



engineering and constructing a better tomorrow

August 12, 2013

Mr. Michael Mason

New York State Department of Environmental Conservation

Division of Environmental Remediation

625 Broadway, 12th Floor

Albany, New York 12233-7013

Subject: **Former Diamond Cleaners Site, Site No. 808030**
Draft Field Activities Report - Groundwater and Soil Sampling Results
Work Assignment # D007619-03
MACTEC Engineering and Consulting, P.C., Project No. 3612112209

Dear Mr. Mason:

MACTEC Engineering and Consulting, P.C. (MACTEC), under contract to the New York State Department of Environmental Conservation (NYSDEC), is submitting this Field Activities Report (Report) for the former Diamond Cleaners Site (DC Site) located at 717 Lake Street in the north-central section of the City of Elmira, Chemung County, New York (Figure 1). The Site is listed as a Class 2 Inactive hazardous waste site; Site No. 808030 in the Registry of Hazardous Waste Sites in New York State (NYS). This Report is being submitted under the NYSDEC Work Assignment #D007619-03, and in accordance with the Superfund Standby Contract between MACTEC and the NYSDEC.

INTRODUCTION

The purpose of the work performed is to monitor the effectiveness that the recently completed remedial action at the Site has had on groundwater quality, and to assess soil and groundwater quality at the nearby Associated Textile Rental Services (ATRS) Site.

The Site consists of a one-acre lot in a commercial and residential area. Prior to the remedial action conducted in 2012 to address chlorinated solvent contamination in soil and in groundwater, the Site contained a one story building with a grassy area west of the building, gravel parking area

south of the building, and a paved parking area north of the building. The building superstructure was demolished in March 2011.

The former ATRS Site is a roughly 0.75 acre parcel located at 714 Baldwin Street in a light industrial area of the City of Elmira, Chemung County, New York. The Site contains an approximately 6,000 square foot warehouse building and a small driveway. The remainder of the property is grass covered. Vacant property borders the Site to the north and south. The DC Site is located upgradient, approximately 300 feet east of the ATRS property. Industrial property lies to the west of the ATRS Site, across Clemens Parkway. The Sullivan Street Public Supply Wells are located approximately 5,000 feet north of the Site.

BACKGROUND

The NYSDEC issued the DC Site Record of Decision (ROD) for operable unit (OU)-1 on 31 March 2008 (NYSDEC, 2008a). The OU-1 ROD selected demolition of the DC Site building, excavation of contaminated soils exceeding remediation goals, and transportation and off-Site disposal of contaminated soil and building debris as the remedy for source area soils.

The NYSDEC issued the ROD for OU-2 in March 2010 (NYSDEC, 2010). The OU-2 ROD selected in-situ chemical oxidation and in-situ enhanced biodegradation as the remedy for Site groundwater. Sodium permanganate would oxidize contaminants in the source area. When source area groundwater stabilizes, enhanced biodegradation reagents could be injected if necessary pending results of groundwater monitoring.

Remedial action at the DC Site conducted in 2012 consisted of:

- excavation of contaminated soils exceeding remediation goals, and transportation and off-Site disposal of contaminated soil and building debris
- injection of sodium permanganate to oxidize groundwater contaminants in the source area
- installation of 12 groundwater monitoring wells (MW-12 through MW-23) both on-Site and off-Site; these wells had not been sampled prior to the field activities discussed in this Report.

A summary of the remedial action conducted in 2012 is contained in the Final Engineering Report (MACTEC, 2013a).

Groundwater monitoring discussed in this Report was conducted to monitor the effectiveness of the recently completed remedial action. In addition, sampling activities were performed to assess soil and groundwater quality at the nearby ATRS Site.

Subsequent investigations at the DC Site, including pre-design investigations conducted in separate mobilizations in March 2010, October 2010, and May 2012 were completed following the issuance of the ROD (NYSDEC, 2010), and are described in the Final Engineering Report (MACTEC, 2013a). Previous investigations at the ATRS Site are described in the 2008 Final Site Characterization Report for the ATRS Site (MACTEC, 2008) and the DC Remedial Investigation/Feasibility Study Report (MACTEC, 2009).

FIELD ACTIVITIES – MAY 2013

The objective of the May 2013 field investigation was to 1) monitor the effectiveness that the recently completed remedial action at the DC Site has had on groundwater quality, and 2) to assess soil and groundwater quality at the nearby ATRS Site.

Field activities planned at the DC and ATRS Sites is outlined in the Field Activities Plan (FAP): May 2013 Groundwater Sampling – former Diamond Cleaners (NYSDEC Site 808030) (MACTEC, 2013b). Fieldwork discussed in this Report was performed during the period between May 6 and May 9, 2013.

The following activities were conducted at the DC and ATRS Sites:

- A total of 36 groundwater samples were collected from 35 monitoring locations associated with the DC and ATRS Sites. Water samples were submitted for volatile organic compound (VOC) analysis
- A total of six (6) grab groundwater samples and 11 soil samples were collected from five direct push soil borings advanced on the ATRS property. Soil borings were placed coincident with sample locations previously advanced during a 2007 investigation conducted at the ATRS Site. Water and soil grab samples were submitted for VOC analysis;

Under direct contract with the NYSDEC, analytical and drilling services were provided by the following NYSDEC callout contractors:

- TestAmerica Laboratories, Inc. – provided soil and groundwater laboratory analytical services
- SJB Services, Inc./Empire Geo Services, Inc. –provided direct-push drilling services and provided means to treat discharge/purge water on-Site using granular activated carbon (GAC).

Investigation Derived Waste

Use of dedicated sampling equipment was used to the extent practical during this field effort. Used disposable equipment and personal protective clothing was double bagged in polyethylene trash bags and sealed with twist ties. This material was disposed of as nonhazardous municipal solid waste.

Groundwater well and direct push purge water generated during sampling activities at locations identified to be contaminated based on previous sampling results was containerized and treated on-Site using a portable GAC unit. The list of wells/borings identified as needing groundwater GAC treatment was provided in Table 2 of the FAP (MACTEC, 2013b). Treated water and groundwater from wells in which treatment was identified as not being necessary, as well as wash-water used to clean direct-push tools and water level indicators was discharged to the ground in a controlled manner.

Groundwater Sampling Activities

To evaluate current groundwater concentrations in the vicinity of the DC and ATRS Sites, low-flow groundwater sampling was conducted at 35 monitoring locations, as shown on Figure 2. Prior to groundwater sampling, water level measurements were collected at previously installed monitoring wells and piezometers both on- and off-Site.

Well sampling was conducted by MACTEC personnel according to MACTEC's Program Quality Assurance Program Plan (MACTEC, 2011). Field parameters, including water levels, pH, temperature, specific conductivity, oxidation reduction potential and dissolved oxygen were also

recorded at each monitoring location during pre-sample purging. Following collection, groundwater samples were submitted to TestAmerica Laboratories, Inc. for laboratory analysis of VOCs by United States Environmental Protection Agency (USEPA) Method 8260 following the NYSDEC Analytical Services Protocols (NYSDEC, 2005). Groundwater monitoring field data records are included in Attachment 1.

Groundwater purged during monitoring well sampling and direct-push groundwater grab sampling was containerized and treated on-Site using a portable GAC unit. The list of wells/borings identified as needing GAC treatment based on previous sampling results is provided on Table 1. Groundwater from wells in which treatment was not necessary was discharged to the ground in a controlled manner.

Direct Push Sampling Program – ATRS Site

To assess current soil and groundwater quality, as well as to compare current results to results at those sample locations previously evaluated at the ATRS Site, direct push soil and water sampling were conducted, as described in the following sub-sections.

Direct Push Soil Borings

Based on previous analytical data, soil borings during the May 2013 sampling event were placed coincident to previous borings advanced during a 2007 investigation performed at the ATRS Site. To evaluate the extent of potential soil contamination at the ATRS Site, five new soil borings (ATGW-002A, ATGW-026A, ATGW-043A, ATGW-045A, and ATGW-046A) were advanced at locations south and east of the ATRS Site building, similar to those completed in 2007. Soil boring locations are shown on Figure 2.

Soil samples were collected continuously from the ground surface to a maximum depth of 19 feet below ground surface. Soil samples were described consistent with the Unified Soil Classification System. Photoionization detector (PID) headspace readings were used to screen soil samples for the potential presence of VOCs as each soil sample was removed from the sample collection tube. The sample description and classification, PID headspace reading, and boring observations were recorded on the Soil Boring Logs, included in Attachment 1.

Two soil samples were collected from each boring for laboratory analysis of VOCs by USEPA Method 8260C with methanol preservation. The sample intervals were selected based on the portion of the soil core that had the highest PID reading, or were selected by the field geologist based on visual and/or olfactory characteristics. Upon completion, each boring was backfilled and the ground surface repaired to its original condition.

Direct Push Groundwater Sampling

Subsequent to direct push soil sampling, groundwater grab samples were collected from each direct push soil boring location. Upon completion of the soil sampling, a temporary one-inch diameter polyvinyl chloride narrow diameter well with a five-foot screen was deployed into each borehole. Groundwater was then purged and sampled from these temporary points at low-flow rates using dedicated polyethylene tubing and a peristaltic pump. Groundwater grab samples were submitted for laboratory analysis of VOCs by USEPA Method 8260. Relevant sample information was recorded on the direct push soil boring logs (see Attachment 1).

RESULTS

Groundwater Level Readings

Water level readings were collected to establish the potentiometric groundwater surface underlying the DC and ATRS Sites and the surrounding area at the time of sampling. Water level elevations and monitoring locations construction information are presented on Table 2. Based upon the water level readings, groundwater is interpreted to flow to southwest west across the two Sites, as depicted on Figure 3.

Soil and Groundwater Sampling

The results for the May 2013 soil and groundwater sampling event are discussed in the following subsections. Table 1 summarizes VOC detections in groundwater samples. Analytical data from groundwater samples were compared to the New York Codes, Rules, and Regulations (NYCRR) Subpart 703: Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations, Class GA Waters (NYSDEC, 2008b). Table 3 summarizes VOC detections in soil samples, with results compared to the NYCRR Subpart 375-6.8: Soil

Cleanup Objectives (NYSDEC, 2006). Sample concentrations observed to exceed criteria are presented with bold/shaded text in these tables. The Data Usability Summary Report and complete analytical results are included in Attachment 2.

Groundwater Sampling Results

The concentrations of chlorinated solvents, as well as fuel related compounds detected in groundwater samples at the DC and ATRS Sites were observed to be generally consistent with historic data or are generally decreasing for most parameters at most locations. Results of the May 2013 sampling event show concentrations of primary groundwater contaminants of concern (COCs) (primarily tetrachloroethene [PCE], trichloroethene [TCE], cis-1,2-dichloroethene [cis-1,2-DCE], and vinyl chloride), in addition to other VOC compounds (including benzene and its derivatives) reported at levels above NYS GA Standards at locations on both the DC and ATRS Sites. Sample locations, including detections of PCE, TCE and cis-1,2-DCE, are shown on Figure 4.

Diamond Cleaners Site

Results from groundwater samples collected at locations near the area of remedial action (i.e., GW-002, MW-001, MW-007, MW-020 and MW-021) at the DC Site generally show an improvement in groundwater quality in the vicinity of the contaminant source area, possibly a result of the recent remedial action at the DC Site. Concentrations of PCE, TCE and cis-1,2-DCE are generally reported at levels lower than those from previous sampling events. Note that wells MW-020 and MW-021 were installed in the area of previously sampled MW-005, which was destroyed during remedial construction related activities in 2012. Analytical data from these two locations was evaluated along with previous data from MW-005.

ATRS Site

Groundwater Sampling Results – ATRS Site Monitoring Wells

Groundwater sample data reported from samples collected at the ATRS Site show concentrations of chlorinated solvents and fuel related compounds above NYS GA Standards at six monitoring well locations. Concentrations of PCE, TCE, cis-1,2-DCE, benzene, ethyl benzene, isopropyl benzene,

toluene and xylenes were reported in excess of NYS criteria at ATMW-001, ATMW-001R, ATMW-002, ATMW-004, ATMW-008, and ATMW-009.

Groundwater Sampling Results – ATRS Site Direct Push

Chlorinated solvents and fuel related VOCs were detected in each of the five groundwater samples obtained at the ATRS direct push locations; VOC compounds were reported above NYS GA Standards for each of the five groundwater samples.

Soil Sampling Results – ATRS Site Direct Push Soil Borings

Unconsolidated overburden encountered during soil sampling at the direct push soil borings at the ATRS Site consisted of silts, sands and gravels of varying consistency. These observations are similar to those described during previous investigations.

Analytical results reported from soil samples collected at the five soil borings indicate that relatively low concentrations of VOCs, including PCE, TCE and cis-1,2-DCE, were reported in each of the soil borings. Toluene was detected in ATGW-002A and in ATGW-043A. None of the detected compounds were reported above NYSDEC criteria. Benzene, ethyl benzene, isopropyl benzene, and xylenes were not detected in any of the samples. Sample locations and detections of VOC compounds are shown on Figure 5.

SUMMARY AND RECOMMENDATIONS

The May 2013 sampling investigation was conducted to monitor the effectiveness that the recently completed remedial action at the DC Site has had on groundwater quality, and to assess soil and groundwater quality at the nearby ATRS Site. The findings of the investigation are summarized below:

Summary

Former Diamond Cleaners Site

- A total of 25 groundwater samples were collected from 25 monitoring locations associated with the DC Site. Water samples were submitted for VOC analysis. Concentrations of

VOCs, including PCE, TCE, cis-1,2-DCE and vinyl chloride exceeded NYS GA Standards at several locations;

- Results from groundwater samples collected at GW-002, MW-001, MW-007, MW-020 and MW-021 at the DC Site generally show an improvement in groundwater quality in the area of remedial action, possibly a result of the recent remedial action at the DC Site. Concentrations of PCE, TCE and cis-1,2-DCE are generally reported at levels lower than those from previous sampling events.

ATRS Site

- Groundwater samples were collected from 10 groundwater monitoring wells associated with the ATRS Sites to evaluate concentrations of VOC compounds in shallow groundwater. Concentrations of chlorinated solvents and fuel related compounds exceeded NYS GA Standards at six (6) locations;
- To better understand contaminant distribution south and east of the ATRS Site building, 11 soil samples and five groundwater samples were obtained from 5 exploration locations and analyzed for VOCs. Site related COCs, including PCE, were detected in each soil sample; no VOCs were reported above NYS criteria. Chlorinated solvents and fuel related VOCs were detected in each of the five groundwater samples obtained at the ATRS direct push locations; VOC compounds were reported above NYS GA Standards for each of the five groundwater samples.

Recommendations

Based on findings from the May 2013 soil and groundwater sampling program conducted at the DC and ATRS Sites, AMEC has the following recommendations for further investigation at one or both of the Sites:

- 1) No apparent boundary of groundwater contamination has been established along the southern end of the plume in the area of the DC and ATRS Sites. Additional sampling and proposed well installation is recommended in the area to the south of the ATRS building to determine the lateral extent of the plume.
- 2) Soil data obtained previously during the Region 8 Site characterization at the ATRS Site (MACTEC, 2008) indicate that shallow soil contamination was encountered in borings east of the ATRS Site building. This, combined with the results from the May 2013 soil borings, suggests the contamination reported to date is residual and that the source area has not been identified. Additional soil borings along the east and south sides of the building are recommended to define the limits – and possibly a source - of soil contamination in this area.
- 3) Based on previous soil vapor data reported in the 2008 Site Characterization report for the ATRS Site (MACTEC, 2008), there is the potential for soil contamination (and potentially the source) to be located under the ATRS building. Additional soil vapor sampling and potential interior soil borings (if possible) are recommended to potentially identify a

contaminant source underlying the ATRS building, as well as confirm previously reported soil vapor results obtained during the 2008 Site characterization (MACTEC, 2008).

- 4) Based on concentrations of fuel related compounds (benzene, ethyl benzene, isopropyl benzene, toluene and xylenes) reported in groundwater samples collected at ATMW-001, ATMW-001R, ATMW-002 and ATMW-004, further investigation to better characterize evidence of benzene and its derivatives noted during previous sampling at ATRS Site is recommended.
- 5) The OU-2 ROD for the DC Site (NYSDEC, 2010) recommended soil vapor sampling at the DC Site to monitor the effectiveness of the remedial action. Sampling vapor sampling at both the DC site and the ATRS site is recommended to determine if there are vapor intrusion concerns.
- 6) While concentrations of chlorinated solvents have shown a recent decrease at sample locations in close proximity to the area of remedial action, continued monitoring of groundwater quality is recommended to evaluate the effectiveness of the remedy over time.

We appreciate the opportunity to present this report. If you have any questions or concerns please call Mark Stelmack at 207-828-3592 or Lucas Benedict at 207-828-3599.

Sincerely,

MACTEC Engineering and Consulting, P.C.

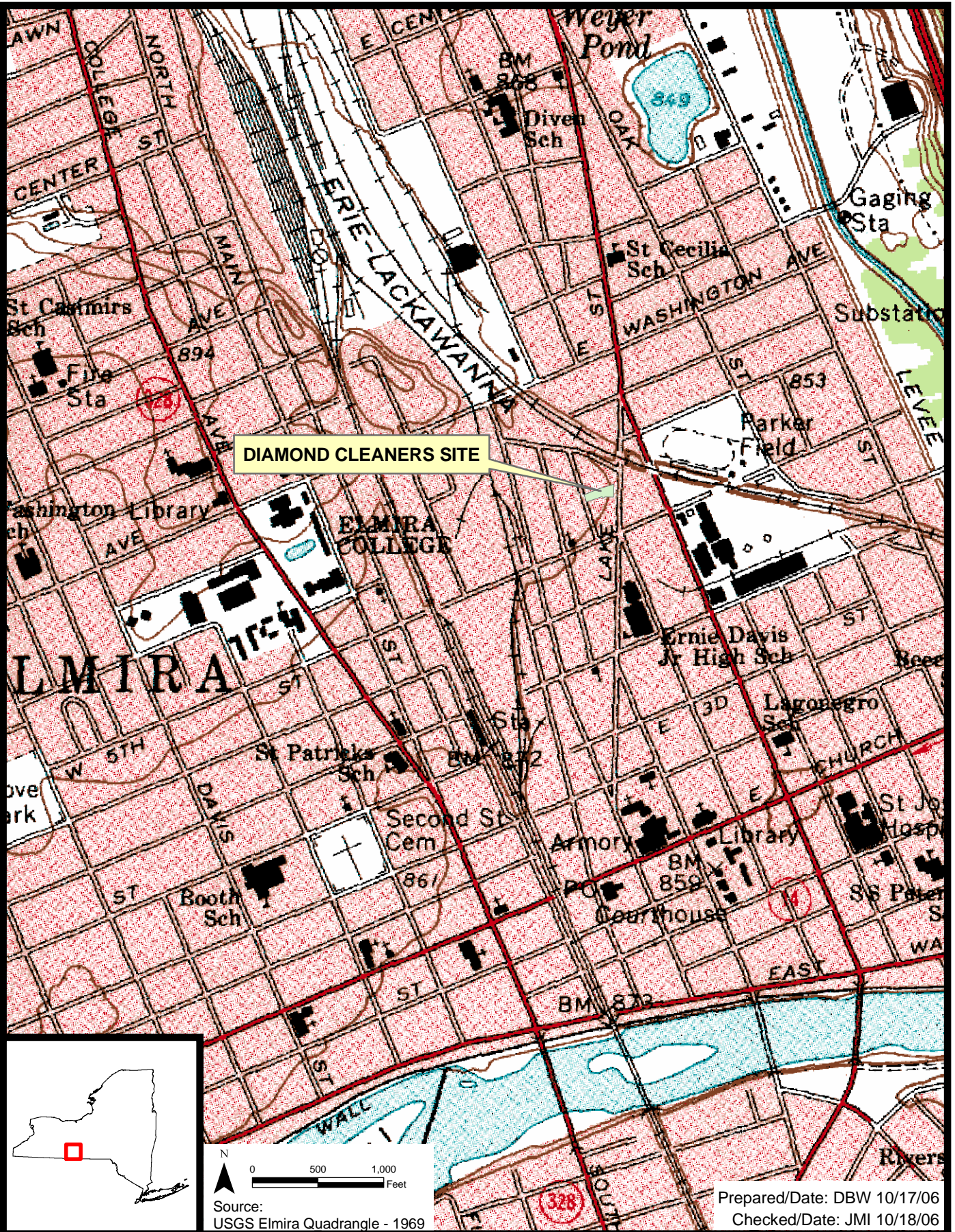
Mark J. Stelmack, PE
Project Manager

Lucas J. Benedict
Project Scientist

Enclosures (2)

REFERENCES

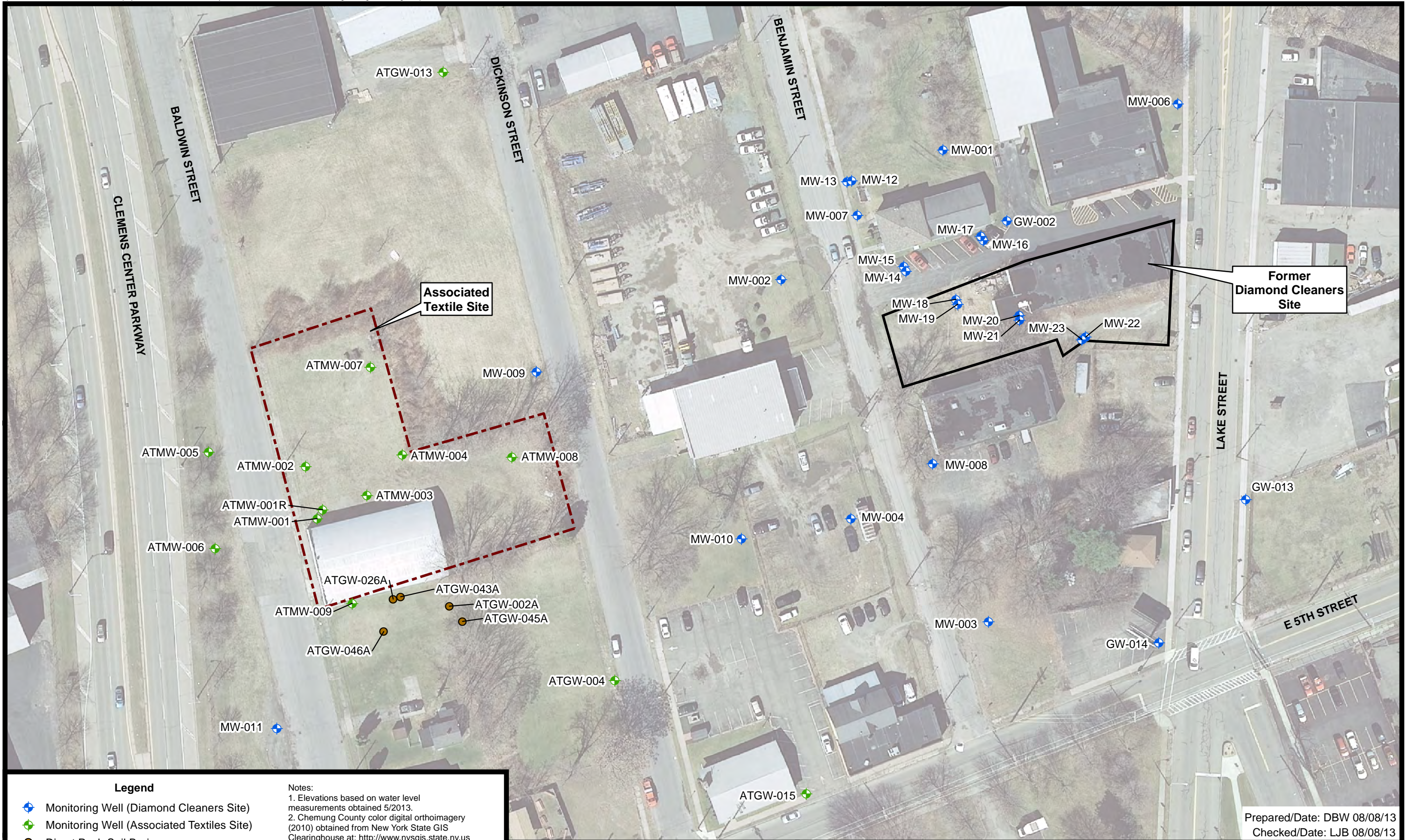
- MACTEC Engineering and Consulting, P.C. (MACTEC), 2008. Final Site Characterization Report, Region 8 Dry Cleaners – Group 2, Associated Textile Rental Services Site, Site No. 808041. Prepared for the New York State Department of Environmental Conservation, Albany, New York. January 2008.
- MACTEC, 2009. Remedial Investigation/Feasibility Study Report, Operable Unit 2, Diamond Cleaners Site Number 808030. Prepared for the New York State Department of Environmental Conservation, Albany, New York. December 2009.
- MACTEC, 2011. Field Activities Plan & Quality Assurance Program Plan. Prepared for the New York State Department of Environmental Conservation, Albany, New York. June 2011.
- MACTEC, 2013a. Final Engineering Report, Diamond Cleaners Remedial Action, Site Number 808030. Prepared for the New York State Department of Environmental Conservation, Albany, New York. February 2013.
- MACTEC, 2013b. Field Activities Plan: May 2013 Groundwater Sampling - Former Diamond Cleaners (NYSDEC Site 808030). Prepared for the New York State Department of Environmental Conservation, Albany, New York. April 2013.
- New York State Department of Environmental Protection (NYSDEC), 2005. “Analytical Services Protocols”; 7/05 Edition; July 2005.
- NYSDEC, 2006. New York Codes, Rules, and Regulations, Title 6, Part 375: Environmental Remediation Programs, Subpart 375-6: Remedial Program Soil Cleanup Objectives (<http://www.dec.ny.gov/regs/15507.html>), Effective December 14, 2006.
- NYSDEC, 2008a. Record of Decision, Diamond Cleaners Site, Operable Unit 1, Elmira, Chemung County, New York, Site Number 808030; March 2008.
- NYSDEC, 2008b. New York Codes, Rules, and Regulations, Title 6, Part 703: Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations (<http://www.dec.ny.gov/regs/4590.html>), Effective February 16, 2008.
- NYSDEC, 2010. Record of Decision, Diamond Cleaners Site, Operable Unit 2, Elmira, Chemung County, New York, Site Number 808030; March 2010.



NYSDEC
FORMER DIAMOND CLEANERS
Elmira, New York



Site Location
Project 3612-11-2209
Figure 1



Legend

- ◆ Monitoring Well (Diamond Cleaners Site)
- ◆ Monitoring Well (Associated Textiles Site)
- Direct Push Soil Boring
- Diamond Cleaners Property
- Former ATRS Property

Notes:

1. Elevations based on water level measurements obtained 5/2013.
2. Chemung County color digital orthoimagery (2010) obtained from New York State GIS Clearinghouse at: <http://www.nysgis.state.ny.us>

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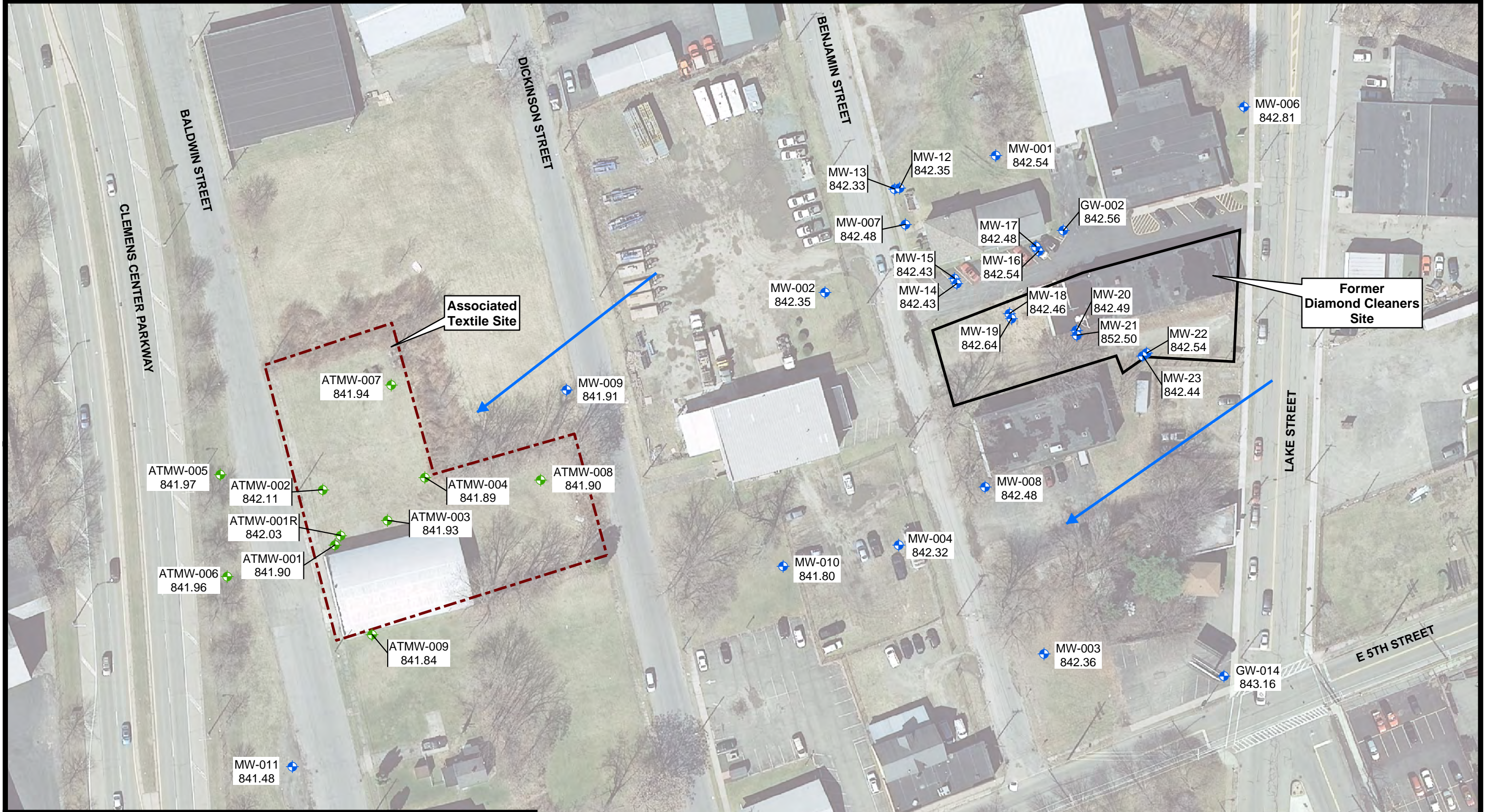
0 35 70
Feet

