- Habitat Conservation
- Images
- Biological Opinions

PARTNERS FOR FISH & WILDLIFE
- Overview
- Restoration Initiatives
- Species & Habitats of Special Concern
- Accomplishments
- How to Participate
- Habitat Restoration
- Links

ENVIRONMENTAL CONTAMINANTS
- Overview
- BTAG
- NRDAR
- Special Studies
- Oil Spills

FEDERAL ACTIVITIES
- Overview
- Federal Projects & Permits
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- FERC_ Hydropower Projects
- River Flow Protection
- Wind Energy Projects

OUTREACH
- NH Envirothon
- Kids Corner
- Let's Go Outside

Staff Directory

Our Location

HOME

BOOKMARK

Endangered Species

New England Listed Species

The following federally-listed species are protected in New England. This list includes links to species information on our National Fish and Wildlife Service website including current Federal Register documents, HCPs, Recovery Plans, Life History accounts.

Vertebrates

Mammals
Eastern Cougar -**Puma (=Felis) concolor couguar**
Gray Wolf -**Canis lupus**
Indiana Bat - **Myotis sodalis**
Canada Lynx - **Lynx canadensis**

Birds
Atlantic Coast Piping Plover - **Charadrius melodus**
Birds of North America Species Account ***Piping Plover***
Atlantic Coast piping plover website ***Piping Plover***
Roseate Tern – **Sterna dougallii dougallii**
Birds of North America Species Account ***Roseate Tern***

Reptiles
Bog Turtle - **Clemmys muhlenbergii**
Northern Redbelly Cooter (Plymouth redbelly turtle) **Pseudemys rubriventris bangsii**
Northern Redbelly Cooter 5-year Review;*(pdf size 1.6MB*) May 2007*

Fish
Atlantic Salmon - **Salmo salar** (Maine only)
Maine Atlantic Salmon Atlas

Invertebrates

Insects
American Burying Beetle - **Nicrophorus americanus**
Karner Blue Butterfly - **Lycaeides melissa samuelis**
Karner Blue Butterfly ***Fact sheet***
Northeastern Beach Tiger Beetle - **Cicindela dorsalis dorsalis**
Puritan Tiger Beetle - **Cicindela puritana**
Draft Puritan Tiger Beetle; *(pdf size 2.4MB*) 5-year Review*

Mussels
Dwarf Wedgemussel - ***Alasmidonta heterodon***
Dwarf Wedgemussel 5-Year Status Review 2007 *(pdf size 1.14MB*)*

Plants
Jesup 's Milkvetch - **Astragalus robbinsii var. jesupi**
Northeastern Bulrush - **Scirpus ancistrochaetus**
Sandplain Gerardia - **Agalinis acuta**
Small Whorled Pogonia - **Isotria medeoloides**
Seabeach Amaranth - **Amaranthus pumilus** (historic)
American Chaffseed - **Schwalbea americana** (historic)
Eastern Prairie Fringed Orchid - **Platanthera leucophaea** (Maine only)
Furbish's Lousewort - **Pedicularis furbishiae** (Maine only)

Candidate species and species recently delisted are identified below, including links for additional information regarding their status.

Candidate Species

The Service has recently completed a status assessment for the following species and determined that federally listing is "warranted, but precluded", i.e. the status of the species indicates that it should be listed but the listing is superceded by higher listing actions.

While there is currently no obligation for Federal Agencies to consult with us regarding these species, coordination is encouraged to avoid project delays that may occur as a result of the species becoming federally-listed during the planning or construction phases of a given project. In addition, the Service is interested in promoting conservation actions that may

result in benefits to these species that will prevent the need to list it. Information regarding our **candidate conservation** program may help you decide if you would like to become involved.

- **New England Cottontail; Sylvilagus transitionalis**
- Red Knot **Calidris canutus rufa**; **Red Knot Fact Sheet**

Delisted Species

Bald Eagle - **Haliaeetus leucocephalus**
Bald Eagle Guidance

NCTC Eagle Cam

This Bald Eagle image is a link to a Service website that chronicles the activities of the eagle nest located on the grounds of the USFWS National Conservation Training Center near the Potomac River in Shepherdstown, West Virginia. The nest has been active for four seasons, fledging several juvenile bald eagles.

Files in PDF format will require Acrobat Reader to access the content. If you do not have a copy, please select the link [or click the image] to take you to the Adobe website where you can download a free copy. Get Adobe Acrobat Reader

Last updated: October 28, 2010

MASSACHUSETTS AREAS OF CRITICAL ENVIRONMENTAL CONCERN
November 2010

Total Approximate Acreage: 268,000 acres
Approximate acreage and designation date follow ACEC names below.

Bourne Back River
(1,850 acres, 1989) Bourne

Canoe River Aquifer and Associated Areas (17,200 acres, 1991) Easton, Foxborough, Mansfield, Norton, Sharon, and Taunton

Cedar Swamp
(1,650 acres, 1975) Hopkinton and Westborough

Central Nashua River Valley
(12,900 acres, 1996) Bolton, Harvard, Lancaster, and Leominster

Cranberry Brook Watershed
(1,050 acres, 1983) Braintree and Holbrook

Ellisville Harbor
(600 acres, 1980) Plymouth

Fowl Meadow and Ponkapoag Bog
(8,350 acres, 1992) Boston, Canton, Dedham, Milton, Norwood, Randolph, Sharon, and Westwood

Golden Hills
(500 acres, 1987) Melrose, Saugus, and Wakefield

Great Marsh (originally designated as Parker River/Essex Bay)
(25,500 acres, 1979) Essex, Gloucester, Ipswich, Newbury, and Rowley

Herring River Watershed
(4,450 acres, 1991) Bourne and Plymouth

Hinsdale Flats Watershed
(14,500 acres, 1992) Dalton, Hinsdale, Peru, and Washington

Hockomock Swamp
(16,950 acres, 1990) Bridgewater, Easton, Norton, Raynham, Taunton, and West Bridgewater

Inner Cape Cod Bay
(2,600 acres, 1985) Brewster, Eastham, and Orleans

Kampoosa Bog Drainage Basin
(1,350 acres, 1995) Lee and Stockbridge

Karner Brook Watershed
(7,000 acres, 1992) Egremont and Mount Washington

Miscoe, Warren, and Whitehall Watersheds
(8,700 acres, 2000) Grafton, Hopkinton, and Upton

Neponset River Estuary
(1,300 acres, 1995) Boston, Milton, and Quincy

Petapawag
(25,680 acres, 2002) Ayer, Dunstable, Groton, Pepperell, and Tyngsborough

Pleasant Bay
(9,240 acres, 1987) Brewster, Chatham, Harwich, and Orleans

Pocasset River
(160 acres, 1980) Bourne

Rumney Marshes
(2,800 acres, 1988) Boston, Lynn, Revere, Saugus, and Winthrop

Sandy Neck Barrier Beach System
(9,130 acres, 1978) Barnstable and Sandwich

Schenob Brook Drainage Basin
(13,750 acres, 1990) Mount Washington and Sheffield

Squannassit
(37,420 acres, 2002) Ashby, Ayer, Groton, Harvard, Lancaster, Lunenburg, Pepperell, Shirley, and Townsend

Three Mile River Watershed
(14,280 acres, 2008) Dighton, Norton, Taunton

Upper Housatonic River
(12,280 acres, 2009) Lee, Lenox, Pittsfield, Washington

Waquoit Bay
(2,580 acres, 1979) Falmouth and Mashpee

Weir River
(950 acres, 1986) Cohasset, Hingham, and Hull

Wellfleet Harbor
(12,480 acres, 1989) Eastham, Truro, and Wellfleet

Weymouth Back River
(800 acres, 1982) Hingham and Weymouth

ACEC acreages above are based on MassGIS calculations and may differ from numbers originally presented in designation documents and other ACEC publications due to improvements in accuracy of GIS data and boundary clarifications. Listed acreages have been rounded to the nearest 50 or 10 depending on whether boundary clarification has occurred. For more information please see, http://www.mass.gov/dcr/stewardship/acec/aboutMaps.htm.

Towns with ACECs within their Boundaries — November 2010

TOWN	ACEC
Ashby	Squannassit
Ayer	Petapawag
	Squannassit
Barnstable	Sandy Neck Barrier Beach System
Bolton	Central Nashua River Valley
Boston	Rumney Marshes
	Fowl Meadow and Ponkapoag Bog
	Neponset River Estuary
Bourne	Pocasset River
	Bourne Back River
	Herring River Watershed
Braintree	Cranberry Brook Watershed
Brewster	Pleasant Bay
	Inner Cape Cod Bay
Bridgewater	Hockomock Swamp
Canton	Fowl Meadow and Ponkapoag Bog
Chatham	Pleasant Bay
Cohasset	Weir River
Dalton	Hinsdale Flats Watershed
Dedham	Fowl Meadow and Ponkapoag Bog
Dighton	Three Mile River Watershed
Dunstable	Petapawag
Eastham	Inner Cape Cod Bay
	Wellfleet Harbor
Easton	Canoe River Aquifer
	Hockomock Swamp
Egremont	Karner Brook Watershed
Essex	Great Marsh
Falmouth	Waquoit Bay
Foxborough	Canoe River Aquifer
Gloucester	Great Marsh
Grafton	Miscoe-Warren-Whitehall Watersheds
Groton	Petapawag
	Squannassit
Harvard	Central Nashua River Valley
	Squannassit
Harwich	Pleasant Bay
Hingham	Weir River
	Weymouth Back River
Hinsdale	Hinsdale Flats Watershed
Holbrook	Cranberry Brook Watershed
Hopkinton	Miscoe-Warren-Whitehall Watersheds
	Cedar Swamp
Hull	Weir River
Ipswich	Great Marsh
Lancaster	Central Nashua River Valley
	Squannassit
Lee	Kampoosa Bog Drainage Basin
	Upper Housatonic River
Lenox	Upper Housatonic River
Leominster	Central Nashua River Valley
Lunenburg	Squannassit
Lynn	Rumney Marshes
Mansfield	Canoe River Aquifer
Mashpee	Waquoit Bay
Melrose	Golden Hills
Milton	Fowl Meadow and Ponkapoag Bog
	Neponset River Estuary
Mt. Washington	Karner Brook Watershed
	Schenob Brook
Newbury	Great Marsh
Norton	Hockomock Swamp
	Canoe River Aquifer
	Three Mile River Watershed
Norwood	Fowl Meadow and Ponkapoag Bog
Orleans	Inner Cape Cod Bay
	Pleasant Bay
Pepperell	Petapawag
	Squannassit
Peru	Hinsdale Flats Watershed
Pittsfield	Upper Housatonic River
Plymouth	Herring River Watershed
	Ellisville Harbor
Quincy	Neponset River Estuary
Randolph	Fowl Meadow and Ponkapoag Bog
Raynham	Hockomock Swamp
Revere	Rumney Marshes
Rowley	Great Marsh
Sandwich	Sandy Neck Barrier Beach System
Saugus	Rumney Marshes
	Golden Hills
Sharon	Canoe River Aquifer
	Fowl Meadow and Ponkapoag Bog
Sheffield	Schenob Brook
Shirley	Squannassit
Stockbridge	Kampoosa Bog Drainage Basin
Taunton	Hockomock Swamp
	Canoe River Aquifer
	Three Mile River Watershed
Truro	Wellfleet Harbor
Townsend	Squannassit
Tyngsborough	Petapawag
Upton	Miscoe-Warren-Whitehall Watersheds
Wakefield	Golden Hills
Washington	Hinsdale Flats Watershed
	Upper Housatonic River
Wellfleet	Wellfleet Harbor
W Bridgewater	Hockomock Swamp
Westborough	Cedar Swamp
Westwood	Fowl Meadow and Ponkapoag Bog
Weymouth	Weymouth Back River
Winthrop	Rumney Marshes

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National Register of Historic Places

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HELP

Contact Us

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History & Culture
Nature & Science
Education & Interpretation

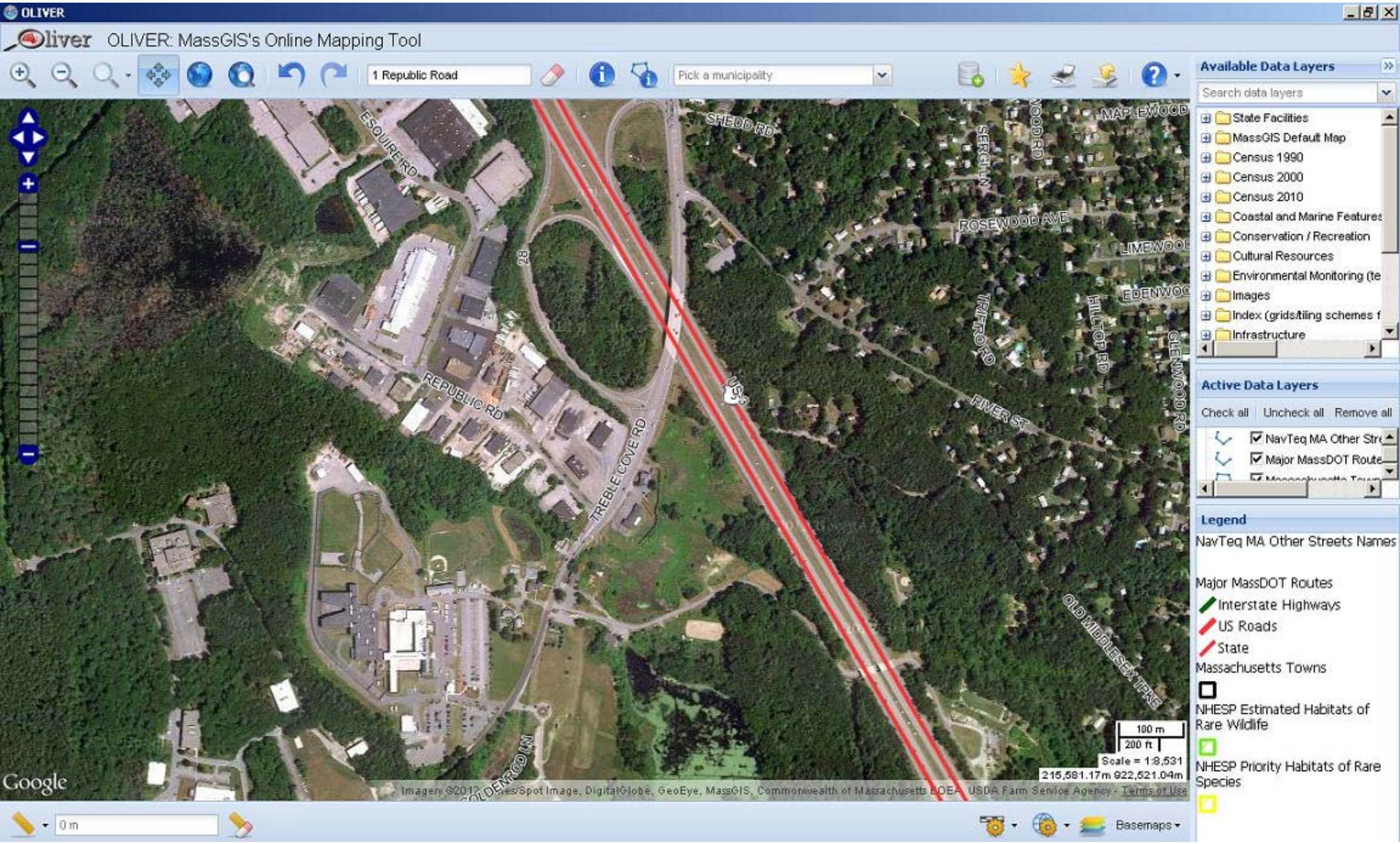
TITLE LIST DISPLAY

From: NPS Digital Library
Term(s) Searched: Massachusetts and Billerica
Records Displayed: 1 to 8 of 8

Go back to: Revise Search

Sort By: Title | Relevancy | Modified

- Billerica Mills Historic District *[Image]* 8%
- Billerica Town Common District *[Image]* 8%
- Dutton--Holden Homestead *[Image]* 8%
- Hill, Deacon Samuel, House *[Image]* 8%
- Howe School *[Image]* 8%
- Jaquith, Abraham, House *[Image]* 8%
- Manning Manse *[Image]* 8%
- Sabbath Day House *[Image]* 8%


OLIVER
OLIVER: MassGIS's Online Mapping Tool
1 Republic Road
Pick a municipality
Available Data Layers
Search data layers
State Facilities
MassGIS Default Map
Census 1990
Census 2000
Census 2010
Coastal and Marine Features
Conservation / Recreation
Cultural Resources
Environmental Monitoring (te
Images
Index (grids/tiling schemes f
Infrastructure
Active Data Layers
Check all
Uncheck all
Remove all
NavTeq MA Other Stre
Major MassDOT Route
Legend
NavTeq MA Other Streets Names
Major MassDOT Routes
Interstate Highways
US Roads
State
Massachusetts Towns
NHESP Estimated Habitats of Rare Wildlife
NHESP Priority Habitats of Rare Species
ESQUIRE RD
SHEDD RD
ROSEWOOD AVE
REPUBLIC RD
TREBLE COVE RD
RIVER ST
TRAFFORD RD
HILLTOP RD
GLENWOOD RD
OLD MIDDLESEX TPKE
US 3
28
100 m
200 ft
Scale = 1:8,531
215,581.17m 922,521.04m
Google
Imagery ©2012 DigitalGlobe, GeoEye, MassGIS, Commonwealth of Massachusetts EOEA, USDA Farm Service Agency - Terms of Use
0 m
Basemaps