



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

**Region 1**

**5 Post Office Square, Suite 100  
BOSTON, MA 02109-3912**

**CERTIFIED MAIL RETURN RECEIPT REQUESTED**

**JUL 11 2014**

Carl Dietz  
Director of Community Development  
City of Chicopee  
38 Centre St.  
Chicopee, MA 01020

Re: Authorization to discharge under the Remediation General Permit (RGP) –  
MAG910000. Former Uniroyal Facility site located at 154 Grove Street, Chicopee, MA ,  
Hampden County; Authorization # MAG910628

Dear Mr. Dietz:

Based on the review of a Notice of Intent (NOI) submitted by Craig Ellis from BETA Group, Inc., on behalf of the City of Chicopee, 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 exceeded Appendix III limits. The checklist also include, antimony, cadmium copper and lead 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 a dilution factor range (DFR), due to the ample dilution at the point of discharge (210), the DFR applicable for the metals indicated below falls within the ceiling values established in the RGP. (See the RGP Appendix IV for Massachusetts facilities). Therefore, the limit for antimony of 141 ug/L,

cadmium of 260 ug/L, copper of 2,070 ug/L, lead of 1,430 ug/L, selenium of 408 ug/L, and iron of 5,000 ug/L, shall not be exceeded in the discharge.

This general permit and authorization to discharge will expire on September 9, 2015. You have reported this project will terminate on April 1, 2017. In order for the discharge to continue after the permit's expiration date you are required to reapply for coverage after the general permit is reissued. Also, 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, Chief  
Storm Water and Construction  
Permits Section

Enclosure

cc: Robert Kubit, MassDEP  
Jeffrey Neece, Chicopee PWD  
Craig Ellis, BETA Group, Inc.



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

<b>NPDES Authorization Number:</b>	<b>MAG910628</b>
Authorization Issued:	July, 2014
Facility/Site Name:	Former Uniroyal Facility
Facility/Site Address:	154 Grove Street, Chicopee, MA 01020
	Email address of owner: cdietz@chicopeema.gov
Legal Name of Operator:	City of Chicopee
Operator contact name, title, and Address:	Carl Dietz City of Chicopee Director of Community Development Telephone: 413-5941490; Email: cdietz@chicopee.gov
	Email: Same as the Owner
Estimated date of the site's Completion:	August 2017
Category and Sub-Category:	Category III-Contaminated Construction Dewatering. Subcategory B. Known Contaminated Sites
RGP Termination Date:	September 10, 2015
Receiving Water:	Chicopee River

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

	<b><u>Parameter</u></b>	<b><u>Effluent Limit/Method#/ML</u></b> (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) <sup>1</sup>	Freshwater = 11 ug/L ** Saltwater = 7.5 ug/L **/ Me#330.5/ML 20ug/L
	3. Total Petroleum Hydrocarbons (TPH)	5.0 mg/L/ Me# 1664A/ML 5.0mg/L
	4. Cyanide (CN) <sup>2, 3</sup>	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



	<b><u>Parameter</u></b>	<b><u>Effluent Limit/Method#/ML</u></b> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	8. (m,p,o) Xylenes (X)	(limited as ug/L total BTEX) Me#8260C/ ML 2ug/L
	9. Total Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) <sup>4</sup>	100 ug/L/ Me#8260C/ ML 2ug/L
	10. Ethylene Dibromide (EDB) (1,2- Dibromoethane)	0.05 ug/l/ Me#8260C/ ML 10ug/L
	11. Methyl-tert-Butyl Ether (MtBE)	70.0 ug/l/Me#8260C/ML 10ug/L
	12.tert-Butyl Alcohol (TBA) (TertiaryButanol)	Monitor Only(ug/L)/Me#8260C/ML 10ug/L
	13. tert-Amyl Methyl Ether (TAME)	Monitor Only(ug/L)/Me#8260C/ML 10ug/L
	14. Naphthalene <sup>5</sup>	20 ug/L /Me#8260C/ML 2ug/L
	15. Carbon Tetrachloride	4.4 ug/L /Me#8260C/ ML 5ug/L
	16. 1,2 Dichlorobenzene (o-DCB)	600 ug/L /Me#8260C/ ML 5ug/L
	17. 1,3 Dichlorobenzene (m-DCB)	320 ug/L /Me#8260C/ ML 5ug/L
	18. 1,4 Dichlorobenzene (p-DCB)	5.0 ug/L /Me#8260C/ ML 5ug/L
	18a. Total dichlorobenzene	763 ug/L - NH only /Me#8260C/ 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) <sup>6</sup>	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)	6.0 ug/L /Me#8270D/ML 5ug/L,Me#606/ML 10ug/L & Me#625/ML



	<b><u>Parameter</u></b>	<b><u>Effluent Limit/Method#/ML</u></b> (All Effluent Limits are shown as Daily Maximum Limit, unless denoted by a **, in that case it will be a Monthly Average Limit)
	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 <sup>7</sup>	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	b. Benzo(a) Pyrene <sup>7</sup>	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	c. Benzo(b) Fluoranthene <sup>7</sup>	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	d. Benzo(k) Fluoranthene <sup>7</sup>	0.0038 ug/L /Me#8270D/ ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	e. Chrysene <sup>7</sup>	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	f. Dibenzo(a,h)anthracene <sup>7</sup>	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 <sup>7</sup>	0.0038 ug/L /Me#8270D/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/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 <sup>5</sup>	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/ML 5ug/L, Me#610/ML 5ug/L & Me#625/ML 5ug/L
	37. Total Polychlorinated Biphenyls (PCBs) <sup>8, 9</sup>	0.000064 ug/L/Me# 608/ ML 0.5 ug/L
✓	38. Chloride	Monitor only/Me# 300.0/ ML 100 ug/L

	<b>Metal parameter</b>	<b>Total Recoverable MA/Metal Limit <math>H^{10} = 50 \text{ mg/l}</math> <b>CaCO<sub>3</sub>, Units = ug/l <sup>(11/12)</sup></b></b>		<b>Minimum level=ML</b>	
		<b>Freshwater Limits</b>			
✓	39. Antimony	141		ML	10
	40. Arsenic **	10		ML	20
✓	41. Cadmium **	260		ML	10
	42. Chromium III (trivalent) **	48.8		ML	15
	43. Chromium VI (hexavalent) **	11.4		ML	10
✓	44. Copper **	2,070		ML	15
✓	45. Lead **	430		ML	20
	46. Mercury **	0.9		ML	02
	47. Nickel **	29		ML	20
✓	48. Selenium **	408		ML	20
	49. Silver	1.2		ML	10
	50. Zinc **	66.6		ML	15
✓	51. Iron	5,000		ML	20

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

Footnotes:



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



June 23, 2014

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  
Former Uniroyal Facility  
154 Grove Street  
Chicopee, Massachusetts 01020**

Dear Mr. Alvarez:

BETA Group, Inc. (BETA) herein provides supporting documentation for the Notice of Intent (NOI) for the Remediation General Permit (RGP) on behalf of Office of Community Development (OCD) for the City of Chicopee project referenced above. This NOI is being submitted in order to obtain approval for the proposed discharge of pumped groundwater via the operation of a temporary groundwater dewatering system (GWDS). The groundwater dewatering activities are required to support the initial phases of the demolition of Building 7 at the above-referenced former Uniroyal Facility (previously the United States Rubber Company, here-in-after "the Site") located at 154 Grove Street in Chicopee, Massachusetts.

A Site Locus is provided as Figure 1. A Site Plan depicting the dewatering discharge location is included as Figure 2 and a dewatering system schematic is included as Figure 3. Figures identified as 17 and 18, prepared by GZA, indicate the location of nearby monitoring wells from previous investigations. A copy of the NOI Form for the RGP Application is provided as Attachment I.

### **System Design**

Between January and March of 2010, the existing connections for former Uniroyal Buildings #1 through #6 to the Army Corp of Engineers (ACOE) collector drain were disconnected in preparation for demolition. The ACOE collector drain services the Chicopee Flood Control Works (along the east bank of the Chicopee River) at the former Uniroyal Facility. Floor drains and other surface drain connections to both drain manholes and in-line wye connections were successfully plugged or sealed. The sealing off of the buildings from the drain has caused a perched water condition within the former Uniroyal including the flooding of the basements of the lower tier buildings. Consequently, two (2) extraction wells are proposed to be installed at the westerly corners of Building 7 to lower the hydraulic grade line prior to the planned hazardous material abatement and building demolition activities.

The temporary GWDS will include multiple pumps to pump groundwater from the extraction wells proximal to Building 7. The groundwater will be pumped into a fractionation tank to allow sediment to settle prior to discharge via gravity into a pipe leading to the ACOE interceptor at manhole MH#6. Appropriately sized bag filters and/or liquid phase granular activated carbon (LGAC) units are not anticipated to be necessary, but will be utilized should total suspended solids (TSS) or dissolved phase constituents concentrations warrant their use. A flow schematic of the proposed dewatering plan is included as Figure 3. The average discharge flow rate of treated groundwater from the system to the storm water drainage system is estimated at 150 gallons per

### **BETA GROUP, INC.**

315 Norwood Park South, 2nd Floor, Norwood, MA 02062  
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minute (gpm). The maximum discharge flow rate is estimated to be 200 gpm. The ACOE collector drain discharges into the Chicopee River, which flows north along the western portion of the Site beyond the flood wall, approximately 100 – 150 feet (ft) west of the project area.

### **Receiving Waters Information**

The treated groundwater will be discharged into the ACOE connector drain located along the western perimeter of the Site which ultimately flows into the Chicopee River. The Site is downgradient of two hydroelectric power stations, Western Massachusetts Electric Co.'s Red Bridge Impoundment Station and I. Maxmat Co.'s Collins Dam Station. According to the Chicopee River Watershed 2003 Water Quality Assessment Report prepared by the Massachusetts Department of Environmental Protection (MassDEP) Division of Watershed Management, the Red Bridge Impoundment Station is required to release a continuous flow of 237 cubic feet per second (cfs) with a variable flow permitted between 140 and 300 cfs on an interim basis. The Collins Dam, for the most part, is reported to maintain flows of approximately 200 cfs. For the purposes of this report and to provide a conservative estimate, a 7-day, 10 year (7Q10) low flow rate for the receiving water of 140 cfs was used. A copy of the 7Q10 data from the 2003 Assessment report is included in Attachment III.

### **Receiving Water Classification**

BETA consulted the MassDEP Division of Water Pollution Control website (<http://www.mass.gov/eea/docs/dep/water/laws/i-thru-z/tblfig.pdf>) to determine the classification for the receiving water and the Division of Water Resources for the applicability of Total Maximum Daily Load (TMDLs) for the water body receiving the discharge. The treated groundwater will be discharged to the Chicopee River subbasin between the confluence of the Ware and Quaboag Rivers and the Connecticut River. This segment of the Chicopee River is classified as Class B, warm water fishery, and combined sewer outfall (CSO). According to the Massachusetts Year 2014 Integrated List of Waters (<http://www.mass.gov/eea/docs/dep/water/resources/07v5/14iwlisip.pdf>), the section of the Chicopee River receiving the discharge is listed as an impaired water for fecal coliform bacteria. No TDML has yet been established for fecal coliform and fecal coliforms are not a contaminant of concern for the proposed discharge.

### **Historical Groundwater Sampling Results**

In 2009, groundwater monitoring wells ECS-16 and ECS-17 (See Figure 3) were sampled and analyzed for volatile petroleum hydrocarbons (VPH), extractable petroleum hydrocarbons (EPH), polychlorinated biphenyls (PCBs), and metals. No VPH, EPH, or PCB compounds were detected in the collected groundwater samples above their respective laboratory method detection limits (MDLs).

In March 2012, monitoring wells MW-8 through MW-11 were sampled for dissolved RCRA 8 metals, EPH, VPH, and PCBs. No VPH, EPH, or PCB compounds were detected above their respective laboratory MDLs for the groundwater samples collected from these wells. RCRA 8 metals detected in the collected groundwater samples were compared to 310 CMR 40.0000 Massachusetts Contingency Plan (MCP) Method 1 Risk Characterization standards. As noted, the compounds detected during the 2012 sampling event were below their respective applicable MCP Method 1 standards. Tables from these two sampling events, conducted by others, are included as Attachment II.

### **Current Groundwater Sample Analysis – June 18, 2014**

On June 18, 2014, BETA collected a groundwater sample from monitoring well MW-11 in order to obtain current analytical data prior to discharge. The groundwater sample was analyzed for Total Suspended Solids (TSS), TPH by EPA Method 1664, total residual chlorine, chlorides, total cyanide, PCBs, total metals, SVOCs with phenols, and VOCs by EPA method 8260. No VOCs, SVOCs, PCBs, or TPH was detected above method detection limits. With the exception of selenium and iron, no metals were detected above method detection limits. Groundwater analytical results were compared to the Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) Remediation General Permit (RGP) discharge criteria and the total selenium concentration of 10 ug/l exceeded the EPA undiluted discharge limit of 5 ug/l; however, it is below the EPA discharge limits for selenium with dilution, as described in the section below. A summary of the groundwater analytical data is presented in the contaminant information table in the NOI application provided as Attachment I. Copies of the laboratory reports and chain of custody records are provided as Attachment III.

### **Dilution Factor Application for Metals**

For detected total metals concentrations, the RGP allows for a site-specific dilution factor (DF) to be calculated based on the expected maximum discharge flow rate and the 7Q10 of the receiving water. The calculated DF was applied to the average of the detected total metals concentrations which were greater than the applicable NPDES RGP discharge effluent limits. The DF is applicable to arsenic, copper, iron, lead, and silver, and the calculated DF was used to determine the appropriate Dilution Range concentrations for these metals. The DF was calculated using the following equation:

$$DF = (Q_d + Q_s) / Q_d$$

where  $Q_d$  is the maximum discharge flow rate from the system, assumed to be 300 gpm (0.67 cfs), and  $Q_s$  is the receiving water flow rate, minimum for 7 consecutive days with a recurrence interval of 10 years (i.e. 7Q10), estimated to be 140 cfs (as indicated above based on minimum flow from upgradient dams). Using these values, the DF calculated was 210. According to Appendix IV of the Remediation General Permit for Discharges in Massachusetts, the discharge limitations for the calculated dilution factor (DF) of 210 are at their respective ceiling values for metals believed to be present in the discharge based on laboratory analytical results of current and historical groundwater samples from the project area. The metals believed to be present include selenium and iron and have respective ceiling values of 0.408 mg/L and 5 mg/L. The total selenium concentration, detected at 0.01 mg/l, was below its applicable discharge limit of 0.408 using a DF >100. Similarly, total iron, detected at 0.37 mg/l, was below its applicable discharge limit of 5 mg/l using a DF >100.

### **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 work zone area. On June 18, 2014, BETA requested a review of threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitats from the US Fish and Wildlife Service (<http://ecos.fws.gov/ipac/>). According to their review, there were no endangered species or critical habitats in the vicinity of the proposed project. BETA contacted NOAA fisheries protected resources division to evaluate if there were protected species in the vicinity of the proposed discharge. According to NOAA they do not expect any species listed by NOAA



to be exposed to any effects from the proposed project. BETA has attached the MassGIS Map, the letter from the FWS and the e-mail from NOAA as Attachment IV.

### **Review of National Register of Historic Places**

According to the Massachusetts Historical Commission (MHC) the former Uniroyal complex was considered eligible for listing on the State and National Registers of Historic Places due to its industrial history. However, as part of this Brownfield project, the MHC has permitted the demolition of eight (8) buildings at the facility, including Building 7, due to the structural instability, presence of contamination, and infeasibility for reuse. Copies of the Memorandum of Agreement from the MHC are provided as Attachment IV. No other historic structures or properties are located in the immediate vicinity which would be anticipated to be impacted by this project.

If we can be of any further assistance regarding this matter, please contact us at our office.

Very truly yours,  
BETA Group, Inc.



Craig Ellis, LSP  
Senior Project Manager



Alan Hanscom, LSP  
Senior Project Manager

cc: Carl Dietz, City of Chicopee

### **Figures:**

Figure 1	Site Locus Plan
Figure 2	Site Plan
Figure 3	Dewatering System Schematic
Figure 4	EU-7 Monitoring Well Locations (by GZA)
Figure 5	EU-7 North Central Area monitoring Wells (by GZA)

### **Attachments:**

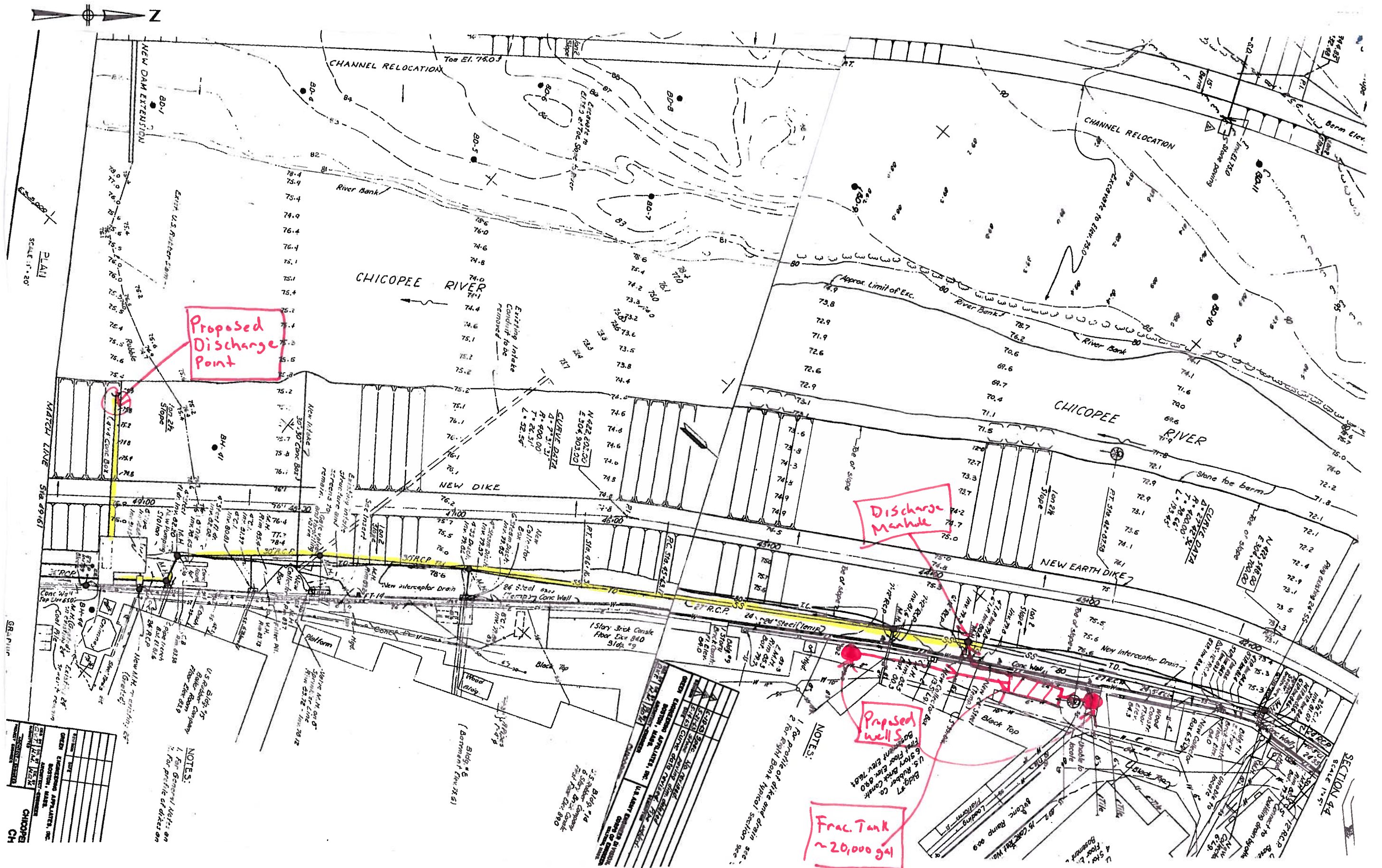
Attachment I	NOI Form for RGP
Attachment II	GZA and ECS Historical Groundwater Sampling Results
Attachment III	Laboratory Analytical Results
Attachment IV	MassGIS Map, NOAA and FWS endangered species and critical habitat review MOA – Massachusetts Historical Commission

## FIGURES

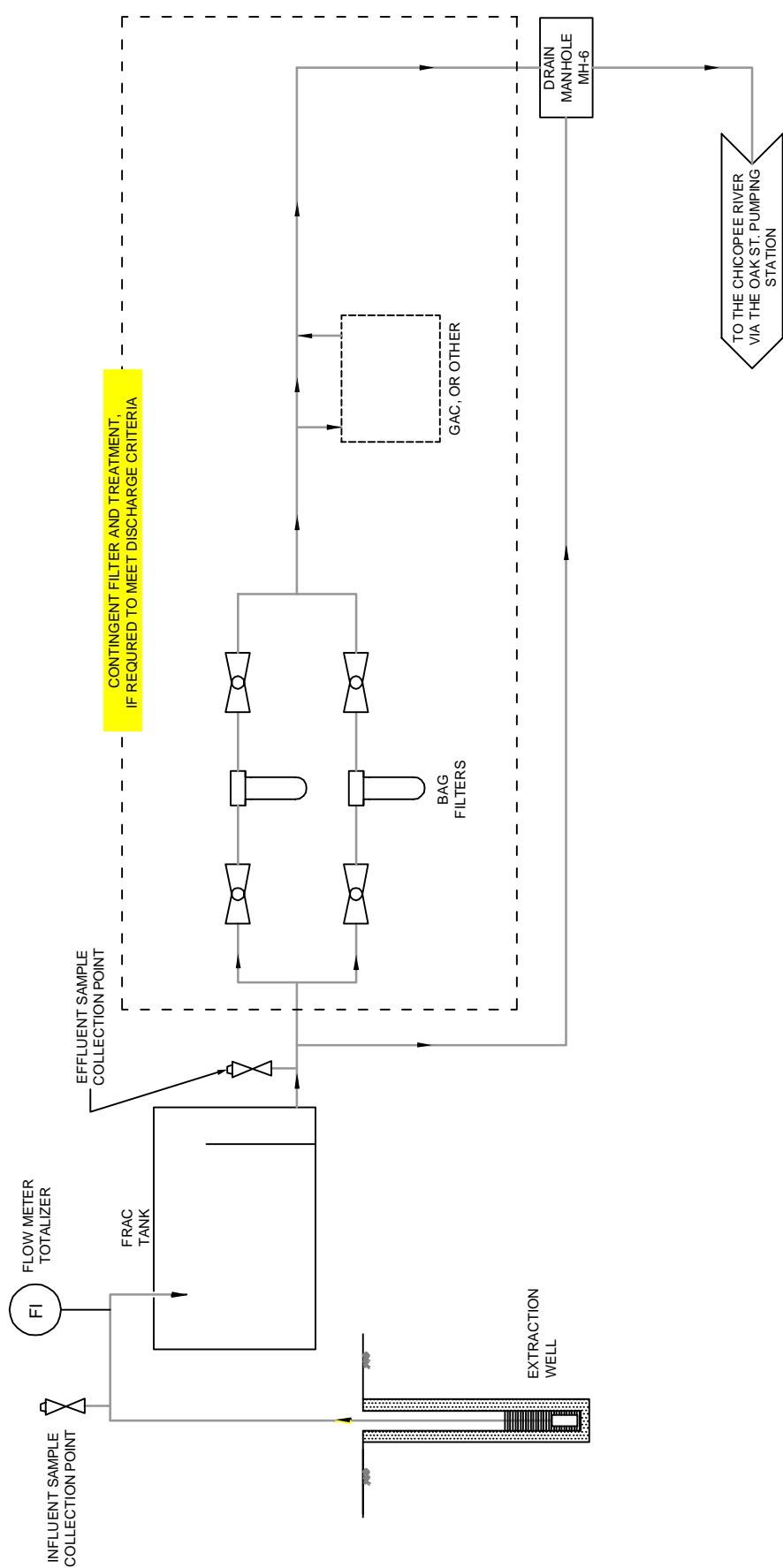












**BETA** Group, Inc.

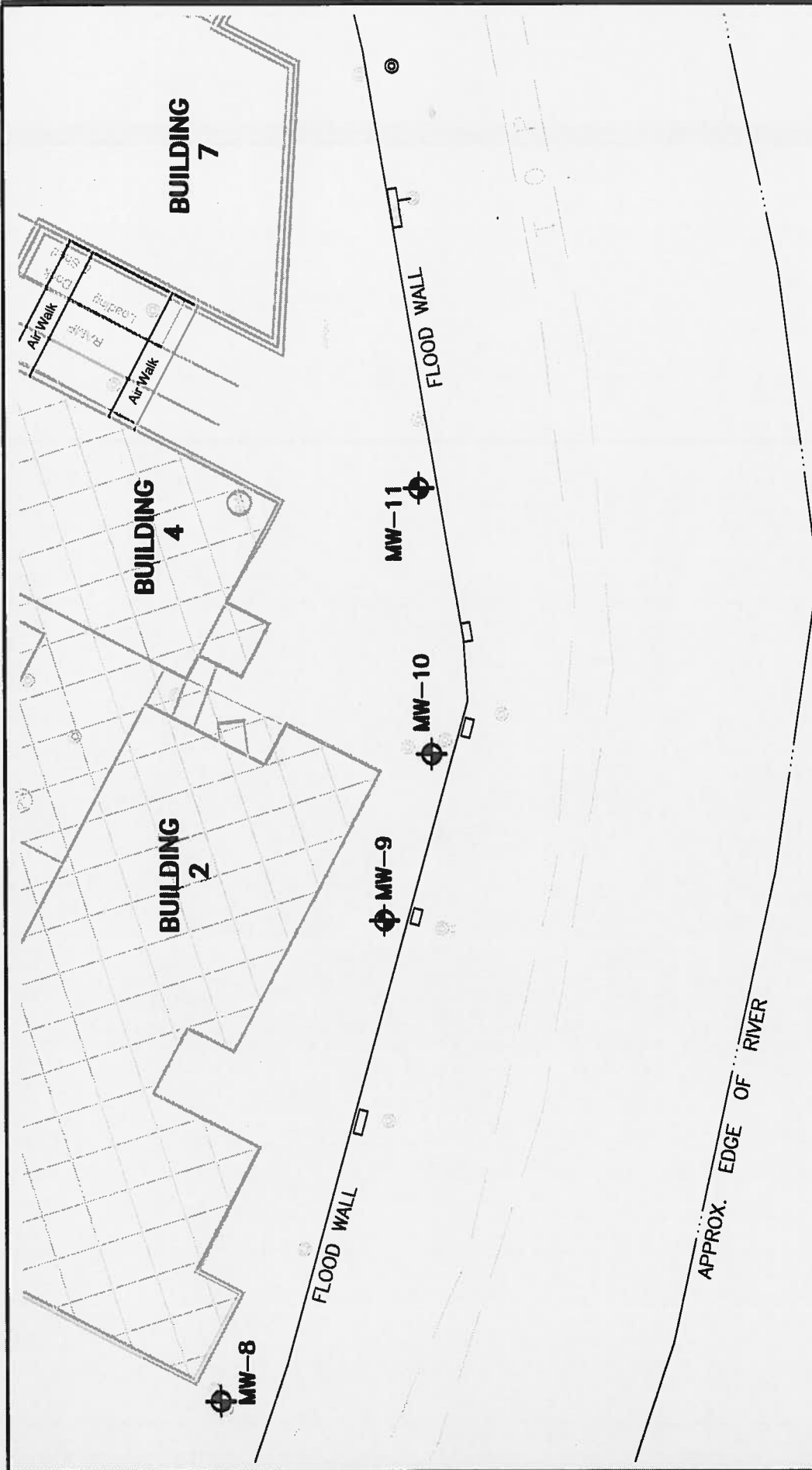
Engineers • Planners • Landscape Architects • Scientists

315 Norwood Park South  
Norwood, MA 02062  
781.255.1982  
email: BETA@BETA-inc.com

Figure No. 3

**FORMER UNIROYAL FACILITY**  
Chicopee, Massachusetts

**Proposed Conceptual  
Dewatering Schematic**



UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GeoEnvironmental, Inc. (GZA). THE INFORMATION SHOWN ON THIS DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION SHOWN ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REPRODUCED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF GZA. GZA WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

PREPARED BY: GZA GeoEnvironmental, Inc.  
Engineers and Scientists



PREPARED FOR: MICHELIN NORTH AMERICA, INC.



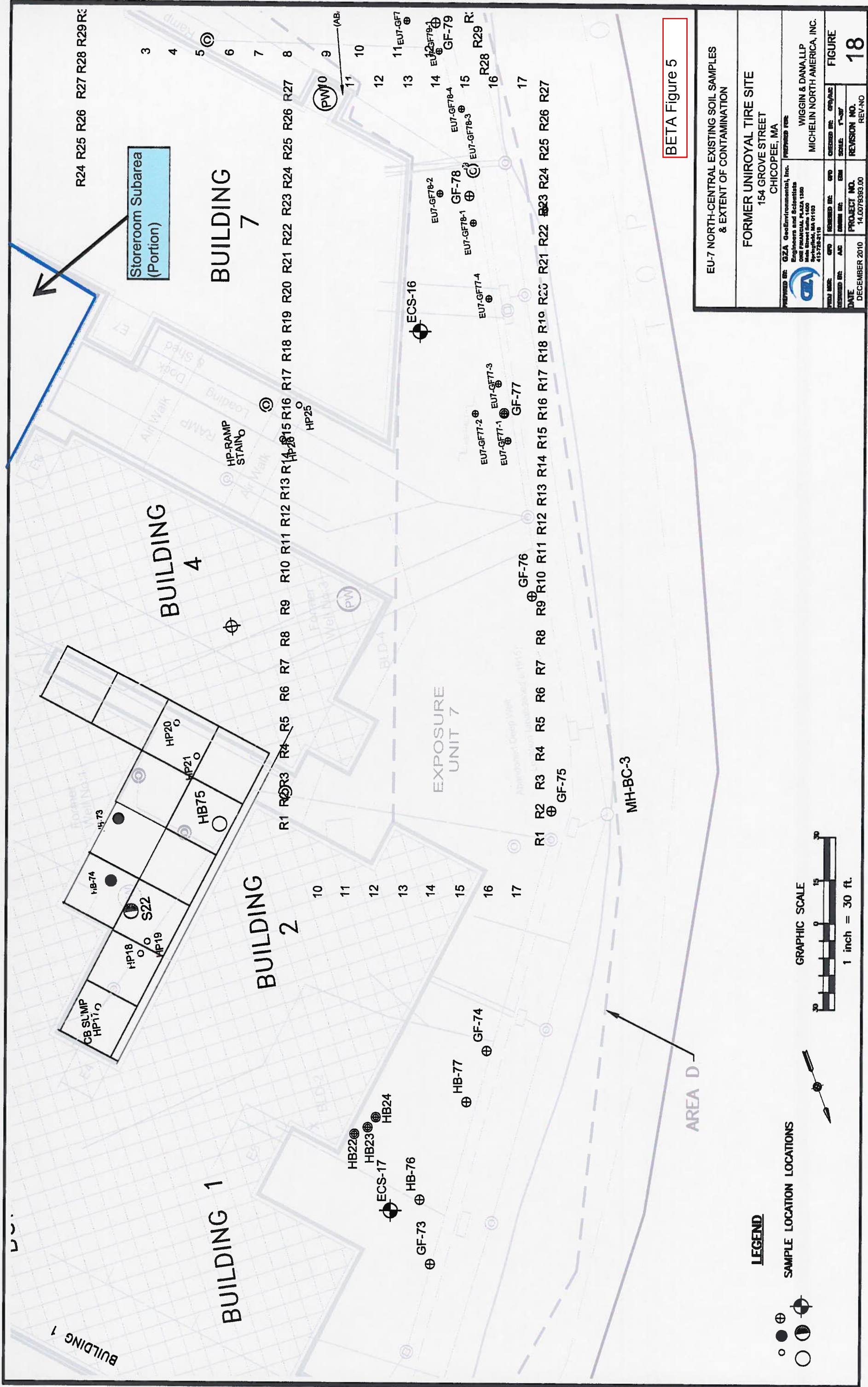
**FORMER UNIROYAL TIRE SITE**  
154 GROVE STREET  
CHICOPEE, MA

**EU-7**  
**MONITORING WELL LOCATIONS**

PROJ. NO.	GPD	DATE	APRIL, 2012
DESIGNED BY:	AJC	PROJECT NO.	14.0079393.00
REVIEWED BY:	GPD	EDM	REVISION NO.
CHECKED BY:	GPD/AJC	SCALE:	1"=50'

**FIGURE**  
**17**





ATTACHMENT I  
NOI RGP FORM



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

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

a) Name of facility/site: Former Uniroyal Facility		Facility/site mailing address:	
Location of facility/site: longitude: 72.588194 latitude: 42.154164		Facility SIC code(s):	Street: 154 Grove Street
b) Name of facility/site owner:		Town: Chicopee	
Email address of facility/site owner: cdietz@chicopeema.gov		State: MA	Zip: 01020
Telephone no. of facility/site owner: 413-594-1490			County: Hampden
Fax no. of facility/site owner:		Owner is (check one): 1. Federal <input type="radio"/> 2. State/Tribal <input type="radio"/>	
Address of owner (if different from site):		3. Private <input type="radio"/> 4. Other <input checked="" type="radio"/> if so, describe: City of Chicopee	
Street: 38 Center Street			
Town: Chicopee	State: MA	Zip: 01020	County: Hamden
c) Legal name of operator:		Operator telephone no.: 413-594-1490	
City of Chicopee		Operator fax no.: 413-594-1495	Operator email: cdietz@chicopeema.gov
Operator contact name and title: Carl Dietz			
Address of operator (if different from owner):		Street:	
Town:	State:	Zip:	County:

<p>d) Check Y for "yes" or N for "no" for the following:</p> <p>1. Has a prior NPDES permit exclusion been granted for the discharge? Y <input type="radio"/> N <input checked="" type="radio"/> , if Y, number: <input style="width: 100px;" type="text"/></p> <p>2. Has a prior NPDES application (Form 1 &amp; 2C) ever been filed for the discharge? Y <input type="radio"/> N <input checked="" type="radio"/> , if Y, date and tracking #: <input style="width: 100px;" type="text"/></p> <p>3. Is the discharge a "new discharge" as defined by 40 CFR 122.2? Y <input checked="" type="radio"/> N <input type="radio"/></p> <p>4. For sites in Massachusetts, is the discharge covered under the Massachusetts Contingency Plan (MCP) and exempt from state permitting? Y <input checked="" type="radio"/> N <input type="radio"/></p>	
<p>e) Is site/facility subject to any State permitting, license, or other action which is causing the generation of discharge? Y <input type="radio"/> N <input checked="" type="radio"/></p> <p>If Y, please list:</p> <p>1. site identification # assigned by the state of NH or MA: <input style="width: 100px;" type="text"/></p> <p>2. permit or license # assigned: <input style="width: 100px;" type="text"/></p> <p>3. state agency contact information: name, location, and telephone number: <input style="width: 100px;" type="text"/></p>	<p>f) Is the site/facility covered by any other EPA permit, including:</p> <p>1. Multi-Sector General Permit? Y <input type="radio"/> N <input checked="" type="radio"/> , if Y, number: <input style="width: 100px;" type="text"/></p> <p>2. Final Dewatering General Permit? Y <input type="radio"/> N <input checked="" type="radio"/> , if Y, number: <input style="width: 100px;" type="text"/></p> <p>3. EPA Construction General Permit? Y <input type="radio"/> N <input checked="" type="radio"/> , if Y, number: <input style="width: 100px;" type="text"/></p> <p>4. Individual NPDES permit? Y <input type="radio"/> N <input checked="" type="radio"/> , if Y, number: <input style="width: 100px;" type="text"/></p> <p>5. any other water quality related individual or general permit? Y <input type="radio"/> N <input checked="" type="radio"/> , if Y, number: <input style="width: 100px;" type="text"/></p>
<p>g) Is the site/facility located within or does it discharge to an Area of Critical Environmental Concern (ACEC)? Y <input type="radio"/> N <input checked="" type="radio"/></p>	
<p>h) Based on the facility/site information and any historical sampling data, identify the sub-category into which the potential discharge falls.</p>	
<p><b>Activity Category</b></p>	<p><b>Activity Sub-Category</b></p>
<p>I - Petroleum Related Site Remediation</p>	<p>A. Gasoline Only Sites <input type="checkbox"/></p> <p>B. Fuel Oils and Other Oil Sites (including Residential Non-Business Remediation Discharges) <input type="checkbox"/></p> <p>C. Petroleum Sites with Additional Contamination <input type="checkbox"/></p>
<p>II - Non Petroleum Site Remediation</p>	<p>A. Volatile Organic Compound (VOC) Only Sites <input type="checkbox"/></p> <p>B. VOC Sites with Additional Contamination <input type="checkbox"/></p> <p>C. Primarily Heavy Metal Sites <input type="checkbox"/></p>
<p>III - Contaminated Construction Dewatering</p>	<p>A. General Urban Fill Sites <input type="checkbox"/></p> <p>B. Known Contaminated Sites <input checked="" type="checkbox"/></p>



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

**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:	
Temporary construction dewatering as part of demolition activities	
b) Provide the following information about each discharge:	
1) Number of discharge points: 1	2) What is the <b>maximum</b> and <b>average flow rate</b> of discharge (in cubic feet per second, ft <sup>3</sup> /s)? Max. flow: 3.3 Is maximum flow a design value? Y <input type="radio"/> N <input checked="" type="radio"/> Average flow (include units): 2.5 Is average flow a design value or estimate? Estimate
3) Latitude and longitude of each discharge within 100 feet:	
pt. 1: lat. 42.154164 long. 72.588194	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 <input checked="" type="radio"/> or seasonal <input type="radio"/> ? Is discharge ongoing? Y <input type="radio"/> N <input checked="" type="radio"/>
c) Expected dates of discharge (mm/dd/yy): start 7/14/14 end 4/1/2017	
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.

<u>Parameter *</u>	<u>CAS Number</u>	<u>Believed Absent</u>	<u>Believed Present</u>	<u># of Samples</u>	<u>Sample Type (e.g., grab)</u>	<u>Analytical Method Used (method #)</u>	<u>Minimum Level (ML) of Test Method</u>	<u>Maximum daily value</u>		<u>Average daily value</u>	
								<u>concentration (ug/l)</u>	<u>mass (kg)</u>	<u>concentration (ug/l)</u>	<u>mass (kg)</u>
1. Total Suspended Solids (TSS)		<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	Grab	SM2540D	200	400			
2. Total Residual Chlorine (TRC)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	300	10	ND			
3. Total Petroleum Hydrocarbons (TPH)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	1664	200	ND			
4. Cyanide (CN)	57125	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	335.4	10	ND			
5. Benzene (B)	71432	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8260C	1.0	ND			
6. Toluene (T)	108883	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8260C	1.0	ND			
7. Ethylbenzene (E)	100414	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8260C	1.0	ND			
8. (m,p,o) Xylenes (X)	108883; 106423; 95476; 1330207	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8260C	1.0	ND			
9. Total BTEX <sup>2</sup>	n/a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8260C	1.0	ND			
10. Ethylene Dibromide (EDB) (1,2-Dibromoethane) <sup>3</sup>	106934	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8260C	1.0	ND			
11. Methyl-tert-Butyl Ether (MTBE)	1634044	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8260C	1.0	ND			
12. tert-Butyl Alcohol (TBA) (Tertiary-Butanol)	75650	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8260C	5.0	ND			

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

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

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

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



Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
28. Vinyl Chloride (Chloroethene)	75014	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8260C	1.0	ND			
29. Acetone	67641	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8260C	5	ND			
30. 1,4 Dioxane	123911	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8260C	3	ND			
31. Total Phenols	108952	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	2	ND			
32. Pentachlorophenol (PCP)	87865	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	5	ND			
33. Total Phthalates (Phthalate esters) <sup>4</sup>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	0	Grab	8270	3	ND			
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	117817	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	3	ND			
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	2	ND			
a. Benzo(a) Anthracene	56553	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	2	ND			
b. Benzo(a) Pyrene	50328	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7	Grab	8270D	2	ND			
c. Benzo(b)Fluoranthene	205992	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	2	ND			
d. Benzo(k)Fluoranthene	207089	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	2	ND			
e. Chrysene	21801	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	2	ND			
f. Dibenzo(a,h)anthracene	53703	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	2	ND			
g. Indeno(1,2,3-cd) Pyrene	193395	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	2	ND			
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	2	ND			

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

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
h. Acenaphthene	83329	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	2	ND			
i. Acenaphthylene	208968	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	2	ND			
j. Anthracene	120127	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	2	ND			
k. Benzo(ghi) Perylene	191242	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	2	ND			
l. Fluoranthene	206440	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	2	ND			
m. Fluorene	86737	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	2	ND			
n. Naphthalene	91203	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	2	ND			
o. Phenanthrene	85018	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	2	ND			
p. Pyrene	129000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	8270D	2	ND			
37. Total Polychlorinated Biphenyls (PCBs)	85687; 84742; 117840; 84662; 131113; 117817.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	SW846 3510 +	0.2	ND			
38. Chloride	16887006	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	Grab	300	1000	13000			
39. Antimony	7440360	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	6010C	10	ND			
40. Arsenic	7440382	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	6010C	10	ND			
41. Cadmium	7440439	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	6010C	5	ND			
42. Chromium III (trivalent)	16065831	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	6010C	5	ND			
43. Chromium VI (hexavalent)	18540299	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	6010C	10	ND			
44. Copper	7440508	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	6010C	20	ND			
45. Lead	7439921	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	6010C	5	ND			
46. Mercury	7439976	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	6010C	0.2	ND			
47. Nickel	7440020	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	6010C	5	ND			
48. Selenium	7782492	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	Grab	6010C	10	10			
49. Silver	7440224	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	6010C	5	ND			
50. Zinc	7440666	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1	Grab	6010C	20	ND			
51. Iron	7439896	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1	Grab	6010C	50	370			
Other (describe):		<input type="checkbox"/>	<input type="checkbox"/>								

Parameter *	CAS Number	Believed Absent	Believed Present	# of Samples	Sample Type (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
								concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
		<input type="checkbox"/>	<input type="checkbox"/>								
		<input type="checkbox"/>	<input type="checkbox"/>								

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

<p><b>Step 1:</b> Do any of the metals in the influent exceed the effluent limits in Appendix III (i.e., the limits set at zero dilution)? Y <input type="radio"/> N <input type="radio"/></p> <p><b>Step 2:</b> 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.</p> <p>What is the dilution factor for applicable metals?</p> <p>Metal: selenium DF: 210</p> <p>Metal: _____ DF: _____</p> <p>Metal: _____ DF: _____</p> <p>Metal: _____ DF: _____</p> <p>Etc.</p>	<p>If yes, which metals?</p> <p>selenium</p>
	<p>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)?</p> <p>Y <input checked="" type="radio"/> N <input type="radio"/> If Y, list which metals:</p> <p>ceiling limit from Appendix IV used based upon DF &gt; 100</p>

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:		See attached Figure 3			
b) Identify each applicable treatment unit (check all that apply):		Frac. tank <input checked="" type="checkbox"/> Chlorination <input type="checkbox"/>	Air stripper <input type="checkbox"/> De-chlorination <input type="checkbox"/>	Oil/water separator <input type="checkbox"/> Other (please describe):	Equalization tanks <input type="checkbox"/> Bag filter <input type="checkbox"/> GAC filter <input type="checkbox"/>



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

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

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

a) Identify the discharge pathway:	Direct to receiving water <input type="checkbox"/>	Within facility (sewer) <input type="checkbox"/>	Storm drain <input checked="" type="checkbox"/>	Wetlands <input type="checkbox"/>	Other (describe): <input type="text"/>
------------------------------------	--	--	---	-----------------------------------	--

b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:  
Effluent will be discharged to an ACOE stormdrain manhole near site. The storm drain discharges to the Chicopee 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 discharges, indicate the location of the discharge to the indirect conveyance and the discharge to surface water  
The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.

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

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water  cfs  
Please attach any calculation sheets used to support stream flow and dilution calculations.

f) Is the receiving water a listed 303(d) water quality impaired or limited water? Y ☐ N ☒ If yes, for which pollutant(s)?

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.

Analytical Certificates are attached. 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:	Former Unifarm facility
Operator signature:	
Printed Name & Title:	Carl Dietz, Director of Community Development
Date:	



ATTACHMENT II

GZA AND ECS ANALYTICAL TABLES

2009 AND 2012 ANALYTICAL DATA

TABLE 17

CHICOPEE INDUSTRIAL PARK  
CHICOPEE, MASSACHUSETTS

EU-7 GROUNDWATER ANALYTICAL RESULTS - MARCH 2012  
PCBs

			Sample ID	SB45913-01	SB45913-02	SB45913-03	SB45913-04	SB45913-05
			Sample Name	MW-8	MW-9	MW-10	MW-11	MW-9 DUP
			Sample Date	3/23/2012	3/23/2012	3/23/2012	3/23/2012	3/23/2012
ANALYTE	MCP METHOD 1 GW-2	MCP METHOD 1 GW-3						
Aroclor-1016	--	--		0.222U	0.235U	0.211U	0.222U	0.250U
Aroclor-1221	--	--		0.222U	0.235U	0.211U	0.222U	0.250U
Aroclor-1232	--	--		0.222U	0.235U	0.211U	0.222U	0.250U
Aroclor-1242	--	--		0.222U	0.235U	0.211U	0.222U	0.250U
Aroclor-1248	--	--		0.222U	0.235U	0.211U	0.222U	0.250U
Aroclor-1254	--	--		0.222U	0.235U	0.211U	0.222U	0.250U
Aroclor-1260	--	--		0.222U	0.235U	0.211U	0.222U	0.250U
Aroclor 1262	--	--		0.222U	0.235U	0.211U	0.222U	0.250U
Aroclor 1268	--	--		0.222U	0.235U	0.211U	0.222U	0.250U
PCBs, total	5	10		0.222U	0.235U	0.211U	0.222U	0.250U

## Notes:

D = diluted.

U = Result was less than the indicated laboratory reporting limit.

All units are ug/L.

- = not analyzed.

-- = no criteria provided.

&gt;GW-2; &gt;GW-3; &gt;GW-2 &amp; GW-3



TABLE 17

CHICOPPE INDUSTRIAL PARK  
CHICOPPE, MASSACHUSETTS

EU-7 GROUNDWATER ANALYTICAL RESULTS - MARCH 2012  
METALS

ANALYTE			Sample ID	SB45913-01	SB45913-02	SB45913-03	SB45913-04	SB45913-05
			Sample Name	MW-8	MW-9	MW-10	MW-11	MW-9 DUP
			Sample Date	3/23/2012	3/23/2012	3/23/2012	3/23/2012	3/23/2012
	MCP METHOD 1 GW-2	MCP METHOD 1 GW-3						
Antimony	--	8,000		6U	6U	6U	6U	6U
Arsenic	--	900		4U	4U	4U	4	4U
Barium	--	50,000		125	90.8	88.2	41.8	92.6
Cadmium	--	4		2.5U	2.5U	2.5U	2.5U	2.5U
Chromium	--	300		5U	5U	5U	5U	5U
Lead	--	10		7.5U	7.5U	7.5U	7.5U	7.5U
Nickel	--	200		5U	5U	5U	5U	5U
Vanadium	--	4,000		5U	5U	5U	5U	5U
Zinc	--	900		17.2	15	13.9	16.4	16.6

## Notes:

D = diluted.

U = Result was less than the indicated laboratory reporting limit.

All units are ug/L

- = not analyzed.

- - = no criteria provided.

&gt;GW-2; &gt;GW-3; &gt;GW-2 &amp; GW-3

TABLE 17

CHICOPEE INDUSTRIAL PARK  
CHICOPEE, MASSACHUSETTS

EU-7 GROUNDWATER ANALYTICAL RESULTS - MARCH 2012  
EPH

ANALYTE	Sample ID		SB45913-01	SB45913-02	SB45913-03	SB45913-04	SB45913-05
	Sample Name		MW-8	MW-9	MW-10	MW-11	MW-9 DUP
	Sample Date		3/23/2012	3/23/2012	3/23/2012	3/23/2012	3/23/2012
	MCP METHOD 1 GW-2 MCP METHOD 1 GW-3						
Aliphatics, C9-C18	5,000	50,000	105U	109U	116U	110U	115U
Aliphatics, C19-C36	--	50,000	105U	109U	116U	110U	115U
Aromatics, C11-C22	50,000	5,000	105U	109U	116U	110U	115U
Acenaphthene	--	6,000	5.26U	5.43U	5.81U	5.49U	5.75U
Acenaphthylene	10,000	40	5.26U	5.43U	5.81U	5.49U	5.75U
Anthracene	--	30	5.26U	5.43U	5.81U	5.49U	5.75U
Benz(a)anthracene	--	1,000	5.26U	5.43U	5.81U	5.49U	5.75U
Benzo(a)pyrene	--	500	5.26U	5.43U	5.81U	5.49U	5.75U
Benzo(b)fluoranthene	--	400	5.26U	5.43U	5.81U	5.49U	5.75U
Benzo(ghi)perylene	--	20	5.26U	5.43U	5.81U	5.49U	5.75U
Benzo(k)fluoranthene	--	100	5.26U	5.43U	5.81U	5.49U	5.75U
Chrysene	--	70	5.26U	5.43U	5.81U	5.49U	5.75U
Dibenz(ah)anthracene	--	40	5.26U	5.43U	5.81U	5.49U	5.75U
Fluoranthene	--	200	5.26U	5.43U	5.81U	5.49U	5.75U
Fluorene	--	40	5.26U	5.43U	5.81U	5.49U	5.75U
Indeno(1,2,3-cd)pyrene	--	100	5.26U	5.43U	5.81U	5.49U	5.75U
Methylnaphthalene, 2-	2,000	20,000	5.26U	5.43U	5.81U	5.49U	5.75U
Naphthalene	1,000	20,000	5.26U	5.43U	5.81U	5.49U	5.75U
Phenanthrene	--	10,000	5.26U	5.43U	5.81U	5.49U	5.75U
Pyrene	--	20	5.26U	5.43U	5.81U	5.49U	5.75U
TPH	5,000	5,000	105U	109U	116U	110U	115U

## Notes:

D = diluted.

U = Result was less than the indicated laboratory reporting limit.

All units are ug/L

- = not analyzed.

-- = no criteria provided.

&gt;GW-2; &gt;GW-3; &gt;GW-2 &amp; GW-3

TABLE 17

CHICOPEE INDUSTRIAL PARK  
CHICOPEE, MASSACHUSETTS

EU-7 GROUNDWATER ANALYTICAL RESULTS - MARCH 2012  
VPH

ANALYTE	Sample ID		SB45913-01	SB45913-02	SB45913-03	SB45913-04	SB45913-05
	Sample Name		MW-8	MW-9	MW-10	MW-11	MW-9 DUP
	Sample Date		3/23/2012	3/23/2012	3/23/2012	3/23/2012	3/23/2012
ANALYTE	MCP METHOD 1 GW-2	MCP METHOD 1 GW-3					
Aliphatics, C5-C8	3,000	50,000	75.0UD	75.0UD	75.0UD	75.0UD	75.0UD
Aliphatics, C9-C12	5,000	50,000	25.0UD	25.0UD	25.0UD	25.0UD	25.0UD
Aromatics, C9-C10	7,000	50,000	25.0UD	25.0UD	25.0UD	25.0UD	25.0UD
Benzene	2,000	10,000	5.0UD	5.0UD	5.0UD	5.0UD	5.0UD
Ethylbenzene	20,000	5,000	5.0UD	5.0UD	5.0UD	5.0UD	5.0UD
Methyl tert-butyl ether	50,000	50,000	5.0UD	5.0UD	5.0UD	5.0UD	5.0UD
Naphthalene	1,000	20,000	5.0UD	5.0UD	5.0UD	5.0UD	5.0UD
Toluene	50,000	40,000	5.0UD	5.0UD	5.0UD	5.0UD	5.0UD
Xylenes, total	9,000	5,000	10.0UD	10.0UD	10.0UD	10.0UD	10.0UD

## Notes:

D = diluted.

U = Result was less than the indicated laboratory reporting limit.

All units are ug/L

- = not analyzed.

- - = no criteria provided.

&gt;GW-2; &gt;GW-3; &gt;GW-2 &amp; GW-3



**TABLE 2B**  
**Summary of Groundwater Analytical Data - All Exposure Units**  
**Extractable Petroleum Hydrocarbons**  
**154 Grove Street, Chicopee, Massachusetts**

Exposure Unit	Well ID	Sampling Date	Total Petroleum Hydrocarbons µg/L	C9-C10 Aliphatic Hydrocarbons µg/L	C11-C22 Aromatic Hydrocarbons µg/L	Acenaphthene µg/L	Acenaphthylene µg/L	Anthracene µg/L	Benzo(a)anthracene µg/L	Benzo(a)pyrene µg/L	Benzo(b)fluoranthene µg/L
1	ECS-12	07/16/04	NA	100	100	10	10	10	10	10	10
	ECS-3	07/16/04	NA	100	100	10	10	10	10	10	10
	Well Average (2009-2010) <sup>1</sup>	12/11/09	NA	ND	ND	ND	ND	ND	ND	ND	ND
	PN-10	07/05/07	NA	200	200	6.2	6.2	6.2	6.2	6.2	6.2
2	Well Average (2009-2010) <sup>1</sup>	12/11/09	NA	100	100	10	10	10	10	10	10
	ECS-28	07/15/11	NA	100	100	10	10	10	10	10	10
	Well Average (2009-2010) <sup>1</sup>	12/11/09	NA	100	100	10	10	10	10	10	10
	ECS-30	07/20/04	NA	100	100	10	10	10	10	10	10
3	ECS-11	07/16/04	NA	100	100	10	10	10	10	10	10
	Well Average (2009-2010) <sup>1</sup>	12/11/09	NA	100	100	10	10	10	10	10	10
	ECS-13	07/20/04	NA	100	100	10	10	10	10	10	10
	Well Average (2009-2010) <sup>1</sup>	12/11/09	NA	100	100	10	10	10	10	10	10
4	ECS-14	07/20/04	NA	100	100	10	10	10	10	10	10
	Well Average (2009-2010) <sup>1</sup>	12/11/09	NA	100	100	10	10	10	10	10	10
	ECS-15	07/20/04	NA	100	100	10	10	10	10	10	10
	Well Average (2009-2010) <sup>1</sup>	12/11/09	NA	100	100	10	10	10	10	10	10
5	ECS-16	07/20/04	NA	100	100	10	10	10	10	10	10
	Well Average (2009-2010) <sup>1</sup>	12/11/09	NA	100	100	10	10	10	10	10	10
	ECS-17	07/20/04	NA	100	100	10	10	10	10	10	10
	Well Average (2009-2010) <sup>1</sup>	12/11/09	NA	100	100	10	10	10	10	10	10
6	ECS-22	07/16/04	NA	100	100	10	10	10	10	10	10
	Well Average (2009-2010) <sup>1</sup>	12/11/09	NA	100	100	10	10	10	10	10	10
	ECS-23	07/16/04	NA	100	100	10	10	10	10	10	10
	Well Average (2009-2010) <sup>1</sup>	12/11/09	NA	100	100	10	10	10	10	10	10
7	ECS-10	07/20/04	NA	100	100	10	10	10	10	10	10
	Well Average (2009-2010) <sup>1</sup>	12/11/09	NA	100	100	10	10	10	10	10	10
	ECS-18	07/20/04	NA	100	100	10	10	10	10	10	10
	Well Average (2009-2010) <sup>1</sup>	12/11/09	NA	100	100	10	10	10	10	10	10
8	ECS-19	07/20/04	NA	100	100	10	10	10	10	10	10
	Well Average (2009-2010) <sup>1</sup>	12/11/09	NA	100	100	10	10	10	10	10	10
	ECS-20	07/20/04	NA	100	100	10	10	10	10	10	10
	Well Average (2009-2010) <sup>1</sup>	12/11/09	NA	100	100	10	10	10	10	10	10

W22B

**TABLE 2A**  
**Summary of Groundwater Analytical Data - All Exposure Units**  
**Volatile Petroleum Hydrocarbons**  
**154 Grove Street, Chicopee, Massachusetts**

Exposure Unit	Well ID	Sampling Date	C3-C8 Aliphatic Hydrocarbons	C9-C12 Aliphatic Hydrocarbons	C13-C14 Aromatic Hydrocarbons	Benzene	Ethylbenzene	Methyl tert-butyl ether	Napthalene	1 Ethanol	Verbenone, total	
5	ECS-13	07/10/09	50	50	11	5	11	5	10	11	5	
		12/11/09	50	50	50	2	2	3	10	5	2	
			ND	ND	ND	ND	ND	ND	ND	ND	ND	
		09/11/09	50	50	50	5	5	5	10	5	5	
			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
		Well Average (2009-2010)			ND	ND	ND	ND	ND	ND	ND	ND
		Exposure Unit 5 Maximum Average (2009-2010)			50	50	50	5	5	5	10	5
	7	ECS-16	07/10/09	50	50	50	5	5	5	10	5	5
			12/11/09	50	50	50	2	2	3	10	5	2
				ND	ND	ND	ND	ND	ND	ND	ND	ND
09/11/09			50	50	50	5	5	5	10	5	5	
			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Well Average (2009-2010)			ND	ND	ND	ND	ND	ND	ND	ND		
Exposure Unit 7 Maximum Average (2009-2010)			50	50	50	5	5	5	10	5		
9		ECS-23	07/10/09	50	50	50	5	5	5	10	5	5
			12/11/09	50	50	50	2	2	3	10	5	2
				ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/11/09		50	50	50	5	5	5	10	5	5	
			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Well Average (2009-2010)			ND	ND	ND	ND	ND	ND	ND	ND	
	Exposure Unit 9 Maximum Average (2009-2010)			50	50	50	5	5	5	10	5	
	7	MW-6	07/10/09	1,110	74.8	120	2.38	7.02	5.1	10	10	2
			12/11/09	1,590	177	120	3.38	7.1	5.1	10	10	2
				1,350	126	120	2.2	5.3	5.1	10	10	2
09/17/09			50	50	50	2	2	3	10	10	2	
12/10/09			50	50	50	2	2	3	10	10	2	
			ND	ND	ND	ND	ND	ND	ND	ND	ND	
Well Average (2009-2010)			1,350	126	120	2.2	5.3	5.1	10	10	2	
9		ECS-23	07/10/09	50	50	50	5	5	5	10	5	5
			12/11/09	50	50	50	2	2	3	10	5	2
				ND	ND	ND	ND	ND	ND	ND	ND	ND
	09/11/09		50	50	50	5	5	5	10	5	5	
			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
	Well Average (2009-2010)			ND	ND	ND	ND	ND	ND	ND	ND	
	Exposure Unit 9 Maximum Average (2009-2010)			50	50	50	5	5	5	10	5	



TABLE 2B  
Summary of Groundwater Analytical Data - All Exposure Units  
Extractable Petroleum Hydrocarbons  
154 Grove Street, Chicopee, Massachusetts

Exposure Unit	Well ID	Sampling Date	Benzene (g/L) - perylene	Benzene (g/L) - fluorene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	2-Methyl-naphthalene	Naphthalene	Phenanthrene	Pyrene
1	ECS-12	07/12/04	10	10	10	10	10	10	10	10	10	10	10
	ECS-3	07/16/02	10	10	10	10	10	10	10	10	10	10	10
		12/11/09	10	10	10	10	10	10	10	10	10	10	10
	Well Average (2009-2010) <sup>1</sup>		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2	ECS-10	07/15/04	0.3	0.4	0.6	0.2	0.8	0.2	0.3	0.2	0.4	0.3	0.1
		07/15/04	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	ECS-28	12/10/09	10	10	10	10	10	10	10	10	10	10	10
	Well Average (2009-2010) <sup>1</sup>		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3	ECS-30	07/26/04	10	10	10	10	10	10	10	10	10	10	10
	ECS-30	07/26/04	10	10	10	10	10	10	10	10	10	10	10
	ECS-30	07/26/04	10	10	10	10	10	10	10	10	10	10	10
	Well Average (2009-2010) <sup>1</sup>		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	ECS-11	07/21/04	10	10	10	10	10	10	10	10	10	10	10
		12/07/09	10	10	10	10	10	10	10	10	10	10	10
		07/26/04	10	10	10	10	10	10	10	10	10	10	10
	Well Average (2009-2010) <sup>1</sup>		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
5	ECS-13	07/26/04	10	10	10	10	10	10	10	10	10	10	10
		12/11/09	10	10	10	10	10	10	10	10	10	10	10
		07/16/02	10	10	10	10	10	10	10	10	10	10	10
	Well Average (2009-2010) <sup>1</sup>		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
6	ECS-14	07/26/04	10	10	10	10	10	10	10	10	10	10	10
		12/07/09	10	10	10	10	10	10	10	10	10	10	10
		07/26/04	10	10	10	10	10	10	10	10	10	10	10
	Well Average (2009-2010) <sup>1</sup>		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7	ECS-10	07/23/09	10	10	10	10	10	10	10	10	10	10	10
		09/17/09	10	10	10	10	10	10	10	10	10	10	10
		12/10/09	10	10	10	10	10	10	10	10	10	10	10
	Well Average (2009-2010) <sup>1</sup>		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7	ECS-16	07/23/09	10	10	10	10	10	10	10	10	10	10	10
		12/11/09	10	10	10	10	10	10	10	10	10	10	10
		07/23/09	10	10	10	10	10	10	10	10	10	10	10
	Well Average (2009-2010) <sup>1</sup>		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
7	ECS-17	07/23/09	10	10	10	10	10	10	10	10	10	10	10
		12/08/09	10	10	10	10	10	10	10	10	10	10	10
		07/23/09	10	10	10	10	10	10	10	10	10	10	10
	Well Average (2009-2010) <sup>1</sup>		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND





TABLE 2E  
Summary of Groundwater Analytical Data - All Exposure Units  
Polychlorinated Biphenyls (PCBs)  
154 Grove Street, Chicopee, Massachusetts

Exposure Unit	Well ID	Sampling Date	Aroclor 1016 µg/L	Aroclor 1221 µg/L	Aroclor 1237 µg/L	Aroclor 1242 µg/L	Aroclor 1248 µg/L	Aroclor 1254 µg/L	Aroclor 1260 µg/L	Aroclor 1262 µg/L	Aroclor 1268 µg/L	PCBs total µg/L
1	ECS-3	12/11/09	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
	PW-10	06/06/07	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U
2	EUL-3 Maximum (2009 only)											
	ECS-28	12/10/09	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
	MW-1	07/21/04	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U
	MW-4	08/30/04	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
3	EUL-2 Maximum (2009 only)											
	MW-4	12/10/09	0.26	U	0.26	U	0.26	U	0.26	U	0.26	U
	FCS-11	07/21/04	0.48	U	0.48	U	0.48	U	0.48	U	0.48	U
	FCS-11	12/07/09	0.264	U	0.264	U	0.264	U	0.264	U	0.264	U
4	EUL-3 Maximum (2009 only)											
	FCS-14	07/26/04	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U
	ECS-14	12/07/09	0.258	U	0.258	U	0.258	U	0.258	U	0.258	U
	EUL-4 Maximum (2009 only)											
5	EUL-4 Maximum (2009 only)											
	FCS-13	07/20/04	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U
	ECS-13	12/11/09	0.266	U	0.266	U	0.266	U	0.266	U	0.266	U
	EUL-5 Maximum (2009 only)											
6	EUL-5 Maximum (2009 only)											
	FCS-22	08/31/04	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
	ECS-16	07/20/04	0.47	U	0.47	U	0.47	U	0.47	U	0.47	U
	MW-5	06/30/04	0.3	U	0.3	U	0.3	U	0.3	U	0.3	U
7	EUL-6 Maximum (2009 only)											
	ECS-17	12/08/09	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
	ECS-22	12/08/09	0.259	U	0.259	U	0.259	U	0.259	U	0.259	U
	ECS-10	12/10/09	0.259	U	0.259	U	0.259	U	0.259	U	0.259	U
8	EUL-7 Maximum (2009 only)											
	ECS-19	12/10/09	0.263	U	0.263	U	0.263	U	0.263	U	0.263	U
	MW-6	12/10/09	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
	MW-7	12/10/09	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
9	EUL-8 Maximum (2009 only)											
	ECS-16	12/11/09	0.25	U	0.25	U	0.25	U	0.25	U	0.25	U
	Method 1 GW-2 Standard <sup>1</sup>											
	Method 1 GW-3 Standard <sup>1</sup>											
Method 3 Upper Concentration Limit <sup>2</sup>			100	100	100	100	100	100	100	100	100	100

Background and duplicate samples are not shown

Value: Exceeds Method 1 standard  
µg/L Micrograms per liter  
U Not detected at reporting limit prescribed  
or due to quality control limitations  
ND Not detected at reporting limit prescribed  
NA: -- Not analyzed  
1. 310 CMR 40.0974(2)  
2. 310 CMR 40.0994(7)

**TABLE 2F**  
**Summary of Groundwater Analytical Data - All Exposure Units**  
**Metals**  
**154 Grove Street, Chicopee, Massachusetts**

Exposure Unit	Well ID	Sampling Date	Asbestos µg/L	Antimony disolved µg/L	Arsenic µg/L	Barium disolved µg/L	Beryllium µg/L	Beryllium disolved µg/L	Cadmium µg/L	Chromium disolved µg/L	Chromium total µg/L	Chromium disolved µg/L
1	ECS-13	07/16/03	10	10	10	10	10	10	10	10	10	10
	ECS-3	07/16/03	10	10	10	10	10	10	10	10	10	10
	ECS-3	12/11/09	10	10	10	10	10	10	10	10	10	10
	PV-13	07/16/07	10	10	10	10	10	10	10	10	10	10
2	Exposure Unit Maximum (2009 only)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	PA-5-1	07/15/09	10	10	10	10	10	10	10	10	10	10
	PA-5-10	07/16/04	10	10	10	10	10	10	10	10	10	10
	LI-3-5A	07/16/04	10	10	10	10	10	10	10	10	10	10
3	Exposure Unit Maximum (2009 only)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	EC-5-8	12/09/09	20	20	20	20	20	20	20	20	20	20
	EC-5-8	07/21/04	20	20	20	20	20	20	20	20	20	20
	MW-1	07/21/04	20	20	20	20	20	20	20	20	20	20
4	Exposure Unit Maximum (2009 only)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	EC-5-11	07/21/05	20	20	20	20	20	20	20	20	20	20
	EC-5-11	12/07/09	20	20	20	20	20	20	20	20	20	20
	EC-5-16	07/20/04	20	20	20	20	20	20	20	20	20	20
5	Exposure Unit Maximum (2009 only)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	EC-5-13	07/20/04	20	20	20	20	20	20	20	20	20	20
	EC-5-13	12/11/09	20	20	20	20	20	20	20	20	20	20
	EC-5-13	07/19/04	20	20	20	20	20	20	20	20	20	20
6	Exposure Unit Maximum (2009 only)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	EC-5-22	07/15/03	20	20	20	20	20	20	20	20	20	20
	EC-5-22	12/08/09	20	20	20	20	20	20	20	20	20	20
	EC-5-10	07/15/03	20	20	20	20	20	20	20	20	20	20
7	Exposure Unit Maximum (2009 only)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	EC-5-17	07/15/04	20	20	20	20	20	20	20	20	20	20
	EC-5-17	12/08/09	20	20	20	20	20	20	20	20	20	20
	EC-5-17	07/15/04	20	20	20	20	20	20	20	20	20	20
8	Exposure Unit Maximum (2009 only)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	EC-5-19	07/15/04	20	20	20	20	20	20	20	20	20	20
	EC-5-19	12/10/09	20	20	20	20	20	20	20	20	20	20
	EC-5-19	07/15/04	20	20	20	20	20	20	20	20	20	20
9	Exposure Unit Maximum (2009 only)		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	EC-5-24	07/15/04	20	20	20	20	20	20	20	20	20	20
	EC-5-24	12/11/09	20	20	20	20	20	20	20	20	20	20
	EC-5-24	07/15/04	20	20	20	20	20	20	20	20	20	20

Back-ground and duplicate samples are not shown  
 (Pseudo) Method 1 standard  
 Micrograms per liter  
 U Not detected or reported limit processed  
 ND Not detected  
 NE Not established  
 NA Not analyzed  
 1. 310 CMR 40.074(2)  
 2. 310 CMR 40.099(7)





TABLE 2F  
Summary of Groundwater Analytical Data - All Exposure Units  
Metals  
154 Grove Street, Chicopee, Massachusetts

Exposure Unit	Well ID	Sampling Date	Cobalt	Cobalt, dissolved	Copper	Lead	Lead, dissolved	Mercury	Mercury, dissolved	Nickel	Nickel, dissolved	Vanadium	Vanadium, dissolved	Selenium	Selenium, dissolved
1	PCS-12	07/16/04	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
	PCS-3	07/16/04	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
	ECS-3	12/1/09	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
	PW-10	07/16/04	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
2	PCS-12	07/16/04	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
	PCS-3	07/16/04	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
	ECS-3	12/1/09	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
	PW-10	07/16/04	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
3	PCS-12	07/16/04	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
	PCS-3	07/16/04	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
	ECS-3	12/1/09	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
	PW-10	07/16/04	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
4	PCS-12	07/16/04	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
	PCS-3	07/16/04	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
	ECS-3	12/1/09	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
	PW-10	07/16/04	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
5	PCS-12	07/16/04	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
	PCS-3	07/16/04	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
	ECS-3	12/1/09	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
	PW-10	07/16/04	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
6	PCS-12	07/16/04	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
	PCS-3	07/16/04	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
	ECS-3	12/1/09	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
	PW-10	07/16/04	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
7	PCS-12	07/16/04	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
	PCS-3	07/16/04	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
	ECS-3	12/1/09	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
	PW-10	07/16/04	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
8	PCS-12	07/16/04	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
	PCS-3	07/16/04	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
	ECS-3	12/1/09	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1
	PW-10	07/16/04	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1	PS-1

Background and detection limits are not shown  
 ND Not detected  
 U Not detected or reporting limit presented  
 NA Not analyzed  
 1. 310 CMB 40.097-421  
 2. 310 CMB 40.097-421



TABLE 2F

Background and duplicate samples are not shown  
F-test: Method 1: standard  
Microgram per liter  
Not detected at reporting limit (100 ng/L)  
U

But married and divorced women are not chosen

Water	Forward Method: standard
-------	--------------------------

Value	Fixed Method 1 standard	Microgram per liter
11.07		

7/8/11  
U  
Micrograms per liter  
Not detected at reporting limit (as stated)

2000

NE  
ND

NE

NA-22

1. J10 QAR 40 (10742)

2. 310 CTR 40 099d11).

**ATTACHMENT III**  
**LABORATORY CERTIFICATES – 2014**



## **REPORT OF ANALYTICAL RESULTS**

**NETLAB Case Number A0618-45**

Prepared for:

Attn: Craig Ellis  
BETA Group, Inc.  
315 Norwood Park South  
Norwood, MA 02062

Report Date: July 20, 2014

Lab # RI010

NEW ENGLAND TESTING LABORATORY, INC.  
1254 Douglas Avenue, North Providence, RI 02904  
(401) 353-3420



## MassDEP Analytical Protocol Certification Form

Laboratory Name: New England Testing Laboratory, Inc.

Project #: 3889

Project Location: Uniroyal – Chicopee, MA

RTN:

**This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):**  
**A0618-45**

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

**CAM Protocol** (check all that apply below):

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

**Affirmative Responses to Questions A through F are required for “Presumptive Certainty” status**

<b>A</b>	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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>B</b>	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>C</b>	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>D</b>	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”?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>E</b>	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>F</b>	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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

**Responses to Questions G, H and I below are required for “Presumptive Certainty” status**

<b>G</b>	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <sup>1</sup>
----------	---	--

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

<b>H</b>	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <sup>1</sup>
<b>I</b>	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <sup>1</sup>

<sup>1</sup>All negative responses must be addressed in an attached laboratory narrative.

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

Signature: Richard Warila

Position: Laboratory Director

Printed Name: Richard Warila

Date: 6/20/2014

## **SAMPLES SUBMITTED and REQUEST FOR ANALYSIS:**

The samples listed in Table I were submitted to New England Testing Laboratory on July 18, 2014. The group of samples appearing in this report was assigned an internal identification number (case number) for laboratory information management purposes. The client's designations for the individual samples, along with our case numbers, are used to identify the samples in this report. This report of analytical results pertains only to the sample(s) provided to us by the client which are indicated on the custody record. The case number for this sample submission is A0618-45.

Custody records are included in this report.

### **Project: Uniroyal – Chicopee MA**

**TABLE I, Samples Submitted**

Sample ID	Date Sampled	Matrix	Analysis Requested
MW-11	6/18/14	Water	Table II

**TABLE II, Analysis and Methods**

ANALYSIS	PREPARATION METHOD	DETERMINATIVE METHOD
Oil and Grease	NA	EPA 1664
Total Suspended Solids	NA	2540D
Total Residual Chlorine	NA	4500CLG
Total Cyanide	NA	4500CN
Chloride	NA	4500CL
PCBs	3510C	8082A
Total Metals		
Antimony	3050B	6010C
Arsenic	3050B	6010C
Cadmium	3050B	6010C
Trivalent Chromium	NA	Calculation
Hexavalent Chromium	NA	3500CRB
Copper	3050B	6010C
Iron	3050B	6010C
Lead	3050B	6010C
Mercury	NA	7471B
Nickel	3050B	6010C
Selenium	3050B	6010C
Silver	3050B	6010C
Zinc	3050B	6010C
SVOCs	3510	8270D
VOCs	5030	8260B
1,4 Dioxane		8260B Sim

These methods are documented in:

*Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd ed., USEPA.*

## **CASE NARRATIVE:**

### Sample Receipt

The samples were all appropriately cooled and preserved upon receipt. The samples were received in the appropriate containers. The chain of custody was adequately completed and corresponded to the samples submitted.

### Metals

All analyses were performed according to NETLAB's documented Standard Operating Procedures, within all required holding times, and with appropriate quality control measures. All QC was within laboratory established acceptance criteria. The samples were received, processed, and reported with no anomalies.

### Semi-volatile Compounds

All samples were extracted and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

### Total Petroleum Hydrocarbons

All samples were extracted and analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

### Volatile Organic Compounds

All samples were analyzed within method specified holding times and according to NETLAB's documented standard operating procedures. The results for the associated calibration, method blank and laboratory control sample (LCS) were within method specified quality control criteria.

### Wet Chemistry

All samples were analyzed within method specified holding times and according to NETLAB's documented standard operating procedures.

**MW-11**

Parameter	Result, mg/l	Reporting Limit	Date Analyzed
Oil & Grease, TPH	2	2	6/19/14
Total Suspended Solids	4	2	6/19/14
Total Residual Chlorine	ND	0.01	6/19/14 @ 9:30
Total Cyanide	ND	0.01	6/19/14
Chloride	13	1	6/19/14
Hexavalent Chromium	ND	0.01	6/19/14 @ 9:30
Trivalent Chromium	ND	0.005	6/19/14

ND = Not Detected



## **METALS RESULTS**

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Metals Analysis Department certifies that the results included in this section have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

# METALS RESULTS



Case Number: A0618-45  
 Sample ID: MW-11  
 Date collected: 06/18/14  
 Matrix: WATER  
 Sample Type: Total

Analyst M/JM/SC/A

	CAS	Preparative	Analytical		Reporting		Date of	Date
Parameter	Number	Method	Method	Result	Limit	Units	Preparation	Analyzed
Antimony	7440-36-0	3010A	6010C	ND	0.01	mg/l	6/19/14	6/19/14
Arsenic	7440-38-2	3010A	6010C	ND	0.01	mg/l	6/19/14	6/19/14
Cadmium	7440-43-9	3010A	6010C	ND	0.005	mg/l	6/19/14	6/19/14
Copper	7440-50-8	3010A	6010C	ND	0.02	mg/l	6/19/14	6/19/14
Iron	7439-89-6	3010A	6010C	0.37	0.05	mg/l	6/19/14	6/19/14
Lead	7439-92-1	3010A	6010C	ND	0.005	mg/l	6/19/14	6/19/14
Mercury	7439-97-6	NA	7470A	ND	0.0002	mg/l	6/19/14	6/19/14
Nickel	7440-02-0	3010A	6010C	ND	0.005	mg/l	6/19/14	6/19/14
Selenium	7782-49-2	3010A	6010C	0.01	0.01	mg/l	6/19/14	6/19/14
Silver	7440-22-4	3010A	6010C	ND	0.005	mg/l	6/19/14	6/19/14
Zinc	7440-66-6	3010A	6010C	ND	0.02	mg/l	6/19/14	6/19/14

ND indicates Not Detected.

# METALS RESULTS



Sample ID: METHOD BLANK  
 Matrix WATER  
 Sample Type: Preparation Blank

Analyst M/JM/SC/A

	CAS	Preparative	Analytical		Reporting		Date of	Date
Parameter	Number	Method	Method	Result	Limit	Units	Preparation	Analyzed
Antimony	7440-36-0	3010A	6010C	ND	0.01	mg/l	6/19/14	6/19/14
Arsenic	7440-38-2	3010A	6010C	ND	0.01	mg/l	6/19/14	6/19/14
Cadmium	7440-43-9	3010A	6010C	ND	0.005	mg/l	6/19/14	6/19/14
Copper	7440-50-8	3010A	6010C	ND	0.02	mg/l	6/19/14	6/19/14
Iron	7439-89-6	3010A	6010C	ND	0.05	mg/l	6/19/14	6/19/14
Lead	7439-92-1	3010A	6010C	ND	0.005	mg/l	6/19/14	6/19/14
Mercury	7439-97-6	NA	7470A	ND	0.0002	mg/l	6/19/14	6/19/14
Nickel	7440-02-0	3010A	6010C	ND	0.005	mg/l	6/19/14	6/19/14
Selenium	7782-49-2	3010A	6010C	ND	0.01	mg/l	6/19/14	6/19/14
Silver	7440-22-4	3010A	6010C	ND	0.005	mg/l	6/19/14	6/19/14
Zinc	7440-66-6	3010A	6010C	ND	0.02	mg/l	6/19/14	6/19/14

ND indicates Not Detected.

## LABORATORY CONTROL SAMPLE RECOVERY

Parameter	True Value	Result	Units	Recovery, %	Internal		Date Analyzed
					LCL, %	UCL, %	
Antimony	1.00	0.85	mg/l	85	85	115	6/19/14
Arsenic	0.20	0.17	mg/l	87	85	115	6/19/14
Cadmium	1.00	0.89	mg/l	89	85	115	6/19/14
Copper	1.00	0.89	mg/l	89	85	115	6/19/14
Iron	10.00	8.56	mg/l	86	85	115	6/19/14
Lead	1.00	0.88	mg/l	88	85	115	6/19/14
Mercury	0.001	0.001	mg/l	107	85	115	6/19/14
Nickel	1.00	0.88	mg/l	88	85	115	6/19/14
Selenium	0.20	0.17	mg/l	85	85	115	6/19/14
Silver	0.40	0.39	mg/l	98	85	115	6/19/14
Zinc	1.00	0.85	mg/l	85	85	115	6/19/14



## **RESULTS: PCBs**

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Organics Analysis Department certifies that the samples included in this section have been prepared and analyzed using the procedures cited and that the results have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

<b>Sample: MW-11</b>		Analyst's Initials: BJ
<b>Case No. A0618-45</b>		
<b>Date Collected: 6/18/14</b>		
<b>Sample Matrix: Water</b>		
<b>Subject: PCBs</b>	Date Extracted	Date Analyzed
<b>Prep Method: EPA 3510C</b>	6/18/14	6/19/14
<b>Analytical Method: EPA 8082A</b>		
Compound	Concentration ug/l (ppb)	Reporting Limit ug/l (ppb)
Aroclor-1016	N.D.	0.2
Aroclor-1221	N.D.	0.2
Aroclor-1232	N.D.	0.2
Aroclor-1242	N.D.	0.2
Aroclor-1248	N.D.	0.2
Aroclor-1254	N.D.	0.2
Aroclor-1260	N.D.	0.2
Aroclor-1262	N.D.	0.2
Aroclor-1268	N.D.	0.2
Surrogates:		
Compound	% Recovery	Limits
TCMX	75	30-110
DCBP	89	30-122

N.D. = Not Detected

<b>Sample: Method Blank</b>		Analyst's Initials: BJ
<b>Case No. A0618-45</b>		
<b>Date Collected: NA</b>		
<b>Sample Matrix: Water</b>		
<b>Subject: PCBs</b>	Date Extracted	Date Analyzed
<b>Prep Method: EPA 3510C</b>	6/18/14	6/19/14
<b>Analytical Method: EPA 8082A</b>		
Compound	Concentration ug/l (ppb)	Reporting Limit ug/l (ppb)
Aroclor-1016	N.D.	0.2
Aroclor-1221	N.D.	0.2
Aroclor-1232	N.D.	0.2
Aroclor-1242	N.D.	0.2
Aroclor-1248	N.D.	0.2
Aroclor-1254	N.D.	0.2
Aroclor-1260	N.D.	0.2
Aroclor-1262	N.D.	0.2
Aroclor-1268	N.D.	0.2
Surrogates:		
Compound	% Recovery	Limits
TCMX	72	30-110
DCBP	82	30-122

N.D. = Not Detected

## PCB Laboratory Control Spike

<b>Sample Matrix: Water</b>				
<b>Subject: PCB</b>	Date Extracted			Date Analyzed
<b>Prep Method: EPA 3510C</b>	6/18/14			6/19/14
<b>Analytical Method: EPA 8082A</b>				
Compound	Amount Spiked mg/kg	Result mg/kg	Recovery %	Recovery Limits
Aroclor 1016	0.500	0.519	104	40-130
Aroclor 1260	0.500	0.558	112	41-132
Surrogates:				
Compound	% Recovery	Limits		
TCMX	87	30-110		
DCBP	77	30-122		



## **RESULTS: SEMIVOLATILE ORGANIC COMPOUNDS**

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1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**MW-11**

Lab Name: New England Testing Laboratory Contract: Uniroyal-Chi  
 Lab Code: RI010 Case No.: A0618-45 SAS No.: BETA SDG No.: BETA Gro  
 Matrix: (soil/water) WATER Lab Sample ID: MW-11  
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: B061806.D  
 Level: (low/med) LOW Date Received: 6/18/2014  
 % Moisture: \_\_\_\_\_ decanted:(Y/N) N Date Extracted: 6/19/2014  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/19/2014  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

62-75-9	n-Nitrosodimethylamine	3	U
110-86-1	Pyridine	2	U
108-95-2	Phenol	2	U
62-53-3	Aniline	2	U
111-44-4	bis(2-Chloroethyl)ether	2	U
95-57-8	2-Chlorophenol	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
95-48-7	2-Methylphenol	2	U
108-60-1	bis(2-chloroisopropyl)ether	2	U
106-44-5	3- & 4-Methylphenol	4	U
621-64-7	n-Nitroso-di-n-propylamine	2	U
67-72-1	Hexachloroethane	2	U
98-95-3	Nitrobenzene	2	U
78-59-1	Isophorone	2	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	15	U
111-91-1	bis(2-Chloroethoxy)methane	2	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	2	U
91-20-3	Naphthalene	2	U
106-47-8	4-Chloroaniline	2	U
87-68-3	Hexachlorobutadiene	2	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	2	U
77-47-4	Hexachlorocyclopentadiene	2	U
88-06-2	2,4,6-Trichlorophenol	2	U
95-95-4	2,4,5-Trichlorophenol	2	U
91-58-7	2-Chloronaphthalene	2	U
88-74-4	2-Nitroaniline	2	U
131-11-3	Dimethyl phthalate	2	U
208-96-8	Acenaphthylene	2	U
606-20-2	2,6-Dinitrotoluene	2	U
99-09-2	3-Nitroaniline	2	U
83-32-9	Acenaphthene	2	U

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-11

Lab Name: New England Testing Laboratory Contract: Uniroyal-Chi

Lab Code: RI010 Case No.: A0618-45 SAS No.: BETA SDG No.: BETA Gro

Matrix: (soil/water) WATER Lab Sample ID: MW-11

Sample wt/vol: 1000 (g/ml) ML Lab File ID: B061806.D

Level: (low/med) LOW Date Received: 6/18/2014

% Moisture:            decanted:(Y/N) N Date Extracted: 6/19/2014

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/19/2014

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:           

## CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

51-28-5	2,4-Dinitrophenol	3	U
100-02-7	4-Nitrophenol	5	U
132-64-9	Dibenzofuran	2	U
121-14-2	2,4-Dinitrotoluene	2	U
84-66-2	Diethyl phthalate	2	U
86-73-7	Fluorene	2	U
7005-72-3	4-Chlorophenyl phenyl ether	2	U
100-01-6	4-Nitroaniline	2	U
534-52-1	4,6-Dinitro-2-methylphenol	5	U
86-30-6	n-Nitrosodiphenylamine	2	U
101-55-3	4-Bromophenyl phenyl ether	2	U
118-74-1	Hexachlorobenzene	2	U
87-86-5	Pentachlorophenol	5	U
85-01-8	Phenanthrene	2	U
120-12-7	Anthracene	2	U
84-74-2	Di-n-butylphthalate	3	U
206-44-0	Fluoranthene	2	U
92-87-5	Benzidine	60	U
129-00-0	Pyrene	2	U
85-68-7	Butyl benzyl phthalate	2	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	2	U
218-01-9	Chrysene	2	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octyl phthalate	3	U
205-99-2	Benzo(b)fluoranthene	2	U
207-08-9	Benzo(k)fluoranthene	2	U
50-32-8	Benzo(a)pyrene	2	U
53-70-3	Dibenz(a,h)anthracene	2	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	U
191-24-2	Benzo(g,h,i)perylene	2	U

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.



**BSW061914**

Lab Name: New England Testing Laboratory Contract: Uniroyal-Chi  
 Lab Code: RI010 Case No.: A0618-45 SAS No.: BETA SDG No.: BETA Gro  
 Matrix: (soil/water) WATER Lab Sample ID: BSW061914  
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: B061803.D  
 Level: (low/med) LOW Date Received: 6/18/2014  
 % Moisture: \_\_\_\_\_ decanted:(Y/N) N Date Extracted: 6/19/2014  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/19/2014  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

62-75-9	n-Nitrosodimethylamine	3	U
110-86-1	Pyridine	2	U
108-95-2	Phenol	2	U
62-53-3	Aniline	2	U
111-44-4	bis(2-Chloroethyl)ether	2	U
95-57-8	2-Chlorophenol	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
95-48-7	2-Methylphenol	2	U
108-60-1	bis(2-chloroisopropyl)ether	2	U
106-44-5	3- & 4-Methylphenol	4	U
621-64-7	n-Nitroso-di-n-propylamine	2	U
67-72-1	Hexachloroethane	2	U
98-95-3	Nitrobenzene	2	U
78-59-1	Isophorone	2	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic acid	15	U
111-91-1	bis(2-Chloroethoxy)methane	2	U
120-83-2	2,4-Dichlorophenol	5	U
120-82-1	1,2,4-Trichlorobenzene	2	U
91-20-3	Naphthalene	2	U
106-47-8	4-Chloroaniline	2	U
87-68-3	Hexachlorobutadiene	2	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	2	U
77-47-4	Hexachlorocyclopentadiene	2	U
88-06-2	2,4,6-Trichlorophenol	2	U
95-95-4	2,4,5-Trichlorophenol	2	U
91-58-7	2-Chloronaphthalene	2	U
88-74-4	2-Nitroaniline	2	U
131-11-3	Dimethyl phthalate	2	U
208-96-8	Acenaphthylene	2	U
606-20-2	2,6-Dinitrotoluene	2	U
99-09-2	3-Nitroaniline	2	U
83-32-9	Acenaphthene	2	U



## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

BSW061914

Lab Name: New England Testing Laboratory Contract: Uniroyal-Chi

Lab Code: RI010 Case No.: A0618-45 SAS No.: BETA SDG No.: BETA Gro

Matrix: (soil/water) WATER Lab Sample ID: BSW061914

Sample wt/vol: 1000 (g/ml) ML Lab File ID: B061803.D

Level: (low/med) LOW Date Received: 6/18/2014

% Moisture:            decanted:(Y/N) N Date Extracted: 6/19/2014

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 6/19/2014

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:           

## CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

51-28-5	2,4-Dinitrophenol	5	U
100-02-7	4-Nitrophenol	5	U
132-64-9	Dibenzofuran	2	U
121-14-2	2,4-Dinitrotoluene	2	U
84-66-2	Diethyl phthalate	2	U
86-73-7	Fluorene	2	U
7005-72-3	4-Chlorophenyl phenyl ether	2	U
100-01-6	4-Nitroaniline	2	U
534-52-1	4,6-Dinitro-2-methylphenol	5	U
86-30-6	n-Nitrosodiphenylamine	2	U
101-55-3	4-Bromophenyl phenyl ether	2	U
118-74-1	Hexachlorobenzene	2	U
87-86-5	Pentachlorophenol	5	U
85-01-8	Phenanthrene	2	U
120-12-7	Anthracene	2	U
84-74-2	Di-n-butylphthalate	3	U
206-44-0	Fluoranthene	2	U
92-87-5	Benzidine	60	U
129-00-0	Pyrene	2	U
85-68-7	Butyl benzyl phthalate	2	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	2	U
218-01-9	Chrysene	2	U
117-81-7	bis(2-Ethylhexyl)phthalate	3	U
117-84-0	Di-n-octyl phthalate	3	U
205-99-2	Benzo(b)fluoranthene	2	U
207-08-9	Benzo(k)fluoranthene	2	U
50-32-8	Benzo(a)pyrene	2	U
53-70-3	Dibenz(a,h)anthracene	2	U
193-39-5	Indeno(1,2,3-cd)pyrene	2	U
191-24-2	Benzo(g,h,i)perylene	2	U

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: New England Testing Laboratory Contract: Uniroyal-Chicope  
 Lab Code: RI010 Case No.: A0618-45 SAS No.: BETA SDG No.: BETA Gro

	EPA SAMPLE NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	TOT OUT
01	BSW061914	33	19	79	97	118	120	0
02	LSW061914	39	23	109	123	122	126	0
03	MW-11	27	16	83	94	94	104	0

QC LIMITS

S1	=	2-Fluorophenol	(10-81)
S2	=	Phenol-d6	(10-83)
S3	=	Nitrobenzene-d5	(30-130)
S4	=	2-Fluorobiphenyl	(35-130)
S5	=	2,4,6-Tribromophenol	(44-125)
S6	=	Terphenyl-d14	(50-130)

# Column to be used to flag recovery values

\* Values outside of contract required QC limits

D Surrogate diluted out

## Semivolatile Water Laboratory Control Spike

Date Extracted: 6/19/2014

Date Analyzed: 6/19/2014

	Amount Spiked	Result,	Recovery	Lower Recovery	Upper Recovery
	ug/L	ug/L	%	Limit	Limit
n-Nitrosodimethylamine	50.0	11.55	23	10	69
Phenol	50.0	8.53	17	10	67
Aniline	50.0	15.36	31	14	92
bis(2-Chloroethyl)ether	50.0	41.28	83	26	120
2-Chlorophenol	50.0	32.11	64	28	85
1,3-Dichlorobenzene	50.0	34.64	69	26	87
1,4-Dichlorobenzene	50.0	36.47	73	26	89
1,2-Dichlorobenzene	50.0	36.64	73	27	92
2-Methylphenol	50.0	25.93	52	30	86
bis(2-chloroisopropyl)ether	50.0	28.59	57	24	120
3- & 4-Methylphenol	50.0	21.52	43	15	80
n-Nitroso-di-n-propylamine	50.0	38.63	77	31	106
Hexachloroethane	50.0	33.07	66	24	89
Nitrobenzene	50.0	39.38	79	26	100
Isophorone	50.0	44.81	90	26	115
2-Nitrophenol	50.0	42.57	85	25	104
2,4-Dimethylphenol	50.0	37.79	76	28	114
bis(2-Chloroethoxy)methane	50.0	47.27	95	28	120
2,4-Dichlorophenol	50.0	45.38	91	28	105
1,2,4-Trichlorobenzene	50.0	43.7	87	26	98
Naphthalene	50.0	40.51	81	27	104
4-Chloroaniline	50.0	42.19	84	28	107
Hexachlorobutadiene	50.0	51.57	103	26	107
4-Chloro-3-methylphenol	50.0	40.37	81	29	116
2-Methylnaphthalene	50.0	42.41	85	27	104
Hexachlorocyclopentadiene	50.0	29.79	60	10	115
2,4,6-Trichlorophenol	50.0	51.68	103	35	114
2,4,5-Trichlorophenol	50.0	48.38	97	34	123
2-Chloronaphthalene	50.0	45.04	90	33	108
2-Nitroaniline	50.0	40.74	81	37	124
Dimethyl phthalate	50.0	50.69	101	40	119
Acenaphthylene	50.0	46.46	93	35	113
2,6-Dinitrotoluene	50.0	54.6	109	41	128
Acenaphthene	50.0	50.02	100	34	112
2,4-Dinitrophenol	50.0	53.39	107	15	130
Dibenzofuran	50.0	47.9	96	36	116
2,4-Dinitrotoluene	50.0	54.98	110	41	129
Diethyl phthalate	50.0	48.19	96	39	121

## Semivolatile Water Laboratory Control Spike

Date Extracted: 6/19/2014

Date Analyzed: 6/19/2014

Fluorene	50.0	54.04	108	40	130
4-Chlorophenyl phenyl ether	50.0	59.17	118	38	130
4-Nitroaniline	50.0	43.47	87	32	130
4,6-Dinitro-2-methylphenol	50.0	56.16	112	15	125
4-Bromophenyl phenyl ether	50.0	58.34	117	36	130
Hexachlorobenzene	50.0	60.37	121	48	130
Phenanthrene	50.0	51.42	103	48	115
Anthracene	50.0	53.19	106	45	121
Di-n-butylphthalate	50.0	50.71	101	38	130
Fluoranthene	50.0	53.55	107	48	122
Pyrene	50.0	50.55	101	45	120
Butyl benzyl phthalate	50.0	49.96	100	34	130
Benzo(a)anthracene	50.0	49.75	100	52	117
Chrysene	50.0	56.15	112	47	130
bis(2-Ethylhexyl)phthalate	50.0	58.28	117	33	130
Di-n-octyl phthalate	50.0	51.22	102	16	130
Benzo(b)fluoranthene	50.0	56.55	113	45	130
Benzo(k)fluoranthene	50.0	57.41	115	46	130
Benzo(a)pyrene	50.0	55.13	110	46	130
Indeno(1,2,3-cd)pyrene	50.0	59.26	119	41	130
Dibenz(a,h)anthracene	50.0	64.65	129	48	130
Benzo(g,h,i)perylene	50.0	59.54	119	36	130



## **RESULTS: VOLATILE ORGANIC COMPOUNDS**

The presence of the NETLAB LOGO in the top right corner of each page in this section indicates:

The Technical Manager of the Organics Analysis Department certifies that the samples included in this section have been prepared and analyzed using the procedures cited and that the results have been reviewed and approved. Any exceptions or qualifications of substance have been reported in the case narrative.

# VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0618-45 Client Name: Beta Group  
 Method: 8260 Lab Sample ID: MW-11  
 Matrix: (soil/water) WATER Lab File ID: C061915.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/18/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/19/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: EC Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
1634-04-4	tert-Butyl methyl ether	1.0	U
156-60-5	trans-1,2 Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
594-20-7	2,2-Dichloropropane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
106-93-4	Ethylene Dibromide	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	1.0	U
10061-02-6	Trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

# VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0618-45 Client Name: Beta Group  
 Method: 8260 Lab Sample ID: MW-11  
 Matrix: (soil/water) WATER Lab File ID: C061915.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/18/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/19/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: EC Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
100-41-4	Ethylbenzene	1.0	U
1330-20-7	m & p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	p-Isopropyltoluene	1.0	U
75-87-3	Chloromethane	1.0	U
75-65-0	tert butyl alcohol	5.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
109-99-9	Tetrahydrofuran	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
60-29-7	Diethyl Ether	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
91-20-3	Naphthalene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
994-05-8	Tert-amyl Methyl Ether	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
637-92-3	Ethyl Tert-butyl ether	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

# VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0618-45 Client Name: Beta Group  
 Method: 8260 Lab Sample ID: MW-11  
 Matrix: (soil/water) WATER Lab File ID: C061915.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/18/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/19/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: EC Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
108-20-3	Diisopropyl Ether	1.0	U
123-91-1	1,4-Dioxane	3.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.



# VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0618-45 Client Name: Beta Group  
 Method: 8260 Lab Sample ID: VBLK061914  
 Matrix: (soil/water) WATER Lab File ID: C061913.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/18/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/19/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: EC Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
67-64-1	Acetone	5.0	U
75-35-4	1,1-Dichloroethene	1.0	U
75-15-0	Carbon Disulfide	1.0	U
75-09-2	Methylene Chloride	1.0	U
1634-04-4	tert-Butyl methyl ether	1.0	U
156-60-5	trans-1,2 Dichloroethene	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
78-93-3	2-Butanone	5.0	U
594-20-7	2,2-Dichloropropane	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
67-66-3	Chloroform	1.0	U
74-97-5	Bromochloromethane	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
563-58-6	1,1-Dichloropropene	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
75-27-4	Bromodichloromethane	1.0	U
74-95-3	Dibromomethane	1.0	U
108-10-1	4-Methyl-2-pentanone	5.0	U
106-93-4	Ethylene Dibromide	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	1.0	U
10061-02-6	Trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
591-78-6	2-Hexanone	5.0	U
127-18-4	Tetrachloroethene	1.0	U
124-48-1	Chlorodibromomethane	1.0	U
108-90-7	Chlorobenzene	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

# VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0618-45 Client Name: Beta Group  
 Method: 8260 Lab Sample ID: VBLK061914  
 Matrix: (soil/water) WATER Lab File ID: C061913.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/18/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/19/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: EC Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
100-41-4	Ethylbenzene	1.0	U
1330-20-7	m & p-Xylene	2.0	U
95-47-6	o-Xylene	1.0	U
100-42-5	Styrene	1.0	U
75-25-2	Bromoform	1.0	U
98-82-8	Isopropylbenzene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
108-86-1	Bromobenzene	1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	U
95-49-8	2-Chlorotoluene	1.0	U
103-65-1	n-Propylbenzene	1.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	U
106-43-4	4-Chlorotoluene	1.0	U
98-06-6	tert-Butylbenzene	1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	U
135-98-8	sec-Butylbenzene	1.0	U
99-87-6	p-Isopropyltoluene	1.0	U
75-87-3	Chloromethane	1.0	U
75-65-0	tert butyl alcohol	5.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
109-99-9	Tetrahydrofuran	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
60-29-7	Diethyl Ether	1.0	U
104-51-8	n-Butylbenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
87-68-3	Hexachlorobutadiene	1.0	U
91-20-3	Naphthalene	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	U
994-05-8	Tert-amyl Methyl Ether	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
142-28-9	1,3-Dichloropropane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
637-92-3	Ethyl Tert-butyl ether	1.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

# VOLATILE ORGANICS ANALYSIS DATA SHEET

Case No.: A0618-45 Client Name: Beta Group  
 Method: 8260 Lab Sample ID: VBLK061914  
 Matrix: (soil/water) WATER Lab File ID: C061913.D  
 Sample wt/vol: 5.0 (g/ml) ML Date Sampled: 6/18/2014  
 % Moisture \_\_\_\_\_ Date Analyzed: 6/19/2014  
 Soil Extract Volume: \_\_\_\_\_ (uL) Dilution Factor: 1.0  
 Analyst's Initials: EC Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	UNITS: <u>ug/L</u>	Q
108-20-3	Diisopropyl Ether	1.0	U
123-91-1	1,4-Dioxane	3.0	U

U=not detected, D=diluted, E=over range (another data sheet is included), J=below limit, B=found in blank

New England Testing Laboratory, Inc.

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: New England Testing Lab Contract: Uniroyal - Chicop  
 Lab Code: RI010 Case No.: A0618-45 SAS No.:            SDG No.: Beta Grou

	EPA SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	TOT OUT
01	VLCS061914	100	101	96	0
02	VBLK061914	98	98	105	0
03	MW-11	96	98	104	0

QC LIMITS

SMC1 = 4-Bromofluorobenzene (70-130)  
 SMC2 = Toluene-D8 (70-130)  
 SMC3 = 1,2-Dichloroethane-D4 (70-130)

# Column to be used to flag recovery values  
 \* Values outside of contract required QC limits  
 D System Monitoring Compound diluted out

New England Testing Laboratory, Inc.

# Volatile Organics Laboratory Control Spike

Date Analyzed: 6/19/14

Sample ID: VLCS061914

Compound	Spike Added	Spike Result	Recovery, %	Lower Control Limit, %	Upper Control Limit, %
1,1-Dichloroethene	50.0	59.9	120	70	129
Benzene	50.0	61.1	122	73	129
Trichloroethene	50.0	59.6	119	77	122
Toluene	50.0	60.5	121	75	123
Chlorobenzene	50.0	59.4	119	73	125





## **ATTACHMENT IV**

**7Q10 DATA, MASSGIS, NOAA AND FWS LETTERS**

### **CHICOPEE RIVER (SEGMENT MA36-23)**

Location: Red Bridge Impoundment Dam to Wilbraham Pumping Station (old WWTP), Wilbraham/Ludlow

Segment Length: 3.8 miles

Classification: Class B, Warm Water Fishery, CSO

This segment is on the Massachusetts Year 2006 Integrated List of Waters – Category 5, “Waters requiring a TMDL”. Pollutants needing TMDLs: pathogens (MassDEP 2007b).

The MassDEP awarded money for the 604(b) grant entitled Chicopee River Watershed Basin Assessment. This project will address watershed assessment needs in the communities of Chicopee, Ludlow, Springfield, and Wilbraham that fall within the Chicopee River Basin. Stormwater infrastructure components will be identified, compiled into a database, and mapped; existing BMPs will be mapped and recommendations for future BMP implementation will be generated; existing water quality data will be compiled into a comprehensive database and analyzed to determine data gaps and to recommend future sampling efforts; and local water quality protection ordinances and bylaws will be reviewed and draft water protection bylaws prepared for communities within the study area.

### **FERC**

Western Mass Electric Co. (Consolidated Edison Energy), Red Bridge Impoundment Station, is a FERC-exempt facility (FERC Exempt #10676) operating a 3,600-Kilowatt hydroelectric power station on the Chicopee River in Wilbraham (FERC 20 December 2000). Under its exempt status, the facility is required to release a continuous flow of 237 cfs from the Red Bridge Impoundment Dam. This facility is permitted to draw down the Red Bridge Impoundment to one-foot below crest from April to June and two-feet below crest during the remainder of the year. In 1997 MA DFW reached agreement with Consolidated Edison Energy, MA, on an interim measure, that their Red Bridge Impoundment Station could use between 140 – 300 cfs if a constant spillage is maintained over the spillway. The water levels at Red Bridge Impoundment are monitored and recorded and fluctuations are limited to three inches with a minimum flow released over the entire width of the spillway (Kleinschmidt Associates and CEEI 1999). In a 1998 letter to Consolidated Edison Energy, Inc. the USFWS described the minimum continuous flow release method at the Red Bridge Impoundment Station as inadequate (McCollum 2001). A slide gate has been installed at the Red Bridge Impoundment to ensure a more reliable minimum continuous flow release (Slater 2007).

I. Maxmat Co. (176 Cottage St., Wilbraham), Collins Dam Station, is a FERC-exempt facility (FERC Exempt #6544) operating a 1,500-Kilowatt hydroelectric power station on this segment of the Chicopee River (FERC 20 December 2000). The dam has a hydroelectric facility leased by Swift River Co., which, for the most part, maintains minimum flows of approximately 200 cfs. The Collins Dam was built in 1985 and is eight feet tall with four-foot flashboards.

### **WATER WITHDRAWALS AND PERMITTED DISCHARGES**

#### **WMA (Appendix E, Table E1)**

Based on the available information there are no WMA regulated water withdrawals affecting this segment.

### **NPDES SURFACE WATER DISCHARGES (APPENDIX D, TABLE D1)**

Consolidated Edison Energy Massachusetts Inc. (CEEMI) (MA0035823)

### **DESIGNATED USE ASSESSMENT**

#### ***Aquatic Life Use***

#### **Habitat and Flow**

Flow is regulated by two hydropower projects (discussed above) on this segment.

# MassDEP - Bureau of Waste Site Cleanup

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

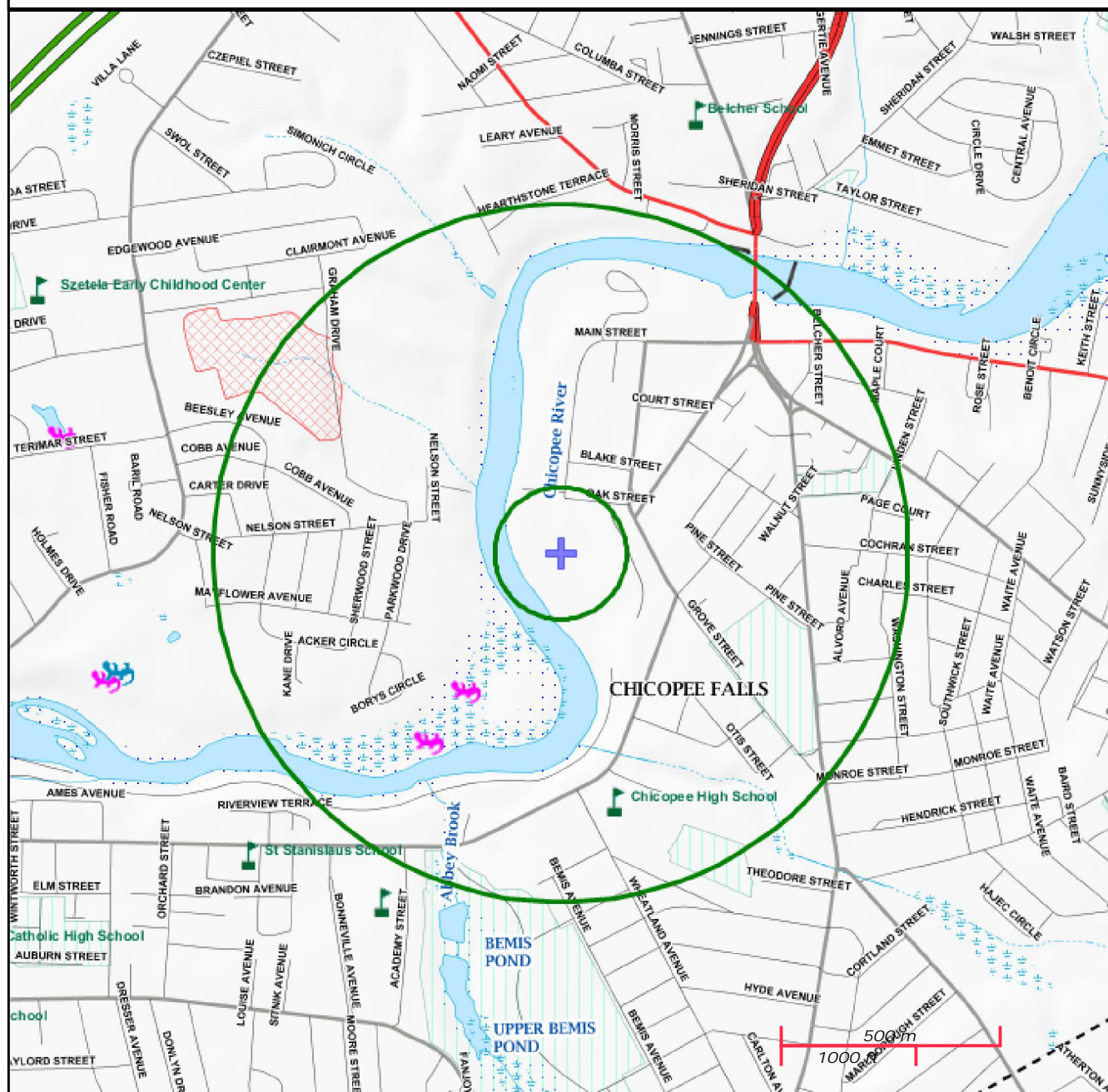
FORMER UNIROYAL FACILITY  
154 GROVE ST CHICOPEE, MA  
NAD83 UTM Meters:  
4669708mN, 699337mE (Zone: 18)  
June 18, 2014

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



# MassDEP

Commonwealth of Massachusetts  
Department of Environmental Protection



Roads: Limited Access, Divided, Other Hwy, Major Road, Minor Road, Track, Trail

Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct

Basins: Major, PWS; Streams: Perennial, Intermittent, Man Made Shore, Dam

Aquifers: Medium Yield, High Yield, EPA Sole Source

Non Potential Drinking Water Source Area: Medium, High (Yield)

PWS Protection Areas: Zone II, WPA, 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.



## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
New England Ecological Services Field Office  
70 COMMERCIAL STREET, SUITE 300  
CONCORD, NH 3301  
PHONE: (603)223-2541 FAX: (603)223-0104  
URL: [www.fws.gov/newengland](http://www.fws.gov/newengland)

Consultation Tracking Number: 05E1NE00-2014-SLI-0431

June 18, 2014

Project Name: Former Uniroyal

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project.

### To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having



similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan ([http://www.fws.gov/windenergy/eagle\\_guidance.html](http://www.fws.gov/windenergy/eagle_guidance.html)). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment



United States Department of Interior  
Fish and Wildlife Service

Project name: Former Uniroyal

## Official Species List

**Provided by:**

New England Ecological Services Field Office  
70 COMMERCIAL STREET, SUITE 300  
CONCORD, NH 3301  
(603) 223-2541  
<http://www.fws.gov/newengland>

**Consultation Tracking Number:** 05E1NE00-2014-SLI-0431

**Project Type:** \*\* Other \*\*

**Project Description:** Completing a RGP NPDES permit in order to conduct dewatering activities on a MassDEP listed disposal site as part of a building demolition project on a parcel with abandoned mill buildings



United States Department of Interior  
Fish and Wildlife Service

Project name: Former Uniroyal

### Project Location Map:



**Project Coordinates:** MULTIPOLYGON (((-72.5885571 42.1548754, -72.5885573 42.1548754, -72.5885649 42.1548769, -72.5885714 42.1548812, -72.5885757 42.1548877, -72.5885773 42.1548953, -72.5885758 42.1549029, -72.5885716 42.1549094, -72.5885651 42.1549138, -72.5885575 42.1549154, -72.5885457 42.1549155, -72.5885555 42.1549715, -72.5885553 42.1549794, -72.5885522 42.1549865, -72.5885465 42.1549919, -72.5885393 42.1549947, -72.5885314 42.1549945, -72.5885243 42.1549914, -72.5885189 42.1549857, -72.5885161 42.1549785, -72.5885051 42.154916, -72.5855534 42.1549473, -72.5855457 42.1549459, -72.5855392 42.1549416, -72.5855348 42.1549352, -72.5847194 42.1530263, -72.5847178 42.1530188, -72.5847191 42.1530114, -72.584723 42.1530049, -72.5847291 42.1530004, -72.5847365 42.1529984, -72.5873329 42.1528234, -72.5873408 42.1528245, -72.5873477 42.1528287, -72.5883347 42.1537354, -72.5883387 42.1537405, -72.5883409 42.1537466, -



United States Department of Interior  
Fish and Wildlife Service

Project name: Former Uniroyal

72.5885387 42.1548754, -72.5885571 42.1548754), (-72.5884982 42.154876, -72.5883027  
42.1537602, -72.587327 42.1528639, -72.5847673 42.1530365, -72.5855663 42.1549072, -  
72.5884982 42.154876)))

**Project Counties:** Hampden, MA



United States Department of Interior  
Fish and Wildlife Service

Project name: Former Uniroyal

## Endangered Species Act Species List

There are a total of 0 threatened, endangered, or candidate species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Critical habitats listed on the **Has Critical Habitat** lines may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

There are no listed species identified for the vicinity of your project.





United States Department of Interior  
Fish and Wildlife Service

Project name: Former Uniroyal

## **Critical habitats that lie within your project area**

There are no critical habitats within your project area.

Craig Ellis

---

From: Christine Vaccaro - NOAA Federal <christine.vaccaro@noaa.gov>  
Sent: Friday, June 20, 2014 9:04 AM  
To: Craig Ellis  
Subject: Re: Chicopee River

Hi Craig,

It looks like you are relatively far upstream from the confluence with the CT River. The CT river provides habitat for shortnose sturgeon (mainstem, not within tributaries) and Atlantic sturgeon (well downstream within the state of CT). As such, we don't expect any species listed by us to be exposed to any effects of your project.

Cheers,  
Chris

Chris Vaccaro  
Fisheries Biologist  
Protected Resources Division  
NOAA Fisheries  
Gloucester, MA  
Phone: 978-281-9167  
Email: [christine.vaccaro@noaa.gov](mailto:christine.vaccaro@noaa.gov)

On Fri, Jun 20, 2014 at 8:37 AM, Craig Ellis <[CEllis@beta-inc.com](mailto:CEllis@beta-inc.com)> wrote:

Hi Christine,

I have attached a map showing the site location. The property is the former Uniroyal mill complex at 154 Grove Street in Chicopee, MA. The discharge point for dewatering under the NPDES RGP will be on the east side of the river adjacent to the "+" symbol. I also included, in case helpful, the email from NMFS from 2007, for discharge at the same location. Please let me know if you need any additional information.

Thanks,

Craig

Craig Ellis, LSP

Senior Project Manager

BETA Group, Inc.

T: [781.255.1982](tel:781.255.1982)

CEllis@BETA-Inc.com

[www.BETA-Inc.com](http://www.BETA-Inc.com)



From: Christine Vaccaro - NOAA Federal [mailto:[christine.vaccaro@noaa.gov](mailto:christine.vaccaro@noaa.gov)]  
Sent: Thursday, June 19, 2014 9:24 AM  
To: Craig Ellis  
Subject: Chicopee River

Hi Craig,

Julie Crocker forwarded your message along to me. Could you email a map to me showing where your discharge location in the Chicopee River is?

Thanks,

Chris

Chris Vaccaro  
Fisheries Biologist  
Protected Resources Division  
NOAA Fisheries

Gloucester, MA  
Phone: [978-281-9167](tel:978-281-9167)  
Email: [christine.vaccaro@noaa.gov](mailto:christine.vaccaro@noaa.gov)

---

Confidentiality Notice:

This email message (and any attachments) contains information from BETA Group, Inc. that is confidential. If you are not the intended recipient(s), you may not disclose, copy, distribute, rely upon, or use its contents. Please reply to the sender immediately and delete this message. Thank you for your cooperation.

**Memorandum of Agreement**  
**Submitted to the Advisory Council on Historic Preservation**  
**Pursuant to 36 CFR Part 800**  
**Regarding the proposed demolition and redevelopment of the**  
**Fisk Tire/Uniroyal site, 154 Grove Street, Chicopee, Massachusetts**

WHEREAS, the City of Chicopee, by and through the Office of Community Development, proposes to use Community Development Block Grant funds from the US Dept. of Housing & Urban Development to remove a public safety hazard, reduce blight and encourage appropriate development at the former Fisk Tire / Uniroyal plant at 154 Grove St. in Chicopee Falls; and

WHEREAS, the Massachusetts Historical Commission, in its capacity as the State Historic Preservation Office, has determined that the Fisk Tire / Uniroyal complex is eligible for listing on the State and National Registers of Historic Places under criterion A (industrial history); and

WHEREAS, the City of Chicopee has submitted a plan to demolish Buildings 7, 8, 15, 27, 28, 33, 42, and 43 at the Fisk Tire / Uniroyal plant due to severe structural instability; environmental contamination; and documented infeasibility for reuse; and

WHEREAS, the City of Chicopee has consulted with the Massachusetts Historical Commission pursuant 36 CFR Part 800, regulations seeking to avoid, minimize or mitigate adverse effects on historic properties; and

WHEREAS, the City of Chicopee has determined that the proposed action by the City of Chicopee will have an adverse effect through the demolition of historic properties (36 CFR Part 800); and

WHEREAS, the Chicopee Historical Commission has participated in the consultation and has been invited to concur in this Memorandum of Agreement; and

WHEREAS, the parties have agreed that no feasible or prudent alternative to demolition exists that would avoid or minimize the adverse effect of the project;

NOW, THEREFORE, the City of Chicopee (City) and the Massachusetts Historical Commission (MHC) agree that the undertaking shall be implemented in accordance with the following stipulations in order to take into account the effect of the undertaking on the historic properties.

**Stipulations**

The City of Chicopee will ensure the following measures are carried out:

1. **DEMOLITION** - The City of Chicopee shall be permitted to move forward with the demolition of Buildings 7, 8, 15, 27, 28, 33, 42 and 43 (only) immediately upon execution of this Memorandum of Agreement.
2. **ENCOURAGE REUSE OF BUILDINGS #25 AND #26** - The City of Chicopee shall encourage the reuse of the remaining two buildings in the complex, Building #25 and Building #26, in the request for developer interest and subsequent development proposal(s).
3. **REDEVELOPMENT REVIEW** - At such time the City of Chicopee is prepared to solicit requests for developer interest or development proposals for the Fisk Tire / Uniroyal site redevelopment, the City shall provide MHC the opportunity to review and comment on the solicitation, and provide input on its stated goals and objectives for redevelopment.



4. PUBLIC COMMENT - If at any time during the implementation of the measures stipulated in this agreement, a written objection should be submitted to the City of Chicopee by the Massachusetts Historical Commission, the Chicopee Historical Commission or a member of the public, the City shall take the objection into account and may consult with the Massachusetts Historical Commission, the Chicopee Historical Commission or the objecting party as needed to resolve the objection

Execution and acceptance of this Memorandum of Agreement by an authorized representative of the City of Chicopee and the Massachusetts Historical Commission and implementation of its terms shall constitute evidence that the City has afforded MHC the opportunity to comment on the proposed project and its effect on historic properties and that the City has taken into account the effect of the undertaking on historic properties in compliance with 36 CFR Part 800.

Massachusetts Historical Commission:

By: Brona Simon  
Brona Simon, Executive Director  
State Historic Preservation Officer  
State Archaeologist 5/18/11

City Of Chicopee:  
By: Michael D. Bissonnette  
Michael D. Bissonnette, Mayor

Approved as to Form:

By: Karen Betournay  
Karen Betournay, City Solicitor

Consulting Party:

By: Stephen R Jendrysiak  
Stephen Jendrysiak, Chairman  
Chicopee Historical Commission