NYSDEC
FORMER DIAMOND CLEANERS SITE
ELMIRA, NEW YORK



Diamond Cleaners and Associated Textile
Soil and Groundwater Sampling Locations
Project 3612112209
Figure 2

Prepared/Date: DBW 08/08/13
Checked/Date: LJB 08/08/13



Legend

- ◆ Monitoring Well (Diamond Cleaners Site)
- ◆ Monitoring Well (Associated Textile Site)
- Interpreted Groundwater Flow Direction
- Diamond Cleaners Property
- Former ATRS Property

Notes:

1. Elevations based on water level measurements obtained 5/2013.
2. Chemung County color digital orthoimagery (2010) obtained from New York State GIS Clearinghouse at: <http://www.nysgis.state.ny.us>

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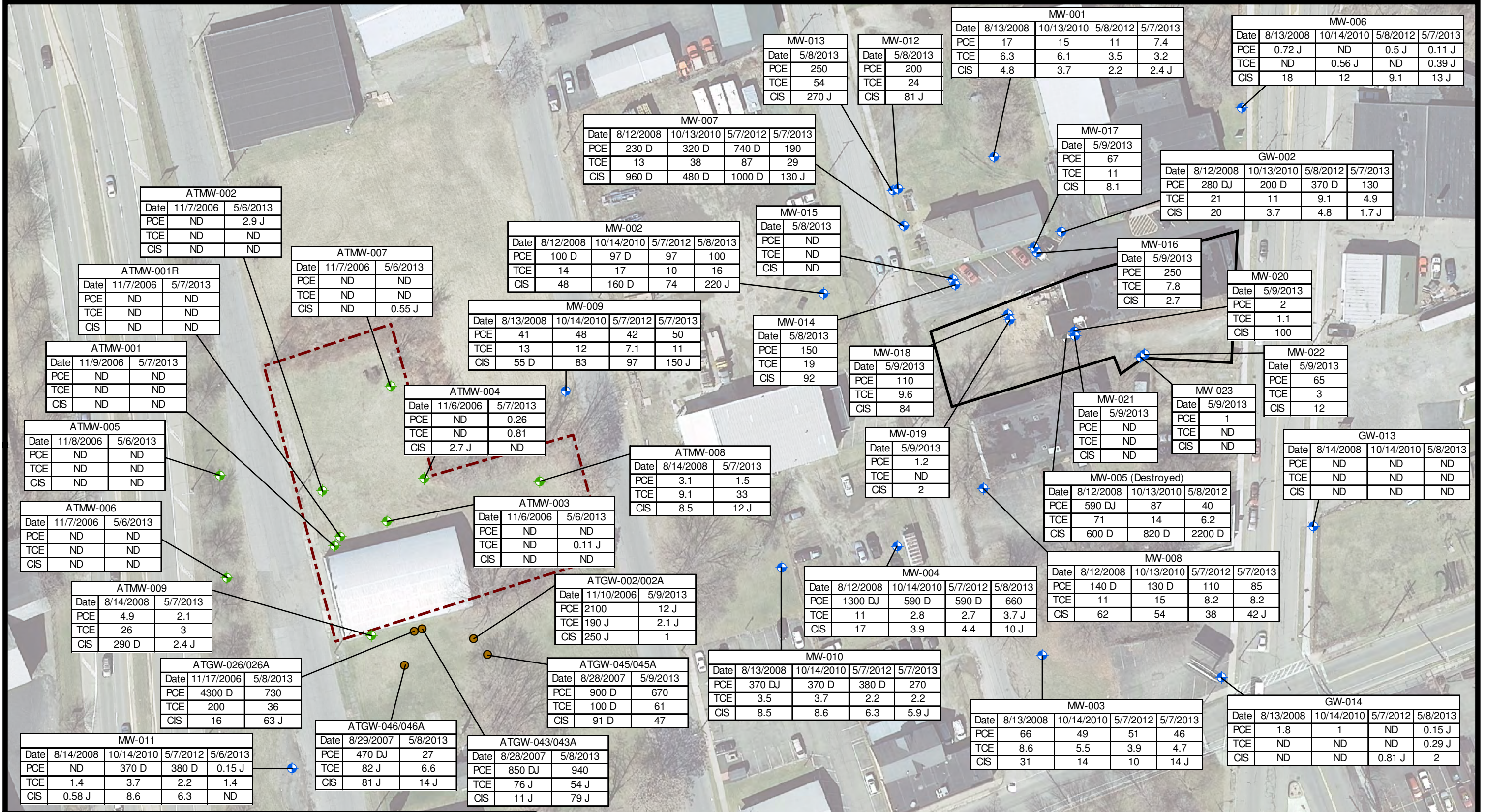
NYSDEC
FORMER DIAMOND CLEANERS SITE
ELMIRA, NEW YORK



Diamond Cleaners and Associated Textile
Groundwater Elevations
Project 3612112209

Prepared/Date: BRP 08/01/13
Checked/Date: LJB 08/01/13

Figure 3



Legend

- Monitoring Well (Diamond Cleaners Site)
- Monitoring Well (Associated Textiles Site)
- Direct Push Soil Boring
- Destroyed Monitoring Well
- Diamond Cleaners Property
- Former ATRS Property

Note: Chemung County color digital orthoimagery (2010) obtained from New York State GIS Clearinghouse at: <http://www.nysgis.state.ny.us>

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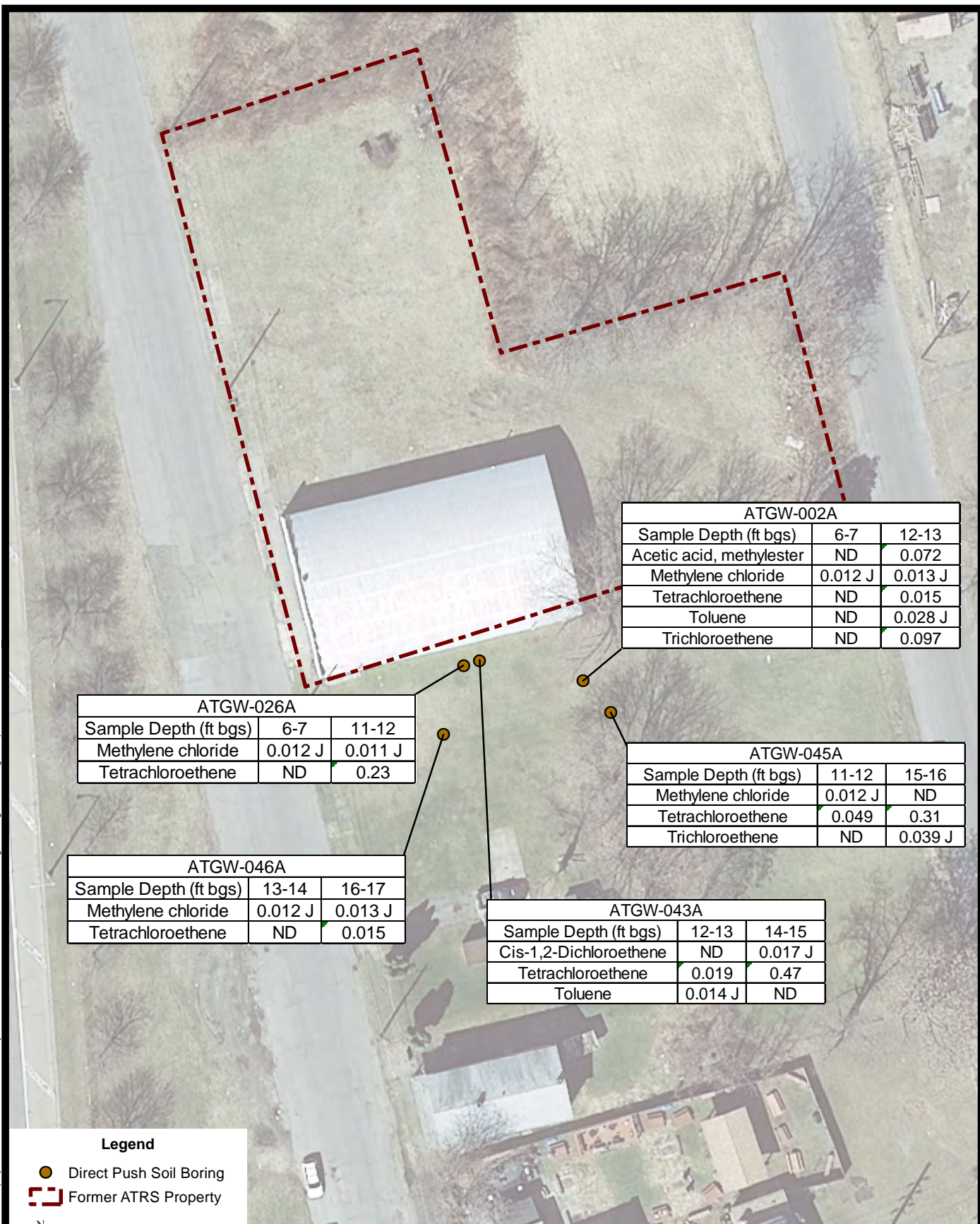
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ELMIRA, NEW YORK



Prepared/Date: BRP 07/31/13
Checked/Date: LJB 07/31/13

Maximum PCE, TCE and Cis-1,2-DCE
Detections in Groundwater – 2006 to 2013
Project 3612112209
Figure 4

Document: \\p02-fs1\Project\Projects\Diamond Cleaners\4.0 Project Deliverables\4.5 Databases\GIS Data\Map Documents\May 2013 Letter Report\Letter_Report_GW_Chem_Boxes_8.5x11P.mxd PDF: P:\Projects
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ATGW-002A		
Sample Depth (ft bgs)	6-7	12-13
Acetic acid, methylester	ND	0.072
Methylene chloride	0.012 J	0.013 J
Tetrachloroethene	ND	0.015
Toluene	ND	0.028 J
Trichloroethene	ND	0.097

ATGW-026A		
Sample Depth (ft bgs)	6-7	11-12
Methylene chloride	0.012 J	0.011 J
Tetrachloroethene	ND	0.23

ATGW-045A		
Sample Depth (ft bgs)	11-12	15-16
Methylene chloride	0.012 J	ND
Tetrachloroethene	0.049	0.31
Trichloroethene	ND	0.039 J

ATGW-046A		
Sample Depth (ft bgs)	13-14	16-17
Methylene chloride	0.012 J	0.013 J
Tetrachloroethene	ND	0.015

ATGW-043A		
Sample Depth (ft bgs)	12-13	14-15
Cis-1,2-Dichloroethene	ND	0.017 J
Tetrachloroethene	0.019	0.47
Toluene	0.014 J	ND

Legend

- Direct Push Soil Boring
- Former ATRS Property

N

Note: Chemung County color digital orthoimagery (2010) obtained from New York State GIS Clearinghouse at: <http://www.nysgis.state.ny.us>

Prepared/Date: DBW 08/08/13
 Checked/Date: LJB 08/08/13

NYSDEC
 FORMER DIAMOND CLEANERS SITE
 ELMIRA, NEW YORK



Soil Borings with VOC Data
 Project 3612112209 Figure 5

Table 1: Analytical Data Summary - Groundwater

Parameter	Location Sample Date Sample ID Qc Code Criteria	GW-002 5/7/2013 DCGW00212013XX FS		GW-013 5/8/2013 DCGW01312013XX FS		GW-014 5/8/2013 DCGW01413013XX FS		MW-001 5/7/2013 DCMW00112013XX FS		MW-002 5/8/2013 DCMW00212013XX FS		MW-003 5/7/2013 DCMW00312013XX FS	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
		1,1,1-Trichloroethane	5	0.12	J	1	U	1	U	1	U	0.087	J
1,1,2-Trichloroethane	1	1	U	1	U	1	U	1	U	3.4		1	U
1,1-Dichloroethane	5	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethene	5	1	U	1	U	1	U	1	U	0.44	J	1	U
1,2-Dichloroethane	0.6	1	U	1	U	1	U	1	U	2.1		1	U
1,3-Dichlorobenzene	3	1	U	1	UJ	1	UJ	1	U	1	U	1	U
1,4-Dichlorobenzene	3	1	U	1	UJ	1	UJ	1	U	1	U	1	U
2-Butanone	50	5	UJ	5	UJ	5	UJ	5	UJ	11	J	5	UJ
Acetone	50	5	UJ	13	J	5	UJ	5	UJ	2.8	J	5	UJ
Benzene	1	1	U	0.15	J	1	U	1	U	0.17	J	1	U
Bromoform	50	1	U	1	UJ	1	UJ	1	U	1	U	1	U
Bromomethane	5	1	U	1	UJ	1	UJ	1	U	0.25	J	1	U
Carbon disulfide	60	1	U	0.42	J	0.31	J	1	U	1	U	1	U
Chlorodibromomethane	50	1	U	1	UJ	1	UJ	1	U	89		1	U
Chloroethane	5	1	U	1	U	1	U	1	U	0.41	J	1	U
Chloroform	7	1	U	1	U	1	U	1	U	0.11	J	0.28	J
Chloromethane	5	1	U	1	U	1	U	1	U	0.19	J	1	U
Cis-1,2-Dichloroethene	5	1.7	J	1	U	2		2.4	J	220	J	14	J
Cyclohexane		1	UJ	1	U	1	U	1	UJ	1	UJ	1	UJ
Ethyl benzene	5	1	U	1	U	1	U	1	U	1	U	1	U
Isopropylbenzene	5	1	U	1	U	1	U	1	U	1	U	1	U
Methyl cyclohexane		1	U	1	U	1	U	1	U	0.18	J	1	U
Methyl Tertbutyl Ether		1	U	1	U	1	U	1	U	1	U	1	U
Tetrachloroethene	5	130		1	U	0.15	J	7.4		100		46	
Toluene	5	1	U	0.27	J	0.18	J	1	U	1	U	1	U
trans-1,2-Dichloroethene	5	1	UJ	1	U	1	U	1	UJ	0.99	J	1	UJ
Trichloroethene	5	4.9		1	U	0.29	J	3.2		16		4.7	
Vinyl chloride	2	1	U	1	U	1	U	1	U	0.93	J	1	U
Xylenes, Total	5	3	U	3	U	3	U	3	U	3	U	3	U

Notes:

Samples analyzed for VOCs by SW846 8260

QC Code:

FS = Field Sample; FD = Field Duplicate

Criteria = Part 703: Surface Water and Groundwater
Quality Standards and Groundwater Effluent Limitations
(NYSDEC, 2008).

Only detected compounds shown.

Detections are indicated in **BOLD**

Highlighted results exceed criteria

Qualifiers:

U = Not detected above reporting limit

J = Estimated value

H = Exceeded method hold time

Table 1: Analytical Data Summary - Groundwater

Parameter	Location Sample ID Qc Code Criteria	MW-004 5/8/2013 DCMW00412013XD FD		MW-004 5/8/2013 DCMW00412013XX FS		MW-006 5/7/2013 DCMW00612013XX FS		MW-007 5/7/2013 DCMW00712013XX FS		MW-008 5/7/2013 DCMW00812013XX FS		MW-009 5/7/2013 DCMW00912013XX FS	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
		1,1,1-Trichloroethane	5	5 U		5 U		1 U		1 U		1 U	
1,1,2-Trichloroethane	1	5 U		5 U		1 U		1 U		1 U			1 U
1,1-Dichloroethane	5	5 U		5 U		0.25 J		1 U		1 U			1 U
1,1-Dichloroethene	5	5 U		5 U		1 U		0.31 J		1 U			0.19 J
1,2-Dichloroethane	0.6	5 U		5 U		1 U		1 U		1 U			1 U
1,3-Dichlorobenzene	3	5 U		5 U		1 U		1 U		1 U			1 U
1,4-Dichlorobenzene	3	5 U		5 U		1 U		1 U		1 U			1 U
2-Butanone	50	25 UJ		25 UJ		5 UJ		5 UJ		5 UJ			5 UJ
Acetone	50	25 UJ		25 UJ		5 UJ		5 UJ		5 UJ			5 UJ
Benzene	1	5 U		5 U		1 U		0.1 J		1 U			0.099 J
Bromoform	50	5 UJ		5 UJ		1 UJ		1 U		1 U			1 UJ
Bromomethane	5	5 U		5 U		1 U		1 U		1 U			1 U
Carbon disulfide	60	5 U		5 U		1 U		1 U		1 U			1 U
Chlorodibromomethane	50	5 U		5 U		1 U		1 U		1 U			1 U
Chloroethane	5	5 U		5 U		1 U		1 U		1 U			1 U
Chloroform	7	5 U		5 U		1 U		1 U		0.17 J			1 U
Chloromethane	5	5 U		5 U		1 U		1 U		1 U			1 U
Cis-1,2-Dichloroethene	5	9.4 J		10 J		13 J		130 J		42 J			150 J
Cyclohexane		5 UJ		5 UJ		1 UJ		1 UJ		1 UJ			1 UJ
Ethyl benzene	5	5 U		5 U		1 U		1 U		1 U			1 U
Isopropylbenzene	5	5 U		5 U		1 U		1 U		1 U			1 U
Methyl cyclohexane		5 UJ		5 UJ		1 UJ		1 U		1 U			1 UJ
Methyl Tertbutyl Ether		5 U		5 U		1 U		1 U		1 U			1 U
Tetrachloroethene	5	620		660		0.11 J		190		85			50
Toluene	5	5 U		5 U		1 U		1 U		1 U			1 U
trans-1,2-Dichloroethene	5	5 UJ		5 UJ		1 UJ		0.74 J		0.33 J			0.81 J
Trichloroethene	5	4.4 J		3.7 J		0.39 J		29		8.2			11
Vinyl chloride	2	5 U		5 U		0.21 J		1.1		0.59 J			0.15 J
Xylenes, Total	5	15 U		15 U		3 U		3 U		3 U			3 U

Notes:

Samples analyzed for VOCs by SW846 8260

QC Code:

FS = Field Sample; FD = Field Duplicate

Criteria = Part 703: Surface Water and Groundwater
 Quality Standards and Groundwater Effluent Limitations
 (NYSDEC, 2008).

Only detected compounds shown.

Detections are indicated in **BOLD**

Highlighted results exceed criteria

Qualifiers:

U = Not detected above reporting limit

J = Estimated value

H = Exceeded method hold time

Table 1: Analytical Data Summary - Groundwater

Parameter	Location Sample Date Sample ID Qc Code Criteria	MW-010 5/7/2013 DCMW01012013XX FS		MW-011 5/6/2013 DCMW01112013XX FS		MW-012 5/8/2013 DCMW1212013XX FS		MW-013 5/8/2013 DCMW1312013XX FS		MW-014 5/8/2013 DCMW1412013XX FS		MW-015 5/8/2013 DCMW1512013XX FS	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
		1,1,1-Trichloroethane	5	1 U		1 U		1 U		1 U		1 U	
1,1,2-Trichloroethane	1	1 U		1 U		1 U		1 U		1 U		1 U	
1,1-Dichloroethane	5	1 U		1 U		1 U		1 U		1 U		1 U	
1,1-Dichloroethene	5	1 U		1 U		0.12 J		0.6 J		1 U		1 U	
1,2-Dichloroethane	0.6	1 U		1 U		1 U		1 U		1 U		1 U	
1,3-Dichlorobenzene	3	1 U		1 U		1 U		1 U		1 U		1 U	
1,4-Dichlorobenzene	3	1 U		1 U		1 U		1 U		1 U		1 U	
2-Butanone	50	5 UJ		5 UJ		5 UJ		5 UJ		5 U		5 U	
Acetone	50	5 UJ		5 UJ		5 UJ		5 UJ		5 UJ		5 UJ	
Benzene	1	1 U		1 U		0.084 J		0.13 J		1 U		1 U	
Bromoform	50	1 U		1 UJ		1 U		1 UJ		1 U		1 U	
Bromomethane	5	1 U		1 U		1 U		1 U		1 U		1 U	
Carbon disulfide	60	1 U		1 U		1 U		1 U		1 U		1 U	
Chlorodibromomethane	50	1 U		1 U		1 U		1 U		1 U		1 U	
Chloroethane	5	1 U		1 U		1 U		1 U		1 U		1 U	
Chloroform	7	0.18 J		1 U		1 U		1 U		1 U		1 U	
Chloromethane	5	1 U		1 U		1 U		1 U		1 U		1 U	
Cis-1,2-Dichloroethene	5	5.9 J		1 UJ		81 J		270 J		92		1 U	
Cyclohexane		1 UJ		1 UJ		1 UJ		1 UJ		1 U		1 U	
Ethyl benzene	5	1 U		1 U		1 U		1 U		1 U		1 U	
Isopropylbenzene	5	1 U		1 U		1 U		1 U		1 U		1 U	
Methyl cyclohexane		1 U		1 UJ		1 U		1 UJ		1 U		1 U	
Methyl Tertbutyl Ether		1 U		1.3		1 U		1 U		1 U		1 U	
Tetrachloroethene	5	270		0.15 J		200		250		150		1 U	
Toluene	5	1 U		1 U		1 U		1 U		1 U		1 U	
trans-1,2-Dichloroethene	5	1 UJ		1 UJ		0.55 J		1.5 J		0.76 J		1 U	
Trichloroethene	5	2.2		1.4		24		54		19		1 U	
Vinyl chloride	2	1 U		1 U		1 U		2.2		2.1		1 U	
Xylenes, Total	5	3 U		3 U		3 U		3 U		3 U		3 U	

Notes:

Samples analyzed for VOCs by SW846 8260

QC Code:

FS = Field Sample; FD = Field Duplicate

Criteria = Part 703: Surface Water and Groundwater
 Quality Standards and Groundwater Effluent Limitations
 (NYSDEC, 2008).

Only detected compounds shown.

Detections are indicated in **BOLD**

Highlighted results exceed criteria

Qualifiers:

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J = Estimated value

H = Exceeded method hold time

Table 1: Analytical Data Summary - Groundwater

Parameter	Location Sample Date Sample ID Qc Code Criteria	MW-016 5/9/2013 DCMW1612013XX FS		MW-017 5/9/2013 DCMW1712013XX FS		MW-018 5/9/2013 DCMW1812013XX FS		MW-019 5/9/2013 DCMW1912013XX FS		MW-020 5/9/2013 DCMW2012013XX FS		MW-021 5/9/2013 DCMW2112013XX FS	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
		1,1,1-Trichloroethane	5	1 U		1 U		1 U		1 U		1 U	
1,1,2-Trichloroethane	1	1 U		1 U		1 U		1 U		1 U		1 U	
1,1-Dichloroethane	5	1 U		1 U		1 U		1 U		1 U		1 U	
1,1-Dichloroethene	5	1 U		1 U		1 U		1 U		1 U		1 U	
1,2-Dichloroethane	0.6	1 U		1 U		1 U		1 U		1 U		1 U	
1,3-Dichlorobenzene	3	1 U		1 U		1 U		1 U		1 U		1 U	
1,4-Dichlorobenzene	3	1 U		1 U		1 U		1 U		1 U		1 U	
2-Butanone	50	5 U		5 U		5 U		5 U		5 U		18	
Acetone	50	5 UJ		5 UJ		5 UJ		36 J		5 UJ		440 J	
Benzene	1	1 U		1 U		1 U		1 U		1 U		1 U	
Bromoform	50	1 U		1 U		1 U		1 U		1 U		4	
Bromomethane	5	1 U		1 U		1 U		1 U		1 U		1 U	
Carbon disulfide	60	1 U		1 U		1 U		1 U		1 U		1 U	
Chlorodibromomethane	50	1 U		1 U		1 U		1 U		1 U		1 U	
Chloroethane	5	1 U		1 U		1 U		1 U		1 U		1 U	
Chloroform	7	1 U		1 U		1 U		1 U		1 U		0.68 J	
Chloromethane	5	1 U		1 U		1 U		1 U		1 U		1 U	
Cis-1,2-Dichloroethene	5	2.7		8.1		84		2		100		1 U	
Cyclohexane		1 U		1 U		1 U		1 U		1 U		1 U	
Ethyl benzene	5	1 U		1 U		1 U		1 U		1 U		1 U	
Isopropylbenzene	5	1 U		1 U		1 U		1 U		1 U		1 U	
Methyl cyclohexane		1 U		1 U		1 U		1 U		1 U		1 U	
Methyl Tertbutyl Ether		1 U		1 U		1 U		1 U		1 U		1 U	
Tetrachloroethene	5	250		67		110		1.2		2		1 U	
Toluene	5	1 U		1 U		1 U		1 U		1 U		1 U	
trans-1,2-Dichloroethene	5	1 U		1 U		0.38 J		1 U		1 U		1 U	
Trichloroethene	5	7.8		11		9.6		1 U		1.1		1 U	
Vinyl chloride	2	1 U		0.54 J		1.4		1 U		6.2		1 U	
Xylenes, Total	5	3 U		3 U		3 U		3 U		3 U		3 U	

Notes:

Samples analyzed for VOCs by SW846 8260

QC Code:

FS = Field Sample; FD = Field Duplicate

Criteria = Part 703: Surface Water and Groundwater
 Quality Standards and Groundwater Effluent Limitations
 (NYSDEC, 2008).

Only detected compounds shown.

Detections are indicated in **BOLD**

Highlighted results exceed criteria

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J = Estimated value

H = Exceeded method hold time

Table 1: Analytical Data Summary - Groundwater

Parameter	Location Sample Date Sample ID Qc Code Criteria	MW-022 5/9/2013 DCMW2212013XX		MW-023 5/9/2013 DCMW2312013XX		ATGW-002A 5/9/2013 ATGW00212013XD		ATGW-002A 5/9/2013 ATGW00212013XX		ATGW-026A 5/8/2013 ATGW02612013XX		ATGW-043A 5/8/2013 ATGW04312013XX	
		FS		FS		FD		FS		FS		FS	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1-Trichloroethane	5	1	U	1	U	1	U	1	U	5	U	10	U
1,1,2-Trichloroethane	1	1	U	1	U	1	U	1	U	5	U	10	U
1,1-Dichloroethane	5	1	U	1	U	1	U	1	U	5	U	10	U
1,1-Dichloroethene	5	1	U	1	U	1	U	1	U	5	U	10	U
1,2-Dichloroethane	0.6	1	U	1	U	1	UJ	2	J	5	U	10	U
1,3-Dichlorobenzene	3	1	U	1	U	1	U	1	U	5	U	10	UJ
1,4-Dichlorobenzene	3	1	U	1	U	1	U	1	U	5	U	10	UJ
2-Butanone	50	5	U	5	U	5	U	5	U	25	UJ	50	UJ
Acetone	50	5	UJ	5	UJ	5	UJ	5	UJ	25	UJ	50	UJ
Benzene	1	1	U	1	U	1	U	0.21	J	5	U	10	U
Bromoform	50	1	U	1	U	1	U	1	U	5	UJ	10	UJ
Bromomethane	5	1	U	1	U	1	U	1	U	5	U	10	UJ
Carbon disulfide	60	1	U	1	U	1	U	1	U	5	U	2.7	J
Chlorodibromomethane	50	1	U	1	U	1	U	1	U	5	U	10	UJ
Chloroethane	5	1	U	1	U	1	U	1	U	5	U	10	U
Chloroform	7	1	U	1	U	1	U	1	U	5	U	10	U
Chloromethane	5	1	U	1	U	1	U	1	U	5	U	10	U
Cis-1,2-Dichloroethene	5	12		1	U	1	U	1		63	J	79	J
Cyclohexane		1	U	1	U	1	U	1	U	5	UJ	10	U
Ethyl benzene	5	1	U	1	U	1	U	1	U	5	U	10	U
Isopropylbenzene	5	1.4		1	U	1	U	1	U	5	U	10	U
Methyl cyclohexane		1	U	1	U	1	U	1	U	5	UJ	10	U
Methyl Tertbutyl Ether		1	U	1	U	1	U	1	U	5	U	10	U
Tetrachloroethene	5	65		1		4.5	J	12	J	730		940	
Toluene	5	1	U	1	U	1	U	1	U	2	J	10	U
trans-1,2-Dichloroethene	5	1	U	1	U	1	U	1	U	5	UJ	10	U
Trichloroethene	5	3		1	U	0.97	J	2.1	J	36		54	J
Vinyl chloride	2	2		1	U	1	U	1	U	5	U	10	U
Xylenes, Total	5	3	U	3	U	3	U	3	U	15	U	30	U

Notes:

Samples analyzed for VOCs by SW846 8260

QC Code:

FS = Field Sample; FD = Field Duplicate

Criteria = Part 703: Surface Water and Groundwater
 Quality Standards and Groundwater Effluent Limitations
 (NYSDEC, 2008).

Only detected compounds shown.

Detections are indicated in **BOLD**

Highlighted results exceed criteria

Qualifiers:

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H = Exceeded method hold time

Table 1: Analytical Data Summary - Groundwater

Parameter	Location Sample Date Sample ID Qc Code Criteria	ATGW-045A 5/9/2013 ATGW04512013XX FS		ATGW-046A 5/8/2013 ATGW04612013XX FS		ATMW-001 5/7/2013 ATMW00112013XX FS		ATMW-001R 5/7/2013 ATMW001R12013XX FS		ATMW-002 5/6/2013 ATMW00212013XX FS		ATMW-003 5/6/2013 ATMW00312013XX FS	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
		1,1,1-Trichloroethane	5	5 U		0.34 J		1 U		1 U		5 U	
1,1,2-Trichloroethane	1	5 U		1 U		1 U		1 U		5 U		1 U	
1,1-Dichloroethane	5	5 U		1 U		1 U		1 U		5 U		1 U	
1,1-Dichloroethene	5	5 U		1 U		1 U		1 U		5 U		1 U	
1,2-Dichloroethane	0.6	5 U		1 U		1 U		1 U		5 U		1 U	
1,3-Dichlorobenzene	3	5 U		1 U		1 U		1 UJ		5 U		1 U	
1,4-Dichlorobenzene	3	5 U		1 U		1 U		1 UJ		5 U		1 U	
2-Butanone	50	25 U		5 UJ		5 UJ		5 UJ		25 UJ		5 UJ	
Acetone	50	37 J		6 J		5 UJ		5 UJ		25 UJ		5 UJ	
Benzene	1	5 U		0.33 J		25		8.8		920		1 U	
Bromoform	50	5 U		1 UJ		1 UJ		1 UJ		5 UJ		1 UJ	
Bromomethane	5	5 U		1 U		1 UJ		1 UJ		5 U		1 U	
Carbon disulfide	60	5 U		0.18 J		1 U		0.15 J		5 U		1 U	
Chlorodibromomethane	50	5 U		1 U		1 U		1 UJ		5 U		1 U	
Chloroethane	5	5 U		1 U		1 U		1 U		5 U		1 U	
Chloroform	7	5 U		1 U		1 U		1 U		5 U		0.44 J	
Chloromethane	5	5 U		1 U		1 U		1 U		5 U		1 U	
Cis-1,2-Dichloroethene	5	47		14 J		1 UJ		1 U		5 UJ		1 UJ	
Cyclohexane		5 U		1 UJ		52 J		14 J		85 J		1 UJ	
Ethyl benzene	5	5 U		1 U		130		27		370		1 U	
Isopropylbenzene	5	5 U		1 U		15		2		19		1 U	
Methyl cyclohexane		5 U		1 UJ		18 J		8.9		60 J		1 UJ	
Methyl Tertbutyl Ether		5 U		0.88 J		5.3		3		7		1 U	
Tetrachloroethene	5	670		27		1 U		1 U		2.9 J		1 U	
Toluene	5	5 U		0.38 J		37		9.8		160		1 U	
trans-1,2-Dichloroethene	5	5 U		1 UJ		1 UJ		1 U		5 UJ		1 UJ	
Trichloroethene	5	61		6.6		1 U		1 U		5 U		0.11 J	
Vinyl chloride	2	5 U		1 U		1 U		1 U		5 U		1 U	
Xylenes, Total	5	15 U		3 U		140		27		660		3 U	

Notes:

Samples analyzed for VOCs by SW846 8260

QC Code:

FS = Field Sample; FD = Field Duplicate

Criteria = Part 703: Surface Water and Groundwater
 Quality Standards and Groundwater Effluent Limitations
 (NYSDEC, 2008).

Only detected compounds shown.

Detections are indicated in **BOLD**

Highlighted results exceed criteria

Qualifiers:

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H = Exceeded method hold time

Table 1: Analytical Data Summary - Groundwater

Parameter	Location Sample Date Sample ID Qc Code Criteria	ATMW-004 5/7/2013 ATMW00412013XX FS		ATMW-005 5/6/2013 ATMW00512013XX FS		ATMW-006 5/6/2013 ATMW00612013XX FS		ATMW-007 5/6/2013 ATMW00712013XX FS		ATMW-008 5/7/2013 ATMW00812013XX FS		ATMW-009 5/7/2013 ATMW00912013XX FS	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
		1,1,1-Trichloroethane	5	1	U	1	U	1	U	1	U	47	
1,1,2-Trichloroethane	1	1	U	1	U	1	U	1	U	1	U	1	U
1,1-Dichloroethane	5	1	U	1	U	0.15	J	1	U	1.5		1	U
1,1-Dichloroethene	5	1	U	1	U	1	U	1	U	0.55	J	1	U
1,2-Dichloroethane	0.6	1	U	1	U	1	U	1	U	1	U	1	U
1,3-Dichlorobenzene	3	1	U	1	U	0.43	J	1	U	1	U	1	U
1,4-Dichlorobenzene	3	1	U	1	U	1.4		1	U	1	U	1	U
2-Butanone	50	5	UJ	5	UJ	5	UJ	5	UJ	5	UJ	5	UJ
Acetone	50	5	UJ	5	UJ	5	UJ	5	UJ	5	UJ	5	UJ
Benzene	1	80		1	U	0.11	J	0.11	J	1	U	0.13	J
Bromoform	50	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	U
Bromomethane	5	1	U	1	U	1	U	1	U	1	U	1	U
Carbon disulfide	60	1	U	1	U	1	U	1	U	1	U	1	U
Chlorodibromomethane	50	1	U	1	U	1	U	1	U	1	U	1	U
Chloroethane	5	1	U	1	U	1	U	1	U	1	U	1	U
Chloroform	7	1	U	1	U	1	U	1	U	0.12	J	1	U
Chloromethane	5	1	U	1	U	1	U	1	U	1	U	1	U
Cis-1,2-Dichloroethene	5	1	UJ	1	UJ	1	UJ	0.55	J	12	J	2.4	J
Cyclohexane		170	JH	1	UJ	1	UJ	0.63	J	1	UJ	12	J
Ethyl benzene	5	47		1	U	1	U	1	U	1	U	11	
Isopropylbenzene	5	14		1	U	0.1	J	1	U	1	U	2.2	
Methyl cyclohexane		100	J	1	UJ	1	UJ	1	UJ	1	UJ	3.3	
Methyl Tertbutyl Ether		1	U	0.14	J	1	U	3.9		2		3.5	
Tetrachloroethene	5	0.26	J	1	U	1	U	1	U	1.5		2.1	
Toluene	5	11		1	U	1	U	1	U	1	U	1.5	
trans-1,2-Dichloroethene	5	1	UJ	1	UJ	0.23	J	1	UJ	0.13	J	1	UJ
Trichloroethene	5	0.81	J	1	U	1	U	1	U	33		3	
Vinyl chloride	2	1	U	1	U	1	U	1	U	0.58	J	1	U
Xylenes, Total	5	13		3	U	3	U	3	U	3	U	25	

Notes:

Samples analyzed for VOCs by SW846 8260

QC Code:

FS = Field Sample; FD = Field Duplicate

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Highlighted results exceed criteria

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Table 2: Monitoring Well and Groundwater Elevation Data

Site	Location ID	Northing	Easting	Casing Elevation	Measuring Point Elevation	Installation Date	Screen Length	Well Depth (ft BMP) (May 2013)	Depth to Water (BMP) (May 2013)	Water Elevation (May 2013)
Associated Textile	ATMW-001	764548.87	759502.73	856.98	856.72	Unknown	Unknown	18.9	14.82	841.90
Associated Textile	ATMW-001R	764555.81	759507.05	856.85	856.41	Unknown	Unknown	19.7	14.38	842.03
Associated Textile	ATMW-002	764589.62	759493.77	857.04	856.41	Unknown	Unknown	18.8	14.30	842.11
Associated Textile	ATMW-003	764566.98	759541.70	856.85	856.54	Unknown	Unknown	19.9	14.61	841.93
Associated Textile	ATMW-004	764598.80	759569.38	856.96	856.58	Unknown	Unknown	17.7	14.69	841.89
Associated Textile	ATMW-005	764600.99	759417.90	856.02	855.59	Unknown	Unknown	19.5	13.62	841.97
Associated Textile	ATMW-006	764525.40	759423.11	856.34	855.84	Unknown	Unknown	19.0	13.88	841.96
Associated Textile	ATMW-007	764667.29	759544.45	856.82	856.26	Unknown	Unknown	19.2	14.32	841.94
Associated Textile	ATMW-008	764596.84	759655.03	856.41	856.10	Unknown	Unknown	19.1	14.20	841.90
Associated Textile	ATMW-009	764482.61	759530.17	856.70	856.45	Unknown	Unknown	19.5	14.61	841.84
Diamond Cleaners	GW-002	764781.61	760041.85	855.91	855.47	6/27/2005	10	19.3	12.91	842.56
Diamond Cleaners	GW-013	764563.66	760228.71	854.46	854.05	6/27/2005	10	NM	NM	NC
Diamond Cleaners	GW-014	764451.76	760160.74	854.20	853.79	6/27/2005	10	14.8	10.63	843.16
Diamond Cleaners	MW-001	764837.05	759991.92	855.59	854.64	10/3/2005	10	23.5	12.10	842.54
Diamond Cleaners	MW-002	764735.59	759865.46	855.02	854.57	10/4/2005	10	24.1	12.22	842.35
Diamond Cleaners	MW-003	764468.08	760027.58	854.19	853.81	10/4/2005	10	24.0	11.45	842.36
Diamond Cleaners	MW-004	764548.73	759920.06	854.18	853.90	10/5/2005	10	21.2	11.58	842.32
Diamond Cleaners	MW-006	764873.30	760175.71	852.71	852.25	7/22/2008	10	19.5	9.44	842.81
Diamond Cleaners	MW-007	764786.09	759925.09	855.08	854.58	7/23/2008	10	22.0	12.10	842.48
Diamond Cleaners	MW-008	764597.74	759983.96	854.50	853.97	7/23/2008	10	22.0	11.49	842.48
Diamond Cleaners	MW-009	764663.53	759674.17	854.28	853.71	7/21/2008	10	20.8	11.80	841.91
Diamond Cleaners	MW-010	764533.08	759834.54	854.69	854.15	7/22/2008	10	21.7	12.35	841.80
Diamond Cleaners	MW-011	764384.59	759471.21	856.39	855.89	7/21/2008	10	22.0	14.41	841.48
Diamond Cleaners	MW-012	764814.90	759919.90	855.16	854.32	8/29/2012	10	21.3	11.97	842.35
Diamond Cleaners	MW-013	764814.00	759915.80	855.04	854.62	8/29/2012	5	28.8	12.29	842.33
Diamond Cleaners	MW-014	764743.70	759961.40	855.23	854.93	8/29/2012	10	21.5	12.50	842.43
Diamond Cleaners	MW-015	764747.80	759959.80	855.27	854.83	8/30/2012	5	28.9	12.40	842.43
Diamond Cleaners	MW-016	764767.70	760022.20	855.61	855.23	8/30/2012	10	22.0	12.69	842.54
Diamond Cleaners	MW-017	764771.20	760020.70	855.78	855.55	8/30/2012	5	29.2	13.07	842.48
Diamond Cleaners	MW-018	764721.90	760001.00	855.00	854.80	9/5/2012	10	22.0	12.34	842.46
Diamond Cleaners	MW-019	764718.10	760002.10	854.98	854.79	9/5/2012	5	29.1	12.15	842.64
Diamond Cleaners	MW-020	764708.90	760050.60	855.02	854.64	9/5/2012	10	22.0	12.15	842.49
Diamond Cleaners	MW-021	764705.50	760051.00	854.99	864.66	9/6/2012	5	29.4	12.16	852.50
Diamond Cleaners	MW-022	764692.00	760102.50	854.69	854.37	9/6/2012	10	22.0	11.83	842.54
Diamond Cleaners	MW-023	764690.00	760100.00	854.69	854.39	9/6/2012	5	29.6	11.95	842.44

Notes:

Horizontal locations are tied to the New York State Plane Coordinate System using NAD of 1983. Vertical elevations were tied to msl, NAVD of 1988.

BMP - Below Measuring Point

NM = Not Measured.

NC = Not Calculated

Table 3: Analytical Data Summary - Soil

Parameter	Criteria	ATGW-002A		ATGW-002A		ATGW-026A		ATGW-026A		ATGW-026A		ATGW-043A	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Acetic acid, methyl ester	0.25	0.047	U	0.072		0.052	U	0.053	U	0.052	U	0.045	U
Cis-1,2-Dichloroethene	0.05	0.047	U	0.067	U	0.052	U	0.053	U	0.052	U	0.045	U
Methylene chloride	1.3	0.047	U	0.016	J	0.012	J	0.053	U	0.011	J	0.045	U
Tetrachloroethene	0.7	0.047	U	0.058	J	0.052	U	0.053	U	0.23		0.19	
Toluene	0.47	0.047	U	0.028	J	0.052	U	0.053	U	0.052	U	0.014	J
Trichloroethene		0.047	U	0.097		0.052	U	0.053	U	0.052	U	0.045	U

Notes:

Results in milligrams per kilogram (mg/Kg)

Only detected compounds shown.

Samples analyzed for VOCs by EPA Method 8260B

ft bgs = feet below ground surface

QC Code:

FS = Field Sample; FD = Field Duplicate

Qualifiers:

U = Not detected above the reporting limit

J = Estimated value

Criteria = Soil Cleanup Objective for Protection of

Groundwater Use Scenarios - 6 NYCRR Part 375-6.8

Detections are indicated in **BOLD**

Table 3: Analytical Data Summary - Soil

Parameter	Criteria	ATGW-043A		ATGW-045A		ATGW-045A		ATGW-046A		ATGW-046A	
		Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Acetic acid, methyl ester	0.25	0.051	U	0.043	U	0.059	U	0.046	U	0.054	U
Cis-1,2-Dichloroethene	0.05	0.017	J	0.043	U	0.059	U	0.046	U	0.054	U
Methylene chloride	1.3	0.051	U	0.012	J	0.059	U	0.012	J	0.013	J
Tetrachloroethene	0.7	0.47		0.049		0.31		0.046	U	0.15	
Toluene	0.47	0.051	U	0.043	U	0.059	U	0.046	U	0.054	U
Trichloroethene		0.051	U	0.043	U	0.039	J	0.046	U	0.054	U

Notes:

Results in milligrams per kilogram (mg/Kg)
 Only detected compounds shown.
 Samples analyzed for VOCs by EPA Method 8260B
 ft bgs = feet below ground surface
 QC Code:
 FS = Field Sample; FD = Field Duplicate
 Qualifiers:
 U = Not detected above the reporting limit
 J = Estimated value
 Criteria = Soil Cleanup Objective for Protection of
 Groundwater Use Scenarios - 6 NYCRR Part 375-6.8
 Detections are indicated in **BOLD**

ATTACHMENT 1

FIELD DATA RECORDS

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
361211209.02

SAMPLE ID
DCMW1212013XX

SAMPLE TIME
13:25

LOCATION ID
MW-12

DATE
5-8-13

START TIME
13:25

END TIME
13:30

SITE NAME/NUMBER

PAGE
1 OF 1

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

INITIAL DTW (BMP) **11.97** FT FINAL DTW (BMP) **11.99** FT PROT. CASING STICKUP (AGS) **FLUSH** FT TOCTOR DIFFERENCE **-0.85** FT

WELL DEPTH (BMP) **21.25** FT SCREEN LENGTH **10** FT PID AMBIENT AIR **0.0** PPM REFILL TIMER SETTING _____ SEC

WATER COLUMN **9.28** FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) **0.0033** GAL PID WELL MOUTH **0.0** PPM DISCHARGE TIMER SETTING _____ SEC

CALCULATED GALVOL (column X well diameter squared X 0.041) **1.52** GAL TOTAL VOL. PURGED **2.7** GAL DRAWDOWN/TOTAL PURGED _____ PRESSURE TO PUMP _____ PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (ft) 0.0-0.33 ft Drawdown	PURGE RATE (ml/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
12:35		BEGIN PURGING @ 2.10 ml/min.								
12:40	11.99	210	12.19	0.989	7.23	2.56	52.8	90.1	3' off bottom	
12:45	11.99	210	12.20	0.989	7.18	1.79	39.1	87.9		
12:55	11.99	200	12.13	1.002	7.16	1.26	43.2	79.6		
13:00	11.99	200	12.17	1.007	7.16	1.36	20.6	77.9		
13:10	11.99	200	12.17	1.008	7.16	1.14	19.3	74.2		
13:13	11.99	210	12.10	1.012	7.15	1.15	16.5	76.0		13:13 TIME
13:18	11.99	200	12.07	1.016	7.16	1.11	13.5	73.5		
13:21	11.99	230	11.95	1.021	7.16	1.04	11.9	71.3		
13:24	11.99	230	11.97	1.020	7.16	1.02	11.3	70.9		
13:25	Sample									

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

12 1.02 7.2 1.0 11.3 71

TRAINING POINT (200) (ex. 10.1 = 10)
COND: 3 SF max (ex. 3333 = 3330, 0.006 = 0.006)
pH (meas at temp) (ex. 3.51 = 3.5)
DO (meas at temp) (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
DUP: 2 SF (4.11 = 4.1, 121 = 120)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: PERISTALTIC SUBMERSIBLE BLADDER

WATER: OTHER **Greengump**

DECON FLUIDS USED: LIQUINOX DEIONIZED WATER POTABLE WATER NITRIC ACID HEXANE METHANOL OTHER _____

TUBING/PUMP/BLADDER MATERIALS: SILICON TUBING TEFLON TUBING TEFLON LINED TUBING HDPE TUBING OTHER _____

EQUIPMENT USED: WL METER PID WQ METER TURB. METER PUMP OTHER _____ FILTERS NO. _____ TYPE _____

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> VOCs	8260B	N	ACL 40C	3X40ml	4		

PURGE OBSERVATIONS

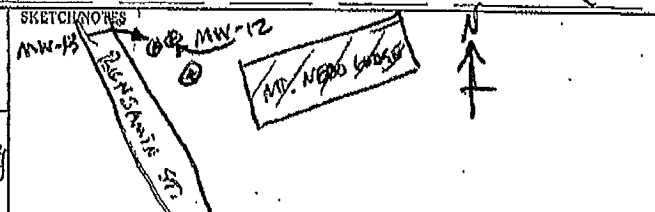
PURGE WATER CONTAINERIZED: YES NO

NO. PURGE METHOD UTILIZED: YES NO

NUMBER OF GALLONS GENERATED: **2.7**

Sampler Signature: **Th. J. Fryley** Print Name: **Thomas J. Fryley**

Checked By: **RJ** Date: **5/22/13**



LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
3012112209.02

SAMPLE ID
DCMW1313013XX

SAMPLE TIME
14:30

LOCATION ID
MW-13

DATE
5-8-13

START TIME
13:50

END TIME
14:40

SITE NAME/NUMBER
←

PAGE
1 of 1

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

INITIAL DTW (BMP) **12.29** FT FINAL DTW (BMP) **12.31** FT PROT. CASING STICKUP (AGS) **Flush** FT

WELL DEPTH (BMP) **28.8** FT SCREEN LENGTH **5** FT PID AMBIENT AIR **0.0** PPM

WATER COLUMN **16.51** FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) **0.003** GAL

CALCULATED GAL/VOL **2.71** GAL TOTAL VOL. PURGED **4.9** GAL

DRAWDOWN TOTAL PURGED **0.0015**

WELL INTEGRITY
YES NO N/A
CAP
CASING
LOCKED
COLLAR

TOCTOR DIFFERENCE **-0.4** FT

REFILL TIMER SETTING **—** SEC

DISCHARGE TIMER SETTING **—** SEC

PRESSURE TO PUMP **—** PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 R Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (µS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
13:57										BEGIN PURGING @ 210 ml/min.
14:02	12.30	210	12.37	1.223	7.06	2.50	70.6	71.2	3'	up from bottom
14:08	12.31	210	12.67	1.230	7.05	1.13	29.1	64.7	—	
14:13	12.31	230	12.47	1.231	7.04	0.87	16.5	53.9	—	Δ RATE
14:18	12.31	230	12.52	1.231	7.04	0.75	11.4	43.6	—	
14:23	12.31	210	12.51	1.233	7.03	0.58	8.93	39.9	—	
14:26	12.31	210	12.62	1.232	7.02	0.56	8.21	38.9	—	
14:29	12.31	210	12.56	1.232	7.03	0.53	6.67	39.9	—	
14:30	Sample.									

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

13 1.23 7.0 0.5 6.7 39

TEMP. (degrees) (ex. 10) _____
COND.: 3 SF min (ex. 133) = 330, 0.096 = 0.095
pH: measured (ex. 3.5) = 3.5
DO: measured (ex. 3.5) = 3.5
TURB: 3 SF max, measured (ex. 6.19 = 6.2, 10) = 10!
DWP: 3 SF (ex. 1 = 44, 19) = 100

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
 PERISTALTIC
 SUBMERSIBLE
 BLADDER
 WATER
 OTHER **geopump**
 OTHER _____

DECON. LIQUIDS USED
 LIQUINOX
 DEIONIZED WATER
 POTABLE WATER
 NITRIC ACID
 HEXANE
 METHANOL
 OTHER _____

TUBING/PUMP/BLADDER MATERIALS
 SILICON TUBING
 TEFLON TUBING
 TEFLON LINED TUBING
 HDPE TUBING
 LDPE TUBING
 OTHER _____
 OTHER _____

EQUIPMENT USED
 W. METER
 PID
 WQ METER
 TURB. METER
 PUMP
 OTHER _____
 FILTERS NO. **4** TYPE _____

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTER ID	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> VOCS	8260B	N	100% 4°C	3X40ml	Y	—	—

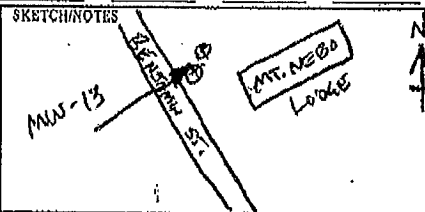
PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO

NO. PURGE METHOD UTILIZED YES NO

NUMBER OF GALLONS GENERATED **4.9**

If you purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.



Sampler Signature: **Th. D. Longley**

Print Name: **Thomas D. Longley**

Checked By: **R2-9-2**

Date: **5/22/13**

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
3612112209.02

SAMPLE ID
DC MW 1412013XX

SAMPLE TIME
16:15

LOCATION ID
MW-14

DATE
5-8-13

START TIME
14:57

END TIME
16:20

SITE NAME/NUMBER

PAGE
1 OF **1**

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MP) TOP OF RISER (TOR) TOP OF CASINO (TOC) OTHER _____

WELL INTEGRITY

YES	NO	N/A
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

INITIAL DTW (BNP) **12.50** FT FINAL DTW (BNP) **12.52** FT PROT. CASING STICKUP (AGS) **FLUSH** FT TOC/TOR DIFFERENCE **-0.3** FT

WELL DEPTH (BNP) **21.5** FT SCREEN LENGTH (ft) **10** FT PID AMBIENT AIR **0.0** PPM REFILL TIMER SETTING **_____** SEC

WATER COLUMN **9** FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) **0.003** GAL PID WELL MOUTH **0.0** PPM DISCHARGE TIMER SETTING **_____** SEC

CALCULATED GALVOL (column X well diameter squared X 0.041) **1.48** GAL TOTAL VOL. PURGED **~4.0** GAL DRAWDOWN/TOTAL PURGED **0.00078** PRESSURE TO PUMP **_____** PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DIW (PI) 0.0-0.31 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (± 3 degrees)	SP. CONDUCTANCE (µS/cm) (± 3%)	pH (units) (± 0.1 units)	DISS. O ₂ (mg/L) (± 10%)	TURBIDITY (ntu) (± 10% <10 ntu)	REDOX (mv) (± 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
15:04		BEGIN PURGING @ 230 mL/min.								
15:09	12.51	230	14.32	1.474	7.12	3.00	104	85.7	3' off	of bottom
15:18	12.51	250	14.12	1.496	7.07	1.26	89.8	78.6	—	15:18 TIME
15:25	12.51	250	14.06	1.444	7.06	1.12	59.5	76.8	—	
15:35	12.51	250	13.98	1.500	7.07	0.76	46.7	70.9	—	
15:45	12.52	250	13.96	1.509	7.06	0.64	39.9	67.0	—	
15:55	12.52	250	14.01	1.500	7.06	0.55	20.7	66.1	—	
16:05	12.52	240	14.13	1.504	7.05	0.49	17.7	62.8	—	
16:08	12.52	240	13.99	1.511	7.05	0.48	12.5	65.5	—	
16:11	12.52	240	13.93	1.514	7.05	0.45	14.0	64.0	—	
16:15	Sample									

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures)(SF)

14 1.51 7.1 0.5 14.0 64

TEMP. record degree (ex. 10.1 = 10)
COND. 1.50 max (ex. 1333 = 3330, 0.006 = 0.096)
pH max/min (ex. 3.51 = 3.5)
DO record (ex. 3.1 = 3.5)
TURB. 3 SF max, record (ex. 6.19 = 6.2, 101 = 101)
DIW: 1 SF (4.1 = 4.1, 101 = 100)

EQUIPMENT DOCUMENTATION

<p>TYPE OF PUMP</p> <p><input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> ULADDER</p> <p><input type="checkbox"/> WATER <input checked="" type="checkbox"/> OTHER Geo pump</p>	<p>DECON FLUIDS USED</p> <p><input checked="" type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input type="checkbox"/> OTHER _____</p>	<p>TUBING/PUMP/BLADDER MATERIALS</p> <p><input checked="" type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINER TUBING <input type="checkbox"/> HDPE TUBING <input type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER _____</p>	<p>S. STEEL PUMP MATERIAL</p> <p><input type="checkbox"/> PVC PUMP MATERIAL <input type="checkbox"/> GEOPROBE SCREEN <input type="checkbox"/> TEFLON BLADDER <input type="checkbox"/> OTHER _____</p>	<p>EQUIPMENT USED</p> <p><input checked="" type="checkbox"/> WL METER <input checked="" type="checkbox"/> PID <input checked="" type="checkbox"/> WQ METER <input checked="" type="checkbox"/> TURB. METER <input type="checkbox"/> PUMP <input type="checkbox"/> OTHER _____ FILTERS NO. _____ TYPE _____</p>
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ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> VOLs	8360 B	N	HCL 4°C	3 X 40 ml	Y	_____	_____
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							

PURGE OBSERVATIONS

DEION WATER CONTAINERIZED YES NO

NO. PURGE METHOD UTILIZED YES NO

NUMBER OF GALLONS GENERATED **~4.0**

If you purged approximately 1 sampling volume prior to sampling or _____ gal. for this sample location.

SKETCH/NOTES

N

DRIFT BANK ST.

MW. NDBD 10966

MW-14

Sampler Signature: **J. D. Longley** Print Name: **Thomas D. Longley**

Checked By: **R. J. Longley** Date: **5/22/13**

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
3612112209-02

SAMPLE ID
DCMW1512013XX

SAMPLE TIME
7:15

LOCATION ID
MW-15

DATE
5-8-13

START TIME
16:30

END TIME
16:23

SITE NAME/NUMBER

PAGE
1 of 1

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MP) TOP OF RISER (TOR) TOP OF CASINO (TOC) OTHER _____

WELL INTEGRITY
YES NO N/A

CAP _____

CASING _____

LOCKED _____

COLLAR _____

INITIAL DTW (BMP) **12.40** FT

FINAL DTW (BMP) **12.61** FT

PROT. CASING STICKUP (ACS) **FLUSH** FT

TOC/TOR DIFFERENCE **-0.45** FT

WELL DEPTH (BMP) **28.9** FT

SCREEN LENGTH (24-28) **5** FT

PID AMBIENT AIR **0.0** PPM

REFILL TIMER SETTING _____ SEC

WATER COLUMN **16.5** FT

DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) **0.034** GAL

PID WELL MOUTH **0.0** PPM

DISCHARGE TIMER SETTING _____ SEC

CALCULATED GALVOL **2.7** GAL

TOTAL VOL. PURGED **~3.6** GAL

DRAWDOWN/TOTAL PURGED _____

PRESSURE TO PUMP _____ PSI

(column X well diameter squared X 0.041) (mL per minute X total minutes X 0.00026 gal/mL)

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 2 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
16:39	BEGIN PURGING	300								
16:36	12.62	300	14.36	1.216	7.31	5.00	487	60.1	3' aft of bottom	
16:40	12.61	300	14.40	1.217	7.29	1.32	299	1.0		
16:50	12.61	300	14.45	1.224	7.27	0.66	99.8	-57.7		
17:00	12.61	300	14.42	1.224	7.27	0.51	26.8	-73.2		
17:05	12.61	300	14.49	1.224	7.26	0.45	17.2	-73.4		
17:08	12.61	300	14.42	1.223	7.26	0.44	16.8	-79.3		
17:11	12.61	300	14.40	1.224	7.26	0.42	12.0	-78.3		
17:15	Sample									

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures)(SF)

14 1.22 7.3 0.4 12.0 -78

TEMP. nearest degree (acc. 0.1 = 10)
COND: 3 SF max (ex. 1333 = 2330, 0.666 = 0.666)
pH: nearest tenth (ex. 5.33 = 5.3)
DO: nearest tenth (ex. 3.31 = 3.3)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (45.1 = 45, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
 PERISTALTIC
 SUBMERSIBLE
 BLADDER
 WATER
 OTHER **Geopump**

DICTION FLUIDS USED
 LIQUINOX
 DRIONIZED WATER
 POTABLE WATER
 NITRIC ACID
 HEXANE
 METHANOL
 OTHER

TUBING/PUMP BLADDER MATERIALS
 SILICON TUBING
 TEFLON TUBING
 TEFLON LINED TUBING
 HDPE TUBING
 LDPE TUBING
 OTHER
 OTHER

EQUIPMENT USED
 WL METER
 PID
 WQ METER
 TURB. METER
 PUMP
 OTHER
 FILTERS NO. _____ TYPE _____

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
✓ VOCs	8260 B	N	HCL, 4°C	3X40ml	Y		

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO

NUMBER OF GALLONS GENERATED **~3.6**

NUMBER OF PURGE METHOD UTILIZED YES NO

If you purged approximately 1 sampling volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

Benjamin St.
Mt. Nebelweg
MW-15
N ↑

Cloudy purge water

Sampler Signature: *Thomas D. Longley* Print Name: **Thomas D. Longley**

Checked By: *[Signature]* Date: **5/22**



FIGURE 4.17
LOW FLOW GROUNDWATER SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
36121122 09.02

SAMPLE ID
DCMW1612013XX

SAMPLE TIME
838

LOCATION ID
MW-16

DATE
5/9/13

START TIME
757

END TIME
838

SITE NAME/NUMBER
PAGE
1 OF 1

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

INITIAL DTW (BMP) **12.69** FT FINAL DTW (BMP) **12.76** FT PROT. CASING STICKUP (AGS) **Flush** FT

WELL DEPTH (BMP) **22.0** FT SCREEN LENGTH **10** FT PID AMBIENT AIR _____ PPM

WATER COLUMN **9.31** FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) **0.011** GAL PID WELL MOUTH _____ PPM

CALCULATED GALVOL **1.5** GAL TOTAL VOL. PURGED **~3.1** GAL DRAWDOWN/TOTAL PURGED **0.0035** PSF

WELL INTEGRITY YES NO N/A
CAP _____
CASING _____
LOCKED _____
COLLAR _____
TOC/TOR DIFFERENCE _____ FT
REFILL TIMER SETTING _____ SEC
DISCHARGE TIMER SETTING _____ SEC
PRESSURE TO PUMP _____ PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (ft) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (± 3 degrees)	SP. CONDUCTANCE (mS/cm) (± 3%)	pH (units) (± 0.1 units)	DISS. O ₂ (mg/L) (± 10%)	TURBIDITY (ntu) (± 10% <10 ntu)	REDOX (mv) (± 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
757										BEGIN PURGING
802	12.76	300	12.99	0.982	7.10	7.47	63.95	98.8	17.0	
807	12.76	300	12.65	0.975	7.02	6.28	58.30	97.3	17.0	
812	12.76	300	12.48	0.992	6.99	6.31	43.02	92.0	17.0	
817	12.76	300	12.44	1.005	6.97	5.70	28.61	83.8	17.0	
822	12.76	300	12.44	1.012	6.97	5.40	18.41	82.4	17.0	
827	12.76	300	12.45	1.014	6.97	5.25	16.72	79.2	17.0	
830	12.76	300	12.43	1.017	6.97	5.20	10.54	77.9	17.0	
833	12.76	300	12.43	1.017	6.98	5.18	9.93	77.3	17.0	
836	12.76	300	12.43	1.018	6.98	5.11	8.89	76.9	17.0	
										Collect Sample @ 838 8260

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures)(SF)

12 1.02 7.0 5.1 8.9 77

TEMP.: nearest degree (ex. 70.1 = 70)
COND.: 3 SF max (ex. 333) = 3330, 0.006 = 0.0060
pH: nearest tenth (ex. 5.33 = 5.3)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 10.1 = 10.1)
ORP: 2 SF (4.1 = 4.1, 12.1 = 12)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
 PERISTALTIC SUBMERSIBLE BLADDER WATERA OTHER _____

DECON FLUIDS USED
 LIQUINOX DEIONIZED WATER POTABLE WATER NITRIC ACID HEXANE METHANOL OTHER _____

TUBING PUMP BLADDER MATERIALS
 SILICON TUBING TEFLON TUBING TEFLON LINED TUBING HDPE TUBING LDPE TUBING OTHER _____

S. STEEL PUMP MATERIAL
 PVC PUMP MATERIAL GEOPROBE SCREEN TEFLON BLADDER OTHER _____

EQUIPMENT USED
 WL METER PID WQ METER TURB. METER PUMP OTHER **Geoprobe** OTHER _____
FILTERS NO. _____ TYPE _____

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> VOL	8260	N	HCL	3x40ml	<input checked="" type="checkbox"/>	N	

PURGE OBSERVATIONS

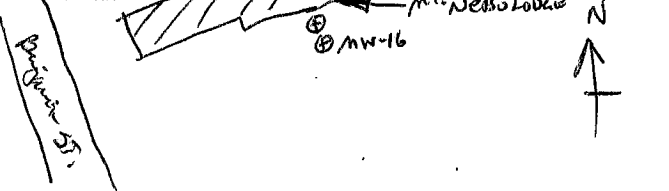
PURGE WATER CONTAINERIZED YES NO

NO. PURGE METHOD UTILIZED YES NO

NUMBER OF GALLONS GENERATED **3.1**

If you purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES



Sampler Signature: **RJ** Print Name: **Ryan Jolley**

Checked By: **TDL** Date: **5-21-13**

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
3612-112209.02

SAMPLE ID
DC MW 17 2013 XX

SAMPLE TIME
0820

LOCATION ID
MW-17

DATE
5-9-13

START TIME
0715

END TIME
0820

SITE NAME/NUMBER

PAGE
1 OF 1

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

WELL INTEGRITY
YES NO N/A

CAP _____

CASING _____

LOCKED _____

COLLAR _____

INITIAL DTW (BMP) *13.07* FT FINAL DTW (BMP) *13.16* FT PROT. CASINO STICKUP (ACS) *FLUSH* FT TOC/TOR DIFFERENCE *-0.27* FT

WELL DEPTH (BMP) *29.2* FT SCREEN LENGTH *(24'24') 5* FT PID AMBIENT AIR *0.0* PPM REFILL TIMER SETTING _____ SEC

WATER COLUMN *16.13* FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) *0.015* GAL PID WELL MOUTH *0.0* PPM DISCHARGE TIMER SETTING _____ SEC

CALCULATED GAL/VOL. *2.64* GAL TOTAL VOL. PURGED *2.3* GAL DRAWDOWN/TOTAL PURGED *0.0064* PURGED (mL per minute X total minutes X 0.00026 gal/mL)

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DIW (PI) 0.0-0.13 R Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 2%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
<i>0737</i>		<i>BEGIN PURGING @ 250 mL/min</i>								
<i>0744</i>	<i>13.15</i>	<i>250</i>	<i>13.48</i>	<i>1.161</i>	<i>7.05</i>	<i>2.66</i>	<i>41.4</i>	<i>221.9</i>	<i>3' up</i>	<i>off Bottom</i>
<i>0750</i>	<i>13.16</i>	<i>250</i>	<i>13.53</i>	<i>1.189</i>	<i>7.03</i>	<i>0.90</i>	<i>23.1</i>	<i>205.0</i>		
<i>0800</i>	<i>13.16</i>	<i>250</i>	<i>13.46</i>	<i>1.202</i>	<i>7.01</i>	<i>0.51</i>	<i>9.68</i>	<i>179.8</i>		
<i>0805</i>	<i>13.16</i>	<i>250</i>	<i>13.44</i>	<i>1.210</i>	<i>7.01</i>	<i>0.45</i>	<i>7.31</i>	<i>171.3</i>		
<i>0810</i>	<i>13.16</i>	<i>300</i>	<i>13.42</i>	<i>1.212</i>	<i>7.01</i>	<i>0.51</i>	<i>6.69</i>	<i>164.6</i>		
<i>0813</i>	<i>13.16</i>	<i>300</i>	<i>13.42</i>	<i>1.214</i>	<i>7.02</i>	<i>0.49</i>	<i>5.21</i>	<i>160.8</i>		
<i>0816</i>	<i>13.16</i>	<i>300</i>	<i>13.42</i>	<i>1.215</i>	<i>7.01</i>	<i>0.50</i>	<i>8.91</i>	<i>158.5</i>		
<i>0820</i>		<i>Sample</i>								

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

13 *1.72* *7.0* *0.5* *8.7* *160*

TEMP: nearest degree (ex. 10.1 = 10)
COND: 2 SF max (ex. 1331 = 1330, 0.664 = 0.66)
pH: nearest tenth (ex. 3.53 = 3.5)
RED: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (41.1 = 41, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
 PERISTALTIC
 SUBMERSIBLE
 BLADDER
 WATER
 OTHER *Gas pump*

DECON FLUIDS USED
 LIQUINON
 DEIONIZED WATER
 POTABLE WATER
 NITRIC ACID
 HEXANE
 METHANOL
 OTHER

TUBING/PUMP/BLADDER MATERIALS
 SILICON TUBING
 TEFLON TUBING
 TEFLON LINED TUBING
 HDPE TUBING
 LDPE TUBING
 OTHER
 OTHER

S. STEEL PUMP MATERIALS
 S. STEEL PUMP MATERIAL
 PVC PUMP MATERIAL
 GEOPROBE SCREEN
 TEFLON BLADDER
 OTHER
 OTHER

EQUIPMENT USED
 WL METER
 PID
 WQ METER
 TURB. METER
 PUMP
 OTHER
 OTHER

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<i>VOCs</i>	<i>8260B</i>	<i>N</i>	<i>HCL, 400</i>	<i>3x40ml</i>	<i>Y</i>		

PURGE OBSERVATIONS

PURGE WATER CONTAINED YES NO

NUMBER OF GALLONS GENERATED *2.3 GAL*

NUMBER OF METHOD UTILIZED YES NO

If purg. purged approximately 1 standard volume prior to sampling or _____ ml. for this sample location.

SKETCH/NOTES

Diamond St.

Mt. New Lodge

MW-17

Sampler Signature: *Thomas D. Longley* Print Name: *Thomas D. Longley*

Checked By: *R2202* Date: *5/22/13*



FIGURE 4.17
LOW FLOW GROUNDWATER SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME <i>Diamond Cleaners</i>	
PROJECT NUMBER <i>361712209-02</i>	
SAMPLE ID <i>DCMW1812013 XX</i>	SAMPLE TIME <i>0940</i>

LOCATION ID <i>MW-18</i>	DATE <i>5-9-13</i>
START TIME <i>0830</i>	END TIME <i>09:45</i>
SITE NAME/NUMBER	PAGE <i>1 OF 1</i>

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

WELL INTEGRITY

YES	NO	N/A
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

INITIAL DTW (BMP) <i>12.34</i> FT	FINAL DTW (BMP) <i>12.46</i> FT	PROT. CASING STICKUP (AGS) <i>Flush</i> FT	TOC/TOR DIFFERENCE <i>-0.25</i> FT
WELL DEPTH (BMP) <i>22.0</i> FT	SCREEN LENGTH (BMP) <i>10'</i> FT	PID AMBIENT AIR <i>0.0</i> PPM	REFILL TIMER SETTING _____ SEC
WATER COLUMN <i>9.66</i> FT	DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) <i>19.020</i> GAL	PID WELL MOUTH <i>0.0</i> PPM	DISCHARGE TIMER SETTING _____ SEC
CALCULATED GALVOL (column X well diameter squared X 0.041) <i>1.58</i> GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL) <i>125</i> GAL	DRAWDOWN/TOTAL PURGED <i>0.004</i>	PRESSURE TO PUMP _____ PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (ft) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
<i>0836</i>		<i>BEGIN PURGING @ 300 mL/min</i>								
<i>0845</i>	<i>12.46</i>	<i>300</i>	<i>12.57</i>	<i>0.839</i>	<i>7.10</i>	<i>5.00</i>	<i>117</i>	<i>142.2</i>	<i>3'</i>	<i>off of bottom</i>
<i>0855</i>	<i>12.45</i>	<i>300</i>	<i>12.46</i>	<i>0.870</i>	<i>7.07</i>	<i>3.81</i>	<i>64.4</i>	<i>138.2</i>		
<i>0905</i>	<i>12.46</i>	<i>300</i>	<i>12.46</i>	<i>0.906</i>	<i>7.06</i>	<i>3.13</i>	<i>50.5</i>	<i>133.8</i>		
<i>0915</i>	<i>12.46</i>	<i>300</i>	<i>12.50</i>	<i>0.941</i>	<i>7.07</i>	<i>2.10</i>	<i>34.5</i>	<i>126.8</i>		
<i>0925</i>	<i>12.46</i>	<i>300</i>	<i>12.51</i>	<i>0.946</i>	<i>7.07</i>	<i>1.34</i>	<i>31.4</i>	<i>123.8</i>		
<i>0938</i>	<i>12.46</i>	<i>300</i>	<i>12.55</i>	<i>0.949</i>	<i>7.07</i>	<i>1.21</i>	<i>23.8</i>	<i>122.6</i>		
<i>0935</i>	<i>12.46</i>	<i>300</i>	<i>12.52</i>	<i>0.957</i>	<i>7.07</i>	<i>1.00</i>	<i>17.2</i>	<i>119.6</i>		<i>09:35 TIME</i>
<i>0938</i>	<i>12.46</i>	<i>300</i>	<i>12.53</i>	<i>0.960</i>	<i>7.07</i>	<i>0.95</i>	<i>20.0</i>	<i>120.2</i>		
<i>0940</i>	<i>Sample</i>									

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

13 *0.960* *7.1* *1.0* *20.0* *120*

TEMP: nearest degree (ex. 10.1 = 10)
 COND: 3 SF max (ex. 333) = 3330, 0.696 = 0.696
 pH: nearest tenth (ex. 5.55 = 5.6)
 DO: nearest tenth (ex. 2.51 = 2.5)
 TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
 REDOX: 3 SF (41 = 41, 121 = 120)

EQUIPMENT DOCUMENTATION

<p>TYPE OF PUMP</p> <input checked="" type="checkbox"/> PERISTALTIC SUBMERSIBLE BLADDER <input type="checkbox"/> WATER <input checked="" type="checkbox"/> OTHER <i>Geopung</i>	<p>DECON FLUIDS USED</p> <input checked="" type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input type="checkbox"/> OTHER	<p>TUBING/PUMP/BLADDER MATERIALS</p> <input checked="" type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER	<p>EQUIPMENT USED</p> <input checked="" type="checkbox"/> WEL METER <input checked="" type="checkbox"/> PID <input type="checkbox"/> WQ METER <input type="checkbox"/> TURB. METER <input type="checkbox"/> PUMP <input type="checkbox"/> OTHER <input type="checkbox"/> FILTERS NO. _____ TYPE _____
---	---	--	---

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> VOCs	<i>826013</i>	<i>N</i>	<i>HCL 4°C</i>	<i>3x40mL</i>	<i>yes</i>		

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO

NO PURGE METHOD UTILIZED YES NO

NUMBER OF GALLONS GENERATED *125 GAL.*

If yes, purged approximately 1 standard volume prior to sampling or _____ gal. for this sample location.

SKETCH/NOTES

Begin at 4'

MW-18

Former D.C. Bldg.

Sampler Signature: *Thomas D. Longley* Print Name: *Thomas D. Longley*

Checked By: *R-292* Date: *5/22/13*



FIGURE 4.17
 LOW FLOW GROUNDWATER SAMPLING RECORD
 NYSDEC QUALITY ASSURANCE PROJECT PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
3612112209.02

SAMPLE ID
DCMW1912013XX

SAMPLE TIME
13:20

LOCATION ID
MW-19

DATE
5-9-13

START TIME
0948

END TIME

SITE NAME/NUMBER

PAGE
1 OF _____

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

INITIAL DTW (BMP) **12.15** FT FINAL DTW (BMP) **17.65** FT PROT. CASING STICKUP (ACS) **FLUSH** FT

WELL DEPTH (BMP) **29.1** FT SCREEN LENGTH **(24'-31') 5'** FT PID AMBIENT AIR **0.0** PPM

WATER COLUMN **16.95** FT DRAWDOWN VOLUME _____ GAL PID WELL MOUTH **0.0** PPM

CALCULATED GAL/VOL **2.8** GAL TOTAL VOL. PURGED _____ GAL DRAWDOWN TOTAL PURGED _____ GAL

(column X well diameter squared X 0.041) (mL per minute X total minutes X 0.00026 gal/mL)

WELL INTEGRITY YES NO N/A
CAP _____
CASING _____
LOCKED _____
COLLAR _____

TOCTOR DIFFERENCE **-0.3** FT
REFILL TIMER SETTING _____ SEC
DISCHARGE TIMER SETTING _____ SEC
PRESSURE TO PUMP _____ PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DIW (F1) 0.0-0.33 R Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SF. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
0955		BEGIN PURGING @ 320 mL/min.								
10:00	15.00	320	13.44	0.886	10.45	2.24	72.3	71.7	3'	up from bottom
10:05	16.45	210	13.35	0.887	10.47	2.18	76.8	66.3	-	A speed to purge
10:08	17.17	200	13.40	0.882	10.45	2.07	66.0	62.0	-	
10:13	18.30	200	13.42	0.881	10.45	2.00	61.0	59.0	-	
10:18	19.55	200	13.52	0.874	10.41	1.94	62.5	54.3	-	
10:22	TDL									10:28 TIME
10:23	20.85	No Recharge occurring in this well, so pump off?								
		Sample the returned water today -								
		Purged to ~ 24' bgs. & turn off pump @ 10:29:								
10:29:30	23.7'									
13:20	17.65'	Return to Collect sample								

1.13
1.25

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

N/A

TEMP.: nearest degree (ex. 10.1 = 10)
COND.: 1 SF max (ex. 3333 = 3330, 0.096 = 0.096)
pH: nearest tenth (ex. 5.33 = 5.3)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 1 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 101 = 100)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: PERISTALTIC SUBMERSIBLE BLADDER WATERA OTHER **Gas pump**

DECON FLUIDS USED: LIQUINOX DEIONIZED WATER POTABLE WATER NITRIC ACID HEXANE METHANOL OTHER _____

TUBING/PUMP/BLADDER MATERIALS: SILICON TUBING TEFLON TUBING TEFLON LINED TUBING HDPE TUBING LDPE TUBING OTHER _____

S. STEEL PUMP MATERIAL PVC PUMP MATERIAL GEOPROBE SCREEN TEFLON BLADDER OTHER _____

EQUIPMENT USED: WL METER PID WQ METER TURB. METER PUMP OTHER _____

FILTERS NO. _____ TYPE _____

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> VOCs	8260B	N	HEL, 4°C	3x45ml	3Y	-	-

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES NO

NO. PURGE METHOD UTILIZED: YES NO

NUMBER OF GALLONS GENERATED: _____

If yes, purged approximately 1 standing volume prior to sampling or _____ gal. for this sample location.

Sampler Signature: _____
Checked By: **T.D.L.**

Print Name: **RYAN JORNEY**
Date: **5-21-13**

SKETCH/NOTES

BENJAMIN ST.

Farmer D.C. Blots.

MW-19

N

↑



FIGURE 4.17
LOW FLOW GROUNDWATER SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

20.85 @ 10:23

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
312112309.02

SAMPLE ID
DCMW 201203XX

SAMPLE TIME
11:20

LOCATION ID:
MW-20

DATE
5-9-13

START TIME
10:40

END TIME

SITE NAME/NUMBER

PAGE
1 OF **1**

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

WELL INTEGRITY

YES	NO	N/A
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

INITIAL DTW (DMP) **12.15** FT FINAL DTW (DMP) **12.15** FT PROT. CASING STICKUP (ACS) **PURSH** FT TOC/TOR DIFFERENCE **-0.4** FT

WELL DEPTH (DMP) **22.0** FT SCREEN LENGTH (ft) **10** FT PID AMBIENT AIR **0.0** PPM RERILL TIMER SETTING **---** SEC

WATER COLUMN **9.85** FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) **---** GAL PID WELL MOUTH **0.0** PPM DISCHARGE TIMER SETTING **---** SEC

CALCULATED GAL VOL. (Column X well diameter squared X 0.041) **1.6** GAL TOTAL VOL. PURGED **2.5** GAL DRAWDOWN/TOTAL PURGED **---** PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (ft) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (µS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mV) (+/- 10 mV)	PUMP INTAKE DEPTH (ft)	COMMENTS
10:44		BEGIN PURGING @ 200 mL/min.								
10:49	12.15	200	12.73	1.196	7.31	2.00	95.5	10.7	3' off bottom	
10:54		pump up purge rate to 280 mL/min								
10:53	12.15	300	12.34	1.200	7.20	0.56	17.6	-7.2	---	
10:58	12.15	300	12.24	1.202	7.20	0.33	13.5	-14.5	---	
11:08	12.15	300	12.41	1.203	7.20	0.21	13.2	-22.3	---	
11:11	12.15	300	12.52	1.205	7.20	0.21	10.3	-22.7	---	
11:16	12.15	300	12.59	1.206	7.20	0.21	10.7	-23	---	
11:19	12.15	300	12.62	1.206	7.20	0.19	10.4	-23.4	---	
11:20	Sample									

JOL
1113

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

13 1.21 7.2 0.2 10.4 -23

PUMP: nearest degree (ex. 10.1 = 10)
COND: 3 SF max (ex. 2333) = 3330, 0.005 = 0.005
pH: nearest tenth (ex. 5.33 = 5.3)
DO: nearest tenth (ex. 3.33 = 3.3)
TEMP: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
COND: 3 SF (44.1 = 44, 101 = 101)

EQUIPMENT DOCUMENTATION

<p>TYPE OF PUMP</p> <p><input checked="" type="checkbox"/> PERISTALTIC</p> <p><input type="checkbox"/> SUBMERSIBLE</p> <p><input type="checkbox"/> BLADDER</p> <p><input type="checkbox"/> WATER</p> <p><input checked="" type="checkbox"/> OTHER Geopump</p>	<p>DECON FLUIDS USED</p> <p><input checked="" type="checkbox"/> LIQUINOX</p> <p><input type="checkbox"/> DEIONIZED WATER</p> <p><input type="checkbox"/> POTABLE WATER</p> <p><input type="checkbox"/> NITRIC ACID</p> <p><input type="checkbox"/> HEXANE</p> <p><input type="checkbox"/> METHANOL</p> <p><input type="checkbox"/> OTHER</p>	<p>TUBING/PUMP/BLADDER MATERIALS</p> <p><input checked="" type="checkbox"/> SILICON TUBING</p> <p><input type="checkbox"/> TEFLON TUBING</p> <p><input type="checkbox"/> TEFLON LINED TUBING</p> <p><input type="checkbox"/> HDPE TUBING</p> <p><input checked="" type="checkbox"/> LDPE TUBING</p> <p><input type="checkbox"/> OTHER</p>	<p>EQUIPMENT USED</p> <p><input checked="" type="checkbox"/> WL METER</p> <p><input checked="" type="checkbox"/> PID</p> <p><input checked="" type="checkbox"/> WQ METER</p> <p><input checked="" type="checkbox"/> TURB. METER</p> <p><input type="checkbox"/> PUMP</p> <p><input type="checkbox"/> OTHER</p> <p>FILTERS NO. <input checked="" type="checkbox"/> TYPE</p>
---	---	--	---

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> VOCs	8260B	N	HCL, 4°C	3X40ml	4	---	---
<input type="checkbox"/>							
<input type="checkbox"/>							
<input type="checkbox"/>							

PURGE OBSERVATIONS

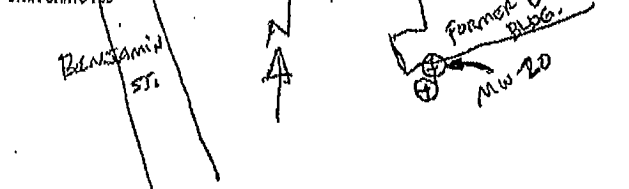
PURGE WATER CONTAINERIZED YES NO

NO. OF HIGH MIPPHAN UTILIZED YES NO

NUMBER OF GALLONS GENERATED **~2.5 GAL**

If you purged approximately 1 standard volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES



Sampler Signature: **J.D. Longley** Print Name: **Thomas D. Longley**

Checked By: **R. J. [Signature]** Date: **5/22/13**



FIGURE 4.17
LOW FLOW GROUNDWATER SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
36121122.09.02

SAMPLE ID
DCMWA112013XX

SAMPLE TIME
12:20

LOCATION ID
MW-21

DATE
5-9-13

START TIME
11:26

END TIME

SITE NAME/NUMBER

PAGE
1 OF *1*

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

WELL INTEGRITY

YES	NO	N/A
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

INITIAL DTW (BMP) *12.16* FT FINAL DTW (BMP) *12.18* FT PROT. CASING STICKUP (ACS) *FLUSH* FT TOC/TOR DIFFERENCE *-0.35* FT

WELL DEPTH (BMP) *29.4* FT SCREEN LENGTH *5* FT PID AMBIENT AIR *0.0* PPM REFILL TIMER SETTING SEC

WATER COLUMN *17.24* FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) *0.003* GAL PID WELL MOUTH *0.0* PPM DISCHARGE TIMER SETTING SEC

CALCULATED GAL VOL *2.8* GAL TOTAL VOL PURGED *~ 3.0* GAL DRAWDOWN/TOTAL PURGED _____ PRESSURE TO PUMP PSI

(column X well diameter squared X 0.041) (mL per minute X total minutes X 0.0026 gal/mL)

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE OAP)

TIME	DTW (F1)	PURGE RATE	TEMP. (°C)	SP. CONDUCTANCE	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
3-5 Minutes	0.0-0.33 ft. Drawdown	(mL/min)	(± 0.3 degrees)	(µS/cm) (± 3%)	(± 0.1 units)	(± 10%)	(± 10% < 10 ntu)	(± 10 mv)		
<i>11:32</i>										<i>BEGIN PURGING @ 260 mL/min</i>
<i>11:43</i>	<i>12.18</i>	<i>260</i>	<i>13.27</i>	<i>2.637</i>	<i>7.13</i>	<i>3.00</i>	<i>25.6</i>	<i>614.3</i>	<i>4'</i>	<i>off of bottom</i>
<i>11:53</i>	<i>12.18</i>	<i>260</i>	<i>13.25</i>	<i>2.546</i>	<i>7.13</i>	<i>0.45</i>	<i>15.5</i>	<i>614.9</i>		
<i>12:03</i>	<i>12.18</i>	<i>260</i>	<i>13.09</i>	<i>2.654</i>	<i>7.11</i>	<i>0.31</i>	<i>11.8</i>	<i>625.9</i>		
<i>12:08</i>	<i>12.18</i>	<i>260</i>	<i>13.14</i>	<i>2.625</i>	<i>7.11</i>	<i>0.28</i>	<i>7.21</i>	<i>630.5</i>		
<i>12:13</i>	<i>12.18</i>	<i>260</i>	<i>13.07</i>	<i>2.601</i>	<i>7.12</i>	<i>0.25</i>	<i>5.99</i>	<i>625.8</i>		
<i>12:16</i>	<i>12.18</i>	<i>260</i>	<i>13.08</i>	<i>2.599</i>	<i>7.11</i>	<i>0.58</i>	<i>4.72</i>	<i>638.0</i>		
<i>12:20</i>	<i>Sample</i>									

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

13 *2.60* *7.1* *0.6* *4.72* *640*

NYSDEC required degree (ex. 10.1 = 10)
COND: 3 SF max (ex. 3.33 = 3.33, 0.006 = 0.006)
pH: nearest tenth (ex. 5.33 = 5.3)
DO: nearest tenth (ex. 3.31 = 3.3)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
PUMP: 2 SF (4.1 = 4.1, 191 = 190)

EQUIPMENT DOCUMENTATION

<p>TYPE OF PUMP</p> <p><input checked="" type="checkbox"/> PERISTALTIC</p> <p><input type="checkbox"/> SUBMERSIBLE</p> <p><input type="checkbox"/> BLAOWER</p> <p>WATER</p> <p><input checked="" type="checkbox"/> OTHER <i>Geopump</i></p>	<p>DECON FLUIDS USED</p> <p><input checked="" type="checkbox"/> LIQUINOX</p> <p><input type="checkbox"/> OZONIZED WATER</p> <p><input type="checkbox"/> POTABLE WATER</p> <p><input type="checkbox"/> NITRIC ACID</p> <p><input type="checkbox"/> HEXANE</p> <p><input type="checkbox"/> METHANOL</p> <p><input type="checkbox"/> OTHER</p>	<p>TUBING/PUMP/BLADDER MATERIALS</p> <p><input checked="" type="checkbox"/> SILICON TUBING</p> <p><input type="checkbox"/> TEFLON TUBING</p> <p><input type="checkbox"/> TEFLON LINED TUBING</p> <p><input checked="" type="checkbox"/> HDPE TUBING</p> <p><input type="checkbox"/> LDPE TUBING</p> <p><input type="checkbox"/> OTHER</p>	<p>EQUIPMENT USED</p> <p><input checked="" type="checkbox"/> WL. METER</p> <p><input checked="" type="checkbox"/> PID</p> <p><input checked="" type="checkbox"/> WQ METER</p> <p><input checked="" type="checkbox"/> TURB. METER</p> <p><input type="checkbox"/> PUMP</p> <p><input type="checkbox"/> OTHER</p> <p>FILTERS NO. <input checked="" type="checkbox"/> TYPE _____</p>
---	---	---	---

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIBER FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> VOCs	<i>628P</i>	<i>N</i>	<i>HCl, 4°C</i>	<i>3x40ml</i>	<i>y</i>	<input type="checkbox"/>	

PURGE OBSERVATIONS

PURGE WATER CONTAMINATED YES NO

NO. PUMP METHOD UTILIZED YES NO

NUMBER OF GALLONS GENERATED *~ 3.0 gal*

If you purge approximately 1 standing volume prior to sampling or _____ gal. for this sample location.

SKETCH/NOTES

BENTONITE 5'

N

Former DE Bladder

MW-21

Sampler Signature: *J. D. Tully* Print Name: *Thomas D. Longley*

Checked By: *TS* Date: *5/22/13*

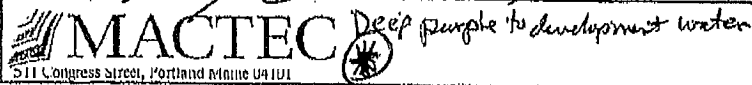


FIGURE 4.17
LOW FLOW GROUNDWATER SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Diamond Cleaners	
PROJECT NUMBER DCMW2212013X 3612/12209.02	
SAMPLE ID DCMW2212013XX	SAMPLE TIME 1307

LOCATION ID MW-22	DATE 5/9/13
START TIME 1223	END TIME 1307
SITE NAME/NUMBER _____	PAGE 1 OF 1

WELL DIAMETER (INCHES) <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/> 8 <input type="checkbox"/> OTHER _____	WELL INTEGRITY YES NO N/A CAP <input checked="" type="checkbox"/> _____ CASING <input checked="" type="checkbox"/> _____ LOCKED <input checked="" type="checkbox"/> _____ COLLAR <input checked="" type="checkbox"/> _____
TUBING ID (INCHES) <input checked="" type="checkbox"/> 1/8 <input checked="" type="checkbox"/> 1/4 <input type="checkbox"/> 3/8 <input type="checkbox"/> 1/2 <input type="checkbox"/> 5/8 <input type="checkbox"/> OTHER _____	CAP <input checked="" type="checkbox"/> _____ CASING <input checked="" type="checkbox"/> _____ LOCKED <input checked="" type="checkbox"/> _____ COLLAR <input checked="" type="checkbox"/> _____
MEASUREMENT POINT (MIP) <input checked="" type="checkbox"/> TOP OF RISER (TOR) <input checked="" type="checkbox"/> TOP OF CASING (TOC) <input type="checkbox"/> OTHER _____	TOC/TOR DIFFERENCE _____ FT
INITIAL DTW (BNP) 11.83 FT	FINAL DTW (BNP) 11.90 FT
PROT. CASING STICKUP (AGS) FLUSH FT	TOC/TOR DIFFERENCE _____ FT
WELL DEPTH (BNP) 22 FT	SCREEN LENGTH 10 FT
PID AMBIENT AIR 0.0 PPM	REFILL TIMER SETTING _____ SEC
WATER COLUMN 10.17 FT	DRAWDOWN VOLUME 0.011 GAL
PID WELL MOUTH 0.0 PPM	DISCHARGE TIMER SETTING _____ SEC
CALCULATED GAL/VOL 1.67 GAL	TOTAL VOL. PURGED ~2.8 GAL
DRAWDOWN/ TOTAL PURGED 0.0039	PRESSURE TO PUMP _____ PSI

TIME	DTW (F1)	PURGE RATE	TEMP. (°C)	SP. CONDUCTANCE	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1229	BEGIN PURGING									
1228	11.89	250	12.29	1.194	6.83	0.75	11.78	32.6	17.0	
1233	11.89	250	12.10	1.172	6.77	0.57	6.05	34.6	17.0	
1238	11.90	250	12.00	1.067	6.77	1.07	4.52	37.9	17.0	
1243	11.90	250	11.78	1.023	6.80	1.51	1.53	35.8	17.0	
1248	11.90	250	11.91	1.009	6.77	2.10	2.11	38.6	17.0	
1253	11.90	250	11.46	0.996	6.79	1.99	1.57	42.6	17.0	
1256	11.90	250	11.27	0.997	6.80	1.77	1.48	40.6	17.0	
1259	11.90	250	11.29	0.989	6.78	1.60	1.77	44.1	17.0	
1302	11.90	250	11.53	0.985	6.80	1.62	1.50	45.5	17.0	
1305	11.90	250	11.50	0.986	6.82	1.58	0.90	42.6	17.0	
Collect Sample @ 1307										

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures [SF])

TEMP: nearest degree (ex. 10.1 = 10)
COND: 1 SF max (ex. 1.113 = 1.1), 0.0% = 0.00%
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.31 = 3.3)
TURB: 3 SF max, nearest tenth (6.19 = 6.1, 101 = 101)
DIP: 2 SF (4.1 = 4.1, 101 = 101)

12 0.986 6.8 1.6 0.9 43

EQUIPMENT DOCUMENTATION

<input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER <input type="checkbox"/> WATER <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<input checked="" type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input type="checkbox"/> OTHER _____	<input checked="" type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<input type="checkbox"/> S. STEEