

Global Environmental Specialists BUFFALO CORPORATE CENTER 368 Pleasant View Drive Lancaster, New York 14086 Tel: (716) 684-8060, Fax: (716) 684-0844

July 27, 2012

Mr. William Welling, Project Manager New York State Department of Environmental Conservation Division of Environmental Remediation 625 Broadway, 12<sup>th</sup> Floor Albany, New York 12233–7013

Re: Monitoring Well Network Improvements Close-out Report for the Mr. C's Dry Cleaners Site in East Aurora, New York (NYSDEC Site No. 9-15-157)

Dear Mr. Welling:

This report summarizes the activities completed to install eleven monitoring wells (two new wells and nine replacement wells) and decommission six monitoring wells to improve the monitoring well network at the Mr. C's Dry Cleaners site, as described in the scope of work (SOW) prepared by Ecology and Environment Engineering, P.C. (EEEPC) in October 2011. The work was performed by the standby remedial contractor Groundwater and Environmental Services, Inc. (GES), of Cheektowaga, New York, under a New York State Department of Environmental Conservation (NYSDEC) standby remedial services contract (Contract Number C100900). GES subcontracted the drilling work to Quality Inspection Services, Inc. (QIS), of Buffalo, New York, and surveying work for the new well locations was performed by Clear Creek Land Surveying, LLC, of Springville, New York.

The Mr. C's site is located on an approximately 0.5-acre parcel at 586 Main Street in the village of East Aurora in Erie County, New York. Mr. C's is an inactive dry cleaning facility and is located in a one-story building on a concrete slab foundation with an adjacent paved parking lot. Tetracloroethene (PCE) and its daughter products are the contaminants of concern in the groundwater at the site. A remedial groundwater pump-and-treat system at Mr. C's site is currently housed inside the Mr. C's building, which consists of a sequestering agent feed system, bag filters, a 3,000-gallon holding tank, and a low-profile air stripper. Groundwater pumping wells and groundwater monitoring wells ring the entire Mr. C's Site.

#### Well Installation and Decommissioning

Implementation of the Groundwater Monitoring Well Network Improvement SOW commenced on December 12, 2011. Installation and decommissioning of off-street groundwater monitoring wells were completed in December. Installation and decommissioning of wells in the right-ofway were postponed until the following May due to the Village of East Aurora's restriction on working in the public highway and the seasonal closure of asphaltic batch plants. The SOW was completed on May 7, 2012. Refer to Table 1 for a summary of well decommissioning activities, Table 2 for a summary of new and replacement well installation activities, and Table 3 for a summary of construction details for the new and replacement wells. Attachment A (EEEPC's Daily Observation Reports) presents detailed descriptions of activities performed during this work. Attachment B presents the Well Decommissioning Logs, which were filled out by EEEPC personnel. Mr. Cs Monitoring Well Network Improvements Close-out Report July 27, 2012 Page 2

### **Oversight Activities**

EEEPC performed oversight and monitoring of the work that was performed under the SOW. Site oversight personnel recorded project progress with photo-documentation and prepared daily observation reports and decommissioning logs. In addition, EEEPC reviewed the contractor's submittals for conformance with the SOW. The complete submittal log for the project is provided as Attachment C.

#### **Monitoring Well Development**

The monitoring wells installed in December 2011 were developed on January 23 and 24, 2012; the wells installed in May 2012 were developed on May 24, 2012. Well development records are provided in the Contractor's Final Report in Attachment D.

### Sampling Results

Soil samples were collected from each 2-foot interval during the drilling of new wells EE-3, located north of the First Presbyterian Church, and EE-4, located in the gravel parking lot west of the Mr.C's building. The samples were analyzed for volatile organic compounds (VOCs). The complete analytical results for both wells are provided in the Contractor's Final Report in Attachment D.

EE-3 was drilled and sampled down to 28 feet bgs. The highest total VOC concentration (1,828.78  $\mu$ g/kg) was detected in EE-3 in a sample collected at a depth of 20 to 22 feet below ground surface (bgs). EE-4 was drilled to 15 feet bgs and sampled to 12 feet bgs. The highest total VOC concentration detected in EE-4 (4.0  $\mu$ g/kg) was detected in a sample collected at a depth of 8 to 10 feet bgs.

#### Waste Disposal

Purge water used in well development was pumped into 55 gallon drums, which were subsequently pumped into the Mr. C's Treatment building equalization tank via the sump in the on-site air stripper treatment system. The purge water was filtered through the bag filter in the treatment building as it was pumped into the sump in the treatment system building.

Decommissioned well parts and soil cuttings were placed in a roll-off dumpster for disposal. The roll-off dumpsters were located on the corner Agway property. One composite soil sample was collected from the compiled soil in the roll-off in December 2011 for laboratory analysis and creation of a waste profile. The same waste profile was used for the waste disposal in May 2012. Waste soil and construction debris were removed from the site in the roll-off dumpsters by Russo Environmental on January 23, 2012 and May 14, 2012. Wastes were disposed of at the Chaffee, NY, Waste Management Landfill. Waste disposal records are included in the Contractor's Final Report in Attachment D.

#### Surveying

The SOW required the surveying of nine replacement wells, two new wells, three existing wells to be decommissioned, and two existing wells. Existing and decommissioned wells were included, because they lacked top of inner casing elevations and/or coordinates. One replacement well was not installed, so it could not be surveyed. The wells were surveyed on May 24, 2012, by Clear Creek Land Surveying, LLC. Survey results for new and replacement well are presented in Table 3, and a summary of the survey results for existing wells MW-11 and MPI-15B and for decommissioned wells MPI-2S, MPI-8S, and MPI-4D are presented in Table 4. In accordance with the SOW, vertical elevations were referenced to the North American Vertical Datum of 1988 (NAVD88) to a control accuracy of  $\pm 0.01$  foot, and the horizontal coordinates were referenced to

Mr. Cs Monitoring Well Network Improvements Close-out Report July 27, 2012 Page 3

the State Plane Coordinate System (NYS State Plane West) to a control accuracy of  $\pm 0.5$  foot. The complete survey results are included with the Contractor's Final Report in Attachment D.

#### **Deviations from the Scope of Work**

The following deviations from the original SOW were made during the implementation of the project:

- Based on discussions between EEEPC, NYSDEC, and Matthew Hoeh, the Village of Aurora Town Superintendent of Public Work, the installation and decommissioning of wells in the right-of-way (ROW) was postponed from December 2011 until the spring 2012. This deviation from the SOW was discussed with NYSDEC and agreed upon in December 2011. Repair of the ROW was precluded in December due to the Village of East Aurora's restriction on working in the public highway and the seasonal closure of asphaltic batch plants
- Well casings for wells ESI-5, MPI-8S, and MPI-13B, which were in the ROW, were not removed during decommissioning due to the potential to damage the asphalt road by overdrilling or pulling of the casing. This was acceptable to the NYSDEC PM.
- At the time of the bidding of the SOW, access to several wells, including MPI-11B-R, had not been arranged by NYSDEC or EEEPC. The property owner at this well location did not permit access for well installation; therefore, the well was not installed. Another previously installed well was located at the northwestern corner of the property, which will be used for monitoring in lieu of MPI-11B/BR. Note: MPI-11B was not located prior to drilling activities; it is thought to be covered by gravel in the northwestern corner of the property.

If you have any questions or comments regarding this report, please contact me at (716) 684-8060.

Sincerely,

ECOLOGY AND ENVIRONMENT ENGINEERING, P.C.

Michael D. Steffan

Michael G. Steffan Project Manager

Attachments:

- A: EEEPC Daily Observation ReportsB: EEEPC Decommissioning LogsC: Submittal LogD: Contractor's Final Report
- cc: Mr. C's Project Folder CTF-002700.DC.13.03

	Date	Date	Decommissioning Method			
Well ID	Began	Completed	Proposed <sup>a</sup>	Actual		
ESI-5	5/4/2012	5/4/2012	Casing pull	Tremie grouted from 0.5-14 ft.		
MPI-2S	12/20/2011	12/20/2011	Casing pull	Overdrilled from 0-5 ft. Tremie grouted from 0.5-10 ft.		
MPI-4D	12/19/2011	12/19/2011	Overdrill	Tremie grouted from 0.5-12 ft.		
MPI-7I	12/14/2011	12/15/2011	Overdrill	Overdrilled from 0-5 ft. Tremie grouted from 0.5-34 ft.		
MPI-8S	5/4/2012	5/4/2012	Casing pull	Tremie grouted from 0.5-7.5 ft.		
MPI-13B	5/4/2012	5/4/2012	Grout in-place	Tremie grouted from 0.5-32 ft.		

# Table 1 Summary of Monitoring Well DecommissioningMr. C's Dry Cleaners, East Aurora, New York

Note: <sup>a</sup> The proposed decommissioning method was for costing purposes. Field conditions required alternative decommissioning techniques.

Mr. C'S Dry Cleaners, East Aurora, New York					
		Date		Date	
Well ID	Planned Action	Began	Date Completed	Developed	
EE-3	New Well	12/16/2011	12/16/2011	1/24/2012	
EE-4	New Well	12/15/2011	12/16/2011	1/24/2012	
ESI-2-R	Replacement for ESI-2	12/15/2011	12/16/2011	1/23/2012	
ESI-5-R	Replacement for ESI-5	5/7/2012 (moved to street)	5/7/2012 (moved to street)	5/24/2012	
MPI-2S-R	Replacement for MPI-2S	12/19/2011	12/20/2011	1/23/2012	
MPI-7I-R	Replacement for MPI-7I	12/13/2011	12/14/2011	1/24/2012	
MPI-8S-R	Replacement for	5/2/2012	5/7/2012	5/24/2012	
MIT1-05-K	MPI-8S	(moved to street)	(moved to street)	3/24/2012	
MPI-9S-R	Replacement for	5/2/2012	5/7/2012	5/24/2012	
WIF1-95-K	MPI-9S	(moved to street)	(moved to street)	3/24/2012	
MPI-11B-R	Replacement for MPI-11B	Not completed - Found alternate existing well for monitoring.			
MPI-13B-R	Replacement for MPI-13B	12/12/2011 (hand cleared in grass)	5/8/2012 (moved to street)	5/24/2012	
MPI-14B-R	Replacement for MPI-14B	12/12/2011	12/20/2011	1/23/2012	

# Table 2 Summary of New and Replacement Well InstallationMr. C's Dry Cleaners, East Aurora, New York

Mr. Cs Monitoring Well Network Improvements Close-out Report July 27, 2012 Page 6

Well ID	Well Casing/ Screen ID	Total Well Depth (ft TOIC)	TOIC Casing Elevation <sup>°</sup> (ft AMSL)	Ground Elevation <sup>°</sup> (ft AMSL)	Screen Interval (ft BGS)	Sand Pack Interval (ft BGS)	Top of Seal (ft BGS)	Water Level <sup>ª</sup> (ft TOIC)	Northing <sup>b</sup>	Easting <sup>b</sup>
EE-3	2	28	914.64	914.9	18-28	16-28	14	10.61	1,008,457.12	1,139,994.78
EE-4	2	14.25	916.69	916.9	5-15	3-15	0.5	11.86	1,008,726.94	1,140,212.13
ESI-2-R	2	18.9	917.44	917.7	9-19	7-19	5	12.48	1,008,739.35	1,140,418.33
ESI-5-R	2	14.55	912.19	912.5	5-15	3-15	1	8.35	1,008,162.00	1,140,146.65
MPI-2S-R	2	18.4	915.63	915.9	8-18	6-18	4	10.64	1,008,365.76	1,140,310.44
MPI-7I-R	2	38.5	915.44	915.8	28.9-38.9	26.5-39	24.5	10.46	1,008,537.71	1,140,294.84
MPI-8S-R	2	17.4	913.96	914.5	8-18	6-18	4	10.19	1,008,771.32	1,140,064.97
MPI-9S-R	2	16.52	913.38	914	8-18	6-18	4	9.66	1,008,923.50	1,140,066.68
MPI-13B-R	2	29.5	912.69	913.2	16.5-31.5	14.5- 31.5	12.5	9.44	1,009,063.59	1,139,779.59
MPI-14B-R	2	28.2	913.71	914	15-30	13-30	11	9.65	1,009,039.96	1,139,941.28

#### Note:

<sup>a</sup> Water levels taken during well development on 1/23/12, 1/24/12, and 5/24/12.
 <sup>b</sup> Coordinates system is New York State Plane West Zone (feet).
 <sup>c</sup> Referenced to National Geodetic Vertical Datum of 1988 (NGVD).

#### Key:

- AMSL = Above mean sea level.
- BGS = Below ground surface.
  - ft = Feet.
  - ID = Inner diameter.

NA = Not available.

TOIC = Top of inner casing.

#### Table 4 Summary of Survey Results for Existing Wells Mr. C's Dry Cleaners, East Aurora, New York

Well ID	Northing <sup>a</sup>	Easting <sup>ª</sup>	Case Elevation <sup>b</sup>	Riser Elevation <sup>b</sup>	Ground Elevation <sup>b</sup>
MW-11	1008565.98	1140177.64	914.39	914.08	914.4
MPI-15B	1008815.15	1139566.43	913.72	913.37	913.7
MPI-2S	1008362.27	1140310.82	NA <sup>c</sup>	NA°	NA <sup>c</sup>
MPI-8S	1008767.18	1140065.32	NA <sup>c</sup>	NA°	NA <sup>c</sup>
MPI-4D	1008609.73	1140040.12	NA <sup>c</sup>	NA°	NA <sup>c</sup>

Note:

<sup>a</sup> Coordinates system is New York State Plane West Zone NAD83 (feet).
 <sup>b</sup> Referenced to National Geodetic Vertical Datum of 1988 (NGVD).
 <sup>c</sup> The SOW only required coordinates to be surveyed for the decommissioned wells.

Attachment A

**EEEPC Daily Observation Reports and Photo Logs** 

Report No. 001	E & E Project File:	: <u>002700.DC13</u>	Date: <u>12/12/11</u>
NYSDEC	-	Temperature: (F)	26 ፑ (am) 39 ፑ (pm)
Division of Environmental Remediatio	n	Wind Direction:	North (am)
Mr. C's Dry Cleaner site NYSDEC Site No. 9-15-157 Monitoring Well Network Improvements		Weather:	North (pm) sunny (am) cloudy (pm)
East Aurora, New York		Arrive at site	0745
		Leave site:	1515
HEALTH & SAFETY:			
Are there any changes to the Health & Safety Pla (If yes, list the deviation under items for concern)		Yes ()	No (x)
Are monitoring results at acceptable levels?		Yes () n/a (X Yes () n/a (X Yes () n/a (X 	) * No ( )
OTHER ITEMS:		1110, p	
Site Sketch Attached:		Yes(X) No	o()
Photos Taken:		Yes(X) No	o()

#### **DESCRIPTION OF DAILY WORK PERFORMED:**

Larry Roedl (EEEPC) arrived on site and met with the contractor from (QIS), and Nicole Jarzyniecki (GES). A site walk was completed so the drilling contractor could see all the utility marking, (GES) held a site tailgate safety meeting. QIS started to hand excavate the soil for utility clearance for monitoring well MPI 14B—R to a depth of 8 feet. This M.W. was located in front of 347 Fillmore. QIS hit a rock and could not excavate any further, and will complete this utility clearance on 12/13/11. QIS moved down to 317 Fillmore and started to excavate the soil for utility clearance at this location MPI 13B-R, to a depth of 8 feet. L.Roedl and R. Moxley took 7 indoor air samples from the First Presbyterian Church.

SAMPLING (Soil/Water/Air): Contractor Sample ID:	E & E Sample ID:	Description:
N/A		

Report No. 001

Date: 12/12/11

### CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

A compressor and hand tools

1 – Active Equipment VISITORS TO SITE: None

PROJECT SCHEDULE ISSUES: Hand clearing will continue tomorrow.

**PROJECT BUDGET ISSUES: None** 

ITEMS OF CONCERN: None

**COMMENTS: None** 

ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, photo log, sketches) Photo Log and Site Map

SITE REPRESENTATIVE: Lawrence Roedl , Site Representative, EEEPC

Name: (signature)

Nauvence 7 Roed

XC:

W. Welling - NYSDEC M. Steffan – E & E Buffalo

Photo Log: Pg. 1 of 3





Figure 1: View of hand clearing at MPI-14B-R (Looking East)



Figure 2: View of finished hand clearing at MPI-13B-R (Looking SW, PM)

Report No. 001

Photo Log: Pg. 2 of 3



Figure 3: View of finished hand clearing at MPI-13B-R (Looking West, PM)



Figure 4: View of first location of hand clearing for MPI-14B-R (Looking East, PM)

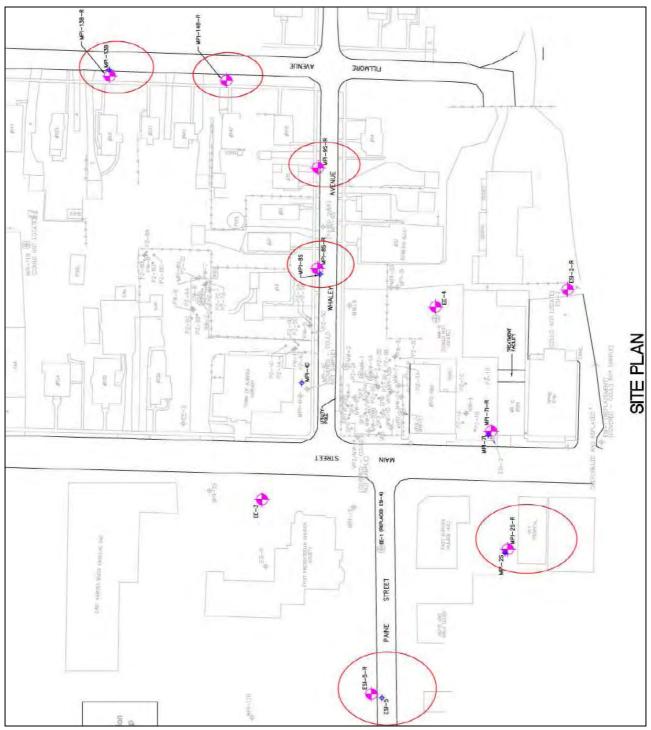
Report No. 001



Figure 5: View of second location hand clearing for MPI-14B-R (Looking South, PM)

Site Sketch: Pg. 1 of 1

Report No. 001



Mr. C's Monitoring Well Improvement Program 2011 Note: Village of Aurora wells circled in RED

Report No. 002	E & E Project File	: <u>002700.DC13</u>	Date: 12/13/11
NYSDEC		Temperature: (F)	28 (am) 38 (pm)
Division of Environmental Remediatio	n	Wind Direction:	North (am)
Mr. C's Dry Cleaner site NYSDEC Site No. 9-15-157 Monitoring Well Network Improvements		Weather:	North (pm) (am) sunny (pm) cloudy
East Aurora, New York		Arrive at site	0745
		Leave site:	1425
HEALTH & SAFETY:			
Are there any changes to the Health & Safety Pla (If yes, list the deviation under items for concern)		Yes ()	No (x)
Are monitoring results at acceptable levels?	Soils Waters Air	Yes () n/a (X) Yes () n/a (X) Yes () n/a (X)	) * No ( )
OTHER ITEMS:		1110, p	
Site Sketch Attached:		Yes (X) No	) (     )
Photos Taken:		Yes(X) No	) (     )

#### **DESCRIPTION OF DAILY WORK PERFORMED:**

Larry Roedl (EEEPC) arrived on site and met with the contractor from (QIS), and Nicole Jarzyniecki (GES) Nicole held a site tailgate safety meeting. After the meeting, QIS started to excavate soil by hand for utility clearance at monitoring well MPI-14B-R, to a depth of 8 feet. This was located in front of 547 Fillmore. The home owner at 517 Fillmore did not want the monitoring well placed near the sidewalk because he was planting a tree in that spot, he had ask us if we could go closer to the street. QIS moved down to 517 Fillmore (MPI-13B-R) and excavated the soil by hand for utility clearance at the curb area to a depth of 5' 2 "and located a pipe; this monitoring well will be relocated in the street. Monitoring wells ESI-5R, MPI-9SR, MPI-8S-R will be drilled in the street also due to the locations of the gas lines in relation to the well locations. The contractor saw cut pavement and excavated soil by hand for utility clearance at monitoring well MPI-7I-R.

SAMPLING (Soil/Water/Air): Contractor Sample ID:	E & E Sample ID:	Description:

Report No. 002

Date: 12/13/11

#### CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

A compressor and hand tools

1 – Active Equipment VISITORS TO SITE: None

#### **PROJECT SCHEDULE ISSUES:**

Monitoring wells ESI-5R, MPI-9SR, MPI-8S-R will be drilled in the street due to the locations of the gas lines in relation to the well locations. MPI-13B-R will also be drilled in the street. This work will be postponed until the spring.

#### **PROJECT BUDGET ISSUES: None**

**ITEMS OF CONCERN: None** 

**COMMENTS: None** 

ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, photo log, sketches)

Photo Log and Site Map

### SITE REPRESENTATIVE: Lawrence Roedl , Site Representative, EEEPC

Name: (signature)

awence T Roed

Dated: 12/13/11

XC:

W. Welling - NYSDEC M. Steffan – E & E Buffalo

002

Report No.

Photo Log: Pg. 1 of 2





Figure 1: View of Saw Cutting for Utility Clearance at MPI-7I-R (Looking NE)



Figure 2: View of Utility Clearance at MPI-7I-R (Looking NE)

Report No. 002

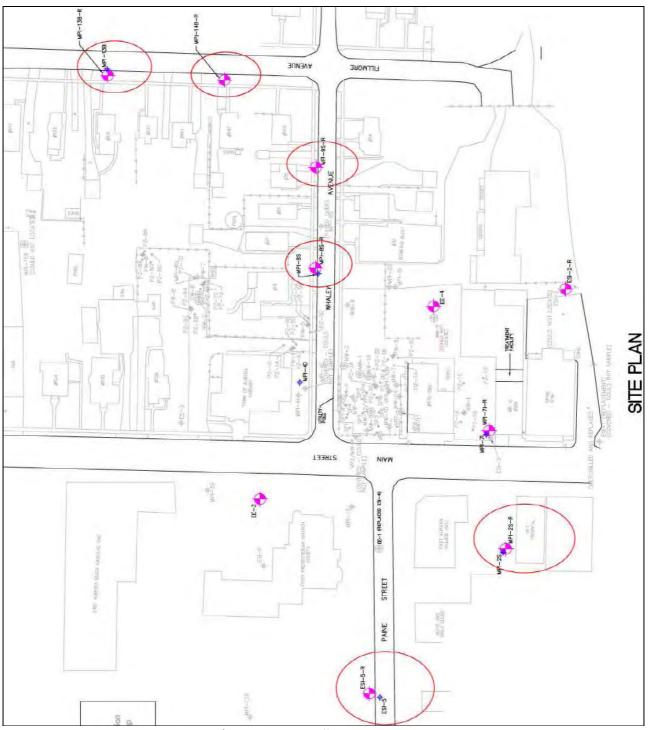
Photo Log: Pg. 2 of 2 Date: 12/13/11



Figure 3: View of Utility Clearance at MPI-7I-R (Looking East)

Site Sketch: Pg. 1 of 1

Report No. 002



Mr. C's Monitoring Well Improvement Program 2011 Note: Village of Aurora wells circled in RED

Report No. 003	E & E Project File	: <u>002700.DC13</u>	Date: <u>12/14/11</u>
NYSDEC		Temperature: (F)	36(am) 34(pm)
Division of Environmental Remediatio	n	Wind Direction:	North(am)
Mr. C's Dry Cleaner site NYSDEC Site No. 9-15-157 Monitoring Well Network Improvements		Weather:	North(pm) (am) Cloudy (pm) Cloudy/ Rain
East Aurora, New York		Arrive at site	0745
		Leave site:	1635
<u>HEALTH &amp; SAFETY:</u>			
Are there any changes to the Health & Safety Pla (If yes, list the deviation under items for concern)	n?	Yes ()	No (x)
Are monitoring results at acceptable levels?	Soils Waters Air	Yes () n/a (X) Yes () n/a (X) Yes () n/a (X)	) * No ( )
OTHER ITEMS:			
Site Sketch Attached:		Yes (X) No	( )
Photos Taken:		Yes (X) No	( )

#### **DESCRIPTION OF DAILY WORK PERFORMED:**

Larry Roedl (EEEPC) arrived on site and met with the contractor from (QIS), and Nicole Jarzyniecki (GES). Nicole held a site tailgate safety meeting. After the meeting QIS, started to drill MPI-7I-R to the same depth that MPI-7 was drilled to. QIS completed the installation of well MPI-7I-R. QIS filled MPI-7 with grout to 5 feet below the surface. The grout will set overnight to harden so when the casing on the well is removed it will not leak into the new well.

SAMPLING (Soil/Water/Air): Contractor Sample ID:	E & E Sample ID:	Description:

Pg. 1 of 2

Report No. 003

Date: 12/14/11

#### CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

Drilling rig and a support truck

1 – Active Equipment

VISITORS TO SITE: Dave Szymanski (NYSDEC), Steven Leitten, Wendy (GES), Mike Steffan (EEEPC)

#### **PROJECT SCHEDULE ISSUES:**

The proposed work schedule has changed. GES is working on wells in areas with high traffic and parking issues first. Planned work for tomorrow includes decommissioning MPI-7I and installing EE-3 and ESI-2-R.

#### **PROJECT BUDGET ISSUES: None**

ITEMS OF CONCERN: None

#### **COMMENTS: NONE**

### ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, photo log, sketches) Photo Log and Site Map

#### SITE REPRESENTATIVE: Lawrence Roedl , Site Representative, EEEPC

Name: (signature)

awence T Roed

Dated: 12/14/11

XC:

W. Welling - NYSDEC M. Steffan – E & E Buffalo

Photo Log: Pg. 1 of 2

Report No. 003



Figure 1: View of Well MPI-71-R Installation (Looking North AM)



Figure 2: View of Well MPI-71-R Installation (Looking North PM)

Report No. 003

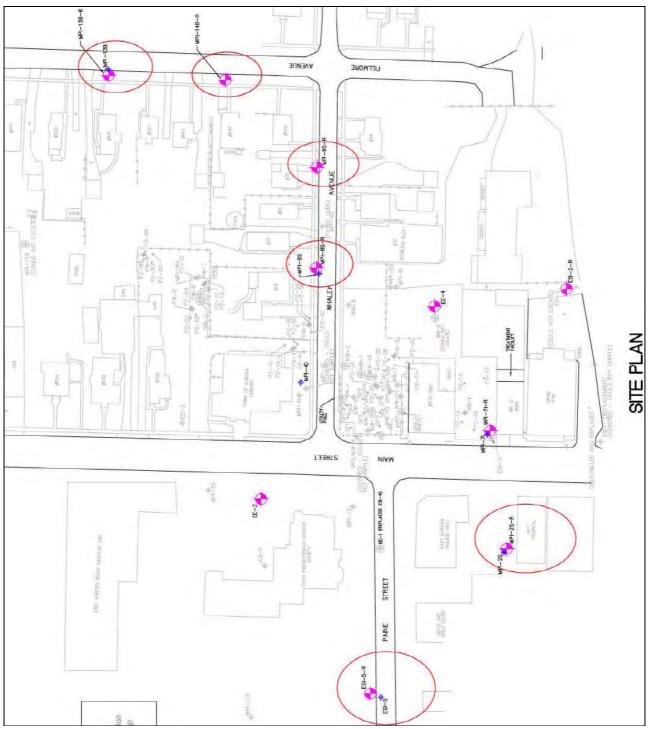
Photo Log: Pg. 2 of 2 Date: 12/14/11



Figure 3: View of Looking down at finished monitoring well MPI-7I-R (pm)

Site Sketch: Pg. 1 of 1

Report No. 003



Mr. C's Monitoring Well Improvement Program 2011 Note: Village of Aurora wells circled in RED

Report No. 004	E & E Project File	002700.DC13	Date:	12/15/11
NYSDEC		Temperature: (F)	52(am) 54(pm)	
Division of Environmental Remediation		Wind Direction:	South(am) East (pm)	
<b>Mr. C's Dry Cleaner site</b> NYSDEC Site No. 9-15-157 Monitoring Well Network Improvements		Weather:		
East Aurora, New York		Arrive at site	0745	
		Leave site:	1705	
HEALTH & SAFETY:				
Are there any changes to the Health & Safety Pla (If yes, list the deviation under items for concern)		Yes ()	No	( x )
Are monitoring results at acceptable levels? Soils Waters Air		Yes () n/a (X) * No () Yes () n/a (X) * No () Yes () n/a (X) * No () • If No, provide comments		
OTHER ITEMS:				
Site Sketch Attached:		Yes ( ) No	( )	
Photos Taken:		Yes (X) No	)))	

#### **DESCRIPTION OF DAILY WORK PERFORMED:**

Larry Roedl (EEEPC) arrived on site and met with the contractor from (QIS), and Nicole Jarzyniecki (GES) Nicole held a site tailgate safety meeting. After the meeting, QIS started over drilling MPI-7I to a depth of 5 feet, the 8 inch boring was filled with grout to 1' 2" below the surface. Concrete will be poured into the void on 12/16/11. QIS began to build a portable decon pad. After the decon pad was built, they decon'ed all the augers and rods. QIS started to drill EE-4 to a depth of 15' this monitoring well was logged by GES and also sampled for (VOA 8260). QIS started to drill ESI-2R to a depth of 19' at this location had to be move 5' east because the transformers were too close to the rig. All the concrete pads will be poured on 12/16/11. QIS decon'ed all augers and cleaned the work area before leaving for the day.

SAMPLING (Soil/Water/Air): Contractor Sample ID:	E & E Sample ID:	Description:

Report No. 004

Date: 12/15/11

#### CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

Drilling rig and a support truck

1 – Active Equipment VISITORS TO SITE: None

#### **PROJECT SCHEDULE ISSUES:**

The proposed work schedule has changed. Planned work for tomorrow includes decommissioning MPI-4D, installing monitoring well EE-3, and finishing the concrete pads.

PROJECT BUDGET ISSUES: None

ITEMS OF CONCERN: None

**COMMENTS:** None

ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, photo log, sketches) Photo Log and Site Map

### SITE REPRESENTATIVE: Lawrence RoedI , Site Representative, EEEPC

Name: (signature)

auvence T Roed

Dated: 12/15/11

XC:

W. Welling - NYSDEC M. Steffan – E & E Buffalo

Report No.

Photo Log: Pg. 1 of 5 Date: 12/15/11



Figure 1: View of drilling at EE-4 (Looking West AM)



Figure 2: View of split spoon core 2'-4' bgs at EE-4 (AM)

Report No. 004

Photo Log: Pg. 2 of 5



Figure 3: View of split spoon core 4'-6' bgs at EE-4 (AM)



Figure 4: View of split spoon core 6'-8' bgs at EE- 4 (AM)

Photo Log: Pg. 3 of 5

Report No. 004



Figure 5: View of split spoon core 8'-10' bgs at EE-4 (AM)



Figure 6: View of split spoon core 10'-12' bgs at EE-4 (AM)

Report No. 004

Photo Log: Pg. 4 of 5



Figure 7: View of split spoon core 14-15' bgs at EE-4 (AM)



Figure 8: View of EE-4 well construction for the day (Looking West AM)

Photo Log: Pg. 5 of 5

Report No. 004



Figure 9: View of drilling at ESI-2-R (Looking Northeast PM)



Figure 10: View of drilling at ESI-2-R (Looking Southwest PM)

Report No. 005	E & E Project File	002700.DC13	Date:	12/16/11
NYSDEC		Temperature: (F)	37(am) 37(pm)	
Division of Environmental Remediation	n	Wind Direction:	West(am	,
<b>Mr. C's Dry Cleaner site</b> NYSDEC Site No. 9-15-157 Monitoring Well Network Improvements		Weather:	West (pn (am) Clo (pm) clo	oudy /Rain
East Aurora, New York		Arrive at site	0745	
		Leave site:	1640	
HEALTH & SAFETY:				
Are there any changes to the Health & Safety Plan (If yes, list the deviation under items for concern)	n?	Yes ( )	No	( x )
Are monitoring results at acceptable levels?	s? Soils Yes () n/a (X) * No Waters Yes () n/a (X) * No Air Yes () n/a (X) * No • If No, provide com			
OTHER ITEMS:		- 7  -		
Site Sketch Attached:		Yes (X) No	)())	
Photos Taken:		Yes (X) No	)))	

#### DESCRIPTION OF DAILY WORK PERFORMED:

Larry Roedl (EEEPC) arrived on site and met with the contractors from (QIS), and Nicole Jarzyniecki (GES). Nicole held a site tailgate safety meeting. After the meeting, QIS started to pour concrete pads for monitoring wells ESI-2-R and EE-4, Andy from (QIS) at EE-3 started to excavate the soil by hand to a depth of 5 feet because the gas company did not mark the location of the gas lines. Will Welling (NYSDEC) was on site. After the excavation was completed the drilling rig was in put in place. A spilt spoon was driven down to the well depth of 28 feet, the PID reading were between 0.1 and 6.7. GES completed the installation of EE-3. MPI-4D was not decommissioned because QIS ran out of day light. The decon will be done on Monday December 19, 2011 before work begins.

SAMPLING (Soil/Water/Air): Contractor Sample ID:	E & E Sample ID:	Description:

Report No. 005

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

Drilling rig and a support truck

1 – Active Equipment VISITORS TO SITE: Will Wellings (NYSDEC ), Andy Kucserik (QIS)

**PROJECT SCHEDULE ISSUES:** 

Decommission MPI-4D, MPI-2S Install monitoring wells MPI-2S-R Decon augers

PROJECT BUDGET ISSUES: None

ITEMS OF CONCERN: None

**COMMENTS:** None

Name: (signature)

ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, photo log, sketches)

SITE REPRESENTATIVE: Lawrence Roedl, Site Representative, EEEPC

auvence T Roed

Dated: 12/16/11

xc:

W. Welling - NYSDEC M. Steffan – E & E Buffalo Pg. 2 of 2

Photo Log: Pg. 1 of 10

Report No.



Figure 1: View of Hand Excavation to 5' for Utility Clearance at EE-3 (Looking South AM)



Figure 2: View of finished well pad at EE-4 (AM)

Report No. 005

Photo Log: Pg. 2 of 10 Date: 12/16/11



Figure 3: View of Finished Well Pad at ESI-2-R (AM)



Figure 4: View of GES setting the rig on EE- 3 (AM)

Report No. 005

Photo Log: Pg. 3 of 10 Date: 12/16/11



Figure 5: View of split spoon core 5'-6' bgs at EE-3 (No Recovery)



Figure 6: View of split spoon core 6'-8' bgs at EE-3 (No Recovery)

Report No. 005

Photo Log: Pg. 4 of 10 Date: 12/16/11



Figure 7: View of split spoon core 8'-10' bgs at EE-3



Figure 8: View of split spoon core 10'-12' bgs at EE-3

Report No. 005

Photo Log: Pg. 5 of 10 Date: 12/16/11



Figure 9: View of split spoon core 12'-14' bgs at EE-3



Figure 10: View of split spoon core 14'-16' bgs at EE-3

Photo Log: Pg. 6 of 10

#### Report No.



Figure 11: View of split spoon core 16'-18' bgs at EE-3



Figure 12: View of split spoon core 18'-20' bgs at EE-3 (No Recovery)

Report No. 005

Date: 12/16/11

Photo Log: Pg. 7 of 10



Figure 13: View of split spoon core 20'-22' bgs at EE-3



Figure 14: View of split spoon core 22'-24' bgs at EE-3

Report No. 005

Photo Log: Pg. 8 of 10

Date: 12/16/11



Figure 15: View of split spoon core 24'-26' bgs at EE-3



Figure 16: View of split spoon core 26'-28' bgs at EE-3

Report No. 005

Photo Log: Pg. 9 of 10

Date: 12/16/11



Figure 17: View of GES Setting well at EE-3



Figure 18: View of Finished Well Pad at EE-3

Report No. 005

Photo Log: Pg. 10 of 10





Figure 19: View of Work Area for Split Spoon Decon

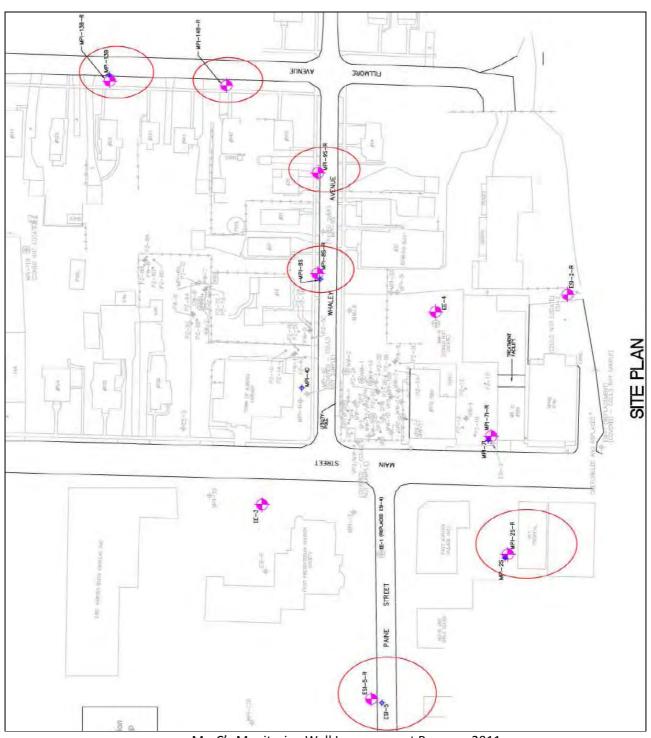


Figure 20: View of Work Zone during Drilling

Site Sketch: Pg. 1 of 1

Report No. 005

Date: 12/14/11



Mr. C's Monitoring Well Improvement Program 2011 Note: Village of Aurora wells circled in RED

Report No. 006	E & E Project File:	002700.DC13	Date:	12/19/11
NYSDEC		Temperature: (F)	37(am) 37(pm)	
Division of Environmental Remediation	n	Wind Direction:	West(am	1)
Mr. C's Dry Cleaner site NYSDEC Site No. 9-15-157 Monitoring Well Network Improvements		Weather:	. ,	n) budy/Windy budy/Windy
East Aurora, New York		Arrive at site	0745	
		Leave site:	1810	
HEALTH & SAFETY:				
Are there any changes to the Health & Safety Plan (If yes, list the deviation under items for concern)	n?	Yes ( )	No	( x )
Are monitoring results at acceptable levels?		Yes () n/a(X) Yes () n/a(X) Yes () n/a(X) • <i>If No. p</i>	* No	
OTHER ITEMS:		- 7 [-		
Site Sketch Attached:		Yes ( ) No (	X )	
Photos Taken:		Yes (X) No	( )	

#### **DESCRIPTION OF DAILY WORK PERFORMED:**

Brandon Chiasera (EEEPC) arrived on site and met with L. Roedl (EEEPC) for a site briefing and the contractors from QIS and GES. Tom from GES held a site tailgate safety meeting. After the meeting, decon work was performed on the drilling equipment and L. Roedl was off site afterward. Decommissioning began and was completed at MPI-4D. Drilling then began and was completed at MPI-14B-R shortly after noon. Drilling was begun and completed at MPI-2S-R. During the drilling activities at MPI-2S-R, Mr. Bryan R. Gazda, East Aurora Village Administrator visited the site and inquired about the activity. It was briefly explained to him that the work was in conjunction with previous work in the area. Mr. Gazda was off site shortly thereafter. After MPI-2S-R drilling was completed, the crews moved the equipment back to the staging area for decon. Tomorrow's work will consist of decommissioning MPI-2S, completing MPI-2S-R and MPI-14B-R, decon and cleaning up.

SAMPLING (Soil/Water/Air): Contractor Sample ID:	E & E Sample ID:	Description:

Pg. 1 of 2

Date: 12/19/11

Report No.	006
CONTRACTO	R/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:
Drilling rig and	a support truck from QIS. Support truck from GES.

1 – Active Equipment VISITORS TO SITE: Bryan R. Gazda, Village of East Aurora Administrator

#### **PROJECT SCHEDULE ISSUES:**

PROJECT BUDGET ISSUES: None

ITEMS OF CONCERN: None

COMMENTS: None

ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, photo log, sketches) Photo log

SITE REPRESENTATIVE:

#### ATIVE: Brandon Chiasera, Site Representative, EEEPC

Name: (signature)

Dated: 12/19/11

XC:

ng - NYSDEC

W. Welling - NYSDEC M. Steffan – E & E Buffalo

Photo Log: Pg. 1 of 1



Figure 1: Decontamination pad in parking lot at intersection of Main St. and Whaley Ave, looking South.

Report No. 007	E & E Project File:	002700.DC13	Date:	12/20/11
NYSDEC		Temperature: (F)	30(am) 32(pm)	
Division of Environmental Remediatio	n	Wind Direction:	West(am	1)
Mr. C's Dry Cleaner site NYSDEC Site No. 9-15-157 Monitoring Well Network Improvements		Weather:	West (pr (am) Clo (pm) Su	budy
East Aurora, New York		Arrive at site	0745	
		Leave site:	1400	
HEALTH & SAFETY:				
Are there any changes to the Health & Safety Plat (If yes, list the deviation under items for concern)	n?	Yes ( )	No	( x )
Are monitoring results at acceptable levels?		Yes () n/a (X) Yes () n/a (X) Yes () n/a (X) • If No, p	* No	
OTHER ITEMS:				
Site Sketch Attached:		Yes ( ) No (	X )	
Photos Taken:		Yes ( ) No (	X )	

#### **DESCRIPTION OF DAILY WORK PERFORMED:**

Brandon Chiasera (EEEPC) arrived on site and met with contractors from QIS and GES. Tom from GES held a site tailgate safety meeting. After safety meeting, the equipment was moved to well MPI-2S for decommissioning. After the well was decommissioned to specs, well MPI-2S-R was completed. After completion of MPI-2S-R, the crew moved to well MPI-14B-R for completion. After completing MPI-14B-R, the site was cleaned up of drill cuttings, as was the proposed site for MPI-13B-R. After cleaning up, the drillers moved their equipment back to the staging area for demobilization. All decontamination water was properly disposed of at the on-site treatment center.

SAMPLING (Soil/Water/Air): Contractor Sample ID:	E & E Sample ID:	Description:

Pg. 1 of 2

Report No. 007 CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:	Date: 12/20/11
Drilling rig and a support truck from QIS. Support truck from GES.	
1 – Active Equipment	
VISITORS TO SITE:	
None	
PROJECT SCHEDULE ISSUES:	
None	
PROJECT BUDGET ISSUES: None	
ITEMS OF CONCERN: None	
COMMENTS: None	
ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, photo lo	na sketches)
None	y, siletones/

Name: (signature)

SITE REPRESENTATIVE:

2

Brandon Chiasera, Site Representative, EEEPC

Dated: 12/20/11

xc:

W. Welling - NYSDEC M. Steffan – E & E Buffalo

Report No. 008	E & E Project File:	002700.DC13	Date:	1/23/12
NYSDEC	-	Temperature: (F)	38 41	(am) (pm)
Division of Environmental Remediation	n	Wind Direction:	west west	(am) (pm)
<b>Mr. C's Dry Cleaner site</b> NYSDEC Site No. 9-15-157 Monitoring Well Network Improvements		Weather:	(am) (pm)	/ / /
East Aurora, New York		Arrive at site	08:30	
		Leave site:	16:30	
HEALTH & SAFETY:				
Are there any changes to the Health & Safety Plar (If yes, list the deviation under items for concern)	ז?	Yes ( )	No	( x )
Are monitoring results at acceptable levels?	Soils Waters Air	Yes () n/a () Yes () n/a () Yes () n/a () • If No. p	* No	() > ()
OTHER ITEMS:		-71-		
Site Sketch Attached:		Yes ( ) No	(X)	
Photos Taken:		Yes(x) No	)()	

#### **DESCRIPTION OF DAILY WORK PERFORMED:**

L.Roedl EEEPC, MET JENNIFER and TOM from GES on site to perform monitoring well development for the six new well that were installed in December. Monitoring Well that were completed today were MPI-14BR, MPI2-SR, ESI-2R, water depth ,and field measurement of conductivity, ph and turbidity were taken every 5 minutes with a water quality meter( Horiba) The development water that was purged out of the well was placed into 55 gallon drums and then pumped into the treatment system. The roll-off dumpster were pick up today by Russo Environmental.

SAMPLING (Soil/Water/Air): Contractor Sample ID:	E & E Sample ID:	Description:
	· · · · · · · · · · · · · · · · · · ·	

Pg. 1 of 6

02 (CM)Steffan Construction forms/Buffalo/Daily Observation Report.doc

Report No. 008 CONTRACTOR/SUBCONT	RACTOR EQUIPMENT AND PERSONNEL ON SITE:	Date: 1/23/12
1 – Active Equipment VISITORS TO SITE:		
Nono		
PROJECT SCHEDULE ISS	UES:	
None		
PROJECT BUDGET ISSUE	S:	
None		
ITEMS OF CONCERN:		
COMMENTS:		
ATTACHMENT(S) TO THIS	REPORT: (field orders, proposed change orders, propose	photo log, sketches)
SITE REPRESENTATIVE:	, Site Represe	entative, EEEPC
Name: (signature)	Nauvence T Roed	
- (- ()	Nauvence / Koedy	
xc:	W. Welling - NYSDEC M. Steffan – E & E Buffalo	
	w. Stehall – L $\alpha$ L Dulla	

Pg. 2 of 6

Report No. 008

#### Photo Documentation:





Date: 1/23/12

Report No. 008

Date: 1/23/12



Report No. 008

Date: 1/23/12



Pg. 5 of 6

Report No. 008

Date: 1/23/12



Report No009	E & E Project File	: <u>002700.DC13</u>	Date: 1/24/12	-
NYSDEC		Temperature: (F)	30(am) 28(pm)	
Division of Environmental Remediation	<b>1</b>	Wind Direction:	West(am) (pm)	
Mr. C's Dry Cleaner site NYSDEC Site No. 9-15-157 Monitoring Well Network Improvements		Weather:	(am) / (pm) /	_
East Aurora, New York		Arrive at site	0730	
		Leave site:	15:15	
HEALTH & SAFETY:				
Are there any changes to the Health & Safety Plan (If yes, list the deviation under items for concern)	1?	Yes ()	No (x)	
Are monitoring results at acceptable levels?	Soils Waters Air	Yes () n/a(x) Yes () n/a(x) Yes () n/a(x) • <i>If No, pi</i>	* No() * No() * No() rovide comments	
OTHER ITEMS:				
Site Sketch Attached:		Yes ( ) No (	(x)	
Photos Taken:		Yes(x) No	<b>( )</b>	

#### DESCRIPTION OF DAILY WORK PERFORMED:

L.Roedl EEEPC, MET JENNIFER and TOM from GES on site to perform monitoring well development for the six new well that were installed in December. Monitoring Well that were completed today were MPI-7IR, at EE-4 EEEPC noticed a oily sheen during development of the monitoring well. EE-3, water depth , and field measurement of conductivity, ph and turbidity were taken every 5 minutes with a water quality meter( Horiba) The development water that was purged out of the well was placed into 55 gallon drums and then pumped into the treatment system.

ł

02 (CM)Steffan Construction forms/Buffalo/Daily Observation Report.doc

Pg. 1 of 2

•

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:	Report No.	Date:
1 - Active Equipment         VISITORS TO SITE:         None         PROJECT SCHEDULE ISSUES:         None         PROJECT BUDGET ISSUES:         None         ITEMS OF CONCERN:         None         COMMENTS:	CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PE	
1 - Active Equipment         VISITORS TO SITE:         None         PROJECT SCHEDULE ISSUES:         None         PROJECT BUDGET ISSUES:         None         ITEMS OF CONCERN:         None         COMMENTS:		
1 - Active Equipment         VISITORS TO SITE:         None         PROJECT SCHEDULE ISSUES:         None         PROJECT BUDGET ISSUES:         None         ITEMS OF CONCERN:         None         COMMENTS:		
1 - Active Equipment VISITORS TO SITE: None PROJECT SCHEDULE ISSUES: None PROJECT BUDGET ISSUES: None ITEMS OF CONCERN: None COMMENTS: COMMENTS: SITE REPRESENTATIVE: Lawrence Roed!, Site Representative,		
1 - Active Equipment VISITORS TO SITE: None PROJECT SCHEDULE ISSUES: None PROJECT BUDGET ISSUES: None ITEMS OF CONCERN: None COMMENTS: COMMENTS: SITE REPRESENTATIVE: Lawrence Roed!, Site Representative,		· · · · · · · · · · · · · · · · · · ·
VISITORS TO SITE: None  PROJECT SCHEDULE ISSUES: None  PROJECT BUDGET ISSUES: None  ITEMS OF CONCERN: None  COMMENTS:  SITE REPRESENTATIVE: Lawrence RoedI, Site Representative,	······································	
VISITORS TO SITE: None  PROJECT SCHEDULE ISSUES: None  PROJECT BUDGET ISSUES: None  ITEMS OF CONCERN: None  COMMENTS:  SITE REPRESENTATIVE: Lawrence RoedI, Site Representative,	1 – Active Equipment	
PROJECT SCHEDULE ISSUES: None  PROJECT BUDGET ISSUES: None  ITEMS OF CONCERN: None  COMMENTS:  ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, photo log, sketches)  SITE REPRESENTATIVE: Lawrence RoedI, Site Representative,		
None   PROJECT BUDGET ISSUES:   None   ITEMS OF CONCERN: None   None   COMMENTS:   COMMENTS:   ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, photo log, sketches)   SITE REPRESENTATIVE:   Lawrence Roed!, Site Representative,	None	
None   PROJECT BUDGET ISSUES:   None   ITEMS OF CONCERN: None   None   COMMENTS:   COMMENTS:   ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, photo log, sketches)   SITE REPRESENTATIVE:   Lawrence Roed!, Site Representative,		
None   PROJECT BUDGET ISSUES:   None   ITEMS OF CONCERN: None   None   COMMENTS:   COMMENTS:   ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, photo log, sketches)   SITE REPRESENTATIVE:   Lawrence Roed!, Site Representative,		
None   PROJECT BUDGET ISSUES:   None   ITEMS OF CONCERN: None   None   COMMENTS:   COMMENTS:   ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, photo log, sketches)   SITE REPRESENTATIVE:   Lawrence Roed!, Site Representative,		
PROJECT BUDGET ISSUES: None ITEMS OF CONCERN: None COMMENTS: SITE REPRESENTATIVE: Lawrence Roed[, Site Representative,		
PROJECT BUDGET ISSUES: None ITEMS OF CONCERN: None COMMENTS: ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, photo log, sketches) SITE REPRESENTATIVE: Lawrence RoedI, Site Representative,	None	
PROJECT BUDGET ISSUES: None ITEMS OF CONCERN: None COMMENTS: ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, photo log, sketches) SITE REPRESENTATIVE: Lawrence RoedI, Site Representative,	·····	
None ITEMS OF CONCERN: None COMMENTS: ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, photo log, sketches) SITE REPRESENTATIVE: Lawrence Roed , Site Representative,	· · · · · · · · · · · · · · · · · · ·	
ITEMS OF CONCERN: None COMMENTS: ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, photo log, sketches) SITE REPRESENTATIVE: Lawrence RoedI, Site Representative,		
None         COMMENTS:         ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, photo log, sketches)         SITE REPRESENTATIVE:       Lawrence RoedI, Site Representative,		
None         COMMENTS:         ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, photo log, sketches)         SITE REPRESENTATIVE:       Lawrence RoedI, Site Representative,		······································
None         COMMENTS:         ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, photo log, sketches)         SITE REPRESENTATIVE:       Lawrence RoedI, Site Representative,	ITEMS OF CONCERNI	
COMMENTS: ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, photo log, sketches) SITE REPRESENTATIVE: Lawrence RoedI, Site Representative,		
ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, photo log, sketches) SITE REPRESENTATIVE: Lawrence RoedI, Site Representative,		
ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, photo log, sketches) SITE REPRESENTATIVE: Lawrence RoedI, Site Representative,	·····	
ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, photo log, sketches) SITE REPRESENTATIVE: Lawrence RoedI, Site Representative,		
ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, photo log, sketches) SITE REPRESENTATIVE: Lawrence RoedI, Site Representative,	COMMENTE	
SITE REPRESENTATIVE: Lawrence RoedI, Site Representative,		
SITE REPRESENTATIVE: Lawrence RoedI, Site Representative,		
SITE REPRESENTATIVE: Lawrence RoedI, Site Representative,	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
SITE REPRESENTATIVE: Lawrence RoedI, Site Representative,		
SITE REPRESENTATIVE: Lawrence RoedI, Site Representative,		
SITE REPRESENTATIVE: Lawrence RoedI, Site Representative,		
	SITE REPRESENTATIVE: Lawrence Roedi	Site Representative
		, ette Roprocontativo,

02 (CM)Steffan Construction forms/Buffalo/Daily Observation Report.doc

Pg. 2 of 2

Nauvence 7 Roed

W. Welling - NYSDEC M. Steffan - E & E Buffalo T. Heins - E&E Buffalo

xc:

Report No. 009

Photo Log: Pg. 1 of 2 Date: 1/24/12



Figure 1: View of well development at MPI-&I-R (Looking S)



Figure 2: View of development water from EE-3 (Looking down)

Report No. 009

Photo Log: Pg. 2 of 2

Date: 1/24/12



Figure 3: View of development of well EE-3 (Looking S, PM)

Wind       Date:       May 2,2012         NYSDEC       Temperature: (F)       50 (am)       68 (pm)         Division of Environmental Remediation       Wind Direction:       Moule (am)       Moule (pm)         NYSDEC Site No.       Weather:       (am)       50mm (am)       Moule (pm)         Monitoring Well Network Improvements       Weather:       (am)       50mm (am)       Moule (pm)
Division of Environmental Remediation       Wind Direction:       Move (am)       Move (pm)         NYSDEC Site No.       Weather:       (am)       Sumry /
NYSDEC Site No. Weather: (am) 50000 /
Monitoring Well Network Improvements
(pm) SUNNY 1
Arrive at site 07:12
Leave site:
HEALTH & SAFETY:
Are there any changes to the Health & Safety Plan? Yes () No ( <li>(If yes, list the deviation under items for concern)</li>
Are monitoring results at acceptable levels? Soils Yes ( ) n/a (x) No( )
Waters Yes ( ) n/a (x) No( ) Air Yes( ) n/a (∠) No( )
If No, provide comments     OTHER ITEMS:
Site Sketch Attached: Yes ( ) No ( 🖌 )
Photos Taken: Yes ( 🗶 ) No ( )
DESCRIPTION OF DAILY WORK PERFORMED:
Larry Roedle EEEPL On site waiting For GES and Qis to APRILLE
Larry Roedle EEEPL On site, making For GES and Qis to Appinde two Rolloff dumpstons were on site, At 8:30 Nicole (GES) (teld ?
tailgate Salctypection meeting with ais and EEEPC. the Scope of ant ins
to Hand clear All Locations that monitor wells were to be installed
to a Depth of 8 Feet. Chis Was for Utility clearance), MPIBSR was
chose Hand dug to a depth of 5'9", MP I 951 was Hand dug to a depth
1.5" Qis well complete the depth on this on wednesday MAY 3, Also MPI-13BR
was only Survey 5". Quis placed all soil who AC+D Rolloff.
SAMPLING (Soil/Water/Air):     E & E Sample     Description:       Contractor Sample ID:     ID:
Construction forms/Buffalo/Daily Observation Report.doc

• • • •

.

ł

: †

•

DAILY OBSERVATION REPORT Pa. 2 of 2 Report No. <u>010</u> Date May 2, 2012 CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE: Compress, JACK Hammer, Support Truck - Rolloff. Qis Ron, Jason, Brian, Report No. CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE: GES bicole 1 – Active Equipment VISITORS TO SITE: • · · · NONR . **PROJECT SCHEDULE ISSUES:** NONR **PROJECT BUDGET ISSUES:** would **ITEMS OF CONCERN:** May be damage, Qis is Dring q. ize the free damage. Droverta/ on Small 00 COMMENTS: None ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, photo log, sketches) bone Lawrence Roed , Site Representative, EEEPC SITE REPRESENTATIVE: Name: (signature)

Report No. 010

Photo Log: Pg. 1 of 4 Date: 5/02/12



Figure 1: View of hand clearing borehole MPI-8S-R (Looking S, PM)



Figure 2: View of hand clearing borehole MPI-8S-R (Looking S, PM)

Report No. 010

Photo Log: Pg. 2 of 4

Date: 5/02/12



Figure 3: View of depth of borehole MPI-8S-R (Looking S, PM)



Figure 4: View of borehole MPI-8S-R (Looking down the hole, PM)

Report No. 010

Photo Log: Pg. 3 of 4

Date: 5/02/12



Figure 5: View of saw cutting MPI-9S-R (Looking ESE, PM)



Figure 6: View of saw cutting MPI-9S-R (Looking ESE, PM)

Report No. 010

Photo Log: Pg. 4 of 4

Date: 5/02/12



Figure 7: View of saw cutting MPI-13B-R (Looking NE, PM)



Figure 8: View of jack hammer for hand dig to street at MPI-13B-R (Looking E, PM)

Report No.	094_1(		E & E Project File	e:	Date: May 3,2012
NYSDEC	• •	,		Temperature: (F)	ر (am) <u>۶۶ (</u> pm)
Division of Environmental Remediatio			1	Wind Direction:	Mare (am) the (pm)
NYSDEC S	Site No.			Weather:	(am) 9000 ( 1
Monitoring Well Network Improvemen		provements		i toution,	(pm) 50224 1
·				Arrive at site	
					16:35
HEALTH & S	SAFETY:			· · ·	
	y changes to the Hea e deviation under ite		?	Yes ()	No Ká
Are monitorir	ng results at accepta	ble levels?	Soils Waters Air	Yes ( ) n/a (<) N Yes ( ) n/a (<) N Yes( ) n/a (<) N	o() o()
OTHER ITEN	<u> MS:</u>			• <i>IT INO, J</i>	provide comments
Site Sketch A	Attached:			Yes ( ) No	( 🗸 )
Photos Take	n:			Yes (🔏 ) No	( )
DESCRIPTION OF DAILY WORK PERFORMED:					
Lat not with Nicole (005) Q:5 Driller, Held Safety meeting at 8:15 Q:5					
Straten to Hand dig for a depth of 5'-8' at mp I-131312. For Utility clasance.					
Hand cherry to a depth of 6'5" after & completed Badfield they moved to					
ES I 5, they Saw out the As chilt out began to Hind drig at reporting 3"					
9 Dipe Was incounter. the Town Supervisor matt was called, and they said they					
Non't Know what line; time the gas company was also call by the Town. the Bore Hole					
Location was more approverty 2' toward the center of paris ave					
		v	· · · / /		
· · · · · · · · · · · · · · · · · · ·					
	<b>G (Soil/Water/Air):</b> Sample ID:		E & E Sample ID:	<b>9</b> :	Description:
		-			· · · · · · · · · · · · · · · · · · ·
<u> </u>	·····		<u> </u>	-	
		. ·		-	
		_		_	<u></u>

4

Construction forms/Buffalo/Daily Observation Report.doc

DAILY OBSERVATION REPORT Pg. 2 of 2 Report No. Oll Date MAY 3, 2012 CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE: Drill King Conpressor, Jack Hammer support Track Roll offs- Que Ron Jeson, Brian tcole 1 - Active Equipment VISITORS TO SITE: DAVE NYSDEC. **PROJECT SCHEDULE ISSUES:** None **PROJECT BUDGET ISSUES:** None . **ITEMS OF CONCERN:** NOR COMMENTS: Woine ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, photo log, sketches) Lawsonce Roed SITE REPRESENTATIVE: , Site Representative, EEEPC Name: (signature)

Report No.

Photo Log: Pg. 1 of 4

Date: 5/03/12



Figure 1: View of borehole MPI-13B-R (Looking E, AM)



Figure 2: View of hand clearing at MPI-9S-R (Looking S, AM)

011

Photo Log: Pg. 2 of 4

Report No.

Date: 5/03/12



Figure 3: View of hand-cleared borehole MPI-9S-R to 6.5 feet, hitting cobble rock (Looking S, AM)



Figure 4: View of sawcutting at ESI-5-R (Looking WSW, PM)

Photo Log: Pg. 3 of 4

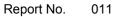


Figure 5: View of hand clearing ESI-5-R to a depth of 5-8 feet (Looking W, PM)



Figure 6: View of slag that was pulled out of borehole ESI-5-R (Looking down, PM)

Photo Log: Pg. 4 of 4



Date: 5/03/12



Figure 7: View of pipe in first borehole dug at ESI-5-R (Looking down, PM)



Figure 8: View of second finished, hand-cleared borehole at ESI-5-R (Looking down, PM)

Report No. 001 12	E & E Project	File:	Date: MAY 4, 2012
NYSDEC		Temperature: (F)	<u>62 (</u> am) <u>73 (</u> pm)
Division of Environmental Remediation NYSDEC Site No. Monitoring Well Network Improvements	on	Wind Direction: Weather:	(am) Cloudy 1 (pm) Source 1
		Arrive at site	7:45
• •		Leave site:	16:20
HEALTH & SAFETY:			
Are there any changes to the Health & Safety Pl (If yes, list the deviation under items for concern		Yes ( )	No 🗶
Are monitoring results at acceptable levels?	Soils Waters Air	Yes () n/a 休) No Yes () n/a (火) No Yes() n/a (火) No ∙ If No, p	$\mathbf{p}(\mathbf{x})$
OTHER ITEMS:			
Site Sketch Attached:		Yes ( ) No (	( 5/)
Photos Taken:		Yes (X) No (	( )
DESCRIPTION OF DAILY WORK PERFORME	D:		

La mit with Micile Cois Held Schuty meeting with Qis Scope of wal today will pull or
Grant all montain well for decomposition. Qis Granted old Monda wells in place brause the
could not Pull them out all cutob Box were Removed and Ashyphalt was placed in
He Road to patch Hole, decomprisioned monitoring hell were MPISS MPIISE ESIS
Qis moved over to mp 7 85R and Stanted to Drill down to 18.5 feet, Qis set
the por momitor well, But as they fulled up on the acges the months well Ruesed
~ 3.5 feet . This month will be the dulled on 5/1/12

DAILY OBSERVATION REPORT Pg. 2 of 2 Report No. 12 Date CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE: Trac Roy Dulling Rog, Support Touch, Durysta Rolloff), Qis Ron, JASON Brian, GES Mile 1 - Active Equipment **VISITORS TO SITE:** Non **PROJECT SCHEDULE ISSUES:** None **PROJECT BUDGET ISSUES:** None **ITEMS OF CONCERN:** NORL COMMENTS: None ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, photo log, sketches) . Lawrence Roed C SITE REPRESENTATIVE: , Site Representative, EEEPC Name: (signature)

Photo Log: Pg. 1 of 6

Report No. 012



Figure 1: View of grouted well MPI-8S (Looking S, AM)



Figure 2: View of removal of manway at MPI-8S (Looking SW, AM)

Photo Log: Pg. 2 of 6

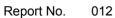




Figure 3: View of decommissioning of MPI-8S (Looking S, AM)



Figure 4: View of removal of MPI-13B manway by slam bar around the cast iron ring (Looking SSE, AM)

012

Report No.

Photo Log: Pg. 3 of 6



Figure 5: View of set up for tremie grouting MPI-13B (Looking SW, AM)



Figure 6: View of tremie grouting at ESI-5 (Looking W, PM)

Photo Log: Pg. 4 of 6

Report No. 012



Figure 7: View of removal of cub box at ESI-5 (Looking down, PM)



Figure 8: View of drill rig set up at MPI-8S to install new well (Looking W, PM)

Photo Log: Pg. 5 of 6

Report No. 012

Date: 5/04/12



Figure 9: View of drilling at MPI-8S (Looking W, PM)



Figure 10: View of installation of well riser at MPI-8S (Looking W, PM)

Report No. 012

Photo Log: Pg. 6 of 6

Date: 5/04/12



Figure 11: View of patched ESI-5 after decommissioning of the well (Looking down, PM)



Figure 12: View of patched MPI-13B after decommissioning of the well (Looking W, PM)

•

Report No. 001 <u>13</u>	E & E Project Fi	ile:	Date: 7 May 2017
NYSDEC		Temperature: (F)	<u>57° (am) (02° (pr</u>
Division of Environmental Remediatio	n	Wind Direction:	(am)(pm
NYSDEC Site No.		Weather:	
Monitoring Well Network Improvements			(pm) /
		Arrive at site	0600
		Leave site:	1740
HEALTH & SAFETY:			
Are there any changes to the Health & Safety Pla (If yes, list the deviation under items for concern)	n?	Yes ()	No (6)
Are monitoring results at acceptable levels?	Soils Waters Air	Yes ( ) n/a (אס) No Yes ( ) n/a (אס) No Yes( ) n/a (אס) No	()
OTHER ITEMS:			ovide comments
Site Sketch Attached:		Yes() No(	$\mathcal{P}_{\mathcal{H}}$
Photos Taken:		Yes (🍾 ) No (	)
DESCRIPTION OF DAILY WORK PERFORMED			
Installieplacement wells A			
Decon augers Leoling	M11-00 12,	-	
Set Concrute Senface pad at		<u> </u>	
	WET-27-	<u>K</u>	
	· · · · · · · · · · · · · · · · · · ·		
			· · · · · · · · · · · · · · · · · · ·
SAMPLING (Soil/Water/Air): Contractor Sample ID:	E & E Sample ID:		Description:
AU	NA		NA

Construction forms/Buffalo/Daily Observation Report.doc

.

. . . . . . . .

Pg. 2 of 2

Report No.

13\_\_\_\_

Date 7 May 2012

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

Acker dilling Support fuck mini frack mounted duilling 1 - Active Equipment **VISITORS TO SITE:** 44 PROJECT SCHEDULE ISSUES: AN PROJECT BUDGET ISSUES: AN **ITEMS OF CONCERN:** AU COMMENTS: Pain making part install difficult, due to locations along Curb and resulting Surface unoff ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, photo log, sketches) SITE REPRESENTATIVE: \_ SARAH CLATG\_\_, Site Representative, EEEPC Name: (signature)

Report No.

Photo Log: Pg. 1 of 4



Figure 1: View of bentonite seal in MPI-8S-R (Looking WSW, AM)



Figure 2: View of well following placement of bentonite in MPI-8S-R (Looking S, AM)

Report No. 013

Figure 3: View of drilling at MPI-9S-R (Looking NE, AM)

52



Figure 4: View of grout at MPI-9S-R (Looking NE, AM)

#### Photo Log: Pg. 2 of 4

Report No. 013

Photo Log: Pg. 3 of 4



Figure 5: View of drill rig before decon (Looking E, PM)



Figure 6: View of decon pad (Looking W, PM)

013

Photo Log: Pg. 4 of 4

Report No.



Figure 7: View of auger decon (Looking E, PM)



Figure 8: View of drilling at ESI-5-R (Looking SSW, PM)

#### DA

DAILY OBSERVATION REPORT	· .				0
Report No. 0014	E & E Project F	-ile:	Date:	8 Mar	2012
NYSDEC Division of Environmental Remediat NYSDEC Site No. Monitoring Well Network Improvements		Temperature: (F) Wind Direction: Weather:	(am) R	(am) —	(pm)
•		Arrive at site Leave site:		00	
HEALTH & SAFETY: Are there any changes to the Health & Safety (If yes, list the deviation under items for conce	Plan? rn)	Yes ( )	No	<del>() -</del> )	н. 1977 - С.
Are monitoring results at acceptable levels?		Yes ( ) n/a (AN Yes ( ) n/a (A N Yes( ) n/a (A N • If No,	o()		
OTHER ITEMS: Site Sketch Attached: Photos Taken:		Yes() No Yes(❤) No	-		
DESCRIPTION OF DAILY WORK PERFORM	IED:				

nstall final re	da comon	y wel MPI	-13B-R	
North Hur of	P			•
				;
				· · ·
				• 
SAMPLING (Soil/Water/Air): Contractor Sample ID:	*	E & E Sample ID:		Description:
NA	٥	NA	<i>,</i> .	44
	_			
	-			
	-			
	-			
· · · · · · · · · · · · · · · · · · ·				

Construction forms/Buffalo/Daily Observation Report.doc

Pg. 1 of 2

DAILY OBSERVATION REPORT	Pg. 2 of 2
Report No. <u>II-I</u>	Date & May 2012
CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:	
Acker duillRig	02
Support tuck	
1 – Active Equipment VISITORS TO SITE:	
A/	
PROJECT SCHEDULE ISSUES:	
AN	
PROJECT BUDGET ISSUES:	
<u>4</u> N	
ITEMS OF CONCERN:	
NA	
COMMENTS:	
Work Complete	
ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, pho	to log, sketches)
	/
SITE REPRESENTATIVE: Saw Craig, Site Represent	ative FEEDC
Name: (signature)	MIIIG, EEEF Q

**،** 

.

Report No.

Photo Log: Pg. 1 of 5



Figure 1: View of mobilizing to MPI-13B-R (Looking W, AM)



Figure 2: View of drilling at MPI-13B-R (Looking SW, AM)

Report No.

Photo Log: Pg. 2 of 5



Figure 3: View of drilling at MPI-13B-R (Looking SW, AM)



Figure 4: View of discharging decon water through filter into treatment system sump (Looking S, PM)

Report No. 014

Photo Log: Pg. 3 of 5



Figure 5: View of MPI-13B-R before construction of well pad (Looking SW, PM)



Figure 6: View of MPI-13B-R after construction of well pad (Looking SW, PM)

014

Photo Log: Pg. 4 of 5

Report No.



Figure 7: View of ESI-5-R after construction of well pad (Looking down, PM)



Figure 8: View of MPI-9S-R after construction of well pad (Looking E, PM)

Report No.

Photo Log: Pg. 5 of 5



Figure 9: View of MPI-8S-R after construction of well pad (Looking N, PM)

Report No. 001 <u>15</u>	E & E Project Fi	le:	Date: 5 24/12
NYSDEC	,	Temperature: (F)	<u></u>
Division of Environmental Remediati	on	Wind Direction:	(am)(pm)
NYSDEC Site No. Monitoring Well Network Improvements			(am) Sunny / Sunny
		Arrive at site	
		Leave site:	
HEALTH & SAFETY:		- -	
Are there any changes to the Health & Safety P (If yes, list the deviation under items for concerr		Yes ()	No XX
Are monitoring results at acceptable levels?	Soils Waters Air	Yes ( ) n/a (X) No Yes ( ) n/a (X) No Yes( ) n/a (X) No • <i>If No, p</i>	( )
OTHER ITEMS:			
Site Sketch Attached:		Yes() No(	X)
Photos Taken:		Yes ( 🗙 ) 🛛 No (	)
Description of Daily Work Performe Developed 4 monitoring wel and MPI-13B-R.by pure		R, MPI-BS- III Volumes	R, MPI-95-R, of groundwater.
			· · · · · · · · · · · · · · · · · · ·
			· · · ·
			· · · · · · · · · · · · · · · · · · ·
· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·
SAMPLING (Soil/Water/Air): NA Contractor Sample ID:	E & E Sample ID:	·	Description:
		-	. ·
· · · · · · · · · · · · · · · · · · ·		-	

Pg. 1 of 2

# DAILY OBSERVATION REPORT Pa. 2 of 2 Date 5 24 12 15 Report No. CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE: M. Fronckowigk-EEEPC Horiba, Solinst, Whale pump (see use under comments T. Palmer - GES J. Siniscalchi -GES W. TUCKER - CHar Creek Land Surveying GPS-based surveying equipment J. Shafer Clear Creek Land Surveying 1 – Active Equipment **VISITORS TO SITE:** None **PROJECT SCHEDULE ISSUES:** None **PROJECT BUDGET ISSUES:** None **ITEMS OF CONCERN:** Heat stress COMMENTS: Horiba-measure pH, turbidity, and conductivity of groundwater Solinst-measure depth towater and total well depth Whale pump-purge groundwater ATTACHMENT(S) TO THIS REPORT: (field orders, proposed change orders, photo.log, sketches) Photo log. Megan Fronckowiak, Site Representative, EEEPC SITE REPRESENTATIVE: LOUCEOTHAL Name: (signature)

Report No. 015

Photo Log: Pg. 1 of 5



Figure 1: View of development of well ESI-5R (Looking SE)



Figure 2: View of drummed development water (Looking S)

Report No. 015

Photo Log: Pg. 2 of 5 Date: 5/24/12



Figure 3: View of development of well MPI-8S-R (Looking S)



Figure 4: View of development of well MPI-9S-R (Looking S)

Report No. 015

Photo Log: Pg. 3 of 5



Figure 5: View of development of well MPI-8S-R (Looking N)



Figure 6: View sand bag to deflect rainstorm runoff from filling well vault at MPI-9S-R (Looking N)

Report No. 015

Photo Log: Pg. 4 of 5



Figure 7: View of development of well MPI-9S-R, well bailed continuously with cups during development (Looking N)



Figure 8: View of pooling of water behind sand bag at MPI-9S-R (Looking NW)

Report No. 015

Photo Log: Pg. 5 of 5 Date: 5/24/12



Figure 9: View of development of well MPI-13B-R (Looking NW)

#### Attachment B

#### **EEEPC Well Decommissioning Logs**

B1 ESI-5
B2 MPI-2S
B3 MPI-4D
B4 MPI-7I
B5 MPI-8S
B6 MPI-13B

FIGURE 3	
VELL DECOMMISSIONING RECORD	
	Well I.D.: ESIS
ite Name: MFC'S	Driller: Joson Toy dows ki
ite Location: Engl Aurourg	Inspector: L. Roed L
Drilling Co.: Ats	Date: 5/8/11
DECOMMISSIONING DATA	WELL SCHEMATIC*
(Fill in all that apply)	Depth
	(feet)
OVERDRILLING	
nterval Drilled	<b>—</b>
Drilling Method(s)	
Porehole Dia (in.)	
Famoorary @asimp=[asta]]ed?"(*//))*********************************	Automatical Internet of Contraction Contraction (Contraction) Automatical Automatical Contraction (Contraction) Contractio
Depth temporary casing instance	
Casing type/dia. (in.)	
Method of installing	
CASINGPULLING	
Method employed w/A	
Casing reineved (iecc)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
THOSE AND FILM	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	
For each batch record:	
Quantity of water used (gal.) /0	
Qualitity of comone user ()	
Quantity of bentonite used (lbs.)	
Volume of grout prepared (gal.)	
Volume of grout used (gal.)	
Volume of Broad and Com	
COMMENTS:	* Sketch in all relevant decommissioning data, including:
	interval overdrilled, interval grouted, casing left in hole,
	well stickup, etc.

.

Department Representative

QiS Drilling Contractor

adia

FIGURE 3	
WELL DECOMMISSIONING RECORD	
	Well I.D.: MPI-25
Site Name: Mr C's Day cleaner	Driller: Kon Brown
Site Location: East Aurore	
Drilling Co.: Q Elstity Jugachion Services	Inspector: L. Riun ELE-pc, B. Cliesel a, Elepe
	Date: 12/20/14
	WELL SCHEMATIC*
DECOMMISSIONING DATA (Fill in all that apply)	Depth
	(feet)
OVERDRILLING	0
Interval Drilled	- Const pata
Drilling Method(s)	Course factor
Rorehole Dia. (11.)	
Temporary Casing Installed? (y/n)	2 Auger al al
	Tremine grouted
Casing type/dia. (in.) Method of installing	From D.S to SFt
	Tremine grouted From D.5 to SFt (Swinch deg)
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	6 Tremie
Number of perforations/foot <u><math>\mu</math>la</u>	6 Tremie grouted 5410 Ft 3
Size of perforations	- 5-10 M
Interval perforated	(within Za
	8 - Custher ? . Dra cossine : lefter plane :
GROUTING Interval grouted (FBLS)	
Interval grouted (FBLS) # of batches prepared (	
For each batch record:	
Ouantity of water used (gal.) 70	
Ouantity of cement used (lbs.)	
Cement type portland	
Quantity of bentonite used (lbs.)	
Quantity of calcium chloride used (lbs.) <u>MA</u> Volume of grout prepared (gal.) 12	
Volume of grout prepared (gal.)12Volume of grout used (gal.)6	
COMMENTS:	* Sketch in all relevant decommissioning data, including:
	interval overdrilled, interval grouted, casing left in hole,
	well stickup, etc.
	L. POUDL - EEEPC
CLES Drilling Contractor	Department Representative

FIGURE 3	
WELL DECOMMISSIONING RECORD	
	-Well I.D .: MPI-4D
Site Name: M.C's Dry Cleaner, M	Driller Pra Brown
Site Location: East Aurora NY	Inspector: L. Roed LEEP C Berias
Drilling Co.: GES	Date: 12/19/12
DECOMMISSIONING DATA	WELL SCHEMATIC* Depth
(Fill in all that apply)	(feet)
OVERDRILLING	D
Interval Drilled	- TEPSOIL 0-0.5F+
Drilling Method(s)	
Borehole Dis. (in.)	
Temporary Casing Installed? (y/n)	2 Tremie,
Depth temporary casing installed $M/A$ Casing type/dia. (in.) $Z^{*} \rho V C$	grouted
Method of installing	- From D.5-12
	- 2" Dia CASIA4
CASING PULLING	V The Top b'of
Internod employed	DIL CASMY
	- Las BrokenDFF
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations $\mathcal{MA}$	
Interval perforated	
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	
For each batch record:	
Quantity of water used (gal.) / D Quantity of cement used (lbs.) / Q.	
Quantity of cement used (lbs.) 94 Cement type	
Quantity of bentonite used (lbs.)	
Quantity of calcium chloride used (los.)	
Volume of grout prepared (gal.)	
Volume of grout used (gal.) 3	
	* Sketch in all relevant decommissioning data, includi
COMMENTS:	interval overdrilled, interval grouted, casing left in ho
	well stickup, etc.
A 100	1 Prent 1575150C
Drilling Contractor	Department Representative

FIGURE 3	
WELL DECOMMISSIONING RECORD	
	Well I.D.: MPI-71
Site Name: MVC'S	
Site Location: MPI-71	Driller: Qis
	Inspector: L. Roed
Drilling Co.: QIS	Date: 12/14/11
DECOMMISSIONING DATA	WELL SCHEMATIC*
(Fill in all that apply)	Depth
	(feet)
OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia. (in.)	5.0 -
Temporary Casing Installed? (V/n)	<b>1</b> 10 10 10 10 10 10 10 10 10 10 10 10 10
Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING Method employed	Jgrowted
Casing retrieved (feet) $\frac{5}{W U / 2^{''}}$	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Number of perforations/foot	
Size of perforations	
Interval perforated	
	39.0
GROUTING	
Interval grouted (FBLS)	
# of batches prepared	
For each batch record:	
Quantity of water used (gal.) [2.5] Quantity of cement used (lbs.)	
Quality of comons that (	
Cement type     portland       Quantity of bentonite used (lbs.)     7	
Quantity of calcium chloride used (lbs.)	
Volume of grout prepared (gal.)	, n , i , i , i , i , i , i , i , i , i
Volume of grout used (gal.)	<u> </u>
	_
COMMENTS: wells was granted from 5' to 39'	* Sketch in all relevant decommissioning data, including:
	interval overdrilled, interval grouted, casing left in hole,
	well stickup, etc.

٠

QIS Drilling Contractor

dia

Department Representative

FIGURE 3 WELL DECOMMISSIONING RECORD	
Site Name: Mr C'	Well I.D.: mp 7-85
Site Location: Erst Auroura	Driller: pon Brown
Drilling Co.: QiS	Inspector: Laloed
	- Date: 5/4/2
	<u>Bale. <u>3</u>/4/1×</u>
DECOMMISSIONING DATA (Fill in all that apply)	WELL SCHEMATIC* Depth (feet)
OVERDRILLING	
Interval Drilled	
Drilling Method(s)	
Borehole Dia (in)	Landon of Shine Shine Contraction (Shine Contraction) (Shine Contr
Temporary Casing Installed? (y/n) Depth temporary casing installed	
Casing type/dia. (in.)	
Method of installing	
CASING PULLING Method employed	
Method employed $\sim l_{3}$ Casing retrieved (feet) $\checkmark$	
Casing type/dia_(in)	
CASING PERFORATING	
Equipment used Number of perforations/foot	
Size of perforations	
Interval perforated	
• • • • • • • • • • • • • • • • • • •	
GROUTING	· · · · · · · · · · · · · · · · · · ·
Interval grouted (FBLS) 6.5-7.5	
# of batches prepared	
Quantity of water used (gal.)	
Quantity of cement used (lbs.) 50 lbs	
Cement type portfund	
Quantity of bentonite used (lbs.)	
Quantity of calcium chloride used (lbs.) $\nu/e$ Volume of grout prepared (gal.) $\nu g_{gal}$	
Volume of grout used (gal.) $\sim 1/\sqrt{g_{\mu}}$	
COMMENTS:	* Sketch in all relevant decommissioning data, including:
	interval overdrilled, interval grouted, casing left in hole,
•	well stickup, etc.
	<i>N</i>

Department Representative

1.04.3

7

WELL DECOMMISSIONING RECORD	
Site Name: Mrc <sup>4</sup> 7	- Well I.D.: MPF 133
Site Location: East Aurour a	Driller: Jason Tojdows Ko
Drilling Co.: Qe5	Inspector: Choule
	Date: 5/14/12
DECOMMISSIONING DATA	WELL SCHEMATIC*
(Fill in all that apply)	Depth
NUT DI IL INC	(feet)
<u>OVERDRILLING</u>	
nterval Drilled	
Drilling Method(s) Borehole Dia: (in:)	ne la barra ar fair a tair an t
Cemporary Casing Installed? (y/n)	
Depth temporary casing installed	
Casing type/dia. (in.)	
Aethod of installing	
CASING PULLING	
Method employed	
Casing retrieved (feet)	
Casing type/dia. (in)	
CASING PERFORATING	
Equipment used	
Jumber of perforations/foot	
lize of perforations	[ ]
nterval perforated	
<u>FROUTING</u>	
nterval grouted (FBLS)	
of batches prepared 2	
or each batch record:	
Quantity of water used (gal.)10Quantity of cement used (lbs.)100	
ement type	
Quantity of bentonite used (lbs.)	······································
Quantity of calcium chloride used (lbs.) $\frac{\nu}{\nu/\nu}$	
Follome of grout prepared (gal.) $\sim 20$ 9#L	
Volume of grout used (gal.) $2 \circ 4\pi c$	
OMMENTS:	* Classic in all asland of the state of the
	* Sketch in all relevant decommissioning data, including:
	interval overdrilled, interval grouted, casing left in hole,
· · · · · · · · · · · · · · · · · · ·	well stickup, etc.
	<u></u>

÷

isterated.

Department Representative

Attachment C

Submittal Log

# **RECORD OF SUBMITTALS, SHOP DRAWINGS AND SUBMISSIONS**

ACTION TAKEN

**Remedial Call-out Contractor** 

<b>Client Contract No.:</b>	NYSDEC Remedial Callout Contractor - GES
<b>NYSDEC Site No.:</b>	9-15-157
<b>EEEPC Project Number:</b>	002700.DC13.03
Project Name:	Mr. C's Dry Cleaners - Well Network Improvements

Project Manager: <u>M. Steffan</u> Oversight Rep.: L. Roedl, B. Chiseara, S. Craig, M. Horanburg Contractor: Groundwater & Environmental Services

ACTION TAKEN

**Legend:** APP = Approved

**APNO = Approved as Noted** 

**RR** = **Revise** and **Resubmit** 

NA = Not Approved

(	THER = "S	ee Commen	nts''			"See legend"			"See legend"										
SPEC. SECTION	J Submi	ttal	Date Rec'd	<b>Description of</b> Submittal or Shop Drawing, Equipment, or Material	No. Copies Rec'd	APP	APNO	RR	NA	OTHER	Date Ret'd	APP	APNO	RR	NA	OTHER	No. Copies Ret'd	Rev'd BY	Comments/Remarks
SECTIO	π		Ktt u		Ktt u		-		_	_	Ktt u				_		<b>N</b> ti u	DI	
				Pre-Construction Project Submittals															
1.				General Project Requirements			- 1												
	2		11/22/11	Work Plan	1	Χ												R. Moxley	
	1		11/17/11	HASP	1		X											R. Moxley	
				Permits															
	4		11/29/11	List of Subcontractors to be used with the project	1					x									Will Welling approved the selection of QIS on 11/29/11.
				Schedule	1	Χ												R. Moxley	
				<b>Project Shop Drawings</b>			- 1												
B.				Material and Products to Be Used															
	3		11/28/11	Screen, schedule 40 PVC 2" ID #10 slot	1			X			12/06/11	X						R. Moxley	
	3		11/28/11	Well Riser Pipe, schedule 40 PVC	1			X			12/06/11	X						R. Moxley	
	3		11/28/11	Pipe caps and joints, 2" ID PVC	1			Χ			12/06/11		X					R. Moxley	
	3		11/28/11	Bentonite	1			Χ			12/06/11	Χ						R. Moxley	
	3		11/28/11	Sand	1			Χ			12/06/11		X					R. Moxley	
	3		11/28/11	Cement	1			Χ			12/06/11	Χ						R. Moxley	
	3		11/28/11	Concrete for Well Pad	1			Χ			12/14/11	Χ						R. Moxley	
	3		11/28/11	J-plugs	1			Χ			12/06/11	Χ						R. Moxley	
	5		12/14/11	Locks	1			Χ			12/15/11	Χ						R. Moxley	
	5		12/14/11	Protective steel casing	1	Χ												R. Moxley	
	5		12/14/11	Well Cover	1	Χ	ш		_						_			R. Moxley	
							$\square$		_				$\square$		_				
				Final Report - Post-Construction Project			- 1												
C.				Submittals			- 1												
																			1
	6		06/20/12	Final Report	1				x		07/03/12	X						R. Moxley	No comments on draft report initially submitted.
			06/26/12	Contractor Daily Reports	1	Χ												R. Moxley	
	7		06/25/12	Photographs	1	Χ												R. Moxley	
	6		06/20/12	Well survey	1	Χ												R. Moxley	
	NA		NA	Any Product Warrantys or Guarantees	0				Χ						Χ				None submitted.
	7		06/25/12	Analytical Results	1	Χ												R. Moxley	
	7		06/25/12	Waste Disposal Receipts	1	Χ												R. Moxley	
	6		06/20/12	New Well Logs	1	Χ												R. Moxley	

STARTED:	November 30, 2011
By:	RJM
UPDATED:	July 3, 2012
By:	RJM

# Attachment D

# **Contractor's Final Report and Submittals**

- D1 GES Well Upgrade and Installation Report
- D2 Photo Documentation
- D3 GES Daily Labor Reports



495 Aero Drive, Suite 3 • Cheektowaga, New York 14225 • TEL (800) 287-7857 • Fax (716) 706-0078

July 2, 2012

Mr. Will Welling NYSDEC – Division of Environmental Remediation 625 Broadway, 12th Floor Albany, New York 12233-7017

Re: Well Upgrade and Installation Report Mr. C's Dry Cleaners Site East Aurora, New York NYSDEC Site Number 9-15-157

Dear Mr. Welling:

Groundwater & Environmental Services, Inc. (GES) has prepared the enclosed *Well Upgrade* and Installation Report for the New York State Department of Environmental Conservation (NYSDEC) Site Number 9-15-157, also known as Mr. C's Dry Cleaners (Mr. C's), located in East Aurora, New York. The work was completed in accordance with Drilling Work Plan, submitted to NYSDEC on December 6, 2011.

If you have any questions or comments, please do not hesitate to contact GES at your convenience.

Sincerely,

**GROUNDWATER & ENVIRONMENTAL SERVICES, INC.** 

Nicole A. Jarzyniecki Case Manager

Steven P. Leitten Senior Project Manager

Enclosure



# WELL UPGRADE AND INSTALLATION REPORT

# MR. C'S DRY CLEANERS SITE EAST AURORA, NEW YORK NYSDEC SITE NUMBER 9-15-157

# Prepared for

# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF ENVIRONMENTAL REMEDIATION 625 BROADWAY, 12TH FLOOR ALBANY, NEW YORK 12233-7017

Report Date

July 2, 2012

Prepared By:

Nicole A. Jarzyniecki Case Manager

Reviewed B.

Steven P. Leitten Senior Project Manager

GROUNDWATER & ENVIRONMENTAL SERVICES, INC. 495 Aero Drive Suite 3 Cheektowaga, NY 14225 1-800-287-7857



# **TABLE OF CONTENTS**

1.0	INTRODUCTION1
2.0	MONITORING WELL ABANDONMENT1
3.0	NEW AND REPLACEMENT MONITORING WELL INSTALLATION
4.0	WELL DEVELOPMENT
5.0	WASTE DISPOSAL

# FIGURES

Figure 1 Site Map

# TABLES

Table 1Soil Analytical Data - Full List 8260

# APPENDICES

Appendix A	Well Decommissioning Logs
Appendix B	Well Construction Logs
Appendix C	Soil Analytical Report
Appendix D	Well Development Records
Appendix E	Disposal Documentation
Appendix F	Survey Data



# 1.0 Introduction

This report has been prepared to document the field activities regarding well upgrades, well decommissioning and new well installations associated with the New York State Department of Environmental Conservation (NYSDEC) Site Number 9-15-157, also known as Mr. C's Dry Cleaners (Mr. C's), located in East Aurora, New York. The work was completed in accordance with the *Drilling Work Plan*, submitted to NYSDEC by Groundwater and Environmental Services, Inc. (GES) on December 6, 2011. The *Drilling Work Plan* was completed in accordance with the *Scope of Work for Mr. C's Dry Cleaners Site - Monitoring Well Network Improvements* prepared by Ecology and Environment Engineering, P.C. (EEEPC) in October 2011, and in response to the NYSDEC Call Out dated November 4, 2011. A site map provided by EEEPC illustrating the site layout, including the well locations, has been included as **Figure 1**.

From December 12 through December 20, 2011 and from May 2, 2012 to May 8, 2012 Quality Inspection Services, Inc. (QIS), under the supervision of GES and the guidance of EEEPC, completed the following scope of work (SOW):

- Abandon monitoring wells ESI-5, MPI-2S, MPI-4D, MPI-7I, MPI-8S, and MPI-13B.
- Installed replacement monitoring wells ESI-2-R, ESI-5-R, MPI-2S-R, MPI-7I-R, MPI-8S-R, MPI-9S-R, MPI-13B-R and MPI-14B-R.
- Installed new monitoring wells EE-3 and EE-4

Details of the SOW completed are documented below. It should be noted monitoring wells ESI-5, MPI-8S and MPI-13B were abandoned and replaced, and MPI-9S was replaced in May 2012, as determined by EEEPC, due to the Town of East Aurora Department of Transportation (EADOT) requirements.

# 2.0 Monitoring Well Abandonment

On December 14 and 15, 2011, monitoring well MPI-7I was abandoned in place by tremie grouting the well from approximately 5 to 34 feet (ft) below ground surface (bgs). The top 5 ft of the PVC casing was removed by over-drilling. The remaining annular space was tremie grouted from approximately 0.5 to 5 ft bgs. The well pad was removed and the abandoned well was patched with cement from approximately 0.5 ft bgs to the ground surface.

On December 19, 2011 monitoring well MPI-4D was abandoned in place by tremie grouting from approximately 0.5 to 12 ft bgs. Approximately 6-inches (in) of the top of the PVC casing were broken off. Based on field observations, the monitoring well had been set within 6 in diameter steel casing. The steel casing was left in place. The abandoned well was finished at the surface with top soil from approximately 0.5 ft bgs to the ground surface.

On December 20, 2011, monitoring well MPI-2S was abandoned in place by tremie grouting the well from approximately 5 to 10 ft bgs. The top 5 ft of the PVC casing was removed by over-drilling. The remaining annular space was tremie grouted from approximately 1 to 5 ft bgs.



The well pad was removed and the abandoned well was patched with cement from approximately 1 ft bgs to the ground surface. Well Decommissioning Logs have been included in **Appendix A**, documenting the aforementioned well abandonment details.

On May 4, 2012, monitoring wells ESI-5, MPI-8S and MPI-13B were abandoned. ESI-5R was grouted in place by tremie grouting the well from approximately 0.5 to 14 ft bgs. The well manway was removed from the asphalt and the abandoned well was patched with asphalt from approximately 0.5 ft bgs to the ground surface. MPI-8S was grouted in place by tremie grouting the well from approximately 0.5 to 7.5 ft bgs. The well manway was removed from the asphalt and the abandoned well was patched with asphalt from approximately 0.5 ft bgs to the ground surface. MPI-13B was grouted in place by tremie grouting the well from approximately 0.5 to 32 ft bgs. The well manway was removed from the asphalt and the abandoned well was patched with asphalt from approximately 0.5 to 32 ft bgs. The well manway was removed from the asphalt and the abandoned well was patched with asphalt from approximately 0.5 ft bgs to the ground surface. The casing was not removed from ESI-5, MPI-8S or MPI-13B due to the potential of the asphalt road becoming degraded by over-drilling or pulling the casing. Well Decommissioning Logs have been included in **Appendix A**, documenting the aforementioned well abandonment details.

## 3.0 New and Replacement Monitoring Well Installation

Replacement monitoring wells ESI-2-R, MPI-2S-R, MPI-7I-R and MPI-14B-R were re-installed from December 14 through December 20, 2011. Each of the replacement monitoring wells were constructed using 2-inch (in) Schedule 40 polyvinyl chloride (PVC) well casing with 0.10 slot screens. ESI-2-R was set to a total depth of 19 ft bgs with a screened interval from 9 to 19 ft bgs. MPI-2S-R was set to a total depth of 18 ft bgs with a screened interval from 8 to 18 ft bgs. MPI-7I-R was set to a total depth of 38.9 ft bgs (offset from target depth of 39 ft bgs due to running sands while drilling/installing well) with a screened interval from 28.9 to 38.9 ft bgs. MPI-14B-R was set to a total depth of 30 ft bgs with a screened interval from 15 to 30 feet ft bgs.

Replacement monitoring wells ESI-5-R, MPI-8S-R, MPI-9S-R and MPI-13B-R were re-installed from May 7 through May 8, 2012. Each of the replacement monitoring wells were constructed using 2-in Schedule 40 polyvinyl chloride (PVC) well casing with 0.10 slot screens. ESI-5-R was set to a total depth of 15 ft bgs with a screened interval from 5 to 15 ft bgs. MPI-8S-R was set to a total depth of 18 ft bgs with a screened interval from 8 to 18 ft bgs. MPI-9S-R was set to a total depth of 18 ft bgs with a screened interval from 8 to 18 ft bgs. MPI-13B-R was set to a total depth of 18 ft bgs with a screened interval from 8 to 18 ft bgs. MPI-13B-R was set to a total depth of 31.5 ft bgs with a screened interval from 16.5 to 31.5 feet ft bgs.

A sand pack was placed from the bottom of each well boring to approximately 2 ft above the top of screen, followed by approximately 2 feet of bentonite, and tremmie grouted above the bentonite to approximately ½ to one ft bgs. Each well was finished with an approximately 2 x 2 ft concrete curb box and flush mount protective road box. Well construction details can be found on the subsurface logs in **Appendix B**. Additionally, due to no records of the former MPI-7I boring logs, soils were logged for MPI-7I-R during drilling. The soil log can also be found on the subsurface logs in **Appendix B**.



Newly installed monitoring wells EE-3 and EE-4 were installed on December 15 and 16, 2011. During drilling activities, soil samples were collected at each 2-ft interval to the total depth of the well boring. Soil samples were field screened using a photo ionization detector (PID) equipped with a 10.6 eV lamp and calibrated to 100 parts per million by volume (ppmv) isobutylene standard. All soil samples were placed on ice and sent to TestAmerica of Amherst, NY for analysis of Full List volatile organic compounds (VOCs) by Method 8260. Of the 18 samples collected from the EE-3 and EE-4 well borings, there were no exceedences of the NYSDEC CP-51 Soil Cleanup Objectives (SCOs). Each of the newly installed monitoring wells were constructed using 2-in Schedule 40 PVC well casing with 0.10 slot screens. EE-3 was set to a total depth of 28 ft bgs with a screened interval from 18 to 28 ft bgs. EE-4 was set to a total depth of 15 ft bgs with a screened interval from 5 to 15 ft bgs. A sand pack was placed from the bottom of each well boring to approximately 2-ft above the top of screen, followed by approximately 2-ft of bentonite, and tremmie grouted above the bentonite to approximately 1/2 to one ft bgs. Each well was finished with an approximately 2 x 2 ft concrete curb box and flush mount protective road box. The soil data is tabulated in Table 1. The soil analytical report is in Appendix C. Soil logs and well construction details can be found on the subsurface logs in Appendix B.

# 4.0 Well Development

On January 23 and 24, 2012, GES personnel developed the new and replacement monitoring wells (EE-3, EE-4 ESI-2-R, MPI-2S-R, MPI-7I-R and MPI-14B-R). On May 24, 2012, GES personnel developed replacement monitoring wells (ESI-5-R, MPI-8S-R, MPI-9S-R and MPI-13B-R). Turbidity, pH and conductivity were recorded, using a Horiba U52-2 Water Quality Meter (Horiba). The wells were gauged for total depth and depth-to-water (DTW) prior to beginning well development. The wells were pumped to develop, using a wale pump, and DTW was measured throughout the development. Each well was developed until a turbidity of 50 nephelometric turbidity units (NTUs) or less was observed, and pH and conductivity stabilized (measurements within 10% of each other for three consecutive measurements). Readings were collected approximately every 10 minutes or less until water cleared and approximately every 5 minutes to confirm stabilization of parameters. Once development by the above described parameters was complete, an additional 5 well volumes were removed. Following development of each well, development water was pumped into the sump of the onsite treatment system. For well development details, please see the well development records in **Appendix D**.

## 5.0 Waste Disposal

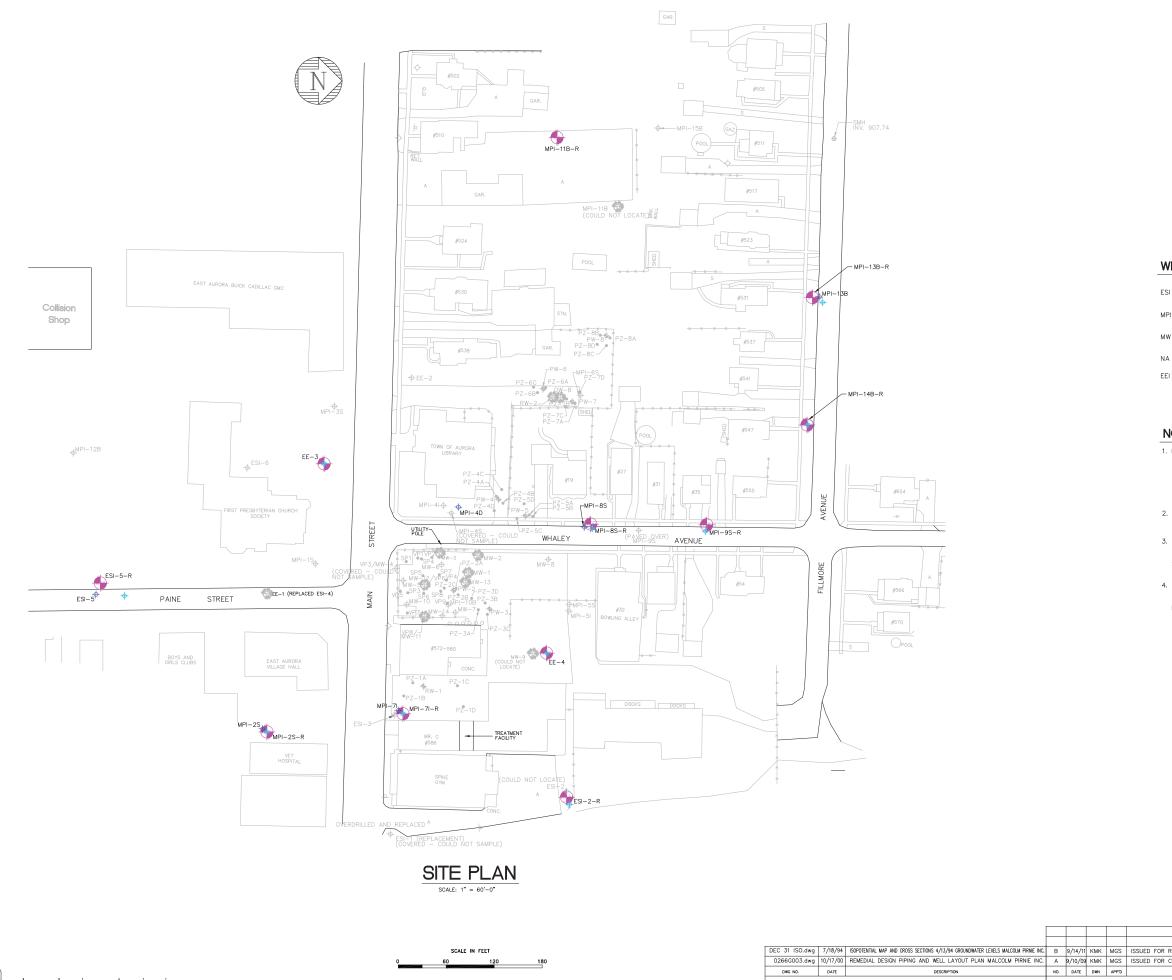
On January 23, 2012, 2.08 tons of construction debris, and on May 14, 2012, 0.02 tons of construction debris related to the well abandonments were removed from the site for disposal at the Chaffee, NY Waste Management (WM) Landfill. Additionally, 0.5 tons of soil was removed from the site on January 23, 2012 and 0.94 tons of soil was removed from the site on May 14, 2012, related to the well abandonment and well installation activities, also disposed at the Chaffee WM Landfill. For disposal documentation please refer to **Appendix E**.



### 6.0 Well Survey

On May 24 and May 31, 2012, the replacement (ESI-2-R, ESI-5-R, MPI-2S-R, MPI-7I-R, MPI-8S-R, MPI-9S-R, MPI-13B-R and MPI-14B-R) and newly installed monitoring wells (EE-3 and EE-4) were surveyed by Clear Creek Land Surveying, LLC (Clear Creek) of Springville, NY. Vertical control was located relative to North American Vertical Datum of 1988 (NAVD88) to a control accuracy of  $\pm 0.01$  foot. Horizontal control was located relative to State Plane Coordinate System (NYS State Plane West) to a control accuracy of  $\pm 0.05$  foot. For tabulated data of the survey points, please see **Appendix F**.

**FIGURES** 



LEGEND	
0	SANITARY SEWER MANHOLE
÷	MONITORING WELL
•	PUMPING WELL
•	PIEZOMETER
۲	ABANDONED WELL
•	PROPOSED NEW WELL
<del>\$</del>	WELL TO BE DECOMMISSIONED
	EXISTING STRUCTURES AND FEATURES
— <u>×</u> —×—	FENCE
PAINE STREET	MAJOR AREA STREETS
<b>⊕</b> ·	AS BUILT INSTALLED WELL LOCATION

#### WELL ABBREVIATIONS

EMPIRE SOILS WELL (ENVIRONMENTAL SCIENCE)	OW	OBSERVATION WELL
OBSERVATION WELL (MALCOLM-PIRNIE)	ΡW	PUMPING WELL (TYREE)
MONITORING WELL (MATRIX)	ΡZ	PIEZOMETER (TYREE)
DATA NOT AVAILABLE	RW	RECOVERY WELL (BY OTHERS)
(ECOLOGY & ENVIRONMENT)	1	(0.1.0.1.2.10)

#### NOTES:

ESI

MPI

мw

NA EEI

- 1. HORIZONTAL CONTROL IS BASED UPON THE NEW YORK STATE PLANE COORDINATE SYSTEM, WEST ZONE, 1983 ADJUSTMENT (NAD 83) AND WAS OBTAINED FROM A MAP PREPARED BY WENDEL DUCHSCHERER ARCHITECTS AND ENGINEERS PC (NYS SITE No. 9-15-157) NYSDEC CONTRACT No. D004180.
- 2. ELEVATIONS ARE BASED UPON NORTH GEODETIC VERTICAL DATUM, 1929 (NGVD 1929).
- 3. BENCHMARK IS LOCATED NEAR THE NORTHEAST CORNER OF MAIN STREET AND PAINE STREET, BEING A BRASS DISC SET IN THE TOP OF CONCRETE BASE - ELEVATION 916.64'
- 4. FOR WELLS ESI-1, ESI-2, ESI-3, ESI-6, MPI-1S, MPI-2S, MPI-3S, MPI-5S, MPI-11B, MPI-15B, AND EE-2, ACCESS AGREEMENTS SHOULD BE LOOKED INTO FOR FUTURE ACCESS TO THESE WELLS.

EVIEW		
LIENT	COMMENT	
DESCRI	PTION	

NO. DATE DWN APP'D

Figure 1

PROPOSED MONITORING WELL NETWORK IMPROVEMENTS MR.C'S DRY CLEANERS SITE LOCATION MAP EAST AURORA, NEW YORK

**TABLES** 



Table 1 Soil Analytical Data Full List 8260

#### Mr. C's Dry Cleaner Site East Aurora, New York NYSDEC Site Number 9-15-157

Soil Sample ID		EE3	EE3						
Date		12/16/2012	12/16/2012	12/16 2012	12/16/2012	12/16/2012	12/16/2012	12/16/2012	12/16/201
Depth (ft)	NYSDEC CP-51	0-2'	2-4'	4-5'	8-10'	10-12"	12-14'	14-16'	16-18'
PID result (ppmv)	SCOs	0.0	0.0	0,1	0.1	0,1	0.1	0.4	1.4
1,1,1-Trichloroethane#	680	ND	ND						
1,1,2,2-Tetrachloroethane	35,000	ND	ND						
1,1,2-Trichloroethane	NA	ND	ND						
1,1,2-Trichloro-1,2,2-trifluoroethane	100,000	ND	ND						
1,1-Dichloroethane#	270	ND	ND						
I,I-Dichloroethene#	330	ND	ND						
1,2,4-Trichlorobenzene	NA	ND	ND						
1,2-Dibromo-3-Chloropropane	NA	ND	ND						
1,2-Dibromoethane	NA	ND	ND						
1,2-Dichlorobenzene#	1,100	ND	ND						
1,2-Dichloroethane#	20	ND	ND						
des la contra de la competencia de la contra d	NA	ND	ND						
1,2-Dichloropropane 1,3-Dichlorobenzene#	2,400		ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene#	1,800	ND			ND	ND	ND	ND	ND
	1,800 NA	ND ND	ND ND	ND ND	ND	ND	ND	ND	ND
2-Hexanone									
2-Butanone (MEK)	100,000	ND	ND	ND	ND	ND ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	NA	ND	ND	ND	ND		ND	ND	ND
Acetone#	50	ND	ND	ND	ND	ND	ND	5.2	5.7
Benzene+	60	ND	ND						
Bromodichloromethane	NA	ND	ND						
Bromoform	NA	ND	ND						
Bromomethane	NA	ND	ND						
Carbon disulfide	100,000	ND	ND						
Carbon tetrachloride#	760	ND	ND						
Chlorobenzene#	1,100	ND	ND						
Dibromochloromethane	NA	ND	ND						
Chloroethane	NA	ND	ND						
Chloroform#	370	ND	ND						
Chloromethane	NA	ND	ND						
cis-1,2-Dichloroethene#	250	ND	ND	ND	ND	ND	ND	6.5	16
cis-1,3-Dichloropropene	NA	ND	ND						
Cyclohexane	NA	ND	ND						
Dichlorodifluoromethane	NA	ND	ND						
Ethylbenzene+	1,000	ND	ND						
sopropylbenzene+	2,300	ND	ND						
Methyl acetate	NA	ND	ND						
Methyl tert-butyl ether+	930	ND	ND						
Methylcyclohexane	NA	ND	ND						
Methylene Chloride#	50	5.7	5.1	3.8	4.9	5,1	4.8	4.0	3.5
Styrene	NA	ND	ND						
Tetrachloroethene	NA	ND	ND	ND	0.70	ND	1,3	51	850
Foluene+	700	ND	ND	ND	0.50	0.50	0.46	0.46	0.50
Frans-1,2-Dichloroethene	NA	ND	ND						
Irans-1,3-Dichloropropene	NA	ND	ND						
Frichloroethene#	470	ND	ND	ND	ND	ND	ND	12.0	24.0
Frichlorofluoromethane	NA	ND	ND						
Vinyl chloride#	20	ND	ND						
Xylenes, Total+	260	ND	ND						
Total VOCs (µg/kg)	NA	5.7	5.1	3.8	6.10	5.60	6.56	79.16	899.70

Notes:

Limits reflect the Supplemental Soil Cleanup Objectives for residential limits from Table 1 of the CP-51 Soil Cleanup Guidance unless otherwise noted +Limits reflect the Soft Cleanup Levels for Gasoline Contaminated Soils from Table 2 of the CP-51 Soil Cleanup Guidance «Limits reflect the Unrestricted Use Soil Cleanup Objectives from Table 375-6.8(a) of the 6 NYCRR 375-6 guidance document

fi = feet

ppmv = parts per million by volume VOCs = Volatile Organic Compounds.

 $\mu g \lambda g$  = micrograms per kilógram. Samples not collected at EE intervals 5-6, 6-8 and 18-20 due to minimal or lack of recovery.

Samples not collected at EE4 intervals 10-14 and 14-15 due to minimal or lack of recovery.

\*New York State Department of Environmental Conservation (NYSDEC) CP-51 Soil Cleanup Guidance (October 2010). Bold = Concentrations above NYSDEC CP-51 Soil Cleanup Guidance.



Table 1 Soil Analytical Data Full List 8260

#### Mr. C's Dry Cleaner Site East Aurora, New York NYSDEC Site Number 9-15-157

Soil Sample ID		EE3	EE3	EE3	EE3	EE4	EE4	EE4	EE4	EE4	ÉE4
Date	- +	12/16/2012	12/16/2012	12/16/2012	12/16/2012	12/15/2012	12/15/2012	12/15/2012	12/15/2012	12/15/2012	12/15/2013
Depth (ft)	NYSDEC CP-51	20-22'	22-24'	24-26'	26-28'	0-2'	2-4'	4-6'	6-8'	8-10	10-12'
PID result (ppmv)	SCOs	3.7	6.7	0.8	0.2	2.4	0.2	0.4	0.4	0.5	0.4
1,1,1-Trichloroethane#	680	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	35,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane#	270	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene#	330	ND	1.2	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
,2-Dibromo-3-Chloropropane	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
,2-Dichlorobenzene#	1,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane#	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
,2-Dichloropropane	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
"3-Dichlorobenzene#	2,400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
,4-Dichlorobenzene#	1,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
-Hexanone	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
-Butanone (MEK)	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
-Methyl-2-pentanone (MIBK)	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone#	50	5.1	6.2	14	9.9	ND	ND	ND	ND	ND	ND
Senzene+	60	ND	0.82	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	NA	ND	ND	ND	ND	NĎ	ND	ND	ND	ND	ND
Bromomethane	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	100,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride#	760	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene#	1,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethanc	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform#	370	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
is-1.2-Dichloroethene#	250	43	220	ND	6.0	ND	ND	ND	ND	ND	ND
is-1,3-Dichloropropene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	NA	1.9	ND	ND	ND	ND	ND	ND	ND		
Dichlorodifluoromethane	NA	ND	ND	ND	ND	ND	ND.			ND	ND
Ethylbenzene+	1,000	ND	ND	ND	ND	ND	ND	ND ND	ND	ND	ND
sopropylbenzene+	2,300	ND	ND	ND					ND	ND	ND
Methyl acetate	NA	ND	ND	ND ND	ND ND	ND	ND	ND	ND	ND	ND
Acthyl tert-butyl ether+	930	ND	ND	1.8	1.9	ND ND	ND	ND	ND	ND	ND
Methylcyclohexane	NA	ND	ND	ND	1.9 ND	ND ND	ND ND	ND ND	ND ND	ND	ND
Acthylene Chloride#	50	4.3	4.3	2,8						ND	ND
tyrene	NA	4.3 ND	4.3 ND	2.8 ND	4.5 ND	ND ND	ND	ND	2.8	2.4	ND
ctrachloroethene	NA	1700	ND 54				ND	ND	ND	ND	ND
	700			ND	27	ND	ND	ND	ND	1.6	2.1
olucne+		0.48	ND	ND	ND	0.51	ND	ND	ND	ND	ND
rans-1,2-Dichloroethene	NA	ND	3.3	0.93	ND						
rans-1,3-Dichloropropene	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
richloroethene#	470	74	21	13.0	1.5	ND	ND	ND	ND	ND	ND
richlorofluoromethane	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
/inyl chloride# (ylenes, Total+	20	ND	ND	1.8	8.2	ND	ND	ND	ND	ND	ND
otal VOCs (µg/kg)	Z60 NA	ND 1.828.78	ND 304.62	ND 34,33	ND 59.0	ND 0.51	ND ND	ND	ND 2.8	ND 4.0	ND 2.1

Notes:

Limits reflect the Supplemental Soil Cleanup Objectives for residential limits from Table 1 of the CP-51 Soil Cleanup Guidance unless otherwise noted +Limits reflect the Soil Cleanup Levels for Gasoline Contaminated Soils from Table 2 of the CP-51 Soil Cleanup Guidance #Limits reflect the Unrestricted Use Soil Cleanup Objectives from Table 375-6.8(a) of the 6 NYCRR 375-6 guidance document

ft = feet

ppmv = parts per million by volume VOCs = Volatile Organic Compounds. µg kg = micrograms per kilogram.

Samples not collected at EE4 intervals 10-14 and 14-15 due to minimal or lack of recovery.

\*New York State Department of Environmental Conservation (NYSDEC) CP-51 Soil Cleanup Guidance (October 2010). Bold = Concentrations above NYSDEC CP-51 Soil Cleanup Guidance.

# <u>APPENDIX A</u>

Well Decommissioning Logs

Site Name: Mr. C's Dry Cleaners, NYSDEC Site No. 9-15-157	Well I.D.: MPI-7I
Site Location: East Aurora, NY	Driller: Ron Brown
Drilling Co.: Quality Inspection Services, Inc.	Inspector: Nicole Jarzyniecki (GES)
	Date: 12-14-11 and 12-15-11

DECOMMISSIONING DATA						
(Fill in all that apply)						
	(feet)					
	0					
0-5 ft bgs		Cement patch				
HSA		from 0 to 0.5				
8 in		ft bgs				
N						
NA	10	Augered and				
2 in PVC		tremie grouted				
NA		from 0.5 to 5				
		ft bgs (8 in dia)				
NA	20	Tremie grouted				
NA		5 to 34 ft bgs				
NA		(w/in 2 in dia				
		casing left in				
		place)				
NA	30	prace)				
NA						
NA						
NA						
	40					
0.5-34 ft bgs						
1						
282						
Portland						
10						
30						
15						
	_					
ace, in. = inches,	* Sketch in al	ll relevant decommissioning data, including:				
	0-5 ft bgs         HSA         8 in         N         NA         2 in PVC         NA         10         NA         30         15	$(y) \qquad \qquad \begin{array}{c} Depth\\ (feet)\\ 0\\ \hline \\ 0\\ \hline 0\\ \hline$				

HSA = Hollow Stem Auger, It should be noted that running sands were observed during MPI-7I-R well install and that some of the grout may have been lost to the formation - none

observed running into the replacement well (this was monitored). Groundwater and Environmental Services, Inc. (GES)

Will Welling - NYSDEC Department Representative

well stickup, etc.

interval overdrilled, interval grouted, casing left in hole,

Drilling Contractor

Site Name: Mr. C's Dry Cleaners, NYSDEC Site No. 9-15-157	Well I.D.: MPI-4D
Site Location: East Aurora, NY	Driller: Ron Brown
Drilling Co.: Quality Inspection Services, Inc.	Inspector: Nicole Jarzyniecki (GES)
	Date: 12-19-11

DECOMMISSIONING	WELL SCHEMATIC*		
(Fill in all that apply	Depth		
		(feet)	
<u>OVERDRILLING</u>		0	
Interval Drilled	NA		Top soil
Drilling Method(s)	NA	-	from 0 to 0.5
Borehole Dia. (in.)	NA	-	ft bgs
Temporary Casing Installed? (y/n)	N	-	
Depth temporary casing installed	NA	2	
Casing type/dia. (in.)	2 in PVC		
Method of installing	NA	-	Tremie grouted
		-	from 0.5 to 12
CASING PULLING		-	(w/in 2in dia
Method employed	NA	4	casing). The
Casing retrieved (feet)	NA		top 6 in of the
Casing type/dia. (in)	NA	-	PVC casing
		-	was broken off
CASING PERFORATING		-	
Equipment used	NA	6	
Number of perforations/foot	NA		
Size of perforations	NA	-	
Interval perforated	NA	-	
-		-	
GROUTING		8	
Interval grouted (FBLS)	0.5-12 ft bgs		
# of batches prepared	1	-	
For each batch record:		-	
Quantity of water used (gal.)	10	-	
Quantity of cement used (lbs.)	94	10	
Cement type	Portland		
Quantity of bentonite used (lbs.)	2	-	
Quantity of calcium chloride used (lbs.)	NA	-	
Volume of grout prepared (gal.)	12	-	
Volume of grout used (gal.)	3	12	
	•		
<b>COMMENTS</b> : ft bgs = feet below ground surf	ace in = inches	* Skotch in all ra	lavant decommissioning data including

 COMMENTS: ft bgs = feet below ground surface, in. = inches,

 HSA = Hollow Stem Auger, w/in = within

 MPI-4D was set within 6 in dia steel casing. The steel casing was left in place.

\* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole,

well stickup, etc.

Groundwater and Environmental Services, Inc. (GES) Drilling Contractor

Site Name: Mr. C's Dry Cleaners, NYSDEC Site No. 9-15-157	Well I.D.: MPI-2S
Site Location: East Aurora, NY	Driller: Ron Brown
Drilling Co.: Quality Inspection Services, Inc.	Inspector: Nicole Jarzyniecki (GES)
	Date: 12-20-11

DECOMMISSIONING I		WELL SCHEMATIC*	
(Fill in all that apply	Depth		
		(feet)	
<u>OVERDRILLING</u>		0	
Interval Drilled	0-5 ft bgs		Cement patch
Drilling Method(s)	HSA		from 0 to 1
Borehole Dia. (in.)	8 in		ft bgs
Temporary Casing Installed? (y/n)	N		
Depth temporary casing installed	NA	2	Augered and
Casing type/dia. (in.)	2 in PVC		tremie grouted
Method of installing	NA		from 0.5 to 5
			ft bgs (8 in dia)
CASING PULLING			
Method employed	NA	4	Tremie grouted
Casing retrieved (feet)	NA		5 to 10 ft bgs
Casing type/dia. (in)	NA		(w/in 2 in dia
			casing left in
CASING PERFORATING			-
Equipment used	NA	6	— place)
Number of perforations/foot	NA		∎
Size of perforations	NA		
Interval perforated	NA		
-			
GROUTING		8	
Interval grouted (FBLS)	0.5-10 ft bgs		∎
# of batches prepared	1		
For each batch record:			
Quantity of water used (gal.)	10		
Quantity of cement used (lbs.)	94	10	
Cement type	Portland		
Quantity of bentonite used (lbs.)	2		
Quantity of calcium chloride used (lbs.)	NA		
Volume of grout prepared (gal.)	12		
Volume of grout used (gal.)	6	12	
<b>COMMENTS:</b> ft bgs = feet below ground surfa	ace, in. = inches,	* Sketch in a	ll relevant decommissioning data, including:

HSA = Hollow Stem Auger,

Groundwater and Environmental Services, Inc. (GES) Drilling Contractor \* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Site Name: Mr. C's Dry Cleaners, NYSDEC Site No. 9-15-157	Well I.D.: ESI-5
Site Location: East Aurora, NY	Driller: Jason Tojdowski
Drilling Co.: Quality Inspection Services, Inc.	Inspector: Nicole Jarzyniecki (GES)
	Date: 5-4-12

DECOMMISSIONING I	WELL SCHEMATIC*		
(Fill in all that apply	Depth		
		(feet)	
<u>OVERDRILLING</u>		0	
Interval Drilled	NA		Asphalt patch
Drilling Method(s)	NA		from 0 to 0.5
Borehole Dia. (in.)	NA		ft bgs
Temporary Casing Installed? (y/n)	NA		
Depth temporary casing installed	NA	5	Tremie grouted
Casing type/dia. (in.)	NA		0.5 to 14 ft bgs
Method of installing	NA		(w/in 2 in dia
			casing left in
CASING PULLING			place)
Method employed	NA	10	
Casing retrieved (feet)	NA		
Casing type/dia. (in)	NA		
CASING PERFORATING			
Equipment used	NA	15	
Number of perforations/foot	NA		
Size of perforations	NA		
Interval perforated	NA		
GROUTING			
Interval grouted (FBLS)	0.5-14 ft bgs		
# of batches prepared	2		
For each batch record:			
Quantity of water used (gal.)	10		
Quantity of cement used (lbs.)	100		
Cement type	Portland		
Quantity of bentonite used (lbs.)	2		
Quantity of calcium chloride used (lbs.)	NA		
Volume of grout prepared (gal.)	20		
Volume of grout used (gal.)	8		
<b>COMMENTS:</b> ft bgs = feet below ground surfa	ace, in. = inches,	* Sketch in al	l relevant decommissioning data, including:

HSA = Hollow Stem Auger, Grout remaining from MPI-13B abandonment was used to abandon ESI-5 NOTE - The well was not over-drilled or casing pulled due to potential of degrading the road

interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Groundwater and Environmental Services, Inc. (GES) Drilling Contractor

Site Name: Mr. C's Dry Cleaners, NYSDEC Site No. 9-15-157	Well I.D.: MPI-8S
Site Location: East Aurora, NY	Driller: Jason Tojdowski
Drilling Co.: Quality Inspection Services, Inc.	Inspector: Nicole Jarzyniecki (GES)
	Date: 5-4-12

DECOMMISSIONING	WELL SCHEMATIC*		
(Fill in all that apply	Depth		
	(feet)		
<u>OVERDRILLING</u>		0	
Interval Drilled	NA		Asphalt patch
Drilling Method(s)	NA		from 0 to 0.5
Borehole Dia. (in.)	NA		ft bgs
Temporary Casing Installed? (y/n)	NA		
Depth temporary casing installed	NA	2	Tremie grouted
Casing type/dia. (in.)	NA		0.5 to 7.5 ft bgs
Method of installing	NA		(w/in 2 in dia
			casing left in
CASING PULLING			place)
Method employed	NA	4	
Casing retrieved (feet)	NA		∎
Casing type/dia. (in)	NA		∎
CASING PERFORATING			∎
Equipment used	NA	6	∎
Number of perforations/foot	NA		∎
Size of perforations	NA		∎
Interval perforated	NA		∎
-			∎
GROUTING		8	
Interval grouted (FBLS)	0.5-7.5 ft bgs		
# of batches prepared	1		
For each batch record:			
Quantity of water used (gal.)	6		
Quantity of cement used (lbs.)	50		
Cement type	Portland		
Quantity of bentonite used (lbs.)	2		
Quantity of calcium chloride used (lbs.)	NA		
Volume of grout prepared (gal.)	8		
Volume of grout used (gal.)	1 1/4		
<b>COMMENTS:</b> ft bgs = feet below ground surface	ace, in. = inches,	* Sketch in a	ll relevant decommissioning data, including:

HSA = Hollow Stem Auger, NOTE - The well was not over-drilled or casing pulled due to potential of

degrading the road.

Groundwater and Environmental Services, Inc. (GES) Drilling Contractor interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Site Name: Mr. C's Dry Cleaners, NYSDEC Site No. 9-15-157	Well I.D.: MPI-13B
Site Location: East Aurora, NY	Driller: Jason Tojdowski
Drilling Co.: Quality Inspection Services, Inc.	Inspector: Nicole Jarzyniecki (GES)
	Date: 5-4-12

DECOMMISSIONING	WELL SCHEMATIC*		
(Fill in all that apply	Depth		
	(feet)		
<u>OVERDRILLING</u>		0	
Interval Drilled	NA		Asphalt patch
Drilling Method(s)	NA		from 0 to 0.5
Borehole Dia. (in.)	NA		ft bgs
Temporary Casing Installed? (y/n)	NA		
Depth temporary casing installed	NA	10	Tremie grouted
Casing type/dia. (in.)	NA		0.5 to 32 ft bgs
Method of installing	NA		(w/in 2 in dia
			casing left in
CASING PULLING			place)
Method employed	NA	20	
Casing retrieved (feet)	NA		
Casing type/dia. (in)	NA		
CASING PERFORATING			
Equipment used	NA	30	
Number of perforations/foot	NA		
Size of perforations	NA		
Interval perforated	NA		
-			
GROUTING		40	
Interval grouted (FBLS)	0.5-32 ft bgs		
# of batches prepared	2		
For each batch record:			
Quantity of water used (gal.)	10		
Quantity of cement used (lbs.)	100		
Cement type	Portland		
Quantity of bentonite used (lbs.)	2		
Quantity of calcium chloride used (lbs.)	NA		$\neg$ $ $ $ $
Volume of grout prepared (gal.)	20		$\neg$ $ $ $ $
Volume of grout used (gal.)	10		$\neg$ $ $ $ $
		a	
<b>COMMENTS:</b> ft bgs = feet below ground surfa	ace, in. = inches,	* Sketch in all	relevant decommissioning data, including:

HSA = Hollow Stem Auger, Grout remaining from MPI-13B abandonment was used to abandon ESI-5 interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Groundwater and Environmental Services, Inc. (GES) Drilling Contractor

# APPENDIX B

Well Construction Logs

							ID NO. ${f M}$	PI-7I-R
Gro	undwa	ter &	Environ	nenta	Il Services, In	с.		Page 1 of 2
AD	OJECT: DRESS B NO.	: Eas	C's (NYSD t Aurora, N 1467		TH: Approx 12 ftbgsC	DTAL DEPTH: <b>39 ftbgs</b> ASING EL.: <b>NR</b> /ELL DIA.: <b>2 in.</b>		
	Logged I Dates Dr Drilling C Drill Rig	rilled: Compan	Nicole Jarz 12-14-11 y: Quality Ins Acker Soil 1	pection	Services, Inc. ruck Mount)	Drilling Method: Sampling Method: Soil Class. System: Field Screening:	Hollow Stem Auger Split Spoon Modified Burmister MiniRae 2000 PID, 10.6 eV	V Lamp (results in ppm)
Depth (feet)	Sample Interval	Field Screen	Blow Counts	Rec.	SAMPLE I	LITHOLOGY	COMMENTS	COMPLETION DETAILS
0	0-8'	NR	NA	NR	Asphalt Boring was a cleared to 8 no data reco	air-knifed and hand ftbgs on 12-13-11, rded	No laboratory samples collected Well set at 38.9 ftbg, above target depth of 39 ftbg due to running sands	Cement pad (0- 0.5') Grout (0.5-24.5')
- - - 10	8-10' 10-12'	3.4	NA	50 % 50 %	sand, 10% g	o medium grain ravel, dry, no odor o medium grain ravel, bottom 4	-	
-	12-14'	2.5	NA	NR	inches are g sand, dry to	ravel with trace wet, no odor I, trace sand, 10% aturated, no odor		
15 -	14-16'	0.5	NA	50 %				
-	16-18' 18-20'	0.2 NA	NA	30 % 0 %			-	
20	10-20		INA	0 %	No Recovery	/		
Nort East Hori	a <u>tion:</u> hing/Latitu ing/Longi zontal Da ical Datun	tude: NA tum: NA	A A		General Comment NA = Not Applicabl NR = Not Recorded ftbgs = feet below gr	e		Symbol Key:         Apparent Water Level         Lab Sample Location         MPI-7I-R         p. 1 of 2

		S S			Services, Inc.	• <b>MPI-7I-R</b> Page 2 of 2			
PR ADI	PROJECT:Mr C's (NYSDEC Site No. 9-15-157)SURFACE ELEV.: NRTOTAL DEPTH:39 ftbgsADDRESS:East Aurora, NYWATER DEPTH:Approx 12 ftbgs/CASING EL.:NRJOB NO.0901467BOREHOLE DIA.: 8 inchesWELL DIA.:2 in.								
Logged By:Nicole JarzynieckiDrilling Method:Hollow Stem AugerDates Drilled:12-14-11Sampling Method:Split SpoonDrilling Company:Quality Inspection Services, Inc.Soil Class. System:Modified BurmisterDrill Rig Type:Acker Soil Max (Truck Mount)Field Screening:MiniRae 2000 PID, 10.6 eV Lamp (results)									
	Sample Interval	Field Screen	Blow Counts	Rec.	SAMPLE LITHOLOGY COMMENT	S COMPLETION DETAILS			
20 -	20-22'	0.2	NA	15 %	Black and brown gravel, 5-10% sand, 5-10% silt, saturated, no odor				
-	22-24'	NA	NA	<5 %	Gravel, low recovery				
25 –	24-26'	0.8	NA	25 %	Black and brown gravel, 5-10% sand, 5-10% silt, saturated, no odor	Bentonite (24.5- 26.5')			
-	26-28'	0.4	NA	60 %	Brown fine to medium grain gravelly sand to fine to medium grain sand with 10% gravel, wet, no odor	Sandpack (26.5- 39')			
-	28-30'	0.1	NA	10 %	<ul> <li>Brown fine to medium grain</li> <li>sand, trace gravel, saturated, no</li> <li>odor</li> </ul>	2 inch PVC screen (28.9-38.9')			
30 -	30-32'	0.2	NA	25 %	Brown sand with trace silt and gravel to brown silt in last 3 inches, saturated, no odor				
-	32-34'	0.2	NA	100 %	Brown silt with trace to 30%				
35 -	34-36'	0.2	NA	30 %	Brown sandy silt, 30 to 40%				
-	36-38'	0.2	NA	30 %					
-	38-39'	NA	NA	0 %	No Recovery				
40					End of boring at 3	g' Well Bottom at 38.9'			
Nort East	a <u>tion:</u> hing/Latitu ing/Longi zontal Da	tude: NA	<b>X</b>		General Comments: NA = Not Applicable NR = Not Recorded ftbgs = feet below ground surface	Symbol Key: Apparent Water Level Lab Sample Location 🔀			
Vert	Vertical Datum: NA p. 2 of 2								

		-	MO	ΝΙΤ	ORING W	ID NO. ESI-2-R		
Gro	undwa	ter &	Environr	nenta	Il Services, In	с.		Page 1 of 1
ADI	DJECT: DRESS 3 NO.	Eas	C's (NYSD t Aurora, N 1467		te No. 9-15-157)	SURFACE EI WATER DEP BOREHOLE	TH: NR C	OTAL DEPTH: 19 ftbgs ASING EL.: NR /ELL DIA.: 2 in.
	Logged I Dates Dr Drilling C Drill Rig	illed: Compan	Nicole Jarzy 12-15-11 Y: Quality Insj Acker Soil I	pection	Services, Inc. uck Mount)	Drilling Method: Sampling Method: Soil Class. System: Field Screening:	Hollow Stem Auger NA Modified Burmister MiniRae 2000 PID, 10.6 e	V Lamp (results in ppm)
	Sample Interval	Field Screen	Blow Counts	Rec.	SAMPLE L	ITHOLOGY	COMMENTS	COMPLETION DETAILS
0	None collected	NA	NA	NA	NR		No samples or logging, augered to depth and installed well	Cement pad (0- 0.5') Grout (0.5-5') 2 inch PVC riser (0-9')
-								Bentonite (5-7') Sandpack (7-19') 2 inch PVC screen
10 -								(9-19')
15 -							End of boring at 19'	Well Bottom at 19'
20								
East Horiz	<u>ition:</u> hing/Latitu ing/Longii zontal Dat cal Datun	tude: NA tum: NA	4 4		General Comment NA = Not Applicabl NR = Not Recorded ftbgs = feet below gr	e		<u>Symbol Key:</u> Apparent Water Level Lab Sample Location ESI-2-R p. 1 of 1

6	F	3	ID NO. EE	-			
Gro	undwa	ater &	Environ	menta	Il Services, Inc.		Page 1 of 2
ADI	OJECT DRESS 3 NO.	: Eas	C's (NYSE t Aurora, N 1467		te No. 9-15-157) SURFACE ELEV.: WATER DEPTH: BOREHOLE DIA.:	Approx 12 ftbgsCA	TAL DEPTH: 28 ftbgs SING EL.: NR ELL DIA.: 2 in.
	Logged Dates D Drilling ( Drill Rig	rilled: Compan	Nicole Jarz 12-16-11 y: Quality Ins Acker Soil	pection s	Sampling Method: Split Services, Inc. Soil Class. System: Mod	ow Stem Auger t Spoon lified Burmister iRae 2000 PID, 10.6 eV	Lamp (results in ppm)
	Sample Interval		Blow Counts	Rec.	SAMPLE LITHOLOGY	COMMENTS	COMPLETION DETAILS
<b>0</b> _	0-1'	NR	NA	100 %	coll	boratory samples lected for 0-2', 2-4',	Cement pad (0- 0.5')
-	1-2'	0.0	NA	100 %	Brown silty clay, trace gravel, 14',	5', 8-10', 10-12', 12- , 14-16', 16-18', 20- , 22-24', 24-26' and	Grout (0.5-14')
-	2-4'	0.0	NA	100 %	Brown silty clay, 10-15% gravel, moist, no odor 0-5	28' intervals	2 inch PVC riser
_	4-5'	0.1	NA	100 %	utili bor	e to possibility of ities in location of ring. Samples were lected with hand	(0-18') ^ ^ ^ ^ ^ & ^ ^ ^ & ^ ^ ^
5-	5-6'	NA	NA	100 %	No recovery aug	ger.	
-	6-8'	0.1	NA	<5 %	clay rock in shoe	sample collected for 'interval due to poor overy	
-	8-10'	0.1	NA	60 %	Brown silty clay, 15-20% gravel, moist to very moist, no odor		
10 -	10-12'	0.1	NA	50 %	Brown silty clay, 30% gravel, moist, no odor		
-	12-14'	0.1	NA	40 %	Brown gravel and silt, wet to saturated, no odor		
- 15 -	14-16'	0.4	NA	50 %			Bentonite (14-16')
	16-18'	1.4	NA	60 %	Reddish brown to brown gravel and silt, saturated, no odor		Sandpack (16-28')
-	18-20	NA	NA	0 %		o peices of gravel in npler	2 inch PVC screen (18-28')
20 _							
Nort East	a <u>tion:</u> hing/Latit ing/Longi zontal Da	itude: NA	A		<u>General Comments:</u> NA = Not Applicable NR = Not Recorded thes = feet below ground surface		Symbol Key: Apparent Water Level <b>±</b> Lab Sample Location <b>X</b>
	zontal Da ical Datur				ftbgs = feet below ground surface		EE-3 p. 1 of 2

		3	ID NO. EI	<b>E-3</b> Page 2 of 2				
PR AD	OJECT: DRESS B NO.	Mr Eas		DEC Sit		. 9-15-157) SURFACE EL WATER DEP BOREHOLE I	TH: Approx 12 ftbgsC/	DTAL DEPTH: 28 ftbgs
Dopt	Logged Dates D Drilling ( Drill Rig h Sample	rilled: Compan Type:	Hollow Stem Auger Split Spoon Modified Burmister MiniRae 2000 PID, 10.6 eV	<sup>7</sup> Lamp (results in ppm)				
	) Interval		Blow Counts	Rec.		SAMPLE LITHOLOGY	COMMENTS	COMPLETION DETAILS
<b>20</b> –	20-22'	3.7	NA	30 %		Brown sand and and gravel, wet, no odor	Driller added approximately 10 gallons of clean water to the boring due to running sands	
	22-24'	6.7	NA	80 %		Brown to grayish brown sand and gravel to sand, fine to medium grain sand, wet, no odor		
25 -	24-26'	0.8	NA	30 %		Grayish brown sand and gravel to silty sand, larger rock between layers (lithology change), wet, no odor	Sample sent with jar half full per Ecology and Environment Engineering, P.C. personnel request, due	
-	26-28'	0.2	NA	90 %		Grayish brown silty sand, wet, no odor	to larger rock in sampler there was no enough of the sample to fill the jar End of boring at 28'	Well Bottom at 28'
30 -								
Nor	<u>ation:</u> thing/Latit ting/Longi				NA =	eral Comments: Not Applicable Not Recorded		Symbol Key: Apparent Water Level Lab Sample Location

Northing/Latitude:	NA
Easting/Longitude:	NA
Horizontal Datum:	NA
Vertical Datum:	NA

NR = Not Recorded ftbgs = feet below ground surface

Lab Sample Location

p. 2 of 2

MONITORING WELL ID NO. EE-4										
Gro	undwa	ater &	Environ	menta	I Services, In	ıc.		Pag	e 1 of 1	
AD	OJECT: DRESS B NO.	: Eas	C's (NYSD t Aurora, N 1467		e No. 9-15-157)	WATER DEP	PTH: Approx 12 ftbgsC		-	
	Logged Dates D Drilling ( Drill Rig Sample Interval	Hollow Stem Auger Split Spoon Modified Burmister MiniRae 2000 PID, 10.6 eV COMMENTS	<sup>7</sup> Lamp (results in pp COMPLETION							
0	0-2'	2.4	NA	60 %	Gray fill, roc no odor	ck and silty sand, dry,	Laboratory samples collected for 0-2', 2-4', 4-6', 6-8', 8-10' and 10- 12'	Cement pad (0- 0.5') Bentonite (0.5-3')	8	
-	2-4'	0.2	NA	40 %		elly silt with black ayers, dry, no odor	No grout, per work plan	2 inch PVC riser (0-5') Sandpack (3-15')	23	
5-	4-6'	0.4	NA	40 %	black (organ	ddish brown, silt with nic?) layers, 10% gravel, dry to slightly dor	_	2 inch PVC screer	n E	
-	6-8'	0.4	NA	40 %				(5-15')		
-	8-10'	0.5	NA	60 %	black (orgar	ddish brown, silt with nic?) layers, clay content, trace st to wet with depth v wet), no odor	-			
10 -	10-12'	0.4	NA	25 %	black (orgar	ddish brown, silt with nic?) layers, clay content, trace st to slightly wet, no				
-	12-14'	0.6	NA	<5%	Rock in she wet, no odo	r, some sand above, r	No sample collected for 12-14' interval due to poor recovery			
15 -	14-15'	3.2	NA	0 %		<i>r</i> , strong odor on mpler is wet	Strong odor on sampler, PID screening result is from inside augers after sample was pulled End of boring at 15'	Well Bottom at 15		
Nort East Hori	a <u>tion:</u> hing/Latit ing/Longi zontal Da ical Datur	Symbol Key: Apparent Water Le Lab Sample Locati								

		-	MO	ΝΙΤ	ORING W	ID NO. MPI-2S-R		
Gro	undwa	ter &	Environr	nenta	Il Services, In	с.		Page 1 of 1
ADI	OJECT: DRESS 3 NO.	: Eas 090	t Aurora, N 1467	Y	te No. 9-15-157)		TH: NR C DIA.: 8 inches W	DTAL DEPTH: 18 ftbgs ASING EL.: NR /ELL DIA.: 2 in.
	Logged I Dates Dr Drilling C Drill Rig	illed: Compan	Tom Palme 12-19-2011 Y: Quality Ins Acker Soil 1	pection S	Services, Inc. uck Mount)	Drilling Method: Sampling Method: Soil Class. System: Field Screening:	Hollow Stem Auger NA Modified Burmister MiniRae 2000 PID, 10.6 eV	/ Lamp (results in ppm)
	Sample Interval	Field Screen	Blow Counts	Rec.	SAMPLE L	ITHOLOGY	COMMENTS	COMPLETION DETAILS
0	None collected	NA	NA	NA	NR		No samples or logging, augered to depth and installed well	Cement pad (0-1') Grout (1-5') 2 inch PVC riser (0-8') Bentonite (4-6')
5-								Sandpack (6-18')
								2 inch PVC screen (8-18')
15 -							End of boring at 18'	Well Bottom at 18'
					0 10			
Nort East Horiz	<u>ation:</u> hing/Latitu ing/Longi zontal Da ical Datun	tude: NA tum: NA	A A		General Comment NA = Not Applicabl NR = Not Recorded ftbgs = feet below gr	e		Symbol Key: Apparent Water Level Lab Sample Location X
veiti	cai Datur	n. 1N2	1					MPI-2S-R p. 1 of 1

	तद	3	мо	NIT	ID NO. MPI-14B-R			
Gro	oundwa	ater &	Environr	nenta	l Services, In	с.		Page 1 of 1
AD	OJECT: DRESS B NO.		TH: NR C	OTAL DEPTH: 30 ftbgs ASING EL.: NR /ELL DIA.: 2 in.				
	Logged Dates D Drilling ( Drill Rig	rilled: Company	Tom Palme 12-19-2011 y: Quality Ins Acker Soil I	pection S		Drilling Method: Sampling Method: Soil Class. System: Field Screening:	Hollow Stem Auger NA Modified Burmister MiniRae 2000 PID, 10.6 eV	V Lamp (results in ppm)
	h Sample Interval		Blow Counts	Rec.	SAMPLE L	ITHOLOGY	COMMENTS	COMPLETION DETAILS
0	None collected	NA	NA	NA	NR		No samples or logging, augered to depth and installed well	Cement pad (0- 0.5') 2 inch PVC riser (0-15') Grout'(0.5-11') Bentonite (11-13') Sandpack (13-30') 2 inch PVC screen (15-30')
- 25 - - -								
30 -							End of boring at 30'	Well Bottom at 30'
Nor Eas Hor	<u>ation:</u> thing/Latit ting/Longi izontal Da tical Datur	tude: NA tum: NA	A A		General Comments NA = Not Applicable NR = Not Recorded ftbgs = feet below gr	9		Symbol Key: Apparent Water Level Lab Sample Location ₩
ver	iicai Daluf	11. INA	L .					MPI-14B-R p. 1 of 1

3	F	3		NIT	ID NO. ESI-5-R					
Gro	undwa	ater &	Environ	nenta	al Services, In	с.		Page 1 of 1		
AD	OJECT DRESS 3 NO.	: Eas	C's (NYSD t Aurora, N 1467		te No. 9-15-157)	SURFACE EI WATER DEP BOREHOLE	TH: NR C	DTAL DEPTH: 15 ftbgs ASING EL.: NR /ELL DIA.: 2 in.		
Logged By: Thomas Palmer Dates Drilled: 5-7-12 Drilling Company: Quality Inspection S Drill Rig Type: Acker Soil Max (Tr						Drilling Method: Sampling Method: Soil Class. System: Field Screening:	Hollow Stem Auger NA Modified Burmister MiniRae 2000 PID, 10.6 eV	V Lamp (results in ppm)		
Deptł (feet)	Sample Interval	Field Screen	Blow Counts	Rec.	SAMPLE L	ITHOLOGY	COMMENTS	COMPLETION DETAILS		
<b>0</b> - -	None collected	NA	NA	NA	NR		No samples or logging, augered to depth and installed well	Cement pad (0- 0.5') Grout (0.5-1') Bentonite (1-3') Sandpack (3-15')		
-								2 inch PVC riser (0-5')		
-								2 inch PVC screen (5-15')		
<b>10</b> - - -										
15 -							End of boring at 15'	Well Bottom at 15'		
Nort Eas	Location:       General Comments:       Symbol         Northing/Latitude:       NA       NA = Not Applicable       Appai         Easting/Longitude:       NA       NR = Not Recorded       Lab S         Horizontal Datum:       NA       ftbgs = feet below ground surface       State									
	ical Datu			ESI-5-R p. 1 of 1						

	1	-	MO	ΝΙΤ	ORING W	ID NO. MPI-8S-R		
Gro	undwa	ter &	Environr	nenta	Il Services, In	с.		Page 1 of 1
ADE JOE	DJECT: DRESS 3 NO. Logged I	: Eas 090	C's (NYSD t Aurora, N 1467 Tom Palme	Y	te No. 9-15-157)	SURFACE EL WATER DEP BOREHOLE Drilling Method:	TH: NR C	OTAL DEPTH: 18 ftbgs ASING EL.: NR /ELL DIA.: 2 in.
	Dates Dr Drilling C Drill Rig	Compan	5-7-12 y: Quality Ins Acker Soil I		Services, Inc. ruck Mount)	Sampling Method: Soil Class. System: Field Screening:	NA Modified Burmister MiniRae 2000 PID, 10.6 e	V Lamp (results in ppm)
	Sample Interval	Field Screen	Blow Counts	Rec.	SAMPLE L	ITHOLOGY	COMMENTS	COMPLETION DETAILS
0 - - - - - - - - - - - - - - - - - - -	None collected	NA	NA	NA	NR		No samples or logging, augered to depth and installed well End of boring at 18'	Cement pad (0-         0.5')         2 inch PVC riser         (0-8')         Grout (0.5-4')         Bentonite (4-6')         Sandpack (6-18')         2 inch PVC screen (8-18')         Well Bottom at 18'
Easti Horiz	<u>tion:</u> hing/Latitu ng/Longit contal Dat cal Datun	tude: NA tum: NA	A A		General Comments NA = Not Applicable NR = Not Recorded ftbgs = feet below gr	e		Symbol Key: Apparent Water Level Lab Sample Location MIN 85 D
								MPI-8S-R p. 1 of 1

	1	-	MO	ΝΙΤ	ORING W	ID NO. MPI-9S-R		
Gro	undwa	ter &	Environr	nenta	Il Services, In	с.		Page 1 of 1
ADE JOE	DJECT: DRESS 3 NO. Logged B	: Eas 090	C's (NYSD t Aurora, N 1467 Tom Palme	Y	te No. 9-15-157)	SURFACE EI WATER DEP BOREHOLE Drilling Method:	TH: NR C	OTAL DEPTH: 18 ftbgs ASING EL.: NR /ELL DIA.: 2 in.
	Dates Dr	illed: Compan	5-7-12 y: Quality Ins Acker Soil I		Services, Inc. ruck Mount)	Sampling Method: Soil Class. System: Field Screening:	NA	V Lamp (results in ppm)
	Sample Interval	Field Screen	Blow Counts	Rec.	SAMPLE L	ITHOLOGY	COMMENTS	COMPLETION DETAILS
0 - - - - - - - - - - - - - - - - - - -	None collected	NA	NA	NA	NR		No samples or logging, augered to depth and installed well 18'	Cement pad (0-         0.5')         2 inch PVC riser         (0-8')         Grout (0.5-4')         Bentonite (4-6')         Sandpack (6-18')         2 inch PVC screen (8-18')         Well Bottom at 18'
	tion				Gonoral Comment	<u>.</u>		Symbol Kovi
Easti Horiz	<u>tion:</u> ning/Latiti ng/Longit contal Dat cal Datun	tude: NA tum: NA	A A		General Comments NA = Not Applicable NR = Not Recorded ftbgs = feet below gr	e		Symbol Key: Apparent Water Level Lab Sample Location K
2.40		- 11						MPI-9S-R p. 1 of 1

GES	🗖 мо	NITOF	ID NO. MPI-13B-R						
Groundwater	& Environr	nental S	ervices, Inc	C.		Page 1 of 1			
ADDRESS: E	Ar C's (NYSD Cast Aurora, N 901467		o. 9-15-157)	SURFACE EL WATER DEP BOREHOLE I	TH: NR C	DTAL DEPTH: 31.5 ftbgs ASING EL.: NR /ELL DIA.: 2 in.			
Drilling Comp	Logged By:Tom PalmerDrilling Method:Hollow Stem AugerDates Drilled:5-8-12Sampling Method:NADrilling Company:Quality Inspection Services, Inc.Soil Class. System:Modified BurmisterDrill Rig Type:Acker Soil Max (Truck Mount)Field Screening:MiniRae 2000 PID, 10.6 eV								
Depth Sample Fie (feet) Interval Scre		Rec.	SAMPLE L	ITHOLOGY	COMMENTS	COMPLETION DETAILS			
0 - None NA - collected - 5 - 5 - 10 - -	A NA	NA	NR		No samples or logging, augered to depth and installed well	Cement pad (0- 0.5') 2 inch PVC riser (0-16.5') Grout (0.5-12.5') Bentonite (12.5-			
15 20						14.5') Sandpack (14.5- 31.5') 2 inch PVC screen (16.5-31.5')			
25 -									
30 -					End of boring at 31.5'	Well Bottom at 31.5'			
Location:       General Comments:       Symbol Key:         Northing/Latitude:       NA       NA = Not Applicable       Apparent Wa         Easting/Longitude:       NA       NR = Not Recorded       Lab Sample I         Horizontal Datum:       NA       ftbgs = feet below ground surface       Sample I									
Vertical Datum:	NA					<b>MPI-13B-R</b> p. 1 of 1			

# <u>APPENDIX C</u>

Soil Analytical Report

# **TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc. TestAmerica Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

TestAmerica Job ID: 480-14343-1 Client Project/Site: NYSDEC - Mr. C's Dry Cleaners

For: Groundwater & Environmental Services Inc 158 Sonwil Drive Cheektowaga, New York 14225

Attn: Steven Leitten

Authorized for release by: 12/30/2011 4:46:00 PM

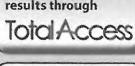
Brian Fischer Project Manager II brian.fischer@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS Review your project results through



Have a Question?

Ask

The

Expert

Visit us at: www.testamericainc.com

# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	
Client Sample Results	4
Lab Chronicle	40
Certification Summary	44
	45
Sample Summary	
Chain of Custody	47
Receipt Checklists	49

a.

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners

3

Qualifiers	
GC/MS VOA	
Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
0100000	

# Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
*	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners

TestAmerica Job ID: 480-14343-1

### Client Sample ID: EE4 (0-2) Date Collected: 12/15/11 10:46 Date Received: 12/21/11 11:00

# Lab Sample ID: 480-14343-1

Analyte	Result	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	DUE
1,1,1-Trichloroethane	ND		5.2		ug/Kg	— <del>0</del>	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.2		ug/Kg			12/22/11 19:50	1
1,1,2-Trichloroethane	ND		5.2			13		12/22/11 19:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.2		ug/Kg			12/22/11 19:50	1
1,1-Dichloroethane	ND		5.2		ug/Kg			12/22/11 19:50	1
1,1-Dichloroethene	ND			0.64				12/22/11 19:50	1
1,2,4-Trichlorobenzene	ND		5.2	0.64	ug/Kg	14		12/22/11 19:50	1
1,2-Dibromo-3-Chloropropane	ND		5.2	0.32		7		12/22/11 19:50	1
1,2-Dibromoethane	ND		5.2		ug/Kg	ø		12/22/11 19:50	1
1,2-Dichlorobenzene	ND		5.2	0.67	ug/Kg			12/22/11 19:50	1
1,2-Dichloroethane			5.2	0.41	ug/Kg			12/22/11 19:50	1
1,2-Dichloropropane	ND		5.2	0.26	ug/Kg	12		12/22/11 19:50	1
	ND		5.2		ug/Kg	0.		12/22/11 19:50	1
1,3-Dichlorobenzene 1,4-Dichlorobenzene	ND		5.2		ug/Kg	1.5		12/22/11 19:50	1
	ND		5.2	0.73	ug/Kg	a		12/22/11 19:50	1
2-Hexanone	ND		26	2.6	ug/Kg	1		12/22/11 19:50	1
2-Butanone (MEK)	ND		26	1.9	ug/Kg	U'		12/22/11 19:50	1
4-Methyl-2-pentanone (MIBK)	ND		26	1.7	ug/Kg	Ø		12/22/11 19:50	1
Acetone	ND		26	4.4	ug/Kg	10		12/22/11 19:50	1
Benzene	ND		5.2	0.26	ug/Kg			12/22/11 19:50	1
Bromodichloromethane	ND		5.2	0.70	ug/Kg	Ø		12/22/11 19:50	1
Bromoform	ND		5.2		ug/Kg	77		12/22/11 19:50	1
Bromomethane	ND		5.2	0.47	ug/Kg	a		12/22/11 19:50	1
Carbon disulfide	ND		5.2	2.6	ug/Kg	27		12/22/11 19:50	1
Carbon tetrachloride	ND		5.2	0.51	ug/Kg	n		12/22/11 19:50	1
Chlorobenzene	ND		5.2	0.69	ug/Kg	-1		12/22/11 19:50	1
Dibromochloromethane	ND		5.2	0.67	ug/Kg	\$1		12/22/11 19:50	1
Chloroethane	ND		5.2	1.2	ug/Kg	Ø		12/22/11 19:50	1
Chloroform	ND		5.2	0.32	ug/Kg	п		12/22/11 19:50	1
Chloromethane	ND		5.2	0.32	ug/Kg			12/22/11 19:50	1
cis-1,2-Dichloroethene	ND		5.2	0.67	ug/Kg	21		12/22/11 19:50	1
cis-1,3-Dichloropropene	ND		5.2	0.76	ug/Kg	10		12/22/11 19:50	1
Cyclohexane	ND		5.2	0.73	ug/Kg	211		12/22/11 19:50	1
Dichlorodifluoromethane	ND		5.2	0.43	ug/Kg	19		12/22/11 19:50	1
Ethylbenzene	ND		5.2	0.36	ug/Kg	11		12/22/11 19:50	1
sopropylbenzene	ND		5.2	0.79	ug/Kg	14		12/22/11 19:50	1
Methyl acetate	ND		5.2	0.98	ug/Kg	10		12/22/11 19:50	1
Methyl tert-butyl ether	ND		5.2	0.52	ug/Kg	में .		12/22/11 19:50	1
Methylcyclohexane	ND		5.2		ug/Kg	- 67		12/22/11 19:50	1
Methylene Chloride	ND		5.2	2.4	ug/Kg	in.		12/22/11 19:50	1
Styrene	ND		5.2	0.26	ug/Kg	12		12/22/11 19:50	1
etrachloroethene	ND		5.2		ug/Kg	(		12/22/11 19:50	1
oluene	0.51 .	1.	5.2	0.40		2.0		12/22/11 19:50	1
rans-1,2-Dichloroethene	ND		5.2	0.54		1		12/22/11 19:50	1
rans-1,3-Dichloropropene	ND		5.2		ug/Kg	n		12/22/11 19:50	1
richloroethene	ND		5.2		ug/Kg	1.12		12/22/11 19:50	1
richlorofluoromethane	ND		5.2	0,50		100		12/22/11 19:50	1
/inyl chloride	ND		5.2	0.64		-		12/22/11 19:50	
(ylenes, Total	ND		10	0.88		ø		12/22/11 19:50	1

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners

Т

TestAmerica Job ID: 480-14343-1

### Client Sample ID: EE4 (0-2) Lab Sample ID: 480-14343-1 Date Collected: 12/15/11 10:46 Date Received: 12/21/11 11:00 Percent Solids: 91.8

Surrogate	%Recovery Qualifier	Limits	Prepared Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99	64 - 126	12/22/11 19	
Toluene-d8 (Surr)	102	71 - 125	12/22/11 19	131
4-Bromofluorobenzene (Surr)	110	72 - 126	12/22/11 19	

Matrix: Solid 4

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners TestAmerica Job ID: 480-14343-1

### Client Sample ID: EE4 (2-4) Date Collected: 12/15/11 10:55 Date Received: 12/21/11 11:00

Lab Sample ID: 480-14343-2 Matrix: Solid Percent Solids: 87.1

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND	5.4	0.39	ug/Kg	2		12/22/11 20:15	1
1,1,2,2-Tetrachloroethane	ND	5.4	0.87	ug/Kg			12/22/11 20:15	
1,1,2-Trichloroethane	ND	5.4	0.70	ug/Kg	10		12/22/11 20:15	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.4	1.2	ug/Kg	29		12/22/11 20:15	18
1,1-Dichloroethane	ND	5.4	0.66	ug/Kg	r		12/22/11 20:15	- R
1,1-Dichloroethene	ND	5.4	0.66	ug/Kg	Ø		12/22/11 20:15	10
1,2,4-Trichlorobenzene	ND	5.4	0.33	ug/Kg	7		12/22/11 20:15	10
1,2-Dibromo-3-Chloropropane	ND	5.4	2.7	ug/Kg			12/22/11 20:15	11.0
1,2-Dibromoethane	ND	5.4	0.69	ug/Kg	7		12/22/11 20:15	1.8
1,2-Dichlorobenzene	ND	5.4	0.42	ug/Kg	14		12/22/11 20:15	
1,2-Dichloroethane	ND	5.4	0.27	ug/Kg	×.		12/22/11 20:15	
1,2-Dichloropropane	ND	5.4	2.7	ug/Kg	25		12/22/11 20:15	1
1,3-Dichlorobenzene	ND	5.4	0.28	ug/Kg	22		12/22/11 20:15	4
1,4-Dichlorobenzene	ND	5.4	0.75	ug/Kg	1.20		12/22/11 20:15	4
2-Hexanone	ND	27	2.7	ug/Kg	- (a.)		12/22/11 20:15	
2-Butanone (MEK)	ND	27	2.0	ug/Kg	181		12/22/11 20:15	1
4-Methyl-2-pentanone (MIBK)	ND	27	1.8	ug/Kg			12/22/11 20:15	1
Acetone	ND	27	4.5	ug/Kg	2		12/22/11 20:15	1
Benzene	ND	5.4	0.26	ug/Kg	1		12/22/11 20:15	1
Bromodichloromethane	ND	5.4	0.72	ug/Kg	ø		12/22/11 20:15	1
Bromoform	ND	5.4	2.7	ug/Kg	L.		12/22/11 20:15	1
Bromomethane	ND	5.4	0.49	ug/Kg	ø		12/22/11 20:15	
Carbon disulfide	ND	5.4	2.7	ug/Kg	115		12/22/11 20:15	4
Carbon tetrachloride	ND	5.4	0.52	ug/Kg			12/22/11 20:15	4
Chlorobenzene	ND	5.4	0.71	ug/Kg	- 18		12/22/11 20:15	1
Dibromochloromethane	ND	5.4	0.69	ug/Kg	2 °		12/22/11 20:15	
Chloroethane	ND	5.4	1.2	ug/Kg	- 11		12/22/11 20:15	
Chloroform	ND	5.4	0.33	ug/Kg	12		12/22/11 20:15	1
Chloromethane	ND	5.4	0.33	ug/Kg	13		12/22/11 20:15	1
cis-1,2-Dichloroethene	ND	5.4	0.69	ug/Kg	5		12/22/11 20:15	1
cis-1,3-Dichloropropene	ND	5.4	0.78	ug/Kg	ø		12/22/11 20:15	1
Cyclohexane	ND	5.4	0.75	ug/Kg			12/22/11 20:15	1
Dichlorodifluoromethane	ND	5.4	0.45	ug/Kg	~		12/22/11 20:15	1
Ethylbenzene	ND	5.4	0.37	ug/Kg	48		12/22/11 20:15	1
sopropylbenzene	ND	5.4	0.81	ug/Kg			12/22/11 20:15	1
Methyl acetate	ND	5.4	1.0	ug/Kg			12/22/11 20:15	1
Methyl tert-butyl ether	ND	5.4	0.53	ug/Kg	£.)		12/22/11 20:15	1
Vethylcyclohexane	ND	5.4	0.82	ug/Kg	122		12/22/11 20:15	
Methylene Chloride	ND	5.4	2.5	ug/Kg	ø		12/22/11 20:15	1
Styrene	ND	5.4		ug/Kg	a		12/22/11 20:15	1
Tetrachloroethene	ND	5.4	0.72	ug/Kg	D.		12/22/11 20:15	1
Toluene	ND	5.4	0.41	ug/Kg	ž¢		12/22/11 20:15	1
rans-1,2-Dichloroethene	ND	5.4	0.56	ug/Kg	1		12/22/11 20:15	1
rans-1,3-Dichloropropene	ND	5.4		ug/Kg	5		12/22/11 20:15	1
Frichloroethene	ND	5.4		ug/Kg	27		12/22/11 20:15	1
Trichlorofluoromethane	ND	5.4		ug/Kg	-		12/22/11 20:15	1
/inyl chloride	ND	5.4		ug/Kg	1.2		12/22/11 20:15	1
Kylenes, Total	ND	11		ug/Kg			12/22/11 20:15	1

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners

# Client Sample ID: EE4 (2-4) Date Collected: 12/15/11 10:55 Date Received: 12/21/11 11:00

i.

TestAmerica Job ID: 480-14343-1

### Lab Sample ID: 480-14343-2 Matrix: Solid Percent Solids: 87.1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100	64 - 126	1	12/22/11 20:15	1
Toluene-d8 (Surr)	102	71 - 125		12/22/11 20:15	1
4-Bromofluorobenzene (Surr)	112	72 - 126		12/22/11 20:15	1

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners TestAmerica Job ID: 480-14343-1

### Client Sample ID: EE4 (4-6) Date Collected: 12/15/11 11:03 Date Received: 12/21/11 11:00

Lab Sample ID: 480-14343-3 Matrix: Solid Percent Solids: 89.2

Nethod: 8260B - Volatile Organic C Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	c Analyzed	Dil Fa
,1,1-Trichloroethane	ND	5.2	0.38	ug/Kg	ia -		12/22/11 20:40	
,1,2,2-Tetrachloroethane	ND	5.2	0.85	ug/Kg	12.		12/22/11 20:40	2
,1,2-Trichloroethane	ND	5.2	0.68	ug/Kg	- 10		12/22/11 20:40	- 19
,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.2	1.2	ug/Kg			12/22/11 20:40	1.9
,1-Dichloroethane	ND	5.2	0.64	ug/Kg			12/22/11 20:40	1.12
,1-Dichloroethene	ND	5.2	0.64	ug/Kg	.e.]		12/22/11 20:40	
,2,4-Trichlorobenzene	ND	5.2	0.32	ug/Kg	Li.		12/22/11 20:40	1.13
,2-Dibromo-3-Chloropropane	ND	5.2	2.6	ug/Kg	ø		12/22/11 20:40	
,2-Dibromoethane	ND	5.2	0.67	ug/Kg	α		12/22/11 20:40	
,2-Dichlorobenzene	ND	5.2	0.41	ug/Kg	1.57		12/22/11 20:40	
,2-Dichloroethane	ND	5.2	0.26	ug/Kg			12/22/11 20:40	
,2-Dichloropropane	ND	5.2	2.6	ug/Kg	Ø		12/22/11 20:40	
,3-Dichlorobenzene	ND	5.2	0.27	ug/Kg	α		12/22/11 20:40	
,4-Dichlorobenzene	ND	5.2	0.73	ug/Kg	52		12/22/11 20:40	
-Hexanone	ND	26	2.6	ug/Kg	a		12/22/11 20:40	
-Butanone (MEK)	ND	26	1.9	ug/Kg	-8		12/22/11 20:40	
-Methyl-2-pentanone (MIBK)	ND	26	1.7	ug/Kg	1		12/22/11 20:40	-
cetone	ND	26	4.4	ug/Kg	4		12/22/11 20:40	
enzene	ND	5.2	0.26	ug/Kg	Ø		12/22/11 20:40	
romodichloromethane	ND	5.2	0.70	ug/Kg	ωź		12/22/11 20:40	
romoform	ND	5.2	2.6	ug/Kg	- 10.		12/22/11 20:40	
romomethane	ND	5.2	0.47	ug/Kg	- 0.		12/22/11 20:40	
arbon disulfide	ND	5.2	2.6	ug/Kg	<b>.</b>		12/22/11 20:40	
arbon tetrachloride	ND	5.2	0.51	ug/Kg	4		12/22/11 20:40	
hlorobenzene	ND	5.2	0.69	ug/Kg	17		12/22/11 20:40	
ibromochloromethane	ND	5.2	0.67	ug/Kg	11		12/22/11 20:40	
hloroethane	ND	5.2	1.2	ug/Kg	m		12/22/11 20:40	
hloroform	ND	5.2	0.32	ug/Kg	D.		12/22/11 20:40	
hloromethane	ND	5.2	0.32	ug/Kg	4		12/22/11 20:40	
s-1,2-Dichloroethene	ND	5.2	0.67	ug/Kg	Lî		12/22/11 20:40	
is-1,3-Dichloropropene	ND	5.2	0.75	ug/Kg	1		12/22/11 20:40	
yclohexane	ND	5.2	0.73	ug/Kg	$\Gamma_{c}^{\prime}$		12/22/11 20:40	
ichlorodifluoromethane	ND	5.2	0.43	ug/Kg	~h		12/22/11 20:40	
thylbenzene	ND	5.2		ug/Kg	α		12/22/11 20:40	-
opropylbenzene	ND	5.2		ug/Kg	Ø		12/22/11 20:40	
lethyl acetate	ND	5.2	0.97	ug/Kg	ø		12/22/11 20:40	
lethyl tert-butyl ether	ND	5.2	0.51	ug/Kg	ā.		12/22/11 20:40	
lethylcyclohexane	ND	5.2		ug/Kg	100		12/22/11 20:40	
ethylene Chloride	ND	5.2		ug/Kg	51		12/22/11 20:40	
tyrene	ND	5.2		ug/Kg	-8		12/22/11 20:40	
etrachloroethene	ND	5.2		ug/Kg	38		12/22/11 20:40	
bluene	ND	5.2		ug/Kg	72		12/22/11 20:40	
ans-1,2-Dichloroethene	ND	5.2		ug/Kg			12/22/11 20:40	-
ans-1,3-Dichloropropene	ND	5.2		ug/Kg			12/22/11 20:40	-
richloroethene	ND	5.2		ug/Kg				
richlorofluoromethane	ND	5.2					12/22/11 20:40	
				ug/Kg	- 22		12/22/11 20:40	
inyl chloride	ND ND	5.2		ug/Kg ug/Kg			12/22/11 20:40	4

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners

### Client Sample ID: EE4 (4-6) Date Collected: 12/15/11 11:03 Date Received: 12/21/11 11:00

TestAmerica Job ID: 480-14343-1

# Lab Sample ID: 480-14343-3 Matrix: Solid

Percent Solids: 89.2

4

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99	64 - 126		12/22/11 20:40	1
Toluene-d8 (Surr)	102	71 - 125		12/22/11 20:40	1
4-Bromofluorobenzene (Surr)	111	72 - 126		12/22/11 20:40	1

TestAmerica Buffalo 12/30/2011

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners

TestAmerica Job ID: 480-14343-1

### Client Sample ID: EE4 (6-8) Date Collected: 12/15/11 11:10 Date Received: 12/21/11 11:00

Lab Sample ID: 480-14343-4 Matrix: Solid Percent Solids: 85.0

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND	5.7	0.42	ug/Kg			12/22/11 21:06	
1,1,2,2-Tetrachloroethane	ND	5.7	0.93	ug/Kg	L,		12/22/11 21:06	
1,1,2-Trichloroethane	ND	5.7	0.75	ug/Kg	41		12/22/11 21:06	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.7	1.3	ug/Kg	1		12/22/11 21:06	
1,1-Dichloroethane	ND	5.7	0.70	ug/Kg			12/22/11 21:06	
1,1-Dichloroethene	ND	5.7	0.70	ug/Kg			12/22/11 21:06	
1,2,4-Trichlorobenzene	ND	5.7	0.35	ug/Kg			12/22/11 21:06	
,2-Dibromo-3-Chloropropane	ND	5.7	2.9	ug/Kg	1.11		12/22/11 21:06	
,2-Dibromoethane	ND	5.7	0.74	ug/Kg	1.11		12/22/11 21:06	
,2-Dichlorobenzene	ND	5.7	0.45	ug/Kg	152		12/22/11 21:06	
,2-Dichloroethane	ND	5.7	0.29	ug/Kg	.427		12/22/11 21:06	
,2-Dichloropropane	ND	5.7	2.9	ug/Kg			12/22/11 21:06	
,3-Dichlorobenzene	ND	5.7	0.29	ug/Kg	Ø		12/22/11 21:06	
,4-Dichlorobenzene	ND	5.7	0.80	ug/Kg	a		12/22/11 21:06	
-Hexanone	ND	29	2.9	ug/Kg	12		12/22/11 21:06	
-Butanone (MEK)	ND	29	2.1	ug/Kg			12/22/11 21:06	
-Methyl-2-pentanone (MIBK)	ND	29	1.9	ug/Kg			12/22/11 21:06	
cetone	ND	29	4.8	ug/Kg	2		12/22/11 21:06	
enzene	ND	5.7	0.28	ug/Kg			12/22/11 21:06	
romodichloromethane	ND	5.7	0.77	ug/Kg	2		12/22/11 21:06	
romoform	ND	5.7	2.9	ug/Kg	3		12/22/11 21:06	
romomethane	ND	5.7	0.52	ug/Kg	4		12/22/11 21:06	
arbon disulfide	ND	5.7	2.9	ug/Kg	a		12/22/11 21:06	
arbon tetrachloride	ND	5.7	0.55	ug/Kg	ß		12/22/11 21:06	
chlorobenzene	ND	5.7	0.76	ug/Kg	-1		12/22/11 21:06	
bioromochloromethane	ND	5.7	0.73	ug/Kg			12/22/11 21:06	
chloroethane	ND	5.7	1.3	ug/Kg	Ц.		12/22/11 21:06	
hloroform	ND	5.7	0.35	ug/Kg	5		12/22/11 21:06	
Chloromethane	ND	5.7	0.35	ug/Kg			12/22/11 21:06	
is-1,2-Dichloroethene	ND	5.7	0.73	ug/Kg	8		12/22/11 21:06	
is-1,3-Dichloropropene	ND	5.7	0.83	ug/Kg			12/22/11 21:06	
cyclohexane	ND	5.7	0.80	ug/Kg	10		12/22/11 21:06	
lichlorodifluoromethane	ND	5.7	0.47	ug/Kg	c		12/22/11 21:06	
thylbenzene	ND	5.7	0.40	ug/Kg			12/22/11 21:06	
sopropylbenzene	ND	5.7	0.86	ug/Kg			12/22/11 21:06	
lethyl acetate	ND	5.7	1.1	ug/Kg			12/22/11 21:06	
lethyl tert-butyl ether	ND	5.7	0.56	ug/Kg	a		12/22/11 21:06	
lethylcyclohexane	ND	5.7	0.87	ug/Kg	ø		12/22/11 21:06	
lethylene Chloride	2.8 J	5.7	2.6	ug/Kg			12/22/11 21:06	
tyrene	ND	5.7	0.29	ug/Kg			12/22/11 21:06	
etrachloroethene	ND	5.7	0.77	ug/Kg			12/22/11 21:06	
oluene	ND	5.7	0.43	ug/Kg			12/22/11 21:06	
ans-1,2-Dichloroethene	ND	5.7	0,59	ug/Kg			12/22/11 21:06	
ans-1,3-Dichloropropene	ND	5.7		ug/Kg	-10		12/22/11 21:06	
richloroethene	ND	5.7		ug/Kg			12/22/11 21:06	
richlorofluoromethane	ND	5.7		ug/Kg	- 22		12/22/11 21:06	
inyl chloride	ND	5.7		ug/Kg			12/22/11 21:06	
Kylenes, Total	ND	11		ug/Kg			12/22/11 21:06	

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners

### Client Sample ID: EE4 (6-8) Date Collected: 12/15/11 11:10 Date Received: 12/21/11 11:00

### TestAmerica Job ID: 480-14343-1

### Lab Sample ID: 480-14343-4 Matrix: Solid Percent Solids: 85.0

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96	64 - 126		12/22/11 21:06	11.11
Toluene-d8 (Surr)	102	71 - 125		12/22/11 21:06	1
4-Bromofluorobenzene (Surr)	109	72 - 126		12/22/11 21:06	

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners TestAmerica Job ID: 480-14343-1

### Client Sample ID: EE4 (8-10) Date Collected: 12/15/11 11:19 Date Received: 12/21/11 11:00

Lab Sample ID: 480-14343-5 Matrix: Solid

Percent Solids: 92.2

Method: 8260B - Volatile Organic Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	5.2	0.38	ug/Kg	j.		12/22/11 21:31	1
1,1,2,2-Tetrachloroethane	ND	5.2	0.85	ug/Kg	44 4		12/22/11 21:31	1
1,1,2-Trichloroethane	ND	5.2	0.68	ug/Kg	42		12/22/11 21:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.2	1.2	ug/Kg	3.5		12/22/11 21:31	1
1,1-Dichloroethane	ND	5.2	0.64	ug/Kg	ι.:		12/22/11 21:31	1
1,1-Dichloroethene	ND	5.2	0.64	ug/Kg	γ.		12/22/11 21:31	1
1,2,4-Trichlorobenzene	ND	5.2	0.32	ug/Kg	×.		12/22/11 21:31	1
1,2-Dibromo-3-Chloropropane	ND	5.2	2.6	ug/Kg	123		12/22/11 21:31	1
1,2-Dibromoethane	ND	5.2	0.67	ug/Kg			12/22/11 21:31	1
1,2-Dichlorobenzene	ND	5.2	0.41	ug/Kg	2.1	. A	12/22/11 21:31	1
1,2-Dichloroethane	ND	5.2	0.26	ug/Kg	118		12/22/11 21:31	1
1,2-Dichloropropane	ND	5.2	2.6	ug/Kg	ç		12/22/11 21:31	1
1,3-Dichlorobenzene	ND	5.2	0.27	ug/Kg	α		12/22/11 21:31	1
1,4-Dichlorobenzene	ND	5.2	0.73	ug/Kg			12/22/11 21:31	1
2-Hexanone	ND	26	2.6	ug/Kg	α		12/22/11 21:31	1
2-Butanone (MEK)	ND	26	1.9	ug/Kg	12		12/22/11 21:31	1
4-Methyl-2-pentanone (MIBK)	ND	26	1.7	ug/Kg	a		12/22/11 21:31	1
Acetone	ND	26	4.4	ug/Kg	4		12/22/11 21:31	1
Benzene	ND	5.2	0.26	ug/Kg	13		12/22/11 21:31	1
Bromodichloromethane	ND	5.2	0.70	ug/Kg	1		12/22/11 21:31	1
Bromoform	ND	5.2	2.6	ug/Kg	a		12/22/11 21:31	1
Bromomethane	ND	5.2	0.47	ug/Kg	0.0		12/22/11 21:31	1
Carbon disulfide	ND	5.2	2.6	ug/Kg	Ω		12/22/11 21:31	1
Carbon tetrachloride	ND	5.2	0.51	ug/Kg	a		12/22/11 21:31	1
Chlorobenzene	ND	5.2	0.69	ug/Kg	α		12/22/11 21:31	1
Dibromochloromethane	ND	5.2	0.67	ug/Kg	α		12/22/11 21:31	1
Chloroethane	ND	5.2	1.2	ug/Kg	α		12/22/11 21:31	1
Chloroform	ND	5.2	0.32	ug/Kg	ø		12/22/11 21:31	1
Chloromethane	ND	5.2	0.32	ug/Kg	a		12/22/11 21:31	1
cis-1,2-Dichloroethene	ND	5.2	0.67	ug/Kg	2		12/22/11 21:31	1
cis-1,3-Dichloropropene	ND	5.2	0.75	ug/Kg	1.1		12/22/11 21:31	1
Cyclohexane	ND	5.2	0,73	ug/Kg	-2		12/22/11 21:31	1
Dichlorodifluoromethane	ND	5.2	0.43	ug/Kg	ž		12/22/11 21:31	đ
Ethylbenzene	ND	5.2	0.36	ug/Kg			12/22/11 21:31	1
Isopropylbenzene	ND	5.2	0.79	ug/Kg	.3		12/22/11 21:31	1
Methyl acetate	ND	5.2	0.98	ug/Kg	p		12/22/11 21:31	1
Methyl tert-butyl ether	ND	5.2	0.51	ug/Kg	Ø		12/22/11 21:31	1
Methylcyclohexane	ND	5.2	0.80	ug/Kg	a		12/22/11 21:31	1
Methylene Chloride	2.4 J	5.2		ug/Kg	<u>r.</u>		12/22/11 21:31	1
Styrene	ND	5.2		ug/Kg	a		12/22/11 21:31	1
Tetrachloroethene	1.6 J	5.2		ug/Kg	- 52		12/22/11 21:31	1
Toluene	ND	5.2		ug/Kg	a		12/22/11 21:31	1
trans-1,2-Dichloroethene	ND	5.2		ug/Kg	a		12/22/11 21:31	1
trans-1,3-Dichloropropene	ND	5.2		ug/Kg	- 6		12/22/11 21:31	1
Trichloroethene	ND	5.2		ug/Kg	10		12/22/11 21:31	1
Trichlorofluoromethane	ND	5.2		ug/Kg	ų.		12/22/11 21:31	1
Vinyl chloride	ND	5.2		ug/Kg	~		12/22/11 21:31	1
Xylenes, Total	ND	10		ug/Kg	0.1		12/22/11 21:31	1

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners

### Client Sample ID: EE4 (8-10) Date Collected: 12/15/11 11:19 Date Received: 12/21/11 11:00

ü

TestAmerica Job ID: 480-14343-1

### Lab Sample ID: 480-14343-5 Matrix: Solid Percent Solids: 92.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		64 - 126		12/22/11 21:31	1
Toluene-d8 (Surr)	104		71 - 125		12/22/11 21:31	1
4-Bromofluorobenzene (Surr)	111		72 - 126		12/22/11 21:31	1

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners TestAmerica Job ID: 480-14343-1

### Client Sample ID: EE4 (10-12) Date Collected: 12/15/11 11:23 Date Received: 12/21/11 11:00

Lab Sample ID: 480-14343-6 Matrix: Solid Percent Solids: 85.9

Analyte	Compounds (GC/MS) Result Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND	5.6	0.41	ug/Kg	18		12/22/11 21:57	2
1,1,2,2-Tetrachloroethane	ND	5.6	0.91	ug/Kg	10		12/22/11 21:57	
1,1,2-Trichloroethane	ND	5.6	0.73	ug/Kg	ц.		12/22/11 21:57	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.6	1.3	ug/Kg	ø		12/22/11 21:57	
1,1-Dichloroethane	ND	5.6	0.68	ug/Kg	¥.(		12/22/11 21:57	
1,1-Dichloroethene	ND	5.6	0.68	ug/Kg	57		12/22/11 21:57	
1,2,4-Trichlorobenzene	ND	5.6	0.34	ug/Kg	107		12/22/11 21:57	
1,2-Dibromo-3-Chloropropane	ND	5.6	2.8	ug/Kg	3.		12/22/11 21:57	
1,2-Dibromoethane	ND	5.6	0.72	ug/Kg	Se.		12/22/11 21:57	
1,2-Dichlorobenzene	ND	5.6	0.44	ug/Kg	32,		12/22/11 21:57	
1,2-Dichloroethane	ND	5.6	0.28	ug/Kg	12		12/22/11 21:57	
1,2-Dichloropropane	ND	5.6	2.8	ug/Kg	a		12/22/11 21:57	
1,3-Dichlorobenzene	ND	5.6	0.29	ug/Kg	(11)		12/22/11 21:57	
I,4-Dichlorobenzene	ND	5.6	0.78	ug/Kg	-2		12/22/11 21:57	
2-Hexanone	ND	28	2.8	ug/Kg			12/22/11 21:57	
2-Butanone (MEK)	ND	28	2.0	ug/Kg	a		12/22/11 21:57	
-Methyl-2-pentanone (MIBK)	ND	28	1.8	ug/Kg	\$		12/22/11 21:57	
Acetone	ND	28	4.7	ug/Kg	15		12/22/11 21:57	
Benzene	ND	5.6	0.27	ug/Kg	10		12/22/11 21:57	
Bromodichloromethane	ND	5.6	0.75	ug/Kg			12/22/11 21:57	
Bromoform	ND	5.6	2.8	ug/Kg	IJ		12/22/11 21:57	
Bromomethane	ND	5.6	0.50	ug/Kg	-11		12/22/11 21:57	
Carbon disulfide	ND	5.6	2.8	ug/Kg	- Q2		12/22/11 21:57	
Carbon tetrachloride	ND	5.6	0.54	ug/Kg	11		12/22/11 21:57	
Chlorobenzene	ND	5.6		ug/Kg	10 - 1		12/22/11 21:57	
Dibromochloromethane	ND	5.6	0.71	ug/Kg	10.0		12/22/11 21:57	
Chloroethane	ND	5.6	1.3	ug/Kg	-10		12/22/11 21:57	
Chloroform	ND	5.6	0.35	ug/Kg			12/22/11 21:57	
Chloromethane	ND	5.6	0.34	ug/Kg			12/22/11 21:57	
sis-1,2-Dichloroethene	ND	5.6	0.71	ug/Kg			12/22/11 21:57	
sis-1,3-Dichloropropene	ND	5.6	0.80	ug/Kg	40		12/22/11 21:57	
Cyclohexane	ND	5.6	0.78	ug/Kg	0		12/22/11 21:57	
Dichlorodifluoromethane	ND	5.6	0.46	ug/Kg			12/22/11 21:57	
Ethylbenzene	ND	5.6	0.39	ug/Kg			12/22/11 21:57	
sopropylbenzene	ND	5.6	0.84	ug/Kg	1		12/22/11 21:57	
Methyl acetate	ND	5.6	1.0	ug/Kg	Ð		12/22/11 21:57	
Methyl tert-butyl ether	ND	5.6		ug/Kg	Ø		12/22/11 21:57	
Methylcyclohexane	ND	5.6		ug/Kg	ø		12/22/11 21:57	
Aethylene Chloride	ND	5.6		ug/Kg	022		12/22/11 21:57	
Styrene	ND	5.6	0.28	ug/Kg			12/22/11 21:57	
etrachloroethene	2.1 J	5.6		ug/Kg			12/22/11 21:57	
oluene	ND	5.6		ug/Kg			12/22/11 21:57	
rans-1,2-Dichloroethene	ND	5.6		ug/Kg	£		12/22/11 21:57	
rans-1,3-Dichloropropene	ND	5.6		ug/Kg	27		12/22/11 21:57	
richloroethene	ND	5.6		ug/Kg				
Trichlorofluoromethane	ND	5.6		ug/Kg			12/22/11 21:57	
/inyl chloride	ND	5.6		ug/Kg ug/Kg			12/22/11 21:57	
(ylenes, Total	ND	5.6		ug/Kg ug/Kg	-		12/22/11 21:57 12/22/11 21:57	

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners

### Client Sample ID: EE4 (10-12) Date Collected: 12/15/11 11:23 Date Received: 12/21/11 11:00

TestAmerica Job ID: 480-14343-1

### Lab Sample ID: 480-14343-6 Matrix: Solid Percent Solids: 85.9

Surrogate	%Recovery Qua	lifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98	64 - 126		12/22/11 21:57	1
Toluene-d8 (Surr)	103	71 - 125		12/22/11 21:57	1
4-Bromofluorobenzene (Surr)	110	72 - 126		12/22/11 21:57	

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners

TestAmerica Job ID: 480-14343-1

### Client Sample ID: EE3 (0-2) Date Collected: 12/16/11 09:24 Date Received: 12/21/11 11:00

Lab Sample ID: 480-14343-7 Matrix: Solid

Percent Solids: 84.0

Method: 8260B - Volatile Organic C Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	5.8	0.42	ug/Kg	Ø		12/29/11 14:30	1
1,1,2,2-Tetrachloroethane	ND	5.8	0.94	ug/Kg	.5		12/29/11 14:30	1
1,1,2-Trichloroethane	ND	5.8	0.75	ug/Kg	Ø		12/29/11 14:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.8	1.3	ug/Kg	Ci,		12/29/11 14:30	1
1,1-Dichloroethane	ND	5.8	0.71	ug/Kg	21		12/29/11 14:30	1
1,1-Dichloroethene	ND	5.8	0.71	ug/Kg	=7		12/29/11 14:30	1
1,2,4-Trichlorobenzene	ND	5.8	0.35	ug/Kg	11		12/29/11 14:30	1
1,2-Dibromo-3-Chloropropane	ND	5.8	2.9	ug/Kg	-		12/29/11 14:30	1
1,2-Dibromoethane	ND	5.8	0.74	ug/Kg	100		12/29/11 14:30	1
1,2-Dichlorobenzene	ND	5.8	0.45	ug/Kg	81		12/29/11 14:30	1
1,2-Dichloroethane	ND	5.8	0.29	ug/Kg	Sec.		12/29/11 14:30	1
1,2-Dichloropropane	ND	5.8	2.9	ug/Kg	Le		12/29/11 14:30	1
1,3-Dichlorobenzene	ND	5.8	0.30	ug/Kg			12/29/11 14:30	1
1,4-Dichlorobenzene	ND	5.8	0.81	ug/Kg	- a		12/29/11 14:30	1
2-Hexanone	ND	29	2.9	ug/Kg	3		12/29/11 14:30	1
2-Butanone (MEK)	ND	29	2.1	ug/Kg	Ø		12/29/11 14:30	1
4-Methyl-2-pentanone (MIBK)	ND	29	1.9	ug/Kg	Ø		12/29/11 14:30	1
Acetone	ND	29	4.9	ug/Kg	J.		12/29/11 14:30	1
Benzene	ND	5.8	0.28	ug/Kg	4		12/29/11 14:30	1
Bromodichloromethane	ND	5.8	0.78	ug/Kg	1		12/29/11 14:30	1
Bromoform	ND	5.8	2.9	ug/Kg	24		12/29/11 14:30	1
Bromomethane	ND	5.8	0.52	ug/Kg	ø		12/29/11 14:30	1
Carbon disulfide	ND	5.8	2.9	ug/Kg	-		12/29/11 14:30	1
Carbon tetrachloride	ND	5.8	0.56	ug/Kg	-		12/29/11 14:30	1
Chlorobenzene	ND	5.8	0.77	ug/Kg	4		12/29/11 14:30	1
Dibromochloromethane	ND	5.8	0.74	ug/Kg	4î		12/29/11 14:30	1
Chloroethane	ND	5.8	1.3	ug/Kg			12/29/11 14:30	1
Chloroform	ND	5.8	0.36	ug/Kg	13		12/29/11 14:30	1
Chloromethane	ND	5.8	0.35	ug/Kg	÷.		12/29/11 14:30	1
cis-1,2-Dichloroethene	ND	5.8	0.74	ug/Kg			12/29/11 14:30	1
cis-1,3-Dichloropropene	ND	5.8	0.84	ug/Kg	ä		12/29/11 14:30	1
Cyclohexane	ND	5.8	0.81	ug/Kg	10.		12/29/11 14:30	1
Dichlorodifluoromethane	ND	5.8	0.48	ug/Kg	a		12/29/11 14:30	1
Ethylbenzene	ND	5.8	0.40	ug/Kg			12/29/11 14:30	1
Isopropylbenzene	ND	5.8	0.87	ug/Kg	-02		12/29/11 14:30	1
Methyl acetate	ND	5.8	1.1	ug/Kg			12/29/11 14:30	1
Methyl tert-butyl ether	ND	5.8	0.57	ug/Kg	10		12/29/11 14:30	1
Methylcyclohexane	ND	5.8	0.88	ug/Kg	127		12/29/11 14:30	1
Methylene Chloride	5.7 J	5.8	2.7	ug/Kg	10		12/29/11 14:30	1
Styrene	ND	5.8	0.29	ug/Kg	ø		12/29/11 14:30	1
Tetrachloroethene	ND	5.8	0.78	ug/Kg			12/29/11 14:30	1
Toluene	ND	5.8	0.44	ug/Kg	52		12/29/11 14:30	1
trans-1,2-Dichloroethene	ND	5.8	0.60	ug/Kg	1.2		12/29/11 14:30	1
trans-1,3-Dichloropropene	ND	5.8	2.6	ug/Kg	ы		12/29/11 14:30	1
Trichloroethene	ND	5.8		ug/Kg	12		12/29/11 14:30	1
Trichlorofluoromethane	ND	5.8		ug/Kg			12/29/11 14:30	1
Vinyl chloride	ND	5.8		ug/Kg	ø		12/29/11 14:30	1
Xylenes, Total	ND	12		ug/Kg	σ		12/29/11 14:30	1

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners

### Client Sample ID: EE3 (0-2) Date Collected: 12/16/11 09:24 Date Received: 12/21/11 11:00

ï.

TestAmerica Job ID: 480-14343-1

# Lab Sample ID: 480-14343-7 Matrix: Solid

Percent Solids: 84.0

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98	64 - 126		12/29/11 14:30	1
Toluene-d8 (Surr)	97	71 - 125		12/29/11 14:30	1
4-Bromofluorobenzene (Surr)	117	72 - 126		12/29/11 14:30	1

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners TestAmerica Job ID: 480-14343-1

### Client Sample ID: EE3 (2-4) Date Collected: 12/16/11 09:38 Date Received: 12/21/11 11:00

# Lab Sample ID: 480-14343-8

Matrix: Solid Percent Solids: 84.9

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	5.7	0.41	ug/Kg	13	-	12/29/11 14:55	
1,1,2,2-Tetrachloroethane	ND	5.7	0.92	ug/Kg	a		12/29/11 14:55	- 18
1,1,2-Trichloroethane	ND	5.7	0.74	ug/Kg	<u></u>		12/29/11 14:55	- 13
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.7	1.3	ug/Kg			12/29/11 14:55	- 4
1,1-Dichloroethane	ND	5.7	0.69	ug/Kg			12/29/11 14:55	1
1,1-Dichloroethene	ND	5.7	0.70	ug/Kg	- 18		12/29/11 14:55	1
1,2,4-Trichlorobenzene	ND	5.7	0.35	ug/Kg	- 12		12/29/11 14:55	1
1,2-Dibromo-3-Chloropropane	ND	5.7	2.8	ug/Kg	17		12/29/11 14:55	1
1,2-Dibromoethane	ND	5.7	0.73	ug/Kg			12/29/11 14:55	E a
1,2-Dichlorobenzene	ND	5.7	0.44	ug/Kg	1P		12/29/11 14:55	1.1
1,2-Dichloroethane	ND	5.7	0.29	ug/Kg	- 15		12/29/11 14:55	1
1,2-Dichloropropane	ND	5.7	2.8	ug/Kg	α		12/29/11 14:55	1
1,3-Dichlorobenzene	ND	5.7	0.29	ug/Kg			12/29/11 14:55	1
1,4-Dichlorobenzene	ND	5.7	0.80	ug/Kg	- 181		12/29/11 14:55	1
2-Hexanone	ND	28	2.8	ug/Kg	52		12/29/11 14:55	1
2-Butanone (MEK)	ND	28	2.1	ug/Kg	ø		12/29/11 14:55	1
4-Methyl-2-pentanone (MIBK)	ND	28	1.9	ug/Kg	Ľ		12/29/11 14:55	1
Acetone	ND	28	4.8	ug/Kg	a		12/29/11 14:55	1
Benzene	ND	5.7	0.28	ug/Kg	10.1		12/29/11 14:55	1
Bromodichloromethane	ND	5.7	0.76	ug/Kg	100		12/29/11 14:55	1
Bromoform	ND	5.7	2.8	ug/Kg	\$7		12/29/11 14:55	1
Bromomethane	ND	5.7	0.51	ug/Kg	a		12/29/11 14:55	1
Carbon disulfide	ND	5.7	2.8	ug/Kg	1 k		12/29/11 14:55	1
Carbon tetrachloride	ND	5.7	0.55	ug/Kg	α		12/29/11 14:55	1
Chlorobenzene	ND	5.7	0.75	ug/Kg	÷7		12/29/11 14:55	1
Dibromochloromethane	ND	5.7	0.73	ug/Kg	1		12/29/11 14:55	1
Chloroethane	ND	5.7	1.3	ug/Kg	¢,		12/29/11 14:55	1
Chloroform	ND	5.7	0.35	ug/Kg	÷		12/29/11 14:55	1
Chloromethane	ND	5.7	0.34	ug/Kg			12/29/11 14:55	1
sis-1,2-Dichloroethene	ND	5.7	0.73	ug/Kg	1		12/29/11 14:55	1
sis-1,3-Dichloropropene	ND	5.7	0.82	ug/Kg	22		12/29/11 14:55	1
Syclohexane	ND	5.7	0.80	ug/Kg	п		12/29/11 14:55	1
Dichlorodifluoromethane	ND	5.7	0.47	ug/Kg	ø		12/29/11 14:55	1
Ethylbenzene	ND	5.7	0.39	ug/Kg	ō		12/29/11 14:55	1
sopropylbenzene	ND	5.7	0.86	ug/Kg	17		12/29/11 14:55	1
Methyl acetate	ND	5.7	1.1	ug/Kg	~		12/29/11 14:55	1
Nethyl tert-butyl ether	ND	5.7	0.56	ug/Kg	ø		12/29/11 14:55	1
Methylcyclohexane	ND	5.7	0.86	ug/Kg	- di		12/29/11 14:55	1
Nethylene Chloride	5.1 J	5.7		ug/Kg			12/29/11 14:55	1
Styrene	ND	5.7		ug/Kg			12/29/11 14:55	1
etrachloroethene	ND	5.7	0.76	ug/Kg			12/29/11 14:55	1
oluene	ND	5.7	0.43	ug/Kg	31		12/29/11 14:55	1
ans-1,2-Dichloroethene	ND	5.7		ug/Kg	-		12/29/11 14:55	1
ans-1,3-Dichloropropene	ND	5.7		ug/Kg	ø		12/29/11 14:55	1
richloroethene	ND	5.7		ug/Kg	2		12/29/11 14:55	1
richlorofluoromethane	ND	5.7		ug/Kg	10		12/29/11 14:55	1
'inyl chloride	ND	5.7		ug/Kg			12/29/11 14:55	4
Kylenes, Total	ND	11		ug/Kg	23		12/29/11 14:55	1

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners

### Client Sample ID: EE3 (2-4) Date Collected: 12/16/11 09:38 Date Received: 12/21/11 11:00

TestAmerica Job ID: 480-14343-1

# Lab Sample ID: 480-14343-8 Matrix: Solid Percent Solids: 84.9

Surrogate	%Recovery Qualifier	Limits	- C	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95	64 - 126			12/29/11 14:55	- 1
Toluene-d8 (Surr)	98	71 - 125			12/29/11 14:55	1
4-Bromofluorobenzene (Surr)	118	72 - 126			12/29/11 14:55	1

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners TestAmerica Job ID: 480-14343-1

### Client Sample ID: EE3 (4-5) Date Collected: 12/16/11 10:11 Date Received: 12/21/11 11:00

Lab Sample ID: 480-14343-9 Matrix: Solid

Percent Solids: 93.9

Method: 8260B - Volatile Organic ( Analyte	Result Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	5.1	0.37	ug/Kg			12/29/11 15:21	1
1,1,2,2-Tetrachloroethane	ND	5.1	0.83	ug/Kg			12/29/11 15:21	1
1,1,2-Trichloroethane	ND	5.1	0.66	ug/Kg	a		12/29/11 15:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.1	1.2	ug/Kg			12/29/11 15:21	1
1,1-Dichloroethane	ND	5.1	0.62	ug/Kg	1		12/29/11 15:21	1
1,1-Dichloroethene	ND	5.1	0.63	ug/Kg	19		12/29/11 15:21	1
1,2,4-Trichlorobenzene	ND	5.1	0.31	ug/Kg	3.		12/29/11 15:21	1
1,2-Dibromo-3-Chloropropane	ND	5.1	2.6	ug/Kg	2		12/29/11 15:21	1
1,2-Dibromoethane	ND	5.1	0.66	ug/Kg	1.1		12/29/11 15:21	1
1,2-Dichlorobenzene	ND	5.1	0.40	ug/Kg	ø		12/29/11 15:21	1
1,2-Dichloroethane	ND	5.1	0.26	ug/Kg ·	1		12/29/11 15:21	1
1,2-Dichloropropane	ND	5.1	2.6	ug/Kg	5		12/29/11 15:21	1
1,3-Dichlorobenzene	ND	5.1	0.26	ug/Kg	÷.		12/29/11 15:21	1
1,4-Dichlorobenzene	ND	5.1	0.72	ug/Kg	a		12/29/11 15:21	1
2-Hexanone	ND	26	2.6	ug/Kg	-		12/29/11 15:21	1
2-Butanone (MEK)	ND	26	1.9	ug/Kg	α		12/29/11 15:21	1
4-Methyl-2-pentanone (MIBK)	ND	26	1.7	ug/Kg	L.		12/29/11 15:21	1
Acetone	ND	26	4.3	ug/Kg			12/29/11 15:21	1
Benzene	ND	5.1	0.25	ug/Kg			12/29/11 15:21	1
Bromodichloromethane	ND	5.1	0.68	ug/Kg	a		12/29/11 15:21	1
Bromoform	ND	5.1	2.6	ug/Kg	:2		12/29/11 15:21	1
Bromomethane	ND	5.1	0.46	ug/Kg	a		12/29/11 15:21	1
Carbon disulfide	ND	5.1	2.6	ug/Kg	W.		12/29/11 15:21	1
Carbon tetrachloride	ND	5.1	0.49	ug/Kg	Ø		12/29/11 15:21	1
Chlorobenzene	ND	5.1	0.67	ug/Kg	a		12/29/11 15:21	1
Dibromochloromethane	ND	5.1	0.65	ug/Kg	Ø		12/29/11 15:21	1
Chloroethane	ND	5.1	1.2	ug/Kg	12		12/29/11 15:21	1
Chloroform	ND	5.1	0.32	ug/Kg	ø		12/29/11 15:21	1
Chloromethane	ND	5.1	0.31	ug/Kg	a		12/29/11 15:21	1
cis-1,2-Dichloroethene	ND	5.1	0.65	ug/Kg	1.1		12/29/11 15:21	1
cis-1,3-Dichloropropene	ND	5.1	0.74	ug/Kg			12/29/11 15:21	1
Cyclohexane	ND	5.1	0.72	ug/Kg	2		12/29/11 15:21	1
Dichlorodifluoromethane	ND	5.1	0.42	ug/Kg	38		12/29/11 15:21	1
Ethylbenzene	ND	5.1	0.35	ug/Kg	.7		12/29/11 15:21	1
Isopropylbenzene	ND	5.1	0.77	ug/Kg	a		12/29/11 15:21	1
Methyl acetate	ND	5.1	0.95	ug/Kg	1.0		12/29/11 15:21	1
Methyl tert-butyl ether	ND	5.1	0.50	ug/Kg	42		12/29/11 15:21	1
Methylcyclohexane	ND	5.1	0.78	ug/Kg	-03		12/29/11 15:21	1
Methylene Chloride	3.8 J	5.1	2.4	ug/Kg	5		12/29/11 15:21	1
Styrene	ND	5.1	0.26	ug/Kg			12/29/11 15:21	1
Tetrachloroethene	ND	5.1	0.69	ug/Kg	10		12/29/11 15:21	1
Toluene	ND	5.1	0.39	ug/Kg	-17		12/29/11 15:21	1
trans-1,2-Dichloroethene	ND	5.1	0.53	ug/Kg	Ω		12/29/11 15:21	1
trans-1,3-Dichloropropene	ND	5.1	2.2	ug/Kg	~		12/29/11 15:21	1
Trichloroethene	ND	5.1	1.1	ug/Kg			12/29/11 15:21	1
Trichlorofluoromethane	ND	5.1	0.48	ug/Kg	ø		12/29/11 15:21	1
Vinyl chloride	ND	5.1	0.62	ug/Kg	-		12/29/11 15:21	1
Xylenes, Total	ND	10		ug/Kg	72		12/29/11 15:21	1

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners

### Client Sample ID: EE3 (4-5) Date Collected: 12/16/11 10:11 Date Received: 12/21/11 11:00

£

TestAmerica Job ID: 480-14343-1

# Lab Sample ID: 480-14343-9 Matrix: Solid Percent Solids: 93.9

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93	. 64 - 126		12/29/11 15:21	1
Toluene-d8 (Surr)	99	71 - 125		12/29/11 15:21	1
4-Bromofluorobenzene (Surr)	117	72 - 126		12/29/11 15:21	1

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners TestAmerica Job ID: 480-14343-1

### Client Sample ID: EE3 (8-10) Date Collected: 12/16/11 11:44 Date Received: 12/21/11 11:00

Lab Sample ID: 480-14343-10 Matrix: Solid

Method: 8260B - Volatile Organic C Analyte	Result Qualifier	RL	100	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND	5.2	0.38	ug/Kg			12/29/11 15:46	
1,1,2,2-Tetrachloroethane	ND	5.2	0.84	ug/Kg	*		12/29/11 15:46	
1,1,2-Trichloroethane	ND	5.2	0.67	ug/Kg			12/29/11 15:46	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.2	1.2	ug/Kg	r:		12/29/11 15:46	1
1,1-Dichloroethane	ND	5.2	0.63	ug/Kg	~		12/29/11 15:46	
1,1-Dichloroethene	ND	5.2	0.63	ug/Kg	L		12/29/11 15:46	
1,2,4-Trichlorobenzene	ND	5.2	0.32	ug/Kg	12.		12/29/11 15:46	
1,2-Dibromo-3-Chloropropane	ND	5.2	2.6	ug/Kg	32		12/29/11 15:46	
1,2-Dibromoethane	ND	5.2	0.67	ug/Kg	*		12/29/11 15:46	
1,2-Dichlorobenzene	ND	5.2	0.41	ug/Kg	ø		12/29/11 15:46	
1,2-Dichloroethane	ND	5.2	0.26	ug/Kg	a		12/29/11 15:46	3
1,2-Dichloropropane	ND	5.2	2.6	ug/Kg	p		12/29/11 15:46	4
1,3-Dichlorobenzene	ND	5.2	0.27	ug/Kg	4		12/29/11 15:46	
,4-Dichlorobenzene	ND	5.2	0.73	ug/Kg	- 18		12/29/11 15:46	
2-Hexanone	ND	26	2.6	ug/Kg			12/29/11 15:46	1.1.2
2-Butanone (MEK)	ND	26	1.9	ug/Kg	10		12/29/11 15:46	1
-Methyl-2-pentanone (MIBK)	ND	26	1.7	ug/Kg	12		12/29/11 15:46	3
Acetone	ND	26	4.4	ug/Kg	11		12/29/11 15:46	4
Benzene	ND	5.2	0.25	ug/Kg			12/29/11 15:46	1.1
Bromodichloromethane	ND	5.2	0.69	ug/Kg	ø		12/29/11 15:46	
Bromoform	ND	5.2	2.6	ug/Kg	3.		12/29/11 15:46	
romomethane	ND	5.2	0.47	ug/Kg	-32		12/29/11 15:46	1.00
arbon disulfide	ND	5.2	2.6	ug/Kg	67		12/29/11 15:46	
Carbon tetrachloride	ND	5.2	0.50	ug/Kg	-11		12/29/11 15:46	
hlorobenzene	ND	5.2	0.68	ug/Kg	12		12/29/11 15:46	
bioromochloromethane	ND	5.2	0.66	ug/Kg	L.		12/29/11 15:46	
hloroethane	ND	5.2	1.2	ug/Kg	~		12/29/11 15:46	
Chloroform	ND	5.2	0.32	ug/Kg	*		12/29/11 15:46	
hloromethane	ND	5.2	0.31	ug/Kg	ø		12/29/11 15:46	
is-1,2-Dichloroethene	ND	5.2	0.66	ug/Kg	Ð		12/29/11 15:46	
is-1,3-Dichloropropene	ND	5.2	0.75	ug/Kg	Ø		12/29/11 15:46	
Cyclohexane	ND	5.2	0.73	ug/Kg	a		12/29/11 15:46	
Dichlorodifluoromethane	ND	5.2	0.43	ug/Kg	ø		12/29/11 15:46	-
Ithylbenzene	ND	5.2	0.36	ug/Kg	10		12/29/11 15:46	
sopropylbenzene	ND	5.2	0.78	ug/Kg	12		12/29/11 15:46	
Aethyl acetate	ND	5.2	0.96	ug/Kg	122		12/29/11 15:46	
Nethyl tert-butyl ether	ND	5.2	0.51	ug/Kg	25		12/29/11 15:46	
//ethylcyclohexane	ND	5.2		ug/Kg			12/29/11 15:46	
lethylene Chloride	4.9 J	5.2		ug/Kg			12/29/11 15:46	4
styrene	ND	5.2		ug/Kg	2.4		12/29/11 15:46	
etrachloroethene	0.70 J	5.2		ug/Kg			12/29/11 15:46	
oluene	0.50 J	5.2		ug/Kg			12/29/11 15:46	
ans-1,2-Dichloroethene	ND	5.2		ug/Kg			12/29/11 15:46	
rans-1,3-Dichloropropene	ND	5.2		ug/Kg	-		12/29/11 15:46	
richloroethene	ND	5.2	1.1	ug/Kg			12/29/11 15:46	
richlorofluoromethane	ND	5.2		ug/Kg				
/inyl chloride	ND	5.2		ug/Kg	1.00		12/29/11 15:46	
Kylenes, Total	ND	10		ug/Kg ug/Kg	5		12/29/11 15:46 12/29/11 15:46	

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners

### Client Sample ID: EE3 (8-10) Date Collected: 12/16/11 11:44 Date Received: 12/21/11 11:00

### TestAmerica Job ID: 480-14343-1

# Lab Sample ID: 480-14343-10 Matrix: Solid

Percent Solids: 91.8

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94	64 - 126		12/29/11 15:46	1
Toluene-d8 (Surr)	96	71 - 125		12/29/11 15:46	1
4-Bromofluorobenzene (Surr)	116	72 - 126		12/29/11 15:46	1

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners

TestAmerica Job ID: 480-14343-1

### Client Sample ID: EE3 (10-12) Date Collected: 12/16/11 11:50 Date Received: 12/21/11 11:00

# Lab Sample ID: 480-14343-11

Method: 8260B - Volatile Organic ( Analyte	Result Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND ND	5.6	0.41	ug/Kg	—	Ticpurcu	12/29/11 16:12	UITA
1,1,2,2-Tetrachloroethane	ND	5.6	0.91	ug/Kg	ø		12/29/11 16:12	
1.1.2-Trichloroethane	ND	5.6	0.73	ug/Kg	ø		12/29/11 16:12	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.6	1.3	ug/Kg			12/29/11 16:12	
1,1-Dichloroethane	ND	5.6	0.68	ug/Kg			12/29/11 16:12	
1,1-Dichloroethene	ND	5.6	0.68	ug/Kg	1		12/29/11 16:12	
1,2,4-Trichlorobenzene	ND	5.6	0.34	ug/Kg	22		12/29/11 16:12	
1,2-Dibromo-3-Chloropropane	ND	5.6	2.8	ug/Kg	37		12/29/11 16:12	
I,2-Dibromoethane	ND	5.6	0.72	ug/Kg	67		12/29/11 16:12	
I.2-Dichlorobenzene	ND	5.6	0.44	ug/Kg			12/29/11 16:12	
I,2-Dichloroethane	ND	5.6	0.28	ug/Kg	10			
,2-Dichloropropane	ND	5.6	2.8		c		12/29/11 16:12	
,3-Dichlorobenzene	ND	5.6			ø		12/29/11 16:12	
			0.29	ug/Kg	ä		12/29/11 16:12	
,4-Dichlorobenzene	ND	5.6	0.78	ug/Kg	ø		12/29/11 16:12	
2-Hexanone	ND	28	2.8	ug/Kg			12/29/11 16:12	
P-Butanone (MEK)	ND	28	2.0	ug/Kg	10		12/29/11 16:12	
-Methyl-2-pentanone (MIBK)	ND	28	1.8	ug/Kg			12/29/11 16:12	
cetone	ND	28	4.7	ug/Kg	- 64		12/29/11 16:12	
Senzene	ND	5.6	0.27	ug/Kg			12/29/11 16:12	
romodichloromethane	ND	5.6	0.75	ug/Kg	щ		12/29/11 16:12	
romoform	ND	5.6	2.8	ug/Kg	2		12/29/11 16:12	
romomethane	ND	5.6	0.50	ug/Kg	Ø		12/29/11 16:12	
arbon disulfide	ND	5.6	2.8	ug/Kg	D		12/29/11 16:12	
arbon tetrachloride	ND	5.6		ug/Kg	a		12/29/11 16:12	
hlorobenzene	ND	5.6	0.74	ug/Kg			12/29/11 16:12	
ibromochloromethane	ND	5.6	0.71	ug/Kg	(per		12/29/11 16:12	
hloroethane	ND	5.6	1.3	ug/Kg	40		12/29/11 16:12	
hloroform	ND	5.6	0.34	ug/Kg	31		12/29/11 16:12	
hloromethane	ND	5.6	0.34	ug/Kg	50		12/29/11 16:12	
is-1,2-Dichloroethene	ND	5.6	0.71	ug/Kg	12		12/29/11 16:12	
is-1,3-Dichloropropene	ND	5.6	0.80	ug/Kg	a		12/29/11 16:12	
yclohexane	ND	5.6	0.78	ug/Kg	da,		12/29/11 16:12	
Dichlorodifluoromethane	ND	5.6	0.46	ug/Kg	- 27		12/29/11 16:12	
thylbenzene	ND	5.6	0.39	ug/Kg	4		12/29/11 16:12	
opropylbenzene	ND	5.6	0.84	ug/Kg			12/29/11 16:12	
lethyl acetate	ND	5.6	1.0	ug/Kg	31		12/29/11 16:12	
lethyl tert-butyl ether	ND	5.6	0.55	ug/Kg	31		12/29/11 16:12	
lethylcyclohexane	ND	5.6	0.85	ug/Kg	3.1		12/29/11 16:12	
lethylene Chloride	5.1 J	5.6	2.6	ug/Kg	g		12/29/11 16:12	
tyrene	ND	5.6	0.28	ug/Kg	\$77		12/29/11 16:12	
etrachloroethene	ND	5.6	0.75	ug/Kg	a		12/29/11 16:12	
oluene	0.50 J	5.6		ug/Kg	4		12/29/11 16:12	
ans-1,2-Dichloroethene	ND	5.6		ug/Kg	12		12/29/11 16:12	
ans-1,3-Dichloropropene	ND	5.6		ug/Kg			12/29/11 16:12	
richloroethene	ND	5.6		ug/Kg	4.1		12/29/11 16:12	
richlorofluoromethane	ND	5.6		ug/Kg	<u></u>		12/29/11 16:12	
'inyl chloride	ND	5.6		ug/Kg	24		12/29/11 16:12	
(ylenes, Total	ND	11		ug/Kg	4		12/29/11 16:12	

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners

### Client Sample ID: EE3 (10-12) Date Collected: 12/16/11 11:50 Date Received: 12/21/11 11:00

TestAmerica Job ID: 480-14343-1

# Lab Sample ID: 480-14343-11 Matrix: Solid Percent Solids: 87.0

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94	64 - 126		12/29/11 16:12	1
Toluene-d8 (Surr)	97	71 - 125		12/29/11 16:12	1
4-Bromofluorobenzene (Surr)	115	72 - 126		12/29/11 16:12	1

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners

TestAmerica Job ID: 480-14343-1

### Client Sample ID: EE3 (12-14) Date Collected: 12/16/11 11:56 Date Received: 12/21/11 11:00

# Lab Sample ID: 480-14343-12

Method: 8260B - Volatile Organic ( Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	5.5	0.40	ug/Kg	~		12/29/11 16:37	1
1,1,2,2-Tetrachloroethane	ND	5.5	0.89	ug/Kg			12/29/11 16:37	1
1,1,2-Trichloroethane	ND	5.5	0.71	ug/Kg	<i>3</i>		12/29/11 16:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.5	1.2	ug/Kg	х <sup>т</sup>		12/29/11 16:37	1
1,1-Dichloroethane	ND	5.5	0.67	ug/Kg			12/29/11 16:37	1
1,1-Dichloroethene	ND	5.5	0.67	ug/Kg	n		12/29/11 16:37	- G
1,2,4-Trichlorobenzene	ND	5.5	0.33	ug/Kg	a		12/29/11 16:37	1
1,2-Dibromo-3-Chloropropane	ND	5.5	2.7		a		12/29/11 16:37	1
1,2-Dibromoethane	ND	5.5	0.70	ug/Kg	¤		12/29/11 16:37	1
1,2-Dichlorobenzene	ND	5.5	0.43	ug/Kg	1.0		12/29/11 16:37	1
1,2-Dichloroethane	ND	5.5	0.27	ug/Kg	32		12/29/11 16:37	1
1,2-Dichloropropane	ND	5.5	2.7	ug/Kg	6		12/29/11 16:37	1
1,3-Dichlorobenzene	ND	5.5	0.28	ug/Kg	-		12/29/11 16:37	1
1,4-Dichlorobenzene	ND	5.5	0.76	ug/Kg	57		12/29/11 16:37	1
2-Hexanone	ND	27	2.7	ug/Kg	1		12/29/11 16:37	1
2-Butanone (MEK)	ND	27	2.0	ug/Kg	8		12/29/11 16:37	1
4-Methyl-2-pentanone (MIBK)	ND	27	1.8	ug/Kg			12/29/11 16:37	1
Acetone	ND	27	4.6	ug/Kg	Ø		12/29/11 16:37	1
Benzene	ND	5.5	0.27	ug/Kg	α		12/29/11 16:37	1
Bromodichloromethane	ND	5.5	0.73	ug/Kg	12		12/29/11 16:37	1
Bromoform	ND	5.5	2.7	ug/Kg	27		12/29/11 16:37	1
Bromomethane	ND	5.5	0.49	ug/Kg	12		12/29/11 16:37	1
Carbon disulfide	ND	5.5	2.7	ug/Kg	12		12/29/11 16:37	1
Carbon tetrachloride	ND	5.5	0.53	ug/Kg	127		12/29/11 16:37	1
Chlorobenzene	ND	5.5	0.72	ug/Kg	10		12/29/11 16:37	1
Dibromochloromethane	ND	5.5	0.70	ug/Kg			12/29/11 16:37	1
Chloroethane	ND	5.5	1.2	ug/Kg	3		12/29/11 16:37	1
Chloroform	ND	5.5	0.34	ug/Kg	*		12/29/11 16:37	1
Chloromethane	ND	5.5	0.33	ug/Kg	Li.		12/29/11 16:37	1
cis-1,2-Dichloroethene	ND	5.5	0.70	ug/Kg	Ø		12/29/11 16:37	1
cis-1,3-Dichloropropene	ND	5.5	0.79	ug/Kg	ž.		12/29/11 16:37	1
Cyclohexane	ND	5.5	0.76	ug/Kg	.9		12/29/11 16:37	1
Dichlorodifluoromethane	ND	5.5	0.45	ug/Kg	α		12/29/11 16:37	1
Ethylbenzene	ND	5.5	0.38	ug/Kg			12/29/11 16:37	1
Isopropylbenzene	ND	5.5	0.82	ug/Kg	131		12/29/11 16:37	1
Methyl acetate	ND	5.5	1.0	ug/Kg	σ		12/29/11 16:37	1
Methyl tert-butyl ether	ND	5.5	0.54	ug/Kg	100		12/29/11 16:37	1
Methylcyclohexane	ND	5.5	0.83	ug/Kg	120		12/29/11 16:37	1
Methylene Chloride	4.8 J	5.5		ug/Kg	11		12/29/11 16:37	1
Styrene	ND	5.5		ug/Kg	D		12/29/11 16:37	1
Tetrachloroethene	1.3 J	5.5		ug/Kg			12/29/11 16:37	1
Toluene	0.46 J	5.5		ug/Kg			12/29/11 16:37	1
trans-1,2-Dichloroethene	ND	5,5		ug/Kg			12/29/11 16:37	1
trans-1,3-Dichloropropene	ND	5.5		ug/Kg			12/29/11 16:37	1
Trichloroethene	ND	5.5		ug/Kg			12/29/11 16:37	1
Trichlorofluoromethane	ND	5.5		ug/Kg			12/29/11 16:37	1
Vinyl chloride	ND	5.5		ug/Kg			12/29/11 16:37	1
Xylenes, Total	ND	11		ug/Kg	(4)		12/29/11 16:37	1

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners

### Client Sample ID: EE3 (12-14) Date Collected: 12/16/11 11:56 Date Received: 12/21/11 11:00

TestAmerica Job ID: 480-14343-1

# Lab Sample ID: 480-14343-12 Matrix: Solid Percent Solids: 88.4

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93	64 - 126		12/29/11 16:37	1
Toluene-d8 (Surr)	96	71 - 125		12/29/11 16:37	1
4-Bromofluorobenzene (Surr)	116	72 - 126		12/29/11 16:37	1

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners

TestAmerica Job ID: 480-14343-1

### Client Sample ID: EE3 (14-16) Date Collected: 12/16/11 12:06 Date Received: 12/21/11 11:00

# Lab Sample ID: 480-14343-13 Matrix: Solid

Method: 8260B - Volatile Organic Analyte	Result Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	5.4	0.39	ug/Kg			12/29/11 17:02	1
1,1,2,2-Tetrachloroethane	ND	5.4	0.87	ug/Kg			12/29/11 17:02	1
1,1,2-Trichloroethane	ND	5.4	0.70	ug/Kg	a		12/29/11 17:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.4	1.2	ug/Kg	3.1		12/29/11 17:02	1
1,1-Dichloroethane	ND	5.4	0.65	ug/Kg	1.62		12/29/11 17:02	1
1,1-Dichloroethene	ND	5.4	0.66	ug/Kg	α		12/29/11 17:02	19
1,2,4-Trichlorobenzene	ND	5.4	0.33	ug/Kg	a		12/29/11 17:02	1
1,2-Dibromo-3-Chloropropane	ND	5,4	2.7	ug/Kg	ø		12/29/11 17:02	1
1,2-Dibromoethane	ND	5.4	0.69	ug/Kg	- 00		12/29/11 17:02	1
1,2-Dichlorobenzene	ND	5.4	0.42	ug/Kg	1 PC		12/29/11 17:02	1
1,2-Dichloroethane	ND	5.4	0.27	ug/Kg	x		12/29/11 17:02	1
1,2-Dichloropropane	ND	5.4	2.7	ug/Kg	$T_{i}$		12/29/11 17:02	1
1,3-Dichlorobenzene	ND	5.4	0.28	ug/Kg	1.0		12/29/11 17:02	1
1,4-Dichlorobenzene	ND	5.4	0.75	ug/Kg	1.0		12/29/11 17:02	1
2-Hexanone	ND	27	2.7	ug/Kg			12/29/11 17:02	1
2-Butanone (MEK)	ND	27	2.0	ug/Kg	n		12/29/11 17:02	1
4-Methyl-2-pentanone (MIBK)	ND	27	1.8	ug/Kg	a		12/29/11 17:02	1
Acetone	5.2 J	27	4.5	ug/Kg	μ,		12/29/11 17:02	1
Benzene	ND	5.4	0.26	ug/Kg	-27		12/29/11 17:02	1
Bromodichloromethane	ND	5.4	0.72	ug/Kg	10		12/29/11 17:02	1
Bromoform	ND	5.4	2.7	ug/Kg	12		12/29/11 17:02	1
Bromomethane	ND	5.4	0.48	ug/Kg	77		12/29/11 17:02	1
Carbon disulfide	ND	5.4	2.7	ug/Kg			12/29/11 17:02	4
Carbon tetrachloride	ND	5.4	0.52	ug/Kg	14		12/29/11 17:02	1
Chlorobenzene	ND	5.4	0.71	ug/Kg	57		12/29/11 17:02	1
Dibromochloromethane	ND	5.4	0.69	ug/Kg	ø		12/29/11 17:02	
Chloroethane	ND	5.4		ug/Kg	ø			1
Chloroform	ND	5.4	0.33	ug/Kg	2		12/29/11 17:02	1
Chloromethane	ND	5.4	0.33	7.7	-		12/29/11 17:02	1
cis-1,2-Dichloroethene	6.5	5.4	0.52	ug/Kg	π		12/29/11 17:02	1
cis-1,3-Dichloropropene	ND			ug/Kg			12/29/11 17:02	1
		5.4	0.77	ug/Kg	80		12/29/11 17:02	1
	ND	5.4		ug/Kg	-		12/29/11 17:02	1
Dichlorodifluoromethane	ND	5.4	0.44	ug/Kg			12/29/11 17:02	1
Ethylbenzene	ND	5.4	0.37	ug/Kg	a		12/29/11 17:02	1
sopropylbenzene	ND	5,4	0.81	ug/Kg	p		12/29/11 17:02	1
Methyl acetate	ND	5.4	1.0	ug/Kg	ч		12/29/11 17:02	1
Methyl tert-butyl ether	ND	5.4		ug/Kg	4		12/29/11 17:02	1
Methylcyclohexane	ND	5.4		ug/Kg			12/29/11 17:02	1
Methylene Chloride	4.0 J	5.4		ug/Kg			12/29/11 17:02	1
Styrene	ND	5.4	0.27	ug/Kg			12/29/11 17:02	1
Tetrachloroethene	51	5.4		ug/Kg			12/29/11 17:02	1
Foluene	0.46 J	5.4		ug/Kg	3		12/29/11 17:02	1
rans-1,2-Dichloroethene	ND	5.4	0.55	ug/Kg			12/29/11 17:02	1
rans-1,3-Dichloropropene	ND	5.4	2.4	ug/Kg	3		12/29/11 17:02	1
Frichloroethene	12	5.4	1.2	ug/Kg	Ø		12/29/11 17:02	1
Trichlorofluoromethane	ND	5.4	0.51	ug/Kg	Ø		12/29/11 17:02	1
/inyl chloride	ND	5.4	0.65	ug/Kg	E.		12/29/11 17:02	1
Kylenes, Total	ND	11	0.90	ug/Kg	- 10		12/29/11 17:02	1

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners

### Client Sample ID: EE3 (14-16) Date Collected: 12/16/11 12:06 Date Received: 12/21/11 11:00

TestAmerica Job ID: 480-14343-1

# Lab Sample ID: 480-14343-13 Matrix: Solid Percent Solids: 90.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		64 - 126		12/29/11 17:02	1
Toluene-d8 (Surr)	96		71 - 125		12/29/11 17:02	1
4-Bromofluorobenzene (Surr)	116		72 - 126		12/29/11 17:02	1

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners TestAmerica Job ID: 480-14343-1

### Client Sample ID: EE3 (16-18) Date Collected: 12/16/11 12:11 Date Received: 12/21/11 11:00

# Lab Sample ID: 480-14343-14

Matrix: Solid Percent Solids: 89.0

Method: 8260B - Volatile Organi Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.3	0.38	ug/Kg	1		12/29/11 17:28	
1,1,2,2-Tetrachloroethane	ND		5.3	0.86	ug/Kg	95		12/29/11 17:28	1
1,1,2-Trichloroethane	ND		5.3	0.69	ug/Kg	1.0		12/29/11 17:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.3	1.2	ug/Kg	a,		12/29/11 17:28	1
1,1-Dichloroethane	ND		5.3	0.65	ug/Kg	- 11		12/29/11 17:28	1
1,1-Dichloroethene	ND		5.3	0.65	ug/Kg	17		12/29/11 17:28	- R
1,2,4-Trichlorobenzene	ND		5.3	0.32	ug/Kg	~		12/29/11 17:28	1
1,2-Dibromo-3-Chloropropane	ND		5.3	2.7	ug/Kg	a		12/29/11 17:28	1
1,2-Dibromoethane	ND		5.3	0.68	ug/Kg	ø		12/29/11 17:28	1
1,2-Dichlorobenzene	ND		5.3	0.41	ug/Kg			12/29/11 17:28	1
1,2-Dichloroethane	ND		5.3	0.27	ug/Kg	1		12/29/11 17:28	1
1,2-Dichloropropane	ND		5.3	2.7	ug/Kg	-		12/29/11 17:28	1
1,3-Dichlorobenzene	ND		5.3	0.27	ug/Kg	τ.		12/29/11 17:28	1
1,4-Dichlorobenzene	ND		5.3	0.74	ug/Kg	2		12/29/11 17:28	1
2-Hexanone	ND		27	2.7	ug/Kg	0.		12/29/11 17:28	1
2-Butanone (MEK)	ND		27	1.9	ug/Kg	31		12/29/11 17:28	1
4-Methyl-2-pentanone (MIBK)	ND		27	1.7	ug/Kg	- 22		12/29/11 17:28	1
Acetone	5.7	J	27	4.5	ug/Kg	157		12/29/11 17:28	1
Benzene	ND		5.3	0.26	ug/Kg	IT.		12/29/11 17:28	1
Bromodichloromethane	ND		5.3	0.71	ug/Kg	12		12/29/11 17:28	1
Bromoform	ND		5.3	2.7	ug/Kg	- 11		12/29/11 17:28	1
Bromomethane	ND		5.3	0.48	ug/Kg	18.		12/29/11 17:28	1
Carbon disulfide	ND		5.3	2.7	ug/Kg	1		12/29/11 17:28	1
Carbon tetrachloride	ND		5.3	0.51	ug/Kg	- 61		12/29/11 17:28	1
Chlorobenzene	ND		5.3	0.70	ug/Kg	-S		12/29/11 17:28	1
Dibromochloromethane	ND		5.3	0.68	ug/Kg	2		12/29/11 17:28	1
Chloroethane	ND		5.3	1.2	ug/Kg	Ø		12/29/11 17:28	1
Chloroform	ND		5.3	0.33	ug/Kg	a		12/29/11 17:28	1
Chloromethane	ND		5.3	0.32	ug/Kg	13		12/29/11 17:28	1
cis-1,2-Dichloroethene	16		5.3	0.68	ug/Kg	C		12/29/11 17:28	1
cis-1,3-Dichloropropene	ND		5.3	0.76	ug/Kg	3.8		12/29/11 17:28	1
Cyclohexane	ND		5.3	0.74	ug/Kg	13		12/29/11 17:28	1
Dichlorodifluoromethane	ND		5.3	0.44	ug/Kg	12		12/29/11 17:28	1
Ethylbenzene	ND		5.3	0.37	ug/Kg	- 17		12/29/11 17:28	1
Isopropylbenzene	ND		5.3	0.80	ug/Kg			12/29/11 17:28	1
Methyl acetate	ND		5.3	0.99	ug/Kg	100		12/29/11 17:28	1
Methyl tert-butyl ether	ND		5.3	0.52	ug/Kg	2		12/29/11 17:28	1
Methylcyclohexane	ND		5.3			17		12/29/11 17:28	1
Methylene Chloride	3.5	J	5.3		ug/Kg			12/29/11 17:28	1
Styrene	ND		5.3		ug/Kg	121		12/29/11 17:28	1
Toluene	0.49	j i	5.3		ug/Kg			12/29/11 17:28	1
trans-1,2-Dichloroethene	ND	2	5.3		ug/Kg			12/29/11 17:28	1
trans-1,3-Dichloropropene	ND		5.3		ug/Kg	1.5		12/29/11 17:28	1
Trichloroethene	24		5.3		ug/Kg			12/29/11 17:28	1
Trichlorofluoromethane	ND		5.3		ug/Kg			12/29/11 17:28	1
Vinyl chloride	ND		5.3		ug/Kg	10		12/29/11 17:28	1
Xylenes, Total	ND		11		ug/Kg	0		12/29/11 17:28	1
1				0.00	39				
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		64 - 126					12/29/11 17:28	1

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners

TestAmerica Job ID: 480-14343-1

### Client Sample ID: EE3 (16-18) Lab Sample ID: 480-14343-14 Date Collected: 12/16/11 12:11 Matrix: Solid Date Received: 12/21/11 11:00 Percent Solids: 89.0 Method: 8260B - Volatile Organic Compounds (CC/ME) (Continued)

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		71 - 125					12/29/11 17:28	1
4-Bromofluorobenzene (Surr)	116		72 - 126					12/29/11 17:28	1
Method: 8260B - Volatile Orga	inic Compounds (	(GC/MS) - D	L						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	850		51	6.9	ug/Kg			12/29/11 19:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
	%Recovery 91	Qualifier	Limits 64 - 126				Prepared	Analyzed	Dil Fac
Surrogate 1,2-Dichloroethane-d4 (Surr) Toluene-d8 (Surr)		Qualifier					Prepared		Dil Fac 1

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners TestAmerica Job ID: 480-14343-1

### Client Sample ID: EE3 (20-22) Date Collected: 12/16/11 12:35 Date Received: 12/21/11 11:00

# Lab Sample ID: 480-14343-15

Method: 8260B - Volatile Organi Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND		5.4	0.39	ug/Kg	— <u>a</u>	ricpurcu	12/29/11 17:53	DITA
1,1,2,2-Tetrachloroethane	ND		5.4	0.88	ug/Kg	2		12/29/11 17:53	
1,1,2-Trichloroethane	ND		5.4	0.70	ug/Kg	a		12/29/11 17:53	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.4	1.2	ug/Kg	ø		12/29/11 17:53	
1,1-Dichloroethane	ND		5.4	0.66	ug/Kg	14		12/29/11 17:53	
1,1-Dichloroethene	ND		5.4	0.66	ug/Kg				
1,2,4-Trichlorobenzene	ND		5.4	0.33	ug/Kg	.02		12/29/11 17:53	13
1,2-Dibromo-3-Chloropropane	ND		5.4	2.7	ug/Kg	- G		12/29/11 17:53	
1,2-Dibromoethane	ND		5.4	0.69	ug/Kg	- 2		12/29/11 17:53	
1,2-Dichlorobenzene	ND		5.4		ug/Kg	E.		12/29/11 17:53	
1,2-Dichloroethane	ND					ø		12/29/11 17:53	- 3
	ND		5.4	0.27	ug/Kg	4		12/29/11 17:53	
1,2-Dichloropropane			5.4	2.7	ug/Kg			12/29/11 17:53	1
1,3-Dichlorobenzene	ND		5.4	0.28	ug/Kg	- 5-		12/29/11 17:53	
1,4-Dichlorobenzene	ND		5.4	0.76	ug/Kg	æ		12/29/11 17:53	1
2-Hexanone	ND		27	2.7	ug/Kg			12/29/11 17:53	
2-Butanone (MEK)	ND		27	2.0	ug/Kg	2		12/29/11 17:53	1
4-Methyl-2-pentanone (MIBK)	ND		27	1.8	ug/Kg	r		12/29/11 17:53	
Acetone	5.1	J	27	4.5	ug/Kg	- 21		12/29/11 17:53	- 1
Benzene	ND		5.4	0.26	ug/Kg			12/29/11 17:53	13
Bromodichloromethane	ND		5.4		ug/Kg	~		12/29/11 17:53	
Bromoform	ND		5.4	2.7	ug/Kg	8		12/29/11 17:53	
Bromomethane	ND		5.4		ug/Kg	2		12/29/11 17:53	
Carbon disulfide	ND		5.4		ug/Kg			12/29/11 17:53	
Carbon tetrachloride	ND		5.4	0.52	ug/Kg	- 17		12/29/11 17:53	3
Chlorobenzene	ND		5.4	0.71	ug/Kg	1		12/29/11 17:53	
Dibromochloromethane	ND		5.4	0.69	ug/Kg	a		12/29/11 17:53	3
Chloroethane	ND		5.4	1.2	ug/Kg	< 6		12/29/11 17:53	
Chloroform	ND		5.4	0.33	ug/Kg	3		12/29/11 17:53	
Chloromethane	ND		5.4	0.33	ug/Kg	Ø		12/29/11 17:53	113
sis-1,2-Dichloroethene	43		5.4	0.69	ug/Kg	*		12/29/11 17:53	
sis-1,3-Dichloropropene	ND		5.4	0.78	ug/Kg	ø		12/29/11 17:53	14
Cyclohexane	1.9	J	5.4	0.76	ug/Kg	D		12/29/11 17:53	111
Dichlorodifluoromethane	ND		5.4	0.45	ug/Kg	1		12/29/11 17:53	1
Ethylbenzene	ND		5.4	0.37	ug/Kg	(AP)		12/29/11 17:53	1
sopropylbenzene	ND		5.4	0.81	ug/Kg	8		12/29/11 17:53	1
Methyl acetate	ND		5.4	1.0	ug/Kg	81		12/29/11 17:53	3
Methyl tert-butyl ether	ND		5.4	0.53	ug/Kg	(12)		12/29/11 17:53	
Methylcyclohexane	ND		5.4	0.82	ug/Kg	- 321		12/29/11 17:53	
lethylene Chloride	4.3	J	5.4	2.5	ug/Kg	100		12/29/11 17:53	1
Styrene	ND		5.4		ug/Kg	- 000		12/29/11 17:53	1
Toluene	0.48	J	5.4	0.41	ug/Kg			12/29/11 17:53	
rans-1,2-Dichloroethene	ND		5.4	0.56	ug/Kg	81		12/29/11 17:53	
ans-1,3-Dichloropropene	ND		5.4		ug/Kg	12		12/29/11 17:53	1
richloroethene	74		5.4		ug/Kg	¤		12/29/11 17:53	1
richlorofluoromethane	ND		5.4		ug/Kg	5		12/29/11 17:53	4
/inyl chloride	ND		5.4		ug/Kg	ø		12/29/11 17:53	1
(ylenes, Total	ND		11		ug/Kg	ų.		12/29/11 17:53	3
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		64 - 126					12/29/11 17:53	

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners

TestAmerica Job ID: 480-14343-1

### Client Sample ID: EE3 (20-22) Lab Sample ID: 480-14343-15 Date Collected: 12/16/11 12:35 Matrix: Solid Date Received: 12/21/11 11:00 Percent Solids: 86.9 Method: 8260B - Volatile Organic Compounds (CC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		71 - 125					12/29/11 17:53	1
4-Bromofluorobenzene (Surr)	120		72 - 126					12/29/11 17:53	1
Method: 8260B - Volatile Orga	nic Compounds	(GC/MS) - D	L						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1700		54	7.3	ug/Kg	Ţ.		12/29/11 20:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		64 - 126					12/29/11 20:03	1
Taluana do (Ound)	98		71 - 125					12/29/11 20:03	
Toluene-dB (Surr)	50							12/20/11 20.00	1

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners TestAmerica Job ID: 480-14343-1

### Client Sample ID: EE3 (22-24) Date Collected: 12/16/11 12:40 Date Received: 12/21/11 11:00

# Lab Sample ID: 480-14343-16

Matrix: Solid Percent Solids: 81.0

Method: 8260B - Volatile Organic ( Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND		5.9	0,43	ug/Kg	<u></u>		12/29/11 18:21	
1,1,2,2-Tetrachloroethane	ND		5.9	0.96	ug/Kg			12/29/11 18:21	
1,1,2-Trichloroethane	ND		5.9	0.77	ug/Kg	ø		12/29/11 18:21	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.9	1.4	ug/Kg	a		12/29/11 18:21	
I,1-Dichloroethane	ND		5.9	0.72	ug/Kg	a		12/29/11 18:21	
1,1-Dichloroethene	1.2	J	5.9	0.73	ug/Kg	177		12/29/11 18:21	
1,2,4-Trichlorobenzene	ND		5.9	0.36	ug/Kg	121		12/29/11 18:21	
,2-Dibromo-3-Chloropropane	ND		5.9	3.0	ug/Kg	87		12/29/11 18:21	
I,2-Dibromoethane	ND		5.9	0.76	ug/Kg			12/29/11 18:21	
.2-Dichlorobenzene	ND		5.9	0.46	ug/Kg			12/29/11 18:21	
,2-Dichloroethane	ND		5,9	0.30	ug/Kg			12/29/11 18:21	
,2-Dichloropropane	ND		5.9	3.0	ug/Kg	ø		12/29/11 18:21	
,3-Dichlorobenzene	ND		5.9	0.31	ug/Kg	38		12/29/11 18:21	
,4-Dichlorobenzene	ND		5,9	0.83	ug/Kg	2.5		12/29/11 18:21	
2-Hexanone	ND		30	3.0	ug/Kg	4		12/29/11 18:21	
-Butanone (MEK)	ND		30	2.2	ug/Kg	ø		12/29/11 18:21	
-Methyl-2-pentanone (MIBK)	ND		30	1.9	ug/Kg	1		12/29/11 18:21	
cetone	6.2	J	30	5.0	ug/Kg	11.		12/29/11 18:21	
lenzene	0.82	J	5.9	0.29	ug/Kg	111		12/29/11 18:21	
romodichloromethane	ND		5.9	0.80	ug/Kg	12		12/29/11 18:21	
romoform	ND		5.9	3.0	ug/Kg	111		12/29/11 18:21	
romomethane	ND		5.9	0.53	ug/Kg	10		12/29/11 18:21	
arbon disulfide	ND		5.9	3.0	ug/Kg	a		12/29/11 18:21	
arbon tetrachloride	ND		5.9	0.57		100		12/29/11 18:21	
hlorobenzene	ND		5.9	0.78	ug/Kg	ht i		12/29/11 18:21	
bromochloromethane	ND		5.9	0.76	ug/Kg			12/29/11 18:21	
hloroethane	ND		5.9	1.3	ug/Kg	-		12/29/11 18:21	
Chloroform	ND		5.9	0.37	ug/Kg	10		12/29/11 18:21	
Chloromethane	ND		5.9	0.36	ug/Kg			12/29/11 18:21	
is-1,2-Dichloroethene	220		5.9	0.76	ug/Kg	- 01		12/29/11 18:21	
is-1,3-Dichloropropene	ND		5.9	0.86	ug/Kg	10		12/29/11 18:21	
vclohexane	ND		5.9	0.83	ug/Kg	0.85		12/29/11 18:21	
Dichlorodifluoromethane	ND		5.9	0.49	ug/Kg	100		12/29/11 18:21	
thylbenzene	ND		5.9	0.41	ug/Kg			12/29/11 18:21	
sopropylbenzene	ND		5.9	0.90	ug/Kg	n		12/29/11 18:21	
lethyl acetate	ND		5.9	1.1	ug/Kg	41		12/29/11 18:21	
lethyl tert-butyl ether	ND		5,9	0.58		21		12/29/11 18:21	
lethylcyclohexane	ND		5.9		ug/Kg	12		12/29/11 18:21	
lethylene Chloride	4.3	a	5.9		ug/Kg			12/29/11 18:21	
tyrene	ND		5.9		ug/Kg			12/29/11 18:21	
etrachloroethene	54		5.9		1.			12/29/11 18:21	
oluene	ND		5.9		ug/Kg	a		12/29/11 18:21	
ans-1,2-Dichloroethene	3.3	a.	5.9		ug/Kg			12/29/11 18:21	
ans-1,3-Dichloropropene	ND		5.9		ug/Kg	0.		12/29/11 18:21	
richloroethene	21		5.9		ug/Kg	10		12/29/11 18:21	
richlorofluoromethane	ND		5.9		ug/Kg	10		12/29/11 18:21	
'inyl chloride	ND		5.9		ug/Kg ug/Kg	- 10-			
(ylenes, Total	ND		5.9 12		ug/Kg ug/Kg	- ii-		12/29/11 18:21 12/29/11 18:21	

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners

### Client Sample ID: EE3 (22-24) Date Collected: 12/16/11 12:40 Date Received: 12/21/11 11:00

TestAmerica Job ID: 480-14343-1

# Lab Sample ID: 480-14343-16 Matrix: Solid Percent Solids: 81.0

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93	64 - 126		12/29/11 18:21	1
Toluene-d8 (Surr)	98	71 - 125		12/29/11 18:21	1
4-Bromofluorobenzene (Surr)	116	72 - 126		12/29/11 18:21	1

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners

### Client Sample ID: EE3 (24-26) Date Collected: 12/16/11 12:50 Date Received: 12/21/11 11:00

TestAmerica Job ID: 480-14343-1

### Lab Sample ID: 480-14343-17 Matrix: Solid

Percent Solids: 84.8

Method: 8260B - Volatile Organic Analyte	and the second	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.5	0.40	ug/Kg	2		12/29/11 18:47	
1,1,2,2-Tetrachloroethane	ND		5.5	0.89	ug/Kg	100		12/29/11 18:47	4
1,1,2-Trichloroethane	ND		5.5	0.71	ug/Kg	sd		12/29/11 18:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.5	1.2	ug/Kg	EV.		12/29/11 18:47	1
1,1-Dichloroethane	ND		5.5	0.67	ug/Kg	<b>C</b>		12/29/11 18:47	1
1,1-Dichloroethene	ND		5.5	0.67	ug/Kg	ø		12/29/11 18:47	1
1,2,4-Trichlorobenzene	ND		5.5	0.33	ug/Kg	ø		12/29/11 18:47	1
1,2-Dibromo-3-Chloropropane	ND		5.5	2.7	ug/Kg	ø		12/29/11 18:47	4
1,2-Dibromoethane	ND		5.5	0.70	ug/Kg	10		12/29/11 18:47	-
1,2-Dichlorobenzene	ND		5.5	0.43	ug/Kg	51		12/29/11 18:47	
1,2-Dichloroethane	ND		5.5	0.27	ug/Kg	a		12/29/11 18:47	
1,2-Dichloropropane	ND		5.5	2.7	ug/Kg	1		12/29/11 18:47	
1,3-Dichlorobenzene	ND		5.5	0.28	ug/Kg	-		12/29/11 18:47	1
1,4-Dichlorobenzene	ND		5.5	0.77	ug/Kg			12/29/11 18:47	1
2-Hexanone	ND		27	2.7	ug/Kg	-		12/29/11 18:47	1
2-Butanone (MEK)	ND		27	2.0	ug/Kg			12/29/11 18:47	1
4-Methyl-2-pentanone (MIBK)	ND		27	1.8	ug/Kg	2		12/29/11 18:47	3
Acetone	14	J	27	4.6	ug/Kg	3		12/29/11 18:47	
Benzene	ND		5.5	0.27	ug/Kg	ø		12/29/11 18:47	1
Bromodichloromethane	ND		5.5	0.73	ug/Kg	ø		12/29/11 18:47	- 1
Bromoform	ND		5.5	2.7	ug/Kg			12/29/11 18:47	
Bromomethane	ND		5.5	0.49	ug/Kg	-		12/29/11 18:47	
Carbon disulfide	ND		5.5	2.7	ug/Kg	12.0		12/29/11 18:47	
Carbon tetrachloride	ND		5.5		ug/Kg	77		12/29/11 18:47	
Chlorobenzene	ND		5.5		ug/Kg	8		12/29/11 18:47	ł
Dibromochloromethane	ND		5.5	0.70	ug/Kg	a		12/29/11 18:47	
Chloroethane	ND		5.5	1.2		- 40		12/29/11 18:47	
Chloroform	ND		5.5	0.34	ug/Kg	.52		12/29/11 18:47	
Chloromethane	ND		5.5	0.33	ug/Kg	-2		12/29/11 18:47	
cis-1,2-Dichloroethene	150		5.5	0.70	ug/Kg			12/29/11 18:47	4
cis-1,3-Dichloropropene	ND		5.5	0.79	ug/Kg	ø		12/29/11 18:47	
Cyclohexane	ND		5.5	0.77	ug/Kg	D		12/29/11 18:47	
Dichlorodifluoromethane	ND		5.5	0.45	ug/Kg	α		12/29/11 18:47	1
Ethylbenzene	ND		5.5	0.38	ug/Kg	α		12/29/11 18:47	
Isopropylbenzene	ND		5.5	0.82	ug/Kg			12/29/11 18:47	1
Methyl acetate	ND		5,5	1.0	ug/Kg			12/29/11 18:47	1
	1.8	Ĵ	5.5		ug/Kg	<u>81</u>		12/29/11 18:47	4
Methyl tert-butyl ether Methylcyclohexane	ND	3	5.5		ug/Kg			12/29/11 18:47	
Methylene Chloride	2.8	1	5.5		ug/Kg	8		12/29/11 18:47	
Styrene	2.8 ND	J	5.5		ug/Kg			12/29/11 18:47	
	ND		5.5			- 11			
Toluene		2				17		12/29/11 18:47	
rans-1,2-Dichloroethene	0.93	5	5.5		ug/Kg	- 2		12/29/11 18:47	
trans-1,3-Dichloropropene	ND		5.5		ug/Kg			12/29/11 18:47	
Trichloroethene	13		5.5		ug/Kg			12/29/11 18:47	1
Trichlorofluoromethane	ND	2	5.5		ug/Kg			12/29/11 18:47	
Vinyl chloride	1.8	J	5.5		ug/Kg	ø		12/29/11 18:47	1
Xylenes, Total	ND		11	0.92	ug/Kg	14		12/29/11 18:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners TestAmerica Job ID: 480-14343-1

# Client Sample ID: EE3 (24-26) Lab Sample ID: 480-14343-17 Date Collected: 12/16/11 12:50 Matrix: Solid Date Received: 12/21/11 11:00 Percent Solids: 84.8 Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued) Continued)

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		71 - 125					12/29/11 18:47	1
4-Bromofluorobenzene (Surr)	116		72 - 126					12/29/11 18:47	1
Method: 8260B - Volatile Orga	nic Compounds	(GC/MS) - D	L						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1000		57	7.6	ug/Kg	Ø		12/29/11 20:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		64 - 126			-		12/29/11 20:28	1
Toluene-d8 (Surr)	99		71 - 125					12/29/11 20:28	1
4-Bromofluorobenzene (Surr)	117		72 - 126					12/29/11 20:28	1

TestAmerica Buffalo 12/30/2011

# **Client Sample Results**

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners

Client Sample ID: EE3 (26-28) Date Collected: 12/16/11 12:55 Date Received: 12/21/11 11:00

TestAmerica Job ID: 480-14343-1

Method: 8260B - Volatile Organic ( Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	5.8	0.42	ug/Kg			12/29/11 19:12	
1,1,2,2-Tetrachloroethane	ND	5.8	0.94	ug/Kg	**		12/29/11 19:12	1
1.1.2-Trichloroethane	ND	5.8	0.75	ug/Kg	Ø		12/29/11 19:12	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.8		ug/Kg	ø		12/29/11 19:12	4
1,1-Dichloroethane	ND	5.8	0.71	ug/Kg	1.2		12/29/11 19:12	
1,1-Dichloroethene	ND	5.8	0.71	ug/Kg			12/29/11 19:12	-
1,2,4-Trichlorobenzene	ND	5.8	0.35	ug/Kg	2		12/29/11 19:12	
1,2-Dibromo-3-Chloropropane	ND	5.8		ug/Kg			12/29/11 19:12	
1,2-Dibromoethane	ND	5.8		ug/Kg	20		12/29/11 19:12	-
	ND	5.8	0.45	ug/Kg	r		12/29/11 19:12	
1,2-Dichlorobenzene	ND	5.8	0.45	ug/Kg	.3		12/29/11 19:12	3
1,2-Dichloroethane			2.9		-			
1,2-Dichloropropane	ND	5.8		ug/Kg	<b>z</b> 5		12/29/11 19:12	
1,3-Dichlorobenzene	ND	5.8	0.30	ug/Kg			12/29/11 19:12	
1,4-Dichlorobenzene	ND	5.8	0.81	ug/Kg			12/29/11 19:12	
2-Hexanone	ND	29	2.9	ug/Kg			12/29/11 19:12	
2-Butanone (MEK)	ND	29	2.1	ug/Kg	Ø		12/29/11 19:12	
4-Methyl-2-pentanone (MIBK)	ND	29	1.9	ug/Kg			12/29/11 19:12	
Acetone	L 9.9	29	4.9	ug/Kg	Ø		12/29/11 19:12	
Benzene	ND	5.8	0.28	ug/Kg	8.		12/29/11 19:12	
Bromodichloromethane	ND	5.8	0.78	ug/Kg	1		12/29/11 19:12	
Bromoform	ND	5.8	2.9	ug/Kg			12/29/11 19:12	
Bromomethane	ND	5.8	0.52	ug/Kg	100		12/29/11 19:12	
Carbon disulfide	ND	5.8	2,9	ug/Kg			12/29/11 19:12	
Carbon tetrachloride	ND	5.8	0.56	ug/Kg	H		12/29/11 19:12	
Chlorobenzene	ND	5.8	0.77	ug/Kg	a		12/29/11 19:12	
Dibromochloromethane	ND	5.8	0.74	ug/Kg	D		12/29/11 19:12	
Chloroethane	ND	5.8	1.3	ug/Kg	-2		12/29/11 19:12	
Chloroform	ND	5.8	0.36	ug/Kg			12/29/11 19:12	
Chloromethane	ND	5,8	0.35	ug/Kg			12/29/11 19:12	
cis-1,2-Dichloroethene	6.0	5.8	0.74	ug/Kg			12/29/11 19:12	
cis-1,3-Dichloropropene	ND	5.8	0.84	ug/Kg	ά.		12/29/11 19:12	
Cyclohexane	ND	5.8	0.81	ug/Kg	x I		12/29/11 19:12	
Dichlorodifluoromethane	ND	5.8	0.48	ug/Kg	10		12/29/11 19:12	
Ethylbenzene	ND	5.8	0.40	ug/Kg	1151		12/29/11 19:12	
sopropylbenzene	ND	5.8	0.87	ug/Kg	π		12/29/11 19:12	
Methyl acetate	ND	5.8	1.1	ug/Kg	10		12/29/11 19:12	
Methyl tert-butyl ether	1.9 J	5.8	0.57	ug/Kg	i .		12/29/11 19:12	
Methylcyclohexane	ND	5.8	0.88	ug/Kg	****		12/29/11 19:12	
Methylene Chloride	4.5 J	5.8		ug/Kg	Ξ£ -		12/29/11 19:12	
Styrene	ND	5.8		ug/Kg	- 10		12/29/11 19:12	
Fetrachloroethene	27	5.8		ug/Kg	¤		12/29/11 19:12	
Foluene	ND	5.8		ug/Kg	a		12/29/11 19:12	
trans-1,2-Dichloroethene	ND	5.8		ug/Kg	27		12/29/11 19:12	
rans-1,3-Dichloropropene	ND	5.8		ug/Kg			12/29/11 19:12	
		5.8		ug/Kg	17		12/29/11 19:12	
Trichloroethene Trichlorofluoromethane	1.5 J	5.8		ug/Kg	Ŀ		12/29/11 19:12	
	ND							
Vinyl chloride Xylenes, Total	8.2 ND	5.8 12	0.71	ug/Kg ug/Kg	ø		12/29/11 19:12 12/29/11 19:12	

# **Client Sample Results**

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners

Client Sample ID: EE3 (26-28) Date Collected: 12/16/11 12:55 Date Received: 12/21/11 11:00 TestAmerica Job ID: 480-14343-1

# Lab Sample ID: 480-14343-18 Matrix: Solid Percent Solids: 84.0

Surrogate	%Recovery Qualifier	Limits	Prepared Analyz	ed Dil Fac
1,2-Dichloroethane-d4 (Surr)	92	64 - 126	12/29/11	19:12 1
Toluene-d8 (Surr)	97	71 - 125	12/29/11	19:12 1
4-Bromofluorobenzene (Surr)	116	72 - 126	12/29/11	19:12 1

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners TestAmerica Job ID: 480-14343-1

Date Collected Date Received	le ID: EE4 ( 1: 12/15/11 10: 12/21/11 11:0	46				- j.		ID: 480-14343- Matrix: Soli
Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	ercent Solids: 91 Lab
Total/NA Total/NA	Analysis Analysis	8260B Moisture		1	45715 46352	12/22/11 19:50 12/29/11 11:53	RJ ZLR	TAL BUF
-				_				- 10
Client Samp Date Collected Date Received:	: 12/15/11 10:	55				Li		ID: 480-14343- Matrix: Sol ercent Solids: 87
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	45715	12/22/11 20:15	RJ	TAL BUF
Total/NA	Analysis	Moisture		1	46352	12/29/11 11:53	ZLR	TAL BUF
Client Samp						La	ab Sample	ID: 480-14343 Matrix: Sol
Date Received:							P	ercent Solids: 89
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	45715	12/22/11 20:40	RJ	TAL BUF
		Sur. 6 (1)			100 00	100001111150	71.0	TAL BUF
Total/NA	Analysis	Moisture		1	46352	12/29/11 11:53	ZLR	TAL BUF
Client Samp Date Collected	le ID: EE4 (6 : 12/15/11 11:1	5-8) 10		1	46352		ib Sample	ID: 480-14343- Matrix: Soli
Total/NA Client Sampl Date Collected: Date Received:	le ID: EE4 (6 : 12/15/11 11:1	5-8) 10		1 Dilution	46352 Batch		ib Sample	ID: 480-14343- Matrix: Soli
Client Samp Date Collected	le ID: EE4 (( : 12/15/11 11:1 12/21/11 11:0	5-8) 10 10	Run			La	ib Sample	ID: 480-14343- Matrix: Sol
Client Sampl Date Collected Date Received:	le ID: EE4 (0 : 12/15/11 11:1 : 12/21/11 11:0 Batch	5-8) 10 10 Batch	Run	Dilution	Batch	La Prepared	ib Sample Pe	ID: 480-14343- Matrix: Sol ercent Solids: 85
Client Sampl Date Collected Date Received: Prep Type	le ID: EE4 (0 : 12/15/11 11:1 12/21/11 11:0 Batch Type	5-8) 10 00 Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	ab Sample Pe	ID: 480-14343- Matrix: Soli ercent Solids: 85 Lab
Client Samp Date Collected Date Received: Prep Type Total/NA Total/NA Client Sampl	le ID: EE4 (0 : 12/15/11 11:1 12/21/11 11:0 Batch Type Analysis Analysis	5-8) 10 10 Batch Method 8260B Moisture 3-10)	Run	Dilution Factor 1	Batch Number 45715	Prepared or Analyzed 12/22/11 21:06 12/29/11 11:53	ab Sample Pe Analyst RJ ZLR	ID: 480-14343- Matrix: Soli arcent Solids: 85 Lab TAL BUF TAL BUF TAL BUF
Client Samp Date Collected Date Received: Prep Type Total/NA Total/NA Client Samp Date Collected:	le ID: EE4 (0 : 12/15/11 11:1 12/21/11 11:0 Batch Type Analysis Analysis le ID: EE4 (8 : 12/15/11 11:1	5-8) 10 10 Batch Method 8260B Moisture 3-10) 9	Run	Dilution Factor 1	Batch Number 45715	Prepared or Analyzed 12/22/11 21:06 12/29/11 11:53	Analyst RJ ZLR RD Sample I	ID: 480-14343- Matrix: Soli arcent Solids: 85 Lab TAL BUF TAL BUF TAL BUF D: 480-14343- Matrix: Soli
Client Samp Date Collected Date Received: Prep Type Total/NA Total/NA Client Samp Date Collected: Date Received:	le ID: EE4 (0 : 12/15/11 11:1 12/21/11 11:0 Batch Type Analysis Analysis le ID: EE4 (8 : 12/15/11 11:1	5-8) 10 10 Batch Method 8260B Moisture 3-10) 9	Run	Dilution Factor 1	Batch Number 45715	Prepared or Analyzed 12/22/11 21:06 12/29/11 11:53	Analyst RJ ZLR RD Sample I	ID: 480-14343- Matrix: Soli arcent Solids: 85 Lab TAL BUF TAL BUF TAL BUF D: 480-14343- Matrix: Soli
Client Samp Date Collected: Date Received: Prep Type Total/NA Total/NA Client Samp Date Collected: Date Received: Prep Type	le ID: EE4 (0 : 12/15/11 11:1 12/21/11 11:0 Batch Type Analysis Analysis Ie ID: EE4 (8 : 12/15/11 11:1 12/21/11 11:0	5-8) 10 10 10 10 10 10 10 10 10 10 10 10 10	Run	Dilution Factor 1 1	Batch Number 45715 46352	La Prepared or Analyzed 12/22/11 21:06 12/29/11 11:53	Analyst RJ ZLR RD Sample I	ID: 480-14343- Matrix: Soli ercent Solids: 85 Lab TAL BUF TAL BUF TAL BUF D: 480-14343- Matrix: Soli
Client Samp Date Collected Date Received: Prep Type Total/NA Total/NA Client Samp Date Collected: Date Received:	le ID: EE4 (0 : 12/15/11 11:1 12/21/11 11:0 Batch Type Analysis Analysis le ID: EE4 (8 : 12/15/11 11:1 12/21/11 11:0 Batch	5-8) 10 10 10 Batch Method 8260B Moisture 3-10) 9 0 Batch		Dilution Factor 1 1 Dilution	Batch Number 45715 46352 Batch	Prepared or Analyzed 12/22/11 21:06 12/29/11 11:53 La Prepared	Analyst RJ ZLR B Sample I	ID: 480-14343- Matrix: Soli ercent Solids: 85 Lab TAL BUF TAL BUF D: 480-14343- Matrix: Soli ercent Solids: 92.
Client Samp Date Collected: Date Received: Prep Type Total/NA Total/NA Client Sampl Date Collected: Date Received: Prep Type	le ID: EE4 (0 : 12/15/11 11:1 12/21/11 11:0 Batch Type Analysis Analysis le ID: EE4 (8 : 12/15/11 11:1 12/21/11 11:0 Batch Type	5-8) 10 10 Batch Method 8260B Moisture 3-10) 9 0 Batch Method		Dilution Factor 1 1 Dilution Factor	Batch Number 45715 46352 Batch Number	Prepared or Analyzed 12/22/11 21:06 12/29/11 11:53 La Prepared or Analyzed	Analyst RJ ZLR Ib Sample I Pe Analyst	ID: 480-14343- Matrix: Soliest arcent Solids: 85 Lab TAL BUF TAL BUF D: 480-14343- Matrix: Soliest arcent Solids: 92
Client Samp Date Collected: Date Received: Date Received: Prep Type Total/NA Total/NA Client Sampl Date Collected: Prep Type Total/NA Total/NA Total/NA	le ID: EE4 (6 : 12/15/11 11:1 12/21/11 11:0 Batch Type Analysis Analysis Ie ID: EE4 (8 : 12/15/11 11:1 12/21/11 11:0 Batch Type Analysis Analysis e ID: EE4 (1 12/15/11 11:2	5-8) 10 10 10 10 10 10 10 10 10 10		Dilution Factor 1 1 Dilution Factor 1	Batch Number 45715 46352 Batch Number 45715	La Prepared or Analyzed 12/22/11 21:06 12/29/11 11:53 La Prepared or Analyzed 12/22/11 21:31 12/29/11 11:53	Analyst RJ ZLR Analyst RJ ZLR Analyst RJ ZLR Analyst RJ ZLR	ID: 480-14343- Matrix: Soli ercent Solids: 85 TAL BUF TAL BUF D: 480-14343- Matrix: Soli ercent Solids: 92.
Client Samp Date Collected: Date Received: Date Received: Prep Type Total/NA Total/NA Client Samp Date Collected: Date Received: Prep Type Total/NA	le ID: EE4 (0 : 12/15/11 11:1 12/21/11 11:0 Batch Type Analysis Analysis Ie ID: EE4 (8 : 12/15/11 11:1 12/21/11 11:0 Batch Type Analysis Analysis Analysis e ID: EE4 (1 : 12/15/11 11:2 12/21/11 11:0	5-8) 10 10 10 10 10 10 10 10 10 10		Dilution Factor 1 1 1 Dilution Factor 1 1	Batch Number 45715 46352 Batch Number 45715 46352	La Prepared or Analyzed 12/22/11 21:06 12/29/11 11:53 La Prepared or Analyzed 12/22/11 21:31 12/29/11 11:53 La	Analyst RJ ZLR Analyst RJ ZLR Analyst RJ ZLR Analyst RJ ZLR	ID: 480-14343- Matrix: Soli ercent Solids: 85, TAL BUF TAL BUF D: 480-14343- Matrix: Soli ercent Solids: 92. Lab TAL BUF TAL BUF TAL BUF TAL BUF
Client Sampl Date Collected: Date Received: Prep Type Total/NA Total/NA Client Sampl Date Collected: Date Received: Prep Type Total/NA Total/NA Client Sampl Date Collected: Date Collected: Date Received:	le ID: EE4 (0 : 12/15/11 11:1 12/21/11 11:0 Batch Type Analysis Analysis Ie ID: EE4 (8 : 12/15/11 11:1 12/21/11 11:0 Batch Type Analysis Analysis e ID: EE4 (1 12/15/11 11:2 12/21/11 11:0 Batch	5-8) 10 10 10 10 10 10 10 10 10 10	Run	Dilution Factor 1 1 1 Dilution Factor 1 1 1	Batch Number 45715 46352 Batch Number 45715 46352 Batch	Prepared or Analyzed 12/22/11 21:06 12/29/11 11:53 La Prepared or Analyzed 12/22/11 21:31 12/29/11 11:53 La Prepared	Analyst RJ ZLR Analyst RJ ZLR Analyst RJ ZLR Analyst RJ ZLR Analyst Pe	ID: 480-14343- Matrix: Soli ercent Solids: 85. Lab TAL BUF TAL BUF D: 480-14343- Matrix: Soli ercent Solids: 92. Lab TAL BUF TAL BUF D: 480-14343-1 Matrix: Soli ercent Solids: 85.
Client Samp Date Collected: Date Received: Date Received: Prep Type Total/NA Total/NA Client Sampl Date Collected: Prep Type Total/NA Total/NA Total/NA	le ID: EE4 (0 : 12/15/11 11:1 12/21/11 11:0 Batch Type Analysis Analysis Ie ID: EE4 (8 : 12/15/11 11:1 12/21/11 11:0 Batch Type Analysis Analysis Analysis e ID: EE4 (1 : 12/15/11 11:2 12/21/11 11:0	5-8) 10 10 10 10 10 10 10 10 10 10		Dilution Factor 1 1 1 Dilution Factor 1 1	Batch Number 45715 46352 Batch Number 45715 46352	La Prepared or Analyzed 12/22/11 21:06 12/29/11 11:53 La Prepared or Analyzed 12/22/11 21:31 12/29/11 11:53 La	Analyst RJ ZLR Analyst RJ ZLR Analyst RJ ZLR Analyst RJ ZLR	ID: 480-14343- Matrix: Soli ercent Solids: 85 TAL BUF TAL BUF D: 480-14343- Matrix: Soli ercent Solids: 92.

Client: Groundwater & Environmental Services Inc. Project/Site: NYSDEC - Mr. C's Dry Cleaners

TestAmerica Job ID: 480-14343-1

Date Collected		24				L		ID: 480-14343 Matrix: So
Date Received	: 12/21/11 11:0	00					P	ercent Solids: 84
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	46340	12/29/11 14:30	RJ	TAL BUF
Total/NA	Analysis	Moisture		1	46352	12/29/11 11:53	ZLR	TAL BUF
Client Samp	le ID: EE3 ()	2-4)				La	ab Sample	ID: 480-14343
Date Collected	: 12/16/11 09::	38					car strange is	Matrix: So
Date Received:	12/21/11 11:0	00					P	ercent Solids: 84
7	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	1.6
Total/NA	Analysis	8260B		1	46340	12/29/11 14:55	Analyst RJ	Lab TAL BUF
Total/NA	Analysis	Moisture		1	46352	12/29/11 11:53	ZLR	TAL BUF
						122011111.00	ZLIN	TAL BUP
Client Sampl	the second second second second					La	b Sample	ID: 480-14343
Date Collected: Date Received:								Matrix: So
Jate Neceweu.	12/21/11 11.0						Pe	ercent Solids: 93
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	46340	12/29/11 15:21	RJ	TAL BUF
		12-10-1			102120	alaria a secola	Sec.	
그렇게 다니지 않는 것 같아?				1	46352	12/29/11 11:53	<sup>ZLR</sup> Sample IE	TAL BUF
Client Sampl	e ID: EE3 (8 12/16/11 11:4	3-10) 14		1	46352		o Sample IE	): 480-14343- Matrix: So
Client Sampl	e ID: EE3 (8 12/16/11 11:4 12/21/11 11:0	3-10) 14 0				Lat	o Sample IE	): 480-14343-1 Matrix: Sol
Client Sampl Date Collected: Date Received:	e ID: EE3 (8 12/16/11 11:4 12/21/11 11:0 Batch	3-10) 14 0 Batch	Run	Dilution	Batch	Lat	) Sample IE Pe	): 480-14343- Matrix: Sol ercent Solids: 91
Client Sampl	e ID: EE3 (8 12/16/11 11:4 12/21/11 11:0	3-10) 14 0	Run			Lat	) Sample IE Pe Analyst	): 480-14343 Matrix: Sol ercent Solids: 91 Lab
Client Sampl Date Collected: Date Received: Prep Type	e ID: EE3 (8 12/16/11 11:4 12/21/11 11:0 Batch Type	3-10) 44 0 Batch Method	Run	Dilution Factor	Batch Number	Lat Prepared or Analyzed	) Sample IE Pe	): 480-14343-1 Matrix: Sol ercent Solids: 91
Client Sampl Date Collected: Date Received: Prep Type Total/NA Total/NA	e ID: EE3 (8 12/16/11 11:4 12/21/11 11:0 Batch Type Analysis Analysis	3-10) 44 0 Batch Method 8260B Moisture	Run	Dilution Factor 1	Batch Number 46340	Prepared or Analyzed 12/29/11 15:46 12/29/11 11:53	Sample IE Pe Analyst RJ ZLR	): 480-14343-1 Matrix: Sol ercent Solids: 91 Lab TAL BUF TAL BUF
Client Sampl Date Collected: Date Received: Prep Type Total/NA Total/NA Client Sampl	e ID: EE3 (8 12/16/11 11:4 12/21/11 11:0 Batch Type Analysis Analysis e ID: EE3 (1	Batch Method 8260B Moisture	Run	Dilution Factor 1	Batch Number 46340	Prepared or Analyzed 12/29/11 15:46 12/29/11 11:53	Sample IE Pe Analyst RJ ZLR	): 480-14343-1 Matrix: Sol ercent Solids: 91 Lab TAL BUF TAL BUF TAL BUF
Client Sampl Date Collected: Date Received: Date Received: Prep Type Total/NA Total/NA Total/NA Client Sampl Date Collected:	e ID: EE3 (8 12/16/11 11:4 12/21/11 11:0 Batch Type Analysis Analysis e ID: EE3 (1 12/16/11 11:5	3-10) 44 0 Batch Method 8260B Moisture 10-12) 50	Run	Dilution Factor 1	Batch Number 46340	Prepared or Analyzed 12/29/11 15:46 12/29/11 11:53	Sample IE Pe Analyst RJ ZLR Sample IE	): 480-14343-1 Matrix: Sol ercent Solids: 91 Lab TAL BUF TAL BUF TAL BUF 2: 480-14343-1 Matrix: Sol
Client Sampl Date Collected: Date Received: Date Received: Prep Type Total/NA Total/NA Total/NA	e ID: EE3 (8 12/16/11 11:4 12/21/11 11:0 Batch Type Analysis Analysis e ID: EE3 (1 12/16/11 11:5 12/21/11 11:0	3-10) 44 0 Batch Method 8260B Moisture 10-12) 50 0	Run	Dilution Factor 1	Batch Number 46340 46352	Prepared or Analyzed 12/29/11 15:46 12/29/11 11:53 Lat	Sample IE Pe Analyst RJ ZLR Sample IE	): 480-14343-1 Matrix: Sol ercent Solids: 91 Lab TAL BUF TAL BUF TAL BUF 2: 480-14343-1 Matrix: Sol
Client Sampl Date Collected: Date Received: Prep Type Total/NA Total/NA Client Sampl Date Collected: Date Received:	e ID: EE3 (8 12/16/11 11:4 12/21/11 11:0 Batch Type Analysis Analysis e ID: EE3 (1 12/16/11 11:5 12/21/11 11:0 Batch	3-10) 44 0 Batch Method 8260B Moisture 10-12) 00 0 Batch		Dilution Factor 1 1 Dilution	Batch Number 46340 46352 Batch	Prepared or Analyzed 12/29/11 15:46 12/29/11 11:53 Lat Prepared	Sample IE Pe Analyst RJ ZLR Sample IE Pe	0: 480-14343-1 Matrix: Sol ercent Solids: 91 Lab TAL BUF TAL BUF TAL BUF 0: 480-14343-1 Matrix: Sol ercent Solids: 87
Client Sampl Date Collected: Date Received: Date Received: Total/NA Total/NA Client Sampl Date Collected: Date Received: Prep Type	e ID: EE3 (8 12/16/11 11:4 12/21/11 11:0 Batch Type Analysis Analysis e ID: EE3 (1 12/16/11 11:5 12/21/11 11:0 Batch Type	3-10) 44 0 Batch Method 8260B Moisture 10-12) 0 Batch Method	Run	Dilution Factor 1 1 Dilution Factor	Batch Number 46340 46352 Batch Number	Prepared or Analyzed 12/29/11 15:46 12/29/11 11:53 Lak Prepared or Analyzed	Sample IE Pe Analyst RJ ZLR Sample IE Pe Analyst	): 480-14343- Matrix: So ercent Solids: 9' Lab TAL BUF TAL BUF TAL BUF 2: 480-14343- Matrix: So ercent Solids: 87 Lab
Client Sampl Date Collected: Date Received: Prep Type Total/NA Total/NA Client Sampl Date Collected: Date Received: Prep Type Total/NA	e ID: EE3 (8 12/16/11 11:4 12/21/11 11:0 Batch Type Analysis Analysis e ID: EE3 (1 12/16/11 11:5 12/21/11 11:0 Batch Type Analysis	3-10) 14 0 Batch Method 8260B Moisture 10-12) 0 Batch Method 8260B		Dilution Factor 1 1 Dilution Factor 1	Batch Number 46340 46352 Batch Number 46340	Prepared or Analyzed 12/29/11 15:46 12/29/11 11:53 Lat Prepared or Analyzed 12/29/11 16:12	Sample IE Pe Analyst RJ ZLR Sample IE Pe Analyst RJ	): 480-14343-1 Matrix: Sol ercent Solids: 91 Lab TAL BUF TAL BUF TAL BUF 0: 480-14343-1 Matrix: Sol ercent Solids: 87 Lab TAL BUF
Client Sampl Date Collected: Date Received: Date Received: Total/NA Total/NA Client Sampl Date Collected: Date Received: Prep Type	e ID: EE3 (8 12/16/11 11:4 12/21/11 11:0 Batch Type Analysis Analysis e ID: EE3 (1 12/16/11 11:5 12/21/11 11:0 Batch Type	3-10) 44 0 Batch Method 8260B Moisture 10-12) 0 Batch Method		Dilution Factor 1 1 Dilution Factor	Batch Number 46340 46352 Batch Number	Prepared or Analyzed 12/29/11 15:46 12/29/11 11:53 Lak Prepared or Analyzed	Sample IE Pe Analyst RJ ZLR Sample IE Pe Analyst	): 480-14343-1 Matrix: Sol ercent Solids: 91 Lab TAL BUF TAL BUF 2: 480-14343-1 Matrix: Sol ercent Solids: 87 Lab
Client Sampl Date Collected: Date Received: Date Received: Total/NA Total/NA Client Sampl Date Collected: Date Received: Prep Type Total/NA Total/NA Total/NA	e ID: EE3 (8 12/16/11 11:4 12/21/11 11:0 Batch Type Analysis Analysis e ID: EE3 (1 12/16/11 11:5 12/21/11 11:0 Batch Type Analysis Analysis Analysis	3-10) 14 0 Batch Method 8260B Moisture 10-12) 00 Batch Method 8260B Moisture 2-14)		Dilution Factor 1 1 Dilution Factor 1	Batch Number 46340 46352 Batch Number 46340	Lat Prepared or Analyzed 12/29/11 15:46 12/29/11 11:53 Lat Prepared or Analyzed 12/29/11 16:12 12/29/11 11:53	Sample II Pe Analyst RJ ZLR Sample II Pe Analyst RJ ZLR	): 480-14343-1 Matrix: Sol ercent Solids: 91 Lab TAL BUF TAL BUF TAL BUF 0: 480-14343-1 Matrix: Sol ercent Solids: 87 Lab TAL BUF
Client Sampl Date Collected: Date Received: Date Received: Total/NA Total/NA Client Sampl Date Collected: Date Received: Prep Type Total/NA Total/NA Total/NA	e ID: EE3 (8 12/16/11 11:4 12/21/11 11:0 Batch Type Analysis Analysis e ID: EE3 (1 12/16/11 11:5 12/21/11 11:0 Batch Type Analysis Analysis Analysis e ID: EE3 (1 12/16/11 11:5	3-10) 14 0 Batch Method 8260B Moisture 10-12) 00 Batch Method 8260B Moisture 2-14) 6		Dilution Factor 1 1 Dilution Factor 1	Batch Number 46340 46352 Batch Number 46340	Lat Prepared or Analyzed 12/29/11 15:46 12/29/11 11:53 Lat Prepared or Analyzed 12/29/11 16:12 12/29/11 11:53	Sample IE Pe Analyst RJ ZLR Sample IE Pe Analyst RJ ZLR	2: 480-14343-1 Matrix: Sol ercent Solids: 91 Lab TAL BUF TAL BUF TAL BUF 2: 480-14343-1 Matrix: Sol TAL BUF TAL BUF TAL BUF
Client Sampl Date Collected: Date Received: Date Received: Total/NA Total/NA Client Sampl Date Collected: Date Received: Date Received: Total/NA Total/NA	e ID: EE3 (8 12/16/11 11:4 12/21/11 11:0 Batch Type Analysis Analysis e ID: EE3 (1 12/16/11 11:5 12/21/11 11:0 Batch Type Analysis Analysis e ID: EE3 (1 12/16/11 11:5 12/21/11 11:0	3-10) 14 0 Batch Method 8260B Moisture 10-12) 00 0 Batch Method 8260B Moisture 2-14) 6 0		Dilution Factor 1 1 1 Dilution Factor 1 1	Batch Number 46340 46352 Batch Number 46340 46352	Prepared or Analyzed 12/29/11 15:46 12/29/11 11:53 Lat Prepared or Analyzed 12/29/11 16:12 12/29/11 11:53	Sample IE Pe Analyst RJ ZLR Sample IE Pe Analyst RJ ZLR	2: 480-14343-1 Matrix: Sol ercent Solids: 91 Lab TAL BUF TAL BUF TAL BUF 2: 480-14343-1 Matrix: Sol TAL BUF TAL BUF TAL BUF
Client Sampl Date Collected: Date Received: Date Received: Total/NA Total/NA Client Sampl Date Collected: Date Received: Total/NA Total/NA Total/NA	e ID: EE3 (8 12/16/11 11:4 12/21/11 11:0 Batch Type Analysis Analysis e ID: EE3 (1 12/16/11 11:5 12/21/11 11:0 Batch Type Analysis Analysis e ID: EE3 (1 12/16/11 11:5 12/21/11 11:0	3-10) 14 0 Batch Method 8260B Moisture 10-12) 00 Batch Method 8260B Moisture 2-14) 6 0 Batch	Run	Dilution Factor 1 1 1 Dilution Factor 1 1 Dilution	Batch Number 46340 46352 Batch Number 46340 46352 Batch	Lat Prepared or Analyzed 12/29/11 15:46 12/29/11 11:53 Lat Prepared or Analyzed 12/29/11 16:12 12/29/11 11:53	Sample IE Pe Analyst RJ ZLR Sample IE Pe Analyst RJ ZLR	2: 480-14343-1 Matrix: Sol ercent Solids: 91 Lab TAL BUF TAL BUF TAL BUF 2: 480-14343-1 Matrix: Sol TAL BUF TAL BUF TAL BUF
Client Sampl Date Collected: Date Received: Date Received: Total/NA Total/NA Client Sampl Date Collected: Date Received: Total/NA Total/NA Total/NA Client Sampl Date Collected: Date Received:	e ID: EE3 (8 12/16/11 11:4 12/21/11 11:0 Batch Type Analysis Analysis e ID: EE3 (1 12/16/11 11:5 12/21/11 11:0 Batch Type Analysis e ID: EE3 (1 12/16/11 11:5 12/21/11 11:0 Batch Type	3-10) 14 0 Batch Method 8260B Moisture 10-12) 00 Batch Method 8260B Moisture 2-14) 6 0 Batch Method		Dilution Factor 1 1 1 1 Dilution Factor 1 1 Dilution Factor	Batch Number 46340 46352 Batch Number 46340 46352 Batch Number	Prepared or Analyzed 12/29/11 15:46 12/29/11 11:53 Lat Prepared or Analyzed 12/29/11 11:53 Lab Prepared or Analyzed	Sample IE Pe Analyst RJ ZLR Sample IE Pe Analyst Sample ID Pe Analyst	2: 480-14343-1 Matrix: Sol ercent Solids: 91 Lab TAL BUF TAL BUF TAL BUF 2: 480-14343-1 Matrix: Sol TAL BUF TAL BUF TAL BUF 2: 480-14343-1 Matrix: Sol rcent Solids: 88 Lab
Client Sampl Date Collected: Date Received: Date Received: Total/NA Total/NA Client Sampl Date Collected: Date Received: Total/NA Total/NA Total/NA	e ID: EE3 (8 12/16/11 11:4 12/21/11 11:0 Batch Type Analysis Analysis e ID: EE3 (1 12/16/11 11:5 12/21/11 11:0 Batch Type Analysis Analysis e ID: EE3 (1 12/16/11 11:5 12/21/11 11:0	3-10) 14 0 Batch Method 8260B Moisture 10-12) 00 Batch Method 8260B Moisture 2-14) 6 0 Batch	Run	Dilution Factor 1 1 1 Dilution Factor 1 1 Dilution	Batch Number 46340 46352 Batch Number 46340 46352 Batch	Prepared or Analyzed 12/29/11 15:46 12/29/11 11:53 Lat Prepared or Analyzed 12/29/11 16:12 12/29/11 11:53 Lab	Sample IE Pe Analyst RJ ZLR Sample IE Pe Analyst RJ ZLR Sample ID Pe	2: 480-14343- Matrix: Sol ercent Solids: 91 Lab TAL BUF TAL BUF TAL BUF 2: 480-14343-1 Matrix: Sol TAL BUF TAL BUF TAL BUF 2: 480-14343-1 Matrix: Sol rcent Solids: 88

Lab Sample ID: 480-14343-14

Matrix: Solid

Percent Solids: 89.0

5

le ID: EE3 (	14-16)				Lat	Sample II	0: 480-14343-13
: 12/16/11 12:0	06					a contra a	Matrix: Solid
: 12/21/11 11:0	0					P	ercent Solids: 90.6
Batch	Batch		Dilution	Batch	Prepared		
Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Analysis	8260B		1	46340	12/29/11 17:02	RJ	TAL BUF
Analysis	Moisture		1	46352	12/29/11 11:53	ZLR	TAL BUF
	: 12/16/11 12:0 : 12/21/11 11:0 Batch Type Analysis	Type         Method           Analysis         8260B	: 12/16/11 12:06 : 12/21/11 11:00 Batch Batch Type Method Run Analysis 8260B	: 12/16/11 12:06 : 12/21/11 11:00 Batch Batch Dilution Type Method Run Factor Analysis 8260B 1	: 12/16/11 12:06 : 12/21/11 11:00 Batch Batch Dilution Batch Type Method Run Factor Number Analysis 8260B 1 46340	: 12/16/11 12:06 : 12/21/11 11:00 Batch Batch Dilution Batch Prepared Type Method Run Factor Number or Analyzed Analysis 8260B 1 46340 12/29/11 17:02	: 12/16/11 12:06       Present         : 12/21/11 11:00       Prepared         Batch       Batch       Dilution       Batch       Prepared         Type       Method       Run       Factor       Number       or Analyzed       Analyst         Analysis       8260B       1       46340       12/29/11 17:02       RJ

#### Client Sample ID: EE3 (16-18) Date Collected: 12/16/11 12:11 Date Received: 12/21/11 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	46340	12/29/11 17:28	RJ	TAL BUF
Total/NA	Analysis	8260B	DL	1	46340	12/29/11 19:38	RJ	TAL BUF
Total/NA	Analysis	Moisture		1	46352	12/29/11 11:53	ZLR	TAL BUF

#### Client Sample ID: EE3 (20-22) Date Collected: 12/16/11 12:35 Date Received: 12/21/11 11:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	46340	12/29/11 17:53	RJ	TAL BUF
Total/NA	Analysis	8260B	DL	1	46340	12/29/11 20:03	RJ	TAL BUF
Total/NA	Analysis	Moisture		1	46352	12/29/11 11:53	ZLR	TAL BUF

# Client Sample ID: EE3 (22-24) Date Collected: 12/16/11 12:40 Date Received: 12/21/11 11:00

Matrix: Solid Percent Solids: 86.9

Lab Sample ID: 480-14343-15

Lab Sample ID:	480-14343-16
	Matrix: Solid
Per	cent Solids: 81.0

Lab Sample ID: 480-14343-17

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	46340	12/29/11 18:21	RJ	TAL BUF
Total/NA	Analysis	Moisture		1	46352	12/29/11 11:53	ZLR	TAL BUF

#### Client Sample ID: EE3 (24-26) Date Collected: 12/16/11 12:50 Date Received: 12/21/11 11:00

Date Received	: 12/21/11 11:0	00					P	ercent Solids: 84.8
Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	46340	12/29/11 18:47	RJ	TAL BUF
Total/NA	Analysis	8260B	DL	1	46340	12/29/11 20:28	RJ	TAL BUF
Total/NA	Analysis	Moisture		1	46352	12/29/11 11:53	ZLR	TAL BUF

Client Samp	le ID: EE3 (	26-28)				Lat	Sample II	0: 480-14343-18
Date Collected	: 12/16/11 12:	55						Matrix: Solid
Date Received	: 12/21/11 11:0	00					P	ercent Solids: 84.0
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	46340	12/29/11 19:12	RJ	TAL BUF
Total/NA	Analysis	Moisture		1	46352	12/29/11 11:53	ZLR	TAL BUF

#### Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# **Certification Summary**

#### Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners

aboratory	Authority	Program	EPA Region	Certification ID
estAmerica Buffalo	Arkansas	State Program	6	88-0686
estAmerica Buffalo	California	NELAC	9	1169CA
estAmerica Buffalo	Connecticut	State Program	1	PH-0568
estAmerica Buffalo	Florida	NELAC	4	E87672
estAmerica Buffalo	Georgia	Georgia EPD	4	N/A
estAmerica Buffalo	Georgia	State Program	4	956
estAmerica Buffalo	Illinois	NELAC	5	100325 / 200003
estAmerica Buffalo	Iowa	State Program	7	374
stAmerica Buffalo	Kansas	NELAC	7	E-10187
stAmerica Buffalo	Kentucky	Kentucky UST	4	30
stAmerica Buffalo	Kentucky	State Program	4	90029
estAmerica Buffalo	Louisiana	NELAC	6	02031
stAmerica Buffalo	Maine	State Program	4	NY0044
stAmerica Buffalo	Maryland	State Program	3	294
stAmerica Buffalo	Massachusetts	State Program	1	M-NY044
stAmerica Buffalo	Michigan	State Program	5	9937
stAmerica Buffalo	Minnesota	NELAC	5	036-999-337
stAmerica Buffalo	New Hampshire	NELAC	1	2337
stAmerica Buffalo	New Hampshire	NELAC	1	68-00281
stAmerica Buffalo	New Jersey	NELAC	2	NY455
stAmerica Buffalo	New York	NELAC	2	10026
stAmerica Buffalo	North Dakota	State Program	8	R-176
stAmerica Buffalo	Oklahoma	State Program	6	9421
stAmerica Buffalo	Oregon	NELAC	10	NY200003
stAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
stAmerica Buffalo	Tennessee	State Program	4	TN02970
stAmerica Buffalo	Texas	NELAC	6	T104704412-08-TX
stAmerica Buffalo	USDA	USDA		P330-08-00242
stAmerica Buffalo	Virginia	NELAC Secondary AB	3	460185
stAmerica Buffalo	Virginia	State Program	3	278
stAmerica Buffalo	Washington	State Program	10	C1677
stAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

#### Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's Dry Cleaners

7

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

#### Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

THE LEADER IN ENVIRONM	ENTAL TESTING																												
	nt Name: GES																TA Acco												
	Address: 158 Sonwil					-									÷.,	.3			As per acco	unt numt	Ser.		Carl Martin		0#:		1.1	and the second	
	ect Mgr: Will Welling		225					1					_				Repo	ort To	: Steve Loitte	n (sleitfe	ninaeso			Car - Secondary			C.A		at und,
Consultant Proj	ect Mgr: Steve Leitte	en .								_		-			-	P	Project I	Namo	. Francisco	- B - 25.35.					4.6°	-	1.4.6	11	
							-	-							Ma		tail # (Mil roject (A		NYSDEC	Wr C's	51 .			1.17.	11.2		1.411		
Consultant Telephone I	Number: 800-287-78 e: (Print) Nicole Jarzy					1	ax No.	: 716	706-0	078					-		Site Ad	Idress	s 586 Main Su	réel									
Sampler Si	gnature:				_			-						-					East Aurora,	NY					~~~~~				
		1					-								Negu	INATOR	y Distric	a (CA)	1							-			-
					-	-	<b>_</b>	Pre	serval	ive		_		Matrix						An	alyze F	or:	-						
		•	Shipped		T				ow Label)	(inder)																	s. Days)	(ou)	-
	Date Sampled	Time Sampled	No. of Containers	Grab	Compasite	Field Filtered	Methanol Sodium Bisultate	(Blue Label)	SD, Plastic (Yello	SO, Glass(Yelow,	None (Black Label)	Groundwater Westewater	Drinking Water	Studge		Other (specify)	Full List 8260									JSH TAT (Pre-Schedo	request (in Bus.	ax Results (yes or no)	Due Date of Report
mple ID or Field ID			-	10		Ē	2 8	¥:	ŹÍ	źź	ž	5 3	ð	ភ	3	ð	L.			1	-				_	Rust	TAT	Fax	Due
-24(0-2)		11-1-	1		x			11		1	Ň				X		X					1		- 15	51.2	-	STO		
EE4 (2-4)	12-11-11	1055	1		X						X				x		×										1		
224 (4-6)	12-15-11	1103	1	1	Y			Π	П		i				1	T	T	-									-		
224 (6-3)	12-15-11	110	1		i			T		1			$\mathbf{T}$				11			001			-	-		-	11-	1	
824 (8-10)	12-15-11	1119	1		T			11	$\mathbf{H}$	+	***	+	$\mathbf{H}$				11			-		-		-			++	-	-
EE4 (10-12)	12-15-11	the statement of the st	1.		11	1			$\mathbf{H}$	+	H	+					++-			-	1	-					++-		-
Et3 (0-2)	12-15-11		<u>                                     </u>			-	H	+	+	+		+	+	-			++-			-				-	-	1	11	-	
863 (2-4)	12-16-11		1	-	11			++	+	+	##	+	+		+	-	++	_		-		-	-	-	-	-	11	1	_
E3 (4-5)	12-16-11	10150	H		11-	-		H	+	+		+	+	-	-	-					-	-	-		-	-	No		_
EE3 (8-10)	and the second se	1	++-	1-	11/-	-	$\vdash$	++	++	+	#.	+	++	-	+-	-	11	_					-	X	-		V		_
CC S (S 10)	12-16-11	1144	11		d					-	M				V	ľ	V						1	1.	1.	1	11		
ID TA						/	1												Samp	erature L le Contai Free of	Jpon Re Iners Int	lact?	(3	T.P	/	Y		N	
hry.	12-16-1	n –	170	ma D	Rocairto		In		a	B	)	2	-21-	Date ))		10	Time 30	- I	QC Deliverabl Level 2 "It will be the	es (plens	e circle o Level 3	(anc		vel 4			Oth		
thinguisted by:	12-21-1	le []	1100		Receive	un	0	4	7		Bul	= ,	1	Date					consultant to by phone or fi	notify the ex that a r	TestAm	erica Pro iple will b	ect Man	POPT		14 - 17 14 - 17	9 	-	5 . A 

6

# TestAmerico

Page 47 of 49

12/30/2011

Add	ame: GES ress: 158 Sonwi	I Drive									_		-		-	3	TA A				2.42				P	0#:					
City/Stab	Zip: Cheektowa	aga, NY 14	225										_		-		R	aport	To: As per	e Leitter	nt num	ber	online or	1							-
DEC Project Consultant Project	Mgr: Will Wellin											_	-		2		Proje	ct Na	me			C.	1		5	·				-	-
	INBL. DIEVE CELL	un		-					-		-	-			-		etall #			DEAL						-					2
Consultant Telephone Nur	nber: 800-287-70	857			3.52	F	ax No.	: 716	708-	0078		-			- '	wajor			#): NYS			<u>a.</u> i	the tr	- 1. P		1	ā.,			199	-
Sampler Name: (	Print) Nicole Jarz	yniecki						2.2		_							City, S	itate,	Zip East	Aurora,	NY	-									-
Sampler Signa	ture: h										-			_	Re	gulato	ary Dis	trict (	CA)					-		1.1					
							-	Pre	serva	lhie		1	-	Matri	iv.	_	-								_		-				-
		1	8				TT	TT	T	TT	T	T	T	IVING	T	T	1	T	1-	1	A	alyze F	or:				-	12	1-	-	1
umple jD or Field ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composita	Field Filtered	Melhanol Bodum Beutlale	HCX (Blue Label)	NaUH ( Orange Label) H <sub>2</sub> 80, Plastic (Yellow Label)	H <sub>2</sub> SO <sub>4</sub> Glaus(Yellow Label)	None (Black Label)	Groundwater	Wastewaler Drinking Water	Sludge	108	Other (specify)	Full List 8260										USH TAT Pro-octoodulo :	AT request (in Bus. Days.	ax Results (yes or no)	Due Date of Report	
883 (10-12)	12-16-11	1150	12		V	1	H	$^{\dagger\dagger}$	1		V		+	1-	Tv	-	X	-	1	+	+						1 3	10	1	8	ł
583 (12-14)	1	1156	-		A		+	++	+	++	1	+	+	-	+	+		-		-	-						-	Sto	-		
			++-		+		++	++	-		+++	4	+	-	+	-	11	-	-	1	-			_		D ( 2		11			
		1206	11-	-	+	-	++	11	-		44		1	-	11	1				1.000			·	1.11	1.1	- 1 I I I	16	11			
E3 (16-18)		12/1	11								11				11	1.1		1									1	TT			
83 (20-22)	11	1235			1	-		11	1				1	1	11	T	T	T			1						1	+++		-	. S
883 (22-24)	T	1240			1		H	11	1		1		+	1	11	-	H	+		1-	-		-+				1-	++		-	
EE3 (24-26)	-++				1		┢┼╴	++			#	-				-		-	-	-		-	-			-	-	11			
	-1-	1250	H		+-	-	++	++	+		11	$\square$	+	1	11	1	11	1	1				224				100	11		1	
583 (26.28		1255	V	-	Y		11		-		V		-		V		V											V			Ì
			-	-		-	11														1		T				T				l i
		1			1.01	1.5								1			1111								P	1	1			5.5	
mments/Special Instructions:						1	- 4		-		-	-						L	Labor	Sampl	e Conta	lis: Joon Re iners Ini Headsp	tact?	2	5.0	Ē	¥		NNN		Fr
Inquished by:	Dar		Tirr	ne li	Recorder	by:	11	1	1		1	T	-	Date		T	Tim		QC De			e circle c									
11-	12-16	11	1760	5	CV	in	il. I		11	ES	1	1	17.	U.	1)	11/	30	É.	Level 2	2		Level 3		Le	vel 4			Dihe	or	1	

6

.

# Login Sample Receipt Checklist

Client: Groundwater & Environmental Services Inc

Login Number: 14343 List Number: 1 Creator: Janish, Carl

Question	Answer	Comment	
Radioactivity either was not measured or, if measured, is at or below background	True		
The cooler's custody seal, if present, is intact.	True		
The cooler or samples do not appear to have been compromised or tampered with.	True		
Samples were received on ice.	True		
Cooler Temperature is acceptable.	True		
Cooler Temperature is recorded.	True		
COC is present.	True		
COC is filled out in ink and legible.	True		
COC is filled out with all pertinent information.	True		
Is the Field Sampler's name present on COC?	True		
There are no discrepancies between the sample IDs on the containers and the COC.	True		
Samples are received within Holding Time.	True		
Sample containers have legible labels.	True		
Containers are not broken or leaking.	True		
Sample collection date/times are provided.	True		
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified	True		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A		
If necessary, staff have been informed of any short hold time or quick TAT needs	True		
Multiphasic samples are not present.	True		
Samples do not require splitting or compositing.	True		
Sampling Company provided.	True	GES	
Samples received within 48 hours of sampling.	False		
Samples requiring field filtration have been filtered in the field.	N/A		
Chlorine Residual checked.	N/A		

10

List Source: TestAmerica Buffalo

# APPENDIX D

Well Development Records

1/23/12 & 1/24/12

Date:

Personnel:

Tom Palmer and Jen Siniscalchi

Well ID	Well Diameter (inches)	Well Depth (feet)	Screen Depth (feet)	Depth to Water (feet)	Water Column Height (feet)	Multiplier	Volume of Water in Well (gallons)*
MPI-7I-R	2	32.2	28.9-38.9	10.46	21.74	0.163	3.5
EE-4	2	14.25	5-15	11.86	2.39	0.163	0.4
ESI-2-R	2	18.9	9-19	12.48	6.42	0.163	1.0
EE-3	2	28	18-28	10.61	17.93	0.163	2.8
MPI-14B-R	2	28.2	15-30	9.65	18.55	0.163	3.0
MPI-2S-R	2	18.4	8-18	10.64	7.76	0.163	1.3

**Notes:** MPI-7I-R initially measured at 32.2 feet, after surging to remove fines measured at 38.5 feet \* = approximate gallons based on calulations, rounded to the nearest tenth of a gallon

Date:1/23/2012Personnel:Tom Palmer and Jen Siniscalchi

## **Monitoring Well Development Record**

#### Well ID: MPI-14B-R

			Start: 09:00		Finish: 10:45
Time (hrs:min:sec)	Water Depth (feet)	Turbidity (NTU)	рН	Conductivity (mS/cm)	Comments
0:00:00	9.65	800	8.78	1.10	
0:06:38	10.40	800	7.70	1.57	
0:10:19	10.40	627	7.54	1.69	
0:16:00	10.52	360	7.36	1.79	
0:20:42	10.52	700	7.28	1.87	
0:25:05	9.98	800	7.24	1.89	pump adjustment
0:30:07	9.87	564	7.20	1.93	
0:35:35	9.87	348	7.17	1.97	
0:41:01	9.87	126	7.15	1.97	
0:52:07	9.87	49.3	7.12	1.97	
1:02:00	9.87	35.6	7.12	1.99	
1:11:00	9.87	30.1	7.12	2.00	

Notes:

hrs = hours

min = minutes

sec = seconds

time recorded is time reading was collected since beginning development  $\ensuremath{\mathsf{NTU}}$  = nephelometric turbidity units

Development water was pumped to sump from 11:50 to 11:35

A total of approximately 32 gallons of water were removed from the well

Date:1/23/2012Personnel:Tom Palmer and Jen Siniscalchi

#### **Monitoring Well Development Record**

Well ID: MPI-2S-R Start: 12:15 Finish: 13:25 Time Water Depth Turbidity Conductivity (hrs:min:sec) (feet) (NTU) рΗ (mS/cm) Comments 0:00:00 10.64 800 7.61 1.04 0:11:20 469 7.30 1.20 11.10 0:20:33 7.25 1.20 11.16 158 0:29:36 11.17 84 7.25 1.20 0:40:46 11.17 58 7.24 1.20 0:49:03 10.96 50 7.30 1.20 pump adjustment 0:58:47 10.95 46 7.24 1.20 10.96 43 1.20 1:04:00 7.23 1:08:00 10.96 42 7.25 1.20

Notes:

hrs = hours

min = minutes

sec = seconds

time recorded is time reading was collected since beginning development  $\ensuremath{\mathsf{NTU}}$  = nephelometric turbidity units

Development water was pumped to sump from 13:40 to 14:30

A total of approximately 100 gallons of water were removed from the well

Date:1/23/2012Personnel:Tom Palmer and Jen Siniscalchi

## **Monitoring Well Development Record**

Well ID:	ESI-2-R		Start: 14:40		Finish: 15:48
Time (hrs:min:sec)	Water Depth (feet)	Turbidity (NTU)	pH	Conductivity (mS/cm)	Comments
0:00:00	12.48	800	7.56	2.14	
0:11:38	12.60	322	6.92	1.46	
0:19:15	12.60	95	6.90	1.45	
0:29:26	12.54	48	6.87	1.46	pump adjustment
0:40:15	12.54	30	6.86	1.46	
0:45:05	12.54	28.2	6.87	1.45	

Notes:

hrs = hours

min = minutes

sec = seconds

time recorded is time reading was collected since beginning development NTU = nephelometric turbidity units

Development water was pumped to sump from 15:50 to 16:30

A total of approximately 55 gallons of water were removed from the well

Notes:

Date:1/24/2012Personnel:Tom Palmer and Jen Siniscalchi

# **Monitoring Well Development Record**

Well ID:	MPI-7I-R		0, , , , , , , , , , , , , , , , , , ,		<b>-</b>
Time (hrs:min:sec)	Water Depth (feet)	Turbidity (NTU)	Start: 07:50	Conductivity (mS/cm)	Finish: 9:50 Comments
0:00:00	10.46	755	10.54	3.37	
0:14:30	24.30	800	10.13	2.73	
0:28:43	NM	800	8.57	2.68	sediment in well, surge well to remove
0:41:38	NM	800	8.47	2.67	(fine sand)
0:55:30	17.30	191	8.44	0.080	
1:04:00	26.77	189	7.69	0.095	
1:14:00	24.86	175	7.46	0.080	
1:23:00	24.72	152	7.53	0.084	
1:31:00	21.91	67	7.62	2.95	
1:36:00	20.40	36	7.48	2.75	
1:42:00	20.10	41	7.33	2.72	
1:47:00	19.90	38	7.35	2.77	
1:52:00	19.90	32	7.39	2.79	
1:58:00	19.90	36	7.39	2.79	

hrs = hours
min = minutes
sec = seconds
time recorded is time reading was collected since beginning development
NTU = nephelometric turbidity units
Development water was pumped to sump, time not recorded
A total of approximately 80 gallons of water were removed from the well
NM = Not measured

1/24/2012 Date: Personnel:

Tom Palmer and Jen Siniscalchi

## **Monitoring Well Development Record**

Well ID:	EE-4		<b>0</b> , , , , , , , , , , , , , , , , , , ,		
Time	Water Depth	Turbidity	Start: 09:00	Conductivity	Finish: 10:45
(hrs:min:sec)	(feet)	(NTU)	рН	(mS/cm)	Comments
0:00:00	11.86	800	7.85	1.59	sheen detected on purge water
0:11:11	12.86	800	7.36	1.31	
0:21:10	12.46	800	7.56	1.29	
0:34:50	NM	800	7.54	1.28	
0:41:10	12.94	101	7.58	1.26	
0:59:50	12.96	12.5	7.52	1.25	
1:04:00	12.96	2.9	7.45	1.24	
1:11:00	12.97	3.5	7.45	1.26	
1:16:00	12.97	4.2	7.44	1.25	

Notes:

hrs = hours min = minutes sec = seconds time recorded is time reading was collected since beginning development NTU = nephelometric turbidity units Development water was pumped to sump from 13:00 am to 13:15 A total of approximately 25 gallons of water were removed from the well NM = Not measured

Date:1/24/2012Personnel:Tom Palmer and Jen Siniscalchi

**Monitoring Well Development Record** 

Well ID:	EE-3		Start: 13:20		Finish: 14:40
Time (hrs:min:sec)	Water Depth (feet)	Turbidity (NTU)	pH	Conductivity (mS/cm)	Comments
0:00:00	10.61	800	7.48	4.13	
0:10:29	11.97	800	7.25	4.03	
0:20:13	11.93	627	7.19	4.16	
0:30:10	11.94	360	7.24	4.07	
0:40:14	11.89	700	7.18	4.04	
0:49:30	11.89	800	7.14	3.99	
0:56:07	11.90	564	7.15	3.98	
1:02:00	11.90	348	7.16	3.98	

Notes:

hrs = hours

min = minutes

sec = seconds

time recorded is time reading was collected since beginning development NTU = nephelometric turbidity units

Development water was pumped to sump from 14:45 to 15:15

A total of approximately 45 gallons of water were removed from the well

Notes:

Date:5/24/2012Personnel:Tom Palmer and Jen Siniscalchi

## **Monitoring Well Development Record**

Well ID:	ESI-5-R		Start: 8:58		Finish: 9:59
Time (hrs:min:sec)	Water Depth (feet)	Turbidity (NTU)	pH	Conductivity (mS/cm)	Comments
0:00:00	8.35	NA	7.69	5.93	Brown/silty water
0:05:22	12.95	NA	7.57	4.60	Brown/silty water
0:09:43	13.40*	NA	7.43	3.61	Brown/silty water
0:15:09	13.50*	430	7.56	3.09	
0:20:38	13.50*	175	7.42	3.020	
0:25:57	13.50*	52.5	7.18	2.860	
0:30:00	13.50*	35.5	7.14	2.770	
0:35:51	13.50*	25.3	7.33	2.660	
0:40:00	13.50*	18.6	7.33	2.60	
0:45:04	13.50*	13.4	7.31	2.53	
0:51:11	13.50*	11.9	7.31	2.54	
0:55:07	13.50*	11.5	7.32	2.53	
1:00:53	8.40	11.5	7.32	2.53	

hrs = hours min = minutes sec = seconds time recorded is time reading was collected since beginning development NTU = nephelometric turbidity units Development water was pumped to sump, time not recorded A total of approximately 80 gallons of water were removed from the well \*DTW recorded is at top of pump

Date:5/24/2012Personnel:Tom Palmer and Jen Siniscalchi

## **Monitoring Well Development Record**

Well ID:	MPI-8S-R		Start: 10:37		Finish: 11:26
Time (hrs:min:sec)	Water Depth (feet)	Turbidity (NTU)	pH	Conductivity (mS/cm)	Comments
0:00:00	10.19	NA	7.36	2.73	Brown/silty water
0:04:55	12.15	NA	7.14	3.21	Brown/silty water
0:10:07	12.23	NA	7.51	3.39	Brown/silty water
0:15:55	12.22	776	7.43	3.37	
0:20:10	12.22	410	7.29	3.43	
0:25:15	11.87	56.1	7.08	3.50	
0:30:18	11.92	23.3	7.25	3.51	
0:35:26	11.92	14.5	7.22	3.51	
0:40:27	11.89	9.6	7.23	3.51	
0:45:27	11.88	8.0	7.22	3.51	

Notes:

hrs = hours

min = minutes

sec = seconds

time recorded is time reading was collected since beginning development NTU = nephelometric turbidity units

Development water was pumped to sump, time not recorded

A total of approximately 80 gallons of water were removed from the well

NA = Not Appllicable/No Reading (due to high turbidity)

Date: Personnel: 5/24/2012 Tom Palmer and Jen Siniscalchi

#### Monitoring Well Development Record

Well ID: MPI-9S-R

			Start:12:34			
Time (hrs:min:sec)	Water Depth (feet)	Turbidity (NTU)	рН	Conductivity (mS/cm)	Comments	
0:00:00	10.46	755	10.54	3.37	Brown/silty water	
0:11:11	NM	NA	NA	NA	+See note below	
0:10:47	16.30*	NA	7.42	2.55		
0:00:00	15.16	NA	7.19	2.79	Brown/silty water	

Notes:

hrs = hours

min = minutes

sec = seconds

time recorded is time reading was collected since beginning development

NTU = nephelometric turbidity units

Development water was pumped to sump, time not recorded

A total of approximately 80 gallons of water were removed from the well

+Well pumped dry, according to work plan allowed to recharge and pumped dry again.

over a 20 minute period the well recharged 4.2 feet. There was a lot of sediment noted in the well

\*DTW recorded is at top of pump

NM = Not measured

NA = Not Appllicable/No Reading (due to high turbidity)

Date:5/24/2012Personnel:Tom Palmer and Jen Siniscalchi

# **Monitoring Well Development Record**

Well ID:	MPI-13B-R		Start: 07:50		Finish: 0.50	
			Start. 07.50		Finish: 9:50	
Time	Water Depth	Turbidity		Conductivity		
(hrs:min:sec)	(feet)	(NTU)	рН	(mS/cm)	Comments	
0:00:00	9.44	NA	7.36	1.08	Brown/silty water	
0:05:38	9.55	NA	7.53	7.74	Brown/silty water	
0:10:05	9.55	NA	7.46	1.81	Brown/silty water	
0:16:31	9.55	NA	7.45	1.86	Brown/silty water	
0:21:49	9.55	NA	7.24	1.920	Brown/silty water	
0:26:52	9.55	NA	7.01	1.950	Brown/silty water	
0:30:26	9.55	275	7.01	1.970		
0:35:09	9.55	800	7.08	1.970		
0:40:00	9.55	67.5	6.89	2.01		
0:45:03	9.55	18.6	7.09	2.01		
0:51:23	9.55	8.6	7.07	2.01		
0:55:03	9.55	5.7	7.08	2.02		
1:01:40	9.55	3.7	7.07	2.02		

Notes:

hrs = hours

min = minutes

sec = seconds

time recorded is time reading was collected since beginning development NTU = nephelometric turbidity units

Development water was pumped to sump, time not recorded

A total of approximately 80 gallons of water were removed from the well

NA = Not Appllicable/No Reading (due to high turbidity)

Mr. C's Dry Cleaners	
East Aurora, New York	
NYSDEC Region 9	

5/24/2012

Personnel: Tom Palmer and Jen Siniscalchi

Well ID	Well Diameter (inches)	Well Depth (feet)	Screen Depth (feet)	Depth to Water (feet)	Water Column Height (feet)	Multiplier	Volume of Water in Well (gallons)*
	0		F 4 F	0.05		0.400	1.0
ESI-5-R	2	14.55	5-15	8.35	6.2	0.163	1.0
MPI-8S-R	2	17.40	8-18	10.19	7.21	0.163	1.2
MPI-9S-R	2	16.52	8-18	9.66	6.86	0.163	1.1
MPI-13B-R	2	29.5	16.5-31.5	9.44	20.06	0.163	3.3

**Notes:** \* = approximate gallons based on calulations, rounded to the nearest tenth of a gallon

Date:

# <u>APPENDIX E</u>

Disposal Documentation

WASTE MANAGEMENT

#3014

Charles LF 10860 Them In Charles NV, 19930 Phi (7100 196-1880

Tickett Rabiti-

P0	
Profile	
Time Boale Operator Inbound Bross 3956 In 01/23/2012 10:41:19 INBOUND trouter Tare 25400 Out 01/23/2012 10:57:02 OUTROUND trouter Net 1166 Community	1. Like

.

1275		Sec. 14					
8	ε	101	84	0	εų:	Ε.	
_	~				×.		

	duct	1.0%	aly	UCM.	Rate		
	CIVEN-CAR TONS CON		and the second se		AVG8 0 E :	August	Deigla
1	COTM-CAD TONS COVE	100	2.08	2.000			
			5. e 10 D				ERI

hen the Driver's Signature

Total Frees Total Tickeb

179-1520

403WM

1. Generator ID Number NON-HAZARDOUS 2. Page 1 of 3. Emergency Response Phone 4. Waste Tracking Number WASTE MANIFEST 100 5. Generator's Name and Maling Address Generator's Site Address (if different than mailing address) NYSDEC AIBURN New York Generators Phone 1578-702-9638 6. Transporter & Company Name 586 Main Street East Aurora, NY 14052 U.S. EPAID Number 1 8-025 Transporter 2 Company Name U.S. EPA ID Number 8. Designated Paciny Name and Sila Address U.S. EPA ID Number Chaples Land II, Rouse 16, Chatter, N/ Faciny's Phone - 1 10. Containers 9 Waste Shipping North and Description 11. Total 12. Unit No Quantity Wt./Vol. Type Chloricoted GENERATOR 100103 lais Rolloff TI Profile # 108471NY 13. Special Har tling Instructions and Additional Information 14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and pational governmental regulations. Conerator's/Offeror's Printed/Typed Name Signature Month Day fear 1. Bert Vinna 20 ÷. 21 S 2-26 3045 D 3 15. International Shipments INT'L Import to U.S. Export from U.S. Port of entry/exit: Transporter Signature (for exports only): Date leaving U.S.: 16. Transporter Acknowledgment of Peceipt of Materials **THANSPOHIER** Transporter 1 Printed/Typed Name Signature Month Day Year Transporter 2 Printed/Typed Name Signature Month Day Year 17. Discrepancy 17a. Discrepancy Indication Space Туре Quantity Residue Partial Rejection Full Rejection Manifest Reference Number: 17b. Alternate Facility (or Generator) DESIGNATED FACILITY U.S. EPA ID Number Facility's Phone: 17c. Signature of Alternate Facility (or Generator) Month Day Year 18. Designated Facility Owner or Operator Certification of receipt of materials covered by the manifest except as noted in Item 17a Printed/Typed Name Signature Month Day Year 169-BLC-O 5 11977 (Rev. 9/09)

**TRANSPORTER #1** 



Chaffee LF 10860 Sicep 24 Chaffee, 34, 19830 Ph: 17161 506-5000

36347

Drugsmat Tickety SARSAN

Customer Name PUSBODEVELOF Ticket Date #1/22/2012 Payment Type Chedit Accor Manual Ticket# Hauling Ticket# Route State Waste Code Manifest 100 Destination PO Profile 108471NY (SO	(n†	VEDicle& 4 Container Driver Check# Billing # Gen ED() 10	400	9.01 ung	
Generator 190-NYSDECEN	STAURIPO AVS	DEG			
Tine In 017 5/2012 12:00.53 Out 01 /03/2012 12:15:43 Comments 586 Moltrer	Scale INBOUND OUTBOUND	Operator tsouter tsouter	Tobound	Gross Tare Net Tons	35860 15 35860 15 1000 15 0.50

Comments 586 MAIN ST

$\mathbb{P}r$	oduct	1_(7)%	139.8	ODM: 1	Rate	200	Asount	Origin
1	Cont Soil RCG-Ton		8.50	Tons				
2	FUEL-Fuel Surchar							ERT
3	EVF-P-Standard En	0 100		10 A				Lee.

Intal Fees Mul Tetal Tickor Driver's Signature 3F9-1500

.

403WM

C



36669

Þ

ter (s. 1997) Farle Martinez

Cheffen Le 1966 Dieze S Chulfes, Mr. Fu**ito** The Title Diversion

Custome Name ANDIDACENT ANALYS BUSAD DEVC O Convier ONLOG ONDER INCLING Ticket Date Mailer Constitute Payment Tops Creatil Account Manual Ticket# Haviing Ticket# Route State Wails Porte Manifest The Mark Si Destination FO Profile ()

In 05/14/2018 13:01:53		Openal pr	Litonand Scare	34340 16
Out 05/14/2018 13:01:53		SUSAN	Faces	36720 18
Out 05/(4/2018 13:24:13		SUSAN	(b)	1640 12
Comments SAG MAIN DT REJED AB COVE	Ek San Carneo	ARD, PAPER, MIETT	lone.	6.22

Product (25 01) USA (25) Fre downd Origin 1 NEWT-MBW 7075 100 0.02 Toric (51

Driver's Signature

403WM



11	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	1	f 3. Emergancy Response	e Phone	4. Waste T	racking Num	iber			
	5. Generator's Name and Main	13 Address	Lat Kanan	Generator's Site Address	s (if different th	nan mailing addr	ess)	ante e			
	5 Generator's Name and Mailing Address Generator's Site Address (if different than mailing address)										
	Generator's Phone	8-903 - Totel	Land In the	1		Mahu	nig v	13 Anda			
-	6 Transportes 1 Company Nam	Generator's Phone: /1.8-902-7658)									
	7. Transporter 2 Company Name U.S. EPA ID Number										
1	7. Transporter 2 Company Nam	• )				U.S. EPA ID	Number	Total Control of Contr			
	8. Designated Facility Name an	d Site Address	- 0			U.S. EPA ID	Number				
	Chatter 2	d Site Address	- 1 la - 1to I fee	NT							
	Facility's Phone: / 1/0	1- 492 - 3420				1					
	9. Waste Shipping Name			10. Conta No.	iners Type	11. Total Quantity	12. Unit Wt./Vol.				
1	1 Chilur -	the Impriles	· · · · · · · · · · · · · · · · · · ·	1							
GENERATOR		in the		Kallatt	T	S Land	The				
GEN	12										
1											
	3										
1	4		••••••••••••••••••••••••••••••••••••••								
	13. Special Handling Instructions	11100 314									
	Polic =	# 1084711	uγ								
	14. GENERATOR'S/OFFEROR'S	S CERTIFICATION: I hereby declare the d, and are in all respects in proper cond.	it the contents of this consignment a	re fully and accurately desc	nibed above b	y the proper ship	oping name, a	and are classified, packaged,			
L	Managataria Dilagora Diantat Trin	an Nama	CL.	hade del	1.1	5		Month Day Year			
1	and a second sec	in belief on th	4366	Mron We	in light	- of A	MISE C	SME			
<b>INT'L</b>	15. International Shipments	Import to U.S.	Export from I								
	Transporter Signature (for export 16. Transporter Acknowledgment			Date leavin	g U.S.:	1					
BTE	Krensporter 1 Printed/Typed Nam	· Zintert	Sig	nature	17	1	Mitter Section 1	Month Day Year			
ISPO	UHA	CIDKIV		16-14	10			IS 14/14			
TRANSPORTER	Transport 2 Printed Typed Nam	e.	Sig No	nature				Month Day , Yes			
1	17. Discrepancy						mrd				
Ĩ	17a. Discrepancy Indication Space	e Quantily	Туре	Residue	-	Partial Reje	ction	Ful Rejection			
7	17b. Alternate Fability (or General	tor)	Mary and the second second second	Manifest Reference No	imber:	U.S. EPA ID N	umber				
CILIT											
FA	Facility's Phone:										
DESIGNATED FACILITY	17c. Signature of Alternate Facility	y (or Generator)	1					Month Day Year			
SIGN	17. 11.	11 1/1		~		115					
DE:		MAK /	tals covered by the manilest except	M		14.	30	-144			
	18. Designated Paperty Owner brit Printed Typed Name	Consider a service of mater		as noted in hem 1/a latera	TA	C/	<u></u>	yenn By Year			
*		11		XJIJAA	Ar J_			D 19 122			
69.	-BLC-O 5 11977 (Rev. 9	/09)	1 - 1	78 6 2 -				TRANSPORTER #1			

WASTE MANAGEMENT Costoner News Offender LOWAENT-108-21NE Destination - Destin Destin Destinations in Ticket Only 05 (1975) - Provide Concernation Payment Fybe County det est. Manual Lohris Hauling Mulecia Route BITTIND # MDRESST State Makes Toda Manifest 2001 Destination PO Profile 1984/1974 (SOIL CUTTINGS) Generator 1985 (COLCENTIAUROPA NYDDE) In 05/14/2018 19:00:52 Concents 592 Mith GT Product Los Oly LOM Rote E for an and the second s 1 10 Driver's Gignature

403WM

.



THE LEADER IN ENVIRONMENTAL TESTING

# **ANALYTICAL REPORT**

# TestAmerica Laboratories, Inc.

TestAmerica Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

# TestAmerica Job ID: 480-14674-1 Client Project/Site: NYSDEC - Mr. C's #

# For:

Groundwater & Environmental Services Inc 158 Sonwil Drive Cheektowaga, New York 14225

Attn: Steven Leitten

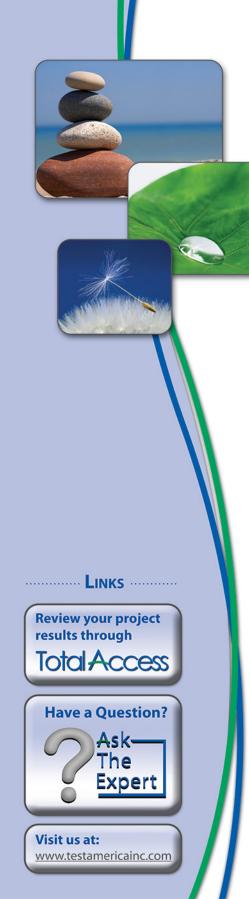
Authorized for release by: 1/9/2012 1:41:37 PM

Brian Fischer Project Manager II brian.fischer@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Lab Chronicle	8
Certification Summary	9
Method Summary	10
Sample Summary	11
Chain of Custody	12
Receipt Checklists	13

Glossary		
	LCS or LCSD exceeds the control limits	
I	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
	RPD of the LCS and LCSD exceeds the control limits	
ualifier	Qualifier Description	
SC/MS Semi	i VOA	
l	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
Qualifier	Qualifier Description	
SC/MS VOA		

Abbreviation	These commonly used abbreviations may or may not be present in this report.	3
¢	Listed under the "D" column to designate that the result is reported on a dry weight basis	4.0
%R	Percent Recovery	
CNF	Contains no Free Liquid	
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
EDL	Estimated Detection Limit	
EPA	United States Environmental Protection Agency	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
ND	Not detected at the reporting limit (or MDL or EDL if shown)	
PQL	Practical Quantitation Limit	
QC	Quality Control	
RL	Reporting Limit	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	

# 1 2 3 4 5 6 7 8 9 10

# Job ID: 480-14674-1

# Laboratory: TestAmerica Buffalo

#### Narrative

Job Narrative 480-14674-1

#### Comments

No additional comments.

#### Receipt

All samples were received in good condition within temperature requirements.

#### GC/MS VOA

Method(s) 8260B: The matrix spike duplicate (MSD) recoveries for batch 47083 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

#### GC/MS Semi VOA

Method(s) 8270C: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 47048 exceeded control limits for multiple analytes. The recoveries were within quality control acceptance limits, therefore the data has been qualified and reported.

Method(s) 8270C: The laboratory control sample duplicate (LCSD) for preparation batch 47048 exceeded control limits for multiple analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

#### **Organic Prep**

No analytical or quality issues were noted.

Date Collected: 01/05/12 13:55 Date Received: 01/06/12 07:55

# Lab Sample ID: 480-14674-1 Matrix: Solid

Percent Solids: 66.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND		7.5	0.55	ug/Kg	<u></u>		01/06/12 19:20	
1,1,2,2-Tetrachloroethane	ND		7.5	1.2	ug/Kg	¢		01/06/12 19:20	
1,1,2-Trichloroethane	ND		7.5	0.98	ug/Kg	¢		01/06/12 19:20	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		7.5	1.7	ug/Kg	¢		01/06/12 19:20	
1,1-Dichloroethane	ND		7.5	0.92	ug/Kg	¢		01/06/12 19:20	
1,1-Dichloroethene	ND		7.5	0.92	ug/Kg	¢		01/06/12 19:20	
1,2,4-Trichlorobenzene	ND		7.5	0.46	ug/Kg	¢		01/06/12 19:20	
1,2-Dibromo-3-Chloropropane	ND		7.5	3.8	ug/Kg	¢		01/06/12 19:20	
1,2-Dibromoethane	ND		7.5	0.97	ug/Kg	¢		01/06/12 19:20	
1,2-Dichlorobenzene	ND		7.5	0.59	ug/Kg	¢		01/06/12 19:20	
1,2-Dichloroethane	ND		7.5	0.38	ug/Kg	¢		01/06/12 19:20	
1,2-Dichloropropane	ND		7.5	3.8	ug/Kg	¢		01/06/12 19:20	
1,3-Dichlorobenzene	ND		7.5	0.39	ug/Kg	¢.		01/06/12 19:20	
1,4-Dichlorobenzene	ND		7.5	1.1	ug/Kg	¢		01/06/12 19:20	
2-Hexanone	ND		38	3.8	ug/Kg	¢		01/06/12 19:20	
2-Butanone (MEK)	ND		38	2.8	ug/Kg			01/06/12 19:20	
4-Methyl-2-pentanone (MIBK)	ND		38			¢		01/06/12 19:20	
Acetone	6.9	J	38	6.3	ug/Kg	¢		01/06/12 19:20	
Benzene	ND		7.5		ug/Kg	¢		01/06/12 19:20	
Bromodichloromethane	ND		7.5	1.0	ug/Kg	¢		01/06/12 19:20	
Bromoform	ND		7.5	3.8	ug/Kg	¢		01/06/12 19:20	
Bromomethane	ND		7.5		ug/Kg	¢.		01/06/12 19:20	
Carbon disulfide	ND		7.5	3.8	ug/Kg	¢		01/06/12 19:20	
Carbon tetrachloride	ND		7.5	0.73	ug/Kg	¢		01/06/12 19:20	
Chlorobenzene	ND		7.5	0.99	ug/Kg			01/06/12 19:20	
Dibromochloromethane	ND		7.5	0.96	ug/Kg	¢		01/06/12 19:20	
Chloroethane	ND		7.5	1.7		¢		01/06/12 19:20	
Chloroform	ND		7.5		ug/Kg			01/06/12 19:20	
Chloromethane	ND		7.5			¢		01/06/12 19:20	
cis-1,2-Dichloroethene	ND		7.5	0.96	ug/Kg	¢		01/06/12 19:20	
cis-1,3-Dichloropropene	ND		7.5	1.1	ug/Kg			01/06/12 19:20	
Cyclohexane	ND		7.5	1.1	ug/Kg	¢		01/06/12 19:20	
Dichlorodifluoromethane	ND		7.5		ug/Kg	¢		01/06/12 19:20	
Ethylbenzene	ND		7.5		ug/Kg			01/06/12 19:20	
sopropylbenzene	ND		7.5		ug/Kg	¢		01/06/12 19:20	
Methyl acetate	ND		7.5		ug/Kg	¢		01/06/12 19:20	
Methyl tert-butyl ether	ND		7.5		ug/Kg			01/06/12 19:20	
Vethylcyclohexane	ND		7.5	1.1	ug/Kg	¢		01/06/12 19:20	
Methylene Chloride	3.8	а	7.5		ug/Kg	¢		01/06/12 19:20	
Styrene	3.0 ND	•	7.5		ug/Kg			01/06/12 19:20	
Tetrachloroethene	ND		7.5	1.0	ug/Kg ug/Kg	¢		01/06/12 19:20	
Toluene	ND		7.5		ug/Kg ug/Kg	¢		01/06/12 19:20	
rans-1.2-Dichloroethene	ND		7.5		ug/Kg ug/Kg			01/06/12 19:20	
rans-1.3-Dichloropropene	ND		7.5		ug/Kg ug/Kg	÷		01/06/12 19:20	
Trichloroethene	ND		7.5			¢			
					ug/Kg			01/06/12 19:20	
Trichlorofluoromethane	ND		7.5		ug/Kg	¢.		01/06/12 19:20	
Vinyl chloride Xylenes, Total	ND ND		7.5 15		ug/Kg ug/Kg	¢		01/06/12 19:20 01/06/12 19:20	

Client Sample ID: DISPOSAL 1

Date Collected: 01/05/12 13:55

Date Received: 01/06/12 07:55

Di-n-octyl phthalate

Lab Sample ID: 480-14674-1

Matrix: Solid

Percent Solids: 66.5

# 5

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	123		64 - 126					01/06/12 19:20	1
Toluene-d8 (Surr)	98		71 - 125					01/06/12 19:20	1
4-Bromofluorobenzene (Surr)	102		72 - 126					01/06/12 19:20	1
Method: 8270C - Semivolatile C						_			
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		260	16	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
bis (2-chloroisopropyl) ether	ND		260	26	ug/Kg	¢ U	01/06/12 08:50	01/06/12 17:42	1
2,4,5-Trichlorophenol	ND		260	55	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
2,4,6-Trichlorophenol	ND		260	17	ug/Kg	÷	01/06/12 08:50	01/06/12 17:42	1
2,4-Dichlorophenol	ND		260	13	ug/Kg	¢. 	01/06/12 08:50	01/06/12 17:42	1
2,4-Dimethylphenol	ND		260	68	ug/Kg	÷	01/06/12 08:50	01/06/12 17:42	1
2,4-Dinitrophenol	ND		500	89	ug/Kg		01/06/12 08:50	01/06/12 17:42	1
2,4-Dinitrotoluene	ND		260	39	ug/Kg	÷.	01/06/12 08:50	01/06/12 17:42	1
2,6-Dinitrotoluene	ND		260	62	ug/Kg	÷	01/06/12 08:50	01/06/12 17:42	1
2-Chloronaphthalene	ND		260	17	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
2-Chlorophenol	ND		260	13	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
2-Methylnaphthalene	ND		260	3.1	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
2-Methylphenol	ND		260	7.8	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
2-Nitroaniline	ND		500	81	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
2-Nitrophenol	ND		260	12	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
3,3'-Dichlorobenzidine	ND		260	220	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
3-Nitroaniline	ND		500	58	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
4,6-Dinitro-2-methylphenol	ND		500	88	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
4-Bromophenyl phenyl ether	ND		260	81	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
4-Chloro-3-methylphenol	ND		260	10	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
4-Chloroaniline	ND		260	74	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
4-Chlorophenyl phenyl ether	ND		260	5.4	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
4-Methylphenol	ND		500	14	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
4-Nitroaniline	ND		500	28	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
4-Nitrophenol	ND		500	61	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
Acenaphthene	ND		260	3.0	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
Acenaphthylene	ND		260	2.1	ug/Kg	⇔	01/06/12 08:50	01/06/12 17:42	1
Acetophenone	ND		260	13	ug/Kg	¢.	01/06/12 08:50	01/06/12 17:42	1
Anthracene	29	J *	260	6.5	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
Atrazine	ND	*	260	11	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
Benzaldehyde	ND	*	260	28	ug/Kg	¢.	01/06/12 08:50	01/06/12 17:42	1
Benzo(a)anthracene	ND	*	260	4.4	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
Benzo(a)pyrene	51		260		ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
Benzo(b)fluoranthene		- J*	260	4.9	ug/Kg		01/06/12 08:50	01/06/12 17:42	1
Benzo(g,h,i)perylene	45		260	3.0	ug/Kg	⇔	01/06/12 08:50	01/06/12 17:42	1
Benzo(k)fluoranthene	28		260	2.8	ug/Kg	⇔	01/06/12 08:50	01/06/12 17:42	1
Bis(2-chloroethoxy)methane	ND		260	14	ug/Kg	ф.	01/06/12 08:50	01/06/12 17:42	1
Bis(2-chloroethyl)ether	ND		260		ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
Bis(2-ethylhexyl) phthalate	ND	*	260		ug/Kg	₽	01/06/12 08:50	01/06/12 17:42	1
Butyl benzyl phthalate	ND		260		ug/Kg	¢.	01/06/12 08:50	01/06/12 17:42	
Caprolactam	ND		260	110	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
Carbazole	ND		260		ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
Chrysene	61	· · <mark>·</mark> · · · · · · · · · ·	260		ug/Kg ug/Kg		01/06/12 08:50	01/06/12 17:42	· · · · · · · · · · · · · · · · · · ·
Di-n-butyl phthalate	ND	•	260		ug/Kg ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
			200	50	ug/itg	····	01/00/12 00:50	01/00/12 17.42	1

1

01/06/12 17:42

260

5.9 ug/Kg

🌣 01/06/12 08:50

ND

# Lab Sample ID: 480-14674-1 Matrix: Solid

Percent Solids: 66.5

5

# Client Sample ID: DISPOSAL 1 Date Collected: 01/05/12 13:55 Date Received: 01/06/12 07:55

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		260	3.0	ug/Kg	<b></b>	01/06/12 08:50	01/06/12 17:42	1
Dibenzofuran	ND		260	2.6	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
Diethyl phthalate	ND		260	7.7	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
Dimethyl phthalate	ND		260	6.6	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
Fluoranthene	61	J	260	3.7	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
Fluorene	ND		260	5.8	ug/Kg	₽	01/06/12 08:50	01/06/12 17:42	1
Hexachlorobenzene	ND		260	13	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
Hexachlorobutadiene	ND		260	13	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
Hexachlorocyclopentadiene	ND		260	77	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
Hexachloroethane	ND		260	20	ug/Kg	¢.	01/06/12 08:50	01/06/12 17:42	1
ndeno(1,2,3-cd)pyrene	38	J	260	7.0	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
sophorone	ND		260	13	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
N-Nitrosodi-n-propylamine	ND		260	20	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
N-Nitrosodiphenylamine	ND		260	14	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
Naphthalene	ND		260	4.2	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
Nitrobenzene	ND		260	11	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
Pentachlorophenol	ND		500	87	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
Phenanthrene	10	J	260	5.3	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
Phenol	ND		260	27	ug/Kg	¢	01/06/12 08:50	01/06/12 17:42	1
Pyrene	96	J	260	1.6	ug/Kg	₽	01/06/12 08:50	01/06/12 17:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	96		39 - 146				01/06/12 08:50	01/06/12 17:42	1
2-Fluorobiphenyl	101		37 - 120				01/06/12 08:50	01/06/12 17:42	1
2-Fluorophenol	71		18 - 120				01/06/12 08:50	01/06/12 17:42	1
Nitrobenzene-d5	90		34 - 132				01/06/12 08:50	01/06/12 17:42	1
p-Terphenyl-d14	119		65 - 153				01/06/12 08:50	01/06/12 17:42	1
Phenol-d5	89		11 - 120				01/06/12 08:50	01/06/12 17:42	1

### **Client Sample ID: DISPOSAL 1** Lab Sample ID: 480-14674-1 Date Collected: 01/05/12 13:55 Matrix: Solid Date Received: 01/06/12 07:55 Percent Solids: 66.5 Batch Batch Dilution Batch Prepared Prep Type Method Run Factor Number or Analyzed Lab Туре Analyst Total/NA Analysis 8260B 47083 01/06/12 19:20 CDC TAL BUF 1 47048 01/06/12 08:50 Total/NA 3550B СМ TAL BUF Prep Total/NA 8270C 47092 01/06/12 17:42 RMM TAL BUF Analysis 1 TAL BUF Total/NA Analysis Moisture 47154 01/06/12 15:00 ZLR 1

### Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# **Certification Summary**

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's #

_aboratory	Authority	Program	EPA Region	Certification ID
FestAmerica Buffalo	Arkansas	State Program	6	88-0686
FestAmerica Buffalo	California	NELAC	9	1169CA
FestAmerica Buffalo	Connecticut	State Program	1	PH-0568
FestAmerica Buffalo	Florida	NELAC	4	E87672
FestAmerica Buffalo	Georgia	Georgia EPD	4	N/A
FestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Illinois	NELAC	5	100325 / 200003
FestAmerica Buffalo	lowa	State Program	7	374
FestAmerica Buffalo	Kansas	NELAC	7	E-10187
FestAmerica Buffalo	Kentucky	Kentucky UST	4	30
FestAmerica Buffalo	Kentucky	State Program	4	90029
FestAmerica Buffalo	Louisiana	NELAC	6	02031
FestAmerica Buffalo	Maine	State Program	1	NY0044
FestAmerica Buffalo	Maryland	State Program	3	294
FestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
FestAmerica Buffalo	Michigan	State Program	5	9937
FestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
FestAmerica Buffalo	New Hampshire	NELAC	1	2337
FestAmerica Buffalo	New Hampshire	NELAC	1	68-00281
FestAmerica Buffalo	New Jersey	NELAC	2	NY455
FestAmerica Buffalo	New York	NELAC	2	10026
FestAmerica Buffalo	North Dakota	State Program	8	R-176
FestAmerica Buffalo	Oklahoma	State Program	6	9421
FestAmerica Buffalo	Oregon	NELAC	10	NY200003
FestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
FestAmerica Buffalo	Tennessee	State Program	4	TN02970
FestAmerica Buffalo	Texas	NELAC	6	T104704412-08-TX
FestAmerica Buffalo	USDA	USDA		P330-08-00242
FestAmerica Buffalo	Virginia	NELAC Secondary AB	3	460185
FestAmerica Buffalo	Virginia	State Program	3	278
FestAmerica Buffalo	Washington	State Program	10	C1677
FestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

## Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's #

Method Description

Percent Moisture

EPA = US Environmental Protection Agency

Volatile Organic Compounds (GC/MS)

Semivolatile Organic Compounds (GC/MS)

Method

8260B

8270C

Moisture

Protocol References:

Laboratory References:

Laboratory

TAL BUF

TAL BUF

TAL BUF

Protocol

SW846

SW846

EPA

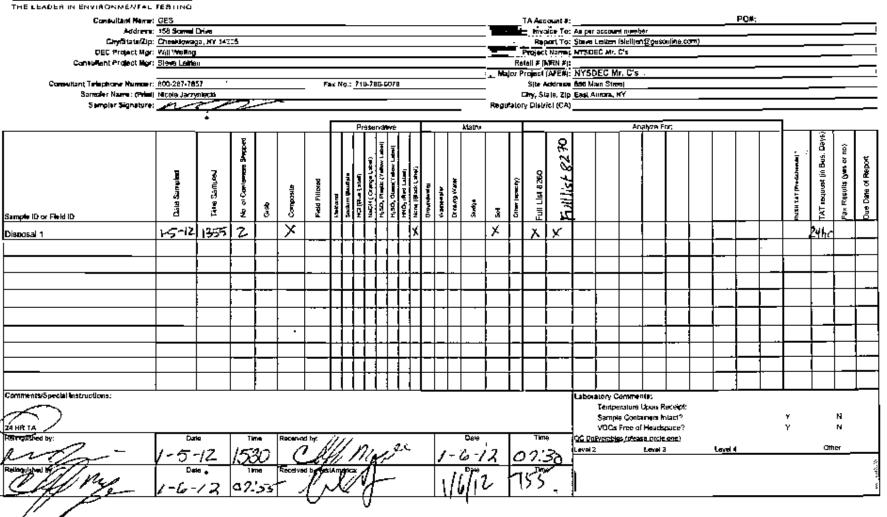
5
8
9

# Sample Summary

Client: Groundwater & Environmental Services Inc Project/Site: NYSDEC - Mr. C's # TestAmerica Job ID: 480-14674-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-14674-1	DISPOSAL 1	Solid	01/05/12 13:55	01/06/12 07:55





4.1 #1

0

4

# Login Sample Receipt Checklist

Client: Groundwater & Environmental Services Inc

# Login Number: 14674 List Number: 1

Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	GES
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

List Source: TestAmerica Buffalo

# APPENDIX F

Survey Data

# Clear Creek Land Surveying, LLC

Field Work Completed May 31, 2012

Monitoring Wells Locations for **Mr. C's Dry Cleaners, East Aurora, NY** Work completed for **GES** per the request of Eric Popken

Vertical Datum: North American Vertical Datum of 1988 NGS PID NC0508 Elevation 916.12 Horizontal Control: New York State Plane Coordinate System, Zone West NAD83 (96CORS) EPOCH 2002.00 GPS Observation

Vertical and Horizontal Control provided By Clear Creek Land Surveying, LLC

	Monitoring Well Data											
Designation	Northing	Easting	<b>Case Elevation</b>	<b>Riser Elevation</b>	<b>Ground Elevation</b>	Pnt No.						
MPI-13B-R	1009063.59	1139779.59	913.21	912.69	913.2	105						
MPI-14B-R	1009039.96	1139941.28	913.98	913.71	914.0	106						
ESI-5-R	1008162.00	1140146.65	912.48	912.19	912.5	108						
MPI-7I-R	1008537.71	1140294.84	915.84	915.44	915.8	111						
EE-4	1008726.94	1140212.13	916.92	916.69	916.9	115						
ESI-2-R	1008739.35	1140418.33	917.71	917.44	917.7	116						
MW-11	1008565.98	1140177.64	914.39	914.08	914.4	118						
MPI-8S-R	1008771.32	1140064.97	914.48	913.96	914.5	123						
MPI-2S-R	1008365.76	1140310.44	915.87	915.63	915.9	125						
EE-3	1008457.12	1139994.78	914.89	914.64	914.9	126						
MPI-9S-R	1008923.50	1140066.68	914.03	913.38	914.0	128						
MPI-15B	1008815.15	1139566.43	913.72	913.37	913.7	129						

Decomissioned Monitoring Well Data									
Designation	Easting	Pnt No.							
MPI-2S	1008362.27	1140310.82	109						
MPI-8S	1008767.18	1140065.32	124						
MPI-4D	1008609.73	1140040.12	130						

Job No. 12-029-0L

\*Revised July 27, 2012: Decomissioned Monitoring Wells Info Shown



View of augering in the location of MPI-7-R.



Preparing to abandon MPI-4D.





View of augering in location of MPI-14B-R.



View of MPI-2S abandonment location (square patch) and MPI-2S-R prior to building well pad.





Completed MPI-14B-R well pad.



Jack hammering MPI-8S-R location through concrete in preparation to hand clear.





Hand cleared borehole for MPI-9S-R.



Hammering out road box ring for MPI-14B in preparation for abandonment.





Grout mixture in MPI-14B for abandonment.



View of augering MPI-13B-R.



# Groundwater & Environmental Services, Inc. 158 Sonwil Drive Cheektowaga, New York 14225

Remedial

Version 10/01/10

Spill/Site#: 915157

PIN:

GES Project #09-01467

Contract #: C100900

Invoice #:

Work Period:

11/12/11 - 12/16/11

Site Name: Mr. C's Dry Cleaners, 586 Main Street, East Aurora Description of Work Performed:

S. Leitten - Workplan preparation, meeting with E&E and DEC followed by site walk with drillers.

Work Date: 11/18/2011 Labor and LVE:

Overtime approved by:

, DEC PM

	0		Site	Site		Break/	Total	Total	Total	
		Start	Arrival	Departure		Off #	Straight	Over	Double	1 .
Contract Item # Job Title	Employee Name	Time	Time	Time	Time	Hours	Time	time	Time	LVE
L-11 Geologist	Steven Leitten						2.00			
L-11 Geologist	Steven Leitten		800	1300			5.00	-		
LVE - Low Value Equipment	Steven Leitten		800	1300						5.00
Equipment and Materials:		1		<b></b>						
					Start		Break/	Total		
Contract Item # Description				Contractor Equipment #	Time (Equip)	End Time (Equip)	(Equip)	- 10 - EX	Total # of Ur	nits for
							(Equip)	Hours	Materials	
E-002 Light Duty Vehicles ≤ 1 Ton					800	1300		5.00		
		-								
Travel/Per Diem/Subcontractor/Re	ceipted Costs/Non-Co	ntract li	tems							
Subcontractor/Vendo	or Name and Description	on		# of U	Inits	Unit/ Lum Cost	ip Sum		Total Cost	
			an a							
		())) ())					·····			
· · · · · · · · · · · · · · · · · · ·										

Cheektowaga, New York 14225

# Contract #: C100900 Invoice #:

GES Project #09-01467

Work Date:

Labor and LVE:

Work Period: 11/12/11 - 12/16/11

Spill/Site#: 915157

PIN:

Site Name: Mr. C's Dry Cleaners, 586 Main Street, East Aurora

Description of Work Performed:

S. Leitten - Communications with E&E. Work on shop drawings, onsite for project kick-off site visit.

N. Jarzyniecki - Onsite for well upgrade.

12/12/2011

Overtime approved by:

,	D	EC	PI	M

-						*			
Employee Name	Start	Site Arrival Time			Break/ Off # Hours	Total Straight Time	Total Over time	Total Double Time	LVE
	Time	inne	Time	mine	Hours		ume	Time	
	GAE	800	1620	1715			1 50		
	645			1/15		8.00	1.50		
and the second sec				045					8.50
	/30			915		1.75			
Steven Leitten		800	845						0.75
dind?a isa		Al dati	T	Start		Break/	Total	T	
					1.2			Total # of U Materials	nits for
				730	915		1.75		
		-							
ceipted Costs/Non-Co	ntract It	ems						L	
or Name and Descriptic	on	000.000	# of U	Inits	Unit/ Lum Cost	ip Sum		Total Cost	:
		-							
						1			
						1			
		Employee Name       Time         Steven Leitten       645         Nicole Jarzyniecki       5         Steven Leitten       730         Steven Leitten       1         Steven Leitten       1         Steven Leitten       1	Start       Arrival         Employee Name       Time       Time         Steven Leitten       645       800         Nicole Jarzyniecki       645       800         Steven Leitten       730       800         Steven Leitten       730       800         Steven Leitten       300       300         Steven Leitten       300	Start Employee NameStart TimeArrival TimeDeparture TimeSteven LeittenImage: start Steven Leitten8001630Nicole Jarzyniecki6458001630Steven Leitten730800845Steven LeittenImage: start Image: startImage: start Image: startImage: start Image: startSteven LeittenImage: start Image: startImage: start Image: start Image: startImage: start Image: startImage: start Image: startImage: start Image: startImage: start Image: start Image: startImage: start Image: startImage: start Image: startImage: start Image: startImage: start Image: start 	Start Employee NameStart TimeArrival TimeDeparture TimeEnd TimeSteven LeitteniiiiiNicole Jarzyniecki64580016301715Nicole Jarzyniecki800845915iiSteven Leitten730800845915Steven Leitten11iiiSteven Leitten11iiiSteven Leitten1iiiiSteven Leitten1iiiiSteven Leitten1iiiiSteven Leitten1iiiiSteven Leitten1iiiiSteven Leitten1iiiiSteven Leitten1iiiiSteven LeitteniiiiiSteven LeitteniiiiiSteven LeitteniiiiiSteven LeitteniiiiiSteven LeitteniiiiiSteven LeitteniiiiiSteven LeitteniiiiiSteven LeitteniiiiiSteven LeitteniiiiiSteven Leitteniiiii <tr< td=""><td>Start         Arrival         Departure         End         Off #           Employee Name         Time         Time         Time         Time         Hours           Steven Leitten         645         800         1630         1715         Image: Steven Leitten         Image: Steven Leitten         Steven Leitten         730         800         1630         Image: Steven Leitten         Image: Steven Leitten</td><td>Start Employee Name         Start Time         Arrival Time         Departure Time         End Time         Off # Hours         Straight Time           Steven Leitten         0         1.25         1.25           Nicole Jarzyniecki         645         800         1630         1715         8.00           Nicole Jarzyniecki         800         1630         1715         8.00           Steven Leitten         730         800         845         915         1.75           Steven Leitten         730         800         845         1.25         1.75           Steven Leitten         1         1         1         1         1         1           Image: Steven Leitten         800         845         1         1         1         1           Image: Steven Leitten         1</td><td>Start         Arrival         Departure         End         Off #         Straight         Over           Employee Name         Time         Ti</td><td>Start         Arrival Time         Departure Time         End Time         Off # Hours         Straight Time         Over Time         Double Time           Steven Leitten         Image: Steven Leitten</td></tr<>	Start         Arrival         Departure         End         Off #           Employee Name         Time         Time         Time         Time         Hours           Steven Leitten         645         800         1630         1715         Image: Steven Leitten         Image: Steven Leitten         Steven Leitten         730         800         1630         Image: Steven Leitten         Image: Steven Leitten	Start Employee Name         Start Time         Arrival Time         Departure Time         End Time         Off # Hours         Straight Time           Steven Leitten         0         1.25         1.25           Nicole Jarzyniecki         645         800         1630         1715         8.00           Nicole Jarzyniecki         800         1630         1715         8.00           Steven Leitten         730         800         845         915         1.75           Steven Leitten         730         800         845         1.25         1.75           Steven Leitten         1         1         1         1         1         1           Image: Steven Leitten         800         845         1         1         1         1           Image: Steven Leitten         1	Start         Arrival         Departure         End         Off #         Straight         Over           Employee Name         Time         Ti	Start         Arrival Time         Departure Time         End Time         Off # Hours         Straight Time         Over Time         Double Time           Steven Leitten         Image: Steven Leitten

Remedial

Version 10/01/10

Cheektowaga, New York 14225

# Contract #: C100900 Invoice #:

GES Project #09-01467

Work Period: 11/12/11 - 12/16/11

Site Name: Mr. C's Dry Cleaners, 586 Main Street, East Aurora Description of Work Performed:

S. Leitten - Project review of site.

N. Jarzyniecki - Onsite for well upgrade.

M. Naber - Review UFPO tickets for 12 properties.

ці т		Start	Site Arrival	Site Departure	End	Break/ Off #	Total Straight	Total Over	Total Double	
Contract Item # Job Title	Employee Name	Time	Time	Time	Time	Hours	Time	time	Time	LVE
L-19 Project Manager	Steven Leitten					* o	0.75			
L-11 Geologist	Nicole Jarzyniecki	700	745	1430	1600		8.00	1.00		1
LVE - Low Value Equipment	Nicole Jarzyniecki		745	1430						6.75
L-2 Data Processor	Michelle Naber						0.50			
										<u> </u>
Equipment and Materials:										
Contract Item # Description				Contractor Equipment #	and a second	End Time (Equip)	Break/ Off Time (Equip)	Total Equip Hours	Total # of Units for Materials	
E-002 Light Duty Vehicles ≤ 1 Ton					700	1600		9.00		
	-									
			51 15							
Travel/Per Diem/Subcontractor/R	accinted Caste/Nam Ca	ntua at li	to ma		_					
Travery Fer Diem/Subcontractor/R		ntract n	lems	T		Unit/ Lum	ip Sum			
Subcontractor/Venc	lor Name and Descriptic	n		# of U	Inits	Cost			Total Cost	:

			ound Lamp Sam	
	Subcontractor/Vendor Name and Description	# of Units	Cost	Total Cost
-				
		4		
				·

Remedial

Version 10/01/10

Spill/Site#: 915157 PIN:

Cheektowaga, New York 14225

### Contract #: C100900 Invoice #:

GES Project #09-01467

# Site Name: Mr. C's Dry Cleaners, 586 Main Street, East Aurora

Description of Work Performed:

S. Leitten - Work on shop drawings.

N. Jarzyniecki - Onsite for well install and well abandonment. Install MPI7IR and abandon MPI7I.

Work Date: 12/14/2011 Labor and LVE:

Site Site Break/ Total Total Total Start Departure End Arrival Off # Straight Over Double **Employee Name** Time Time Time Contract Item # Job Title Time Hours Time time Time LVE Steven Leitten L-19 Project Manager 0.50 Nicole Jarzyniecki L-11 Geologist 700 1630 800 1715 8.00 2.25 LVE - Low Value Equipment Nicole Jarzyniecki 800 1630 8.50 **Equipment and Materials:** Start Break/ Total Time **End Time** Off Time Equip Contractor Total # of Units for Contract Item # Description (Equip) (Equip) Equipment # (Equip) Hours Materials E-002 Light Duty Vehicles ≤ 1 Ton 700 1715 10.25 E-055 Photo-Ionization Detector w/ calibrator 800 1630 8.50

Overtime approved by:

# Travel/Per Diem/Subcontractor/Receipted Costs/Non-Contract Items

		Unit/ Lump Sum	
Subcontractor/Vendor Name and Description	# of Units	Cost	Total Cost
	£		

Version 10/01/10

, DEC PM

Spill/Site#: 915157

PIN:

Work Period:

11/12/11 - 12/16/11

Remedial

### Cheektowaga, New York 14225

### Contract #: C100900 Invoice #:

GES Project #09-01467

# Work Period:

11/12/11 - 12/16/11

Spill/Site#: 915157

PIN:

Site Name: Mr. C's Dry Cleaners, 586 Main Street, East Aurora Description of Work Performed:

S. Leitten - Project review of site.

N. Jarzyniecki - Onsite to install EE4 (15' sampled) and ESI2R (19', no sample), overdrill top 5' of MPI7I and grout to

finish abandon.

Work Date: 12/15/2011 Overtime approved by: , DEC PM Labor and LVE: Site Site Break/ Total Total Total Start Arrival Departure End Off # Straight Over Double **Employee** Name Time Time Time Time Contract Item # Job Title Hours Time time Time LVE Steven Leitten L-19 Project Manager 0.50 Nicole Jarzyniecki L-11 Geologist 700 745 1700 1745 8.00 2.75 LVE - Low Value Equipment Nicole Jarzyniecki 745 1700 9.25 **Equipment and Materials:** Start Break/ Total Off Time Equip Time End Time Contractor Total # of Units for Contract Item # Description Equipment # (Equip) (Equip) (Equip) Hours Materials E-002 Light Duty Vehicles ≤ 1 Ton 700 1745 10.75 E-055 Photo-Ionization Detector w/ calibrator 745 1700 9.25

# Travel/Per Diem/Subcontractor/Receipted Costs/Non-Contract Items

Subcontractor/Vendor Name and Description	# of Units	Unit/ Lump Sum Cost	Total Cost

# Remedial

Version 10/01/10

Groundwater & Environmental Services, Inc.

Cheektowaga, New York 14225

### Contract #: C100900 Invoice #:

GES Project #09-01467

### Work Period:

11/12/11 - 12/16/11

Spill/Site#: 915157

PIN:

Site Name: Mr. C's Dry Cleaners, 586 Main Street, East Aurora

Description of Work Performed: S. Leitten - Project review of site.

N. Jarzyniecki - Onsite to install EE3 (drill to 28', sampled), completed grout and well pad of ESI 2B, EE4 well pad,

concrete patch MPI7I.

T. Palmer - Transition meeting with project manager and case manager, review call-out. Work Date: 12/16/2011 Overtime approved by: , DEC PM Labor and LVE: Site Site Break/ Total Total Total Start Arrival Departure End Off # Straight Over Double Contract Item # Job Title Employee Name Time Time Time Time Hours Time time Time LVE L-19 Project Manager Steven Leitten 0.50 L-11 Geologist Nicole Jarzyniecki 700 800 1630 1800 8.00 3.00 LVE - Low Value Equipment Nicole Jarzyniecki 800 1630 8.50 L-11 Geologist **Thomas Palmer** 1.00 **Equipment and Materials:** Start Break/ Total Time End Time Off Time Equip Contractor Total # of Units for Contract Item # Description Equipment # (Equip) (Equip) (Equip) Hours Materials E-002 Light Duty Vehicles ≤ 1 Ton 700 1800 11.00 E-055 Photo-Ionization Detector w/ calibrator 800 1630 8.50 Travel/Per Diem/Subcontractor/Receipted Costs/Non-Contract Items Unit/ Lump Sum Subcontractor/Vendor Name and Description # of Units Cost **Total Cost** 

	retur cost

Remedial

Version 10/01/10

158 Sonwil Drive

Cheektowaga, New York 14225

Contract #: C100900 Invoice #: Spill/Site#: 915157

PIN:

GES Project #09-01467

Work Period: 12/17/11 - 01/13/12

Site Name: Mr. C's Dry Cleaners, 586 Main Street, East Aurora Description of Work Performed: T. Palmer - Well install and abandonment.

Work Date: 12/19/2011 , DEC PM Overtime approved by: Labor and LVE: Site Site Break/ Total Total Total Start Arrival Departure End Off # Straight Over Double **Employee Name** Time Time Contract Item # Job Title Time Time Hours Time time Time LVE **Thomas Palmer** L-11 Geologist 645 745 1715 1745 0.25 8.00 2.75 Thomas Palmer LVE - Low Value Equipment 745 1715 0.25 9.25 **Equipment and Materials:** Total Start Break/ Time End Time Off Time Equip Contractor Total # of Units for Contract Item # Description (Equip) (Equip) Equipment # (Equip) Hours Materials E-002 Light Duty Vehicles ≤ 1 Ton 645 1745 0.25 10.75 Travel/Per Diem/Subcontractor/Receipted Costs/Non-Contract Items Unit/ Lump Sum Subcontractor/Vendor Name and Description # of Units Cost **Total Cost** 

Remedial

Version 10/01/10

\_\_\_\_

Cheektowaga, New York 14225

### Contract #: C100900 Invoice #:

GES Project #09-01467

Work Period: 12/17/11 - 01/13/12

Site Name: Mr. C's Dry Cleaners, 586 Main Street, East Aurora Description of Work Performed:

S. Leitten - Discussions with client and site coordination.

T. Palmer - Well install and abandonment.

Work Date: 12/20/2011

Overtime approved by:

,	D	E	С	Ρ	N	(

		_						_		
Contract Item # Job Title	Employee Name	Start Time	Site Arrival Time	Site Departure Time	End Time	Break/ Off # Hours	Total Straight Time	Total Over time	Total Double Time	LVE
L-19 Project Manager	Steven Leitten						1.00			
L-11 Geologist	Thomas Palmer	715	745	1330	1415		7.00		+	+
LVE - Low Value Equipment	Thomas Palmer	1 20	745	1330	1110		7.00			5.75
	inomas i amer	-	745	1550					+	5.75
1								<u> </u>	+	+
								┼───	+	+
										+
		-							+	-
Equipment and Materials:			<u> </u>	L	l			L		
	1.00	1. L.W.895		Γ	Start	Γ	Break/	Total	Т	
				Contractor	Time	End Time	Off Time	Equip	Total # of Ur	nits for
Contract Item # Description				Equipment #	(Equip)	(Equip)	(Equip)	Hours	Materials	into rotį
E-002 Light Duty Vehicles ≤ 1 Ton					715	1415		7.00	<u> </u>	
-	- 15.5.6		and a second function							
									+	
						1				
						<u> </u>				
									<u></u>	
									+	
		ingen i serie and and a series of the series						<u> </u>	+	
		10.000 in 1							+	
								<u> </u>		
								<b></b>		
									ļ	
Travel/Per Diem/Subcontractor/Re	ceipted Costs/Non-Co	ontract I	tems			Unit/ Lum	n Sum			
Subcontractor/Vendo	Subcontractor/Vendor Name and Description		# of U	nits	Cost	ip Sum		Total Cost		
							- Heimen auf der			
	·····									
	1973 991-00						4			

Remedial

Version 10/01/10

Spill/Site#: 915157 PIN:

# Groundwater & Environmental Services, Inc. 158 Sonwil Drive Cheektowaga, New York 14225

Contract #: C100900 Invoice #: Remedial Version 10/01/10

Spill/Site#: 915157

PIN:

GES Project #09-01467

Work Period: 12/17/11 - 01/13/12

Site Name: Mr. C's Dry Cleaners, 586 Main Street, East Aurora Description of Work Performed: N. Jarzyniecki - Collect soil sample.

Work Date: 1/5/2012 Labor and LVE:

Overtime approved by:

, DEC PM

	· · · · · · · · · · · · · · · · · · ·	1	1 202 208	r	1			T		Т
		1	Site	Site		Break/	Total	Total	Total	
		Start	Arrival	Departure	End	Off #	Straight	Over	Double	
Contract Item # Job Title	Employee Name	Time	Time	Time	Time	Hours	Time	time	- C	1.1.1
L-11 Geologist	Nicole Jarzyniecki	1245	1345	1415	1500	Hours	2.25	time	Time	LVE
and an		1245			1500		2.25			
LVE - Low Value Equipment	Nicole Jarzyniecki		1345	1415						0.50
		<b> </b>	2							
	-									
	÷									
Equipment and Materials:										
					Start		Break/	Total		
				Contractor	Time	End Time		Equip	Total # of Ur	its for
Contract Item # Description				Equipment #	(Equip)	(Equip)	(Equip)	Hours	Materials	
E-002 Light Duty Vehicles ≤ 1 Ton					1245	1500		2.25		0.0074
			· · · · · · · · · · · · · · · · · · ·							
					-					
			2							
			10 C							
Travel/Per Diem/Subcontractor/Re	ceipted Costs/Non-Co	ntract It	ems						1	
						Unit/ Lum	p Sum			
Subcontractor/Vendo	or Name and Descriptio	n		# of U	nits	Cost			Total Cost	
		14								CHERICAL STREET, STREE
					(1994) (1994)		_			
					and the second second second					
	CONTRACTOR C									

Groundwater & Environmental Services, Inc.

158 Sonwil Drive

Cheektowaga, New York 14225

# Contract #: C100900 Invoice #:

GES Project #09-01467

Work Period: 01/14/12 - 02/10/12

Site Name: Mr. C's Dry Cleaners, 586 Main Street, East Aurora Description of Work Performed:

S. Leitten - Office support for well development and waste disposal.

T. Palmer - Onsite for well development.

J. Siniscalchi - Onsite for well development.

Work Date: 1/23/2012 Labor and LVE:

Overtime approved by:

, DEC PM

			Site	Site	0.00	Break/	Total	Total	Total	
		Start	Arrival	Departure	End	Off #	Straight	Over	Double	
Contract Item # Job Title	Employee Name	Time	Time	Time	Time	Hours	Time	time	Time	LVE
L-19 Project Manager	Steven Leitten	0800			0845		0.75			
L-11 Geologist	Thomas Palmer	715	845	1645	1730	0.25	8.00	2.00		+
LVE - Low Value Equipment	Thomas Palmer		845	1645		0.25				7.75
L-12 Hydrogeologist	Jennifer Siniscalchi	745	845	1645	1730	0.25	8.00	1.50		
LVE - Low Value Equipment	Jennifer Siniscalchi		845	1645		0.25				7.75
Equipment and Materials:										
				1	Start	[	Break/	Total	1	
				Contractor	Time	End Time	Concerns a succession of the	000000000000000000000000000000000000000	Total # of U	nits for
Contract Item # Description				Equipment #	(Equip)	(Equip)	(Equip)	Hours	Materials	1113 101
E-002 Light Duty Vehicles ≤ 1 Ton					715	1730	0.25	10.00		
E-054 Sonic Interface					845	1645	0.25	7.75		
E-078 Mulitparameter Probe (In-S	itu Troll 9500 or equiv)				845	1645	0.25	7.75		
E-060 Sumbersible Pump ≤ 5 hp					845	1645	0.25	7.75		
-									8	
									0.008	
Travel/Per Diem/Subcontractor/R	eceipted Costs/Non-Co	ntract II	ems	Г		Unit/ Lum	in Sum			
Subcontractor/Vendor Name and Description		# of U	nits	Cost			Total Cost			
	· · · · · · · · · · · · · · · · · · ·									
										5

Remedial

Version 10/01/10

Spill/Site#: 915157 PIN:

Cheektowaga, New York 14225

## Contract #: C100900 Invoice #:

GES Project #09-01467

Work Period: 01/14/12 - 02/10/12

Site Name: Mr. C's Dry Cleaners, 586 Main Street, East Aurora Description of Work Performed:

S. Leitten - Project review.

T. Palmer - Onsite for well development.

J. Siniscalchi - Onsite for well development.

Work Date: 1/24/2012 Overtime approved by: , DEC PM Labor and LVE: Site Site Break/ Total Total Total Departure End Off # Start Arrival Straight Over Double Contract Item # Job Title **Employee Name** Time Time Time Time Hours Time time Time L-19 Project Manager Steven Leitten 1300 1330 0.50

							0.00			
L-11 Geologist	Thomas Palmer	645	745	1545	1630	0.25	8.00	1.50		
LVE - Low Value Equipment	Thomas Palmer		745	1545		0.25				7.75
L-12 Hydrogeologist	Jennifer Siniscalchi	645	745	1545	1630	0.25	8.00	1.50	<u> </u>	<u> </u>
LVE - Low Value Equipment	Jennifer Siniscalchi		745	1545						7.75
-									<u> </u>	
									<u> </u>	<u> </u>
		1.00							<u> </u>	
Equipment and Materials:	-					•		L	1	1
					Start		Break/	Total		
				Contractor	Time	End Time	- AY	1.00 20200	Total # of Un	its for
Contract Item # Description				Equipment #	(Equip)	(Equip)	(Equip)	Hours	Materials	
E-002 Light Duty Vehicles ≤ 1 Ton					645	1630	0.25	9.50		
E-054 Sonic Interface	9				745	1545	0.25	7.75		
E-078 Mulitparameter Probe (In-Si	itu Troll 9500 or equiv)				745	1545	0.25	7.75		
E-060 Sumbersible Pump ≤ 5 hp					745	1545	0.25	7.75		
	4									
										1997 (1997)
: *******										
Traval/Day Diana/Cube antra stau/D		Acres 14							147 - China	10000

## Travel/Per Diem/Subcontractor/Receipted Costs/Non-Contract Items

		Unit/ Lump Sum	
Subcontractor/Vendor Name and Description	# of Units	Cost	Total Cost

Remedial

LVE

Version 10/01/10

Spill/Site#: 915157

PIN:

Cheektowaga, New York 14225

Contract #: C100900 Invoice #: Spill/Site#: 915157

PIN:

GES Project #09-01467

Work Period: 04/01/12 - 05/11/12

Site Name: Mr. C's Dry Cleaners, 586 Main Street, East Aurora Description of Work Performed: N. Jarzyniecki - Onsite for well upgrades.

Work Date: 5/2/2012 Labor and LVE: Overtime approved by:

, DEC PM

Contract Item # Job Title L-11 Geologist LVE - Low Value Equipment	Employee Name Nicole Jarzyniecki Nicole Jarzyniecki	Start Time 0730	Site Arrival Time 0830 0830	Site Departure Time 1615 1615	End Time 1730	Break/ Off # Hours 0.50 0.50	Total Straight Time 8.00	Total Over time 1.50	Total Double Time	LVE 7.25
		<u> </u>	-	a						
		+								
		1								
Equipment and Materials:				r	Ctort		Drock	Tatal		
Contract Item # Description				Contractor Equipment #	Start Time (Equip)	End Time (Equip)	Break/ Off Time (Equip)	(Tester)	Total # of Un Materials	its for
E-002 Light Duty Vehicles ≤ 1 Ton					0730	1730	0.50	9.50		
										*
			2							
Travel/Per Diem/Subcontractor/Re	ceipted Costs/Non-Co	ntract It	tems			Unit/ Lum	in Sum			
Subcontractor/Vendo	or Name and Descriptic	n		# of U	Inits	Cost	ip Sum		Total Cost	
								1, <b>1</b>		
-										
				1.54						
							-			

Version 10/01/10

Groundwater & Environmental Services, Inc.
158 Sonwil Drive
Cheektowaga, New York 14225

Contract #: C100900 Invoice #:

GES Project #09-01467

Work Period: 04/01/12 - 05/11/12

Site Name: Mr. C's Dry Cleaners, 586 Main Street, East Aurora Description of Work Performed: N. Jarzyniecki - Onsite for well upgrades.

Work Date: 5/3/2012

Overtime approved by:

, DEC PM

Labor and LVE:	<b>*</b> ****	_						-	_	
Contract Item # Job Title	Employee Name	Start Time	Site Arrival Time	Site Departure Time	End Time	Break/ Off # Hours	Total Straight Time	Total Over time	Total Double Time	LVE
L-11 Geologist	Nicole Jarzyniecki	0715	0800	1630	1730	0.50	8.00	1.75		
LVE - Low Value Equipment	Nicole Jarzyniecki		0800	1630		0.50				8.00
					1					
			1							1
Equipment and Materials:				1	Start	T	Break/	Total		
				Contractor	Time	End Time				·. ·
Contract Item # Description				Equipment #		(Equip)	(Equip)	Hours	Total # of Un Materials	nits for
E-002 Light Duty Vehicles ≤ 1 Ton		1.	117 <u>0075900</u> 55		0715	1730	0.50	9.75		
						-				
			//							
Travel/Per Diem/Subcontractor/Re	ceipted Costs/Non-Co	ntract It	tems		L					
				1		Unit/ Lum	np Sum			
Subcontractor/Vendo	or Name and Description	on		# of L	# of Units			Total Cost		
	<u></u>					-				
e										
					2000 C 198					
			and the second							
				1		l				

Version 10/01/10

Spill/Site#: 915157

# Groundwater & Environmental Services, Inc. 158 Sonwil Drive Cheektowaga, New York 14225

Contract #: C100900 Invoice #: Version 10/01/10

Remedial

Spill/Site#: 915157

PIN:

GES Project #09-01467

Work Period: 04/01/12 - 05/11/12

Site Name: Mr. C's Dry Cleaners, 586 Main Street, East Aurora Description of Work Performed: N. Jarzyniecki - Onsite for well upgrades.

Work Date: 5/4/2012 Labor and LVE: Overtime approved by:

, DEC PM

Contract Item # Job Title	Employee Name	Start Time	Site Arrival Time	Site Departure Time	End Time	Break/ Off # Hours	Total Straight Time	Total Over	Total Double	
L-11 Geologist	Nicole Jarzyniecki	0715	0800	1615	1645	0.50	8.00	time 1.50	Time	LVE
LVE - Low Value Equipment	Nicole Jarzyniecki	- 0715	0800	1515	1045	0.50	8.00	1.50		775
	Nicole Jarzymeeki		0800	1515		0.50				7.75
										<u> </u>
							<u> </u>			
		1								
		1								
	58 C									
Equipment and Materials:			-							A
Contract Itom # Description				Contractor	Start Time	End Time	S		Total # of Un	its for
Contract Item # Description				Equipment #		(Equip)	(Equip)		Materials	
E-002 Light Duty Vehicles ≤ 1 Ton				7 N	0715	1645	0.50	9.50		
							1			-
· ·										
										÷.,
Travel/Per Diem/Subcontractor/Re	ceipted Costs/Non-Co	ntract It	ems				·			
Subcontractor/Vendo	or Name and Descriptic	n		# of U	Inits	Unit/ Lum Cost	ip Sum		Total Cost	
5										
									an in the second	
					(((*****					
			-							
L			-	I		I				

Groundwater	& Environmental Services, Inc.
	158 Sonwil Drive
Cheekt	owaga, New York 14225

Contract #: C100900 Invoice #:

Remedial

Version 10/01/10

Spill/Site#: 915157

PIN:

GES Project #09-01467

04/01/12 - 05/11/12 Work Period:

Site Name: Mr. C's Dry Cleaners, 586 Main Street, East Aurora Description of Work Performed: T. Palmer - Onsite for well install.

Work Date: 5/7/2012 Labor and LVE:

Overtime approved by: , DEC PM

			-							
			Site	Site		Break/	Total	Total	Total	
	= *	Start	Arrival	Departure	End	Off #	Straight	Over	Double	
Contract Item # Job Title	Employee Name	Time	Time	Time	Time	Hours	Time	time	Time	LVE
L-12 Hydrogeologist	Thomas Palmer	0700	0800	1745	1815	0.25	8.00	3.00		
LVE - Low Value Equipment	Thomas Palmer		0800	1745					1	9.50
										1
			-							
L										
Equipment and Materials:	••••••••••••••••••••••••••••••••••••••				Start		Break/	Total	·	
				Contractor	Time	End Time		Total		
Contract Item # Description				Contractor Equipment #	(Equip)	(Equip)	(Equip)	Hours	Total # of Ur Materials	its for
E-002 Light Duty Vehicles ≤ 1 Ton					0700	1815	0.25	11.00	Materials	
					0,00	1015	0.25	11.00	<u> </u>	
					S 2011					
		121.000	N.B. M.M. 18, Y. S.							
							-			
					a					
			× *			-				
Travel/Per Diem/Subcontractor/Re	ceipted Costs/Non-Co	ntract It	ems							
Subcontractor	ar Nama and Description			4 - 6 1	L'.	Unit/ Lump Sum				
Subcontractor/vendo	or Name and Description	n		# of U	Inits	Cost			Total Cost	
			- A.C							

Cheektowaga, New York 14225

Contract #: C100900 Invoice #:

GES Project #09-01467

Work Period: 04/01/12 - 05/11/12

Site Name: Mr. C's Dry Cleaners, 586 Main Street, East Aurora Description of Work Performed: T. Palmer - Onsite for well install.

Work Date: 5/8/2012 Labor and LVE:

Overtime approved by:

, DEC PM

		Start	Site Arrival	Site Departure		Break/ Off #	Total Straight	Total Over	Total Double	
Contract Item # Job Title	Employee Name	Time	Time	Time	Time	Hours	Time	time	Time	LVE
L-12 Hydrogeologist	Thomas Palmer	0730	0800	1815	1900	0.25	8.00	3.25		
LVE - Low Value Equipment	Thomas Palmer		0800	1815						10.00
			-		-				· ·	
		-								<u> </u>
				(i)						<u> </u>
Equipment and Materials:	L			1	1	L	I			L
					Start		Break/	Total		
				Contractor	Time	End Time			Total # of Un	its for
Contract Item # Description				Equipment #	(Equip)	(Equip)	(Equip)	Hours	Materials	
E-002 Light Duty Vehicles ≤ 1 Ton					0730	1900	0.25	11.25		
		1								
				1						
Travel/Per Diem/Subcontractor/Re	ceipted Costs/Non-Co	ntract I	tems			1	I			
		· · · · ·	-			Unit/ Lum	ip Sum	Γ		
Subcontractor/Vendo	or Name and Description	on		# of L	Jnits	Cost			Total Cost	
					1					
										645 - 341 - 341 - 341 - 341 - 341 - 341 - 341 - 341 - 341 - 341 - 341 - 341 - 341 - 341 - 341 - 341 - 341 - 34
		F.								
	n sen en e								· · · · · · · · · · · · · · · · · · ·	
				L		L				

Remedial

Version 10/01/10

Spill/Site#: 915157 PIN: Groundwater & Environmental Services, Inc.

158 Sonwil Drive

Cheektowaga, New York 14225

Contract #: C100900 Invoice #:

GES Project #09-01467

Work Period:

5/12/12 - 6/15/12

Site Name: Mr. C's Dry Cleaners, 586 Main Street, East Aurora Description of Work Performed:

J. Siniscalchi - Onsite for well development of four wells (ESI-5R, ESI-8S-R, ESI-13B-R, and ESI-9S-R).

T. Palmer - Onsite for well development of four wells (ESI-5R, ESI-8S-R, ESI-13B-R, and ESI-9S-R).

S. Leitten - Coordination for well development/surveying.

		Site	Site		inter and a second s				
	Start	Arrival	Departure	End	Break/ Off #	Total Straight	Total Over	Total Double	
Employee Name	Time	Time	Time	Time	Hours	Time	time	Time	LVE
Jennifer Siniscalchi	0730	0830	1600	1700	0.50	8.00	1.00		
Jennifer Siniscalchi		0830	1600		0.50				7.00
Thomas Palmer	0730	0830	1600	1700	0.50	8.00	1.00		
Thomas Palmer		0830	1600		0.50		÷ )		7.00
Steve Leitten	1100			1200		1.00			
									<u> </u>
					i.				
		G	Contractor Equipment #	Start Time (Equip)	End Time (Equip)		Total Equip Hours	Total # of Ur Materials	nits for
				0730	1700	0.50	9.00		
				0830	1600	0.50	7.00		
tu Troll 9500 or equiv)				0830	1600	0.50	7.00		
				0830	1600	0.50	7.00		
anistad Casta/New Ca	atua at 1								
	Jennifer Siniscalchi Jennifer Siniscalchi Thomas Palmer Thomas Palmer Steve Leitten	Jennifer Siniscalchi 0730 Jennifer Siniscalchi Thomas Palmer 0730 Thomas Palmer 1100 Steve Leitten 1100	Jennifer Siniscalchi07300830Jennifer Siniscalchi0830Thomas Palmer07300830Thomas Palmer0830Steve Leitten1100	Jennifer Siniscalchi 0730 0830 1600 Jennifer Siniscalchi 0830 1600 Thomas Palmer 0730 0830 1600 Steve Leitten 1100 Contractor Equipment # tu Troll 9500 or equiv)	Jennifer Siniscalchi       0730       0830       1600       1700         Jennifer Siniscalchi       0830       1600       1700         Thomas Palmer       0730       0830       1600       1700         Thomas Palmer       0830       1600       1700         Steve Leitten       1100       1200       1200         Steve Leitten       1100       1200       1200         Image: Steve Leitten       1100       Image: Steve Leitten       1100       Image: Steve Leitten         Image: Steve Leitten       1100       Image: Steve Leitten       Image: Steve Leitten       Image: Steve Leitten       Image: Steve Leitten         Image: Steve Leitten       1100       Image: Steve Leitten       Image:	Jennifer Siniscalchi       0730       0830       1600       1700       0.50         Jennifer Siniscalchi       0830       1600       1700       0.50         Thomas Palmer       0730       0830       1600       1700       0.50         Thomas Palmer       0830       1600       1700       0.50         Thomas Palmer       0830       1600       0.50         Steve Leitten       1100       1200       1200         Image: Steve Leitten       1100       1200       1200         Image: Steve Leitten       1100       Image: Steve Leitten       1100       Image: Steve Leitten         Image: Steve Leitten       1100       Image: Steve Leitten       Image: Steve Leitten       Image: Steve Leitten       Image: Steve Leitten         Image: Steve Leitten       1100       Image: Steve Leitten       Image: Steve Leitten	Jennifer Siniscalchi         0730         0830         1600         1700         0.50         8.00           Jennifer Siniscalchi         0830         1600         1700         0.50         8.00           Thomas Palmer         0730         0830         1600         1700         0.50         8.00           Thomas Palmer         0730         0830         1600         1700         0.50         8.00           Thomas Palmer         0830         1600         1700         0.50         8.00           Steve Leitten         1100         1200         1.00         1.00           Image: Steve Leitten         1100         Image: Steve Leitten         Image: Steve Leitten	Jennifer Siniscalchi       0730       0830       1600       1700       0.50       8.00       1.00         Jennifer Siniscalchi       0830       1600       1700       0.50       8.00       1.00         Thomas Palmer       0730       0830       1600       1700       0.50       8.00       1.00         Thomas Palmer       0830       1600       1700       0.50       8.00       1.00         Steve Leitten       1100       1200       1.00       1.00       1.00       1.00         Steve Leitten       1100       1200       1.00       1.00       1.00       1.00       1.00         Steve Leitten       1100       1200       1.00       1.00       1.00       1.00       1.00         Steve Leitten       1100       1200       1.00       1.00       1.00       1.00       1.00         Steve Leitten       1100       Interverting       Inte	Jennifer Siniscalchi         0730         0830         1600         1700         0.50         8.00         1.00           Jennifer Siniscalchi         0830         1600         0.50         7.00         Materials         0.50         7.00         0.50         7.00         0.50         7.00         0.50         7.00         0.50         7.00         0.50         7.00         0.50         7.00

	Unit/ Lump Sum	
# of Units	Cost	Total Cost
	1 <sup>2</sup>	
		and a second
	# of Units	1 1 1

Remedial

Version 10/01/10

, DEC PM

Spill/Site#: 915157

PIN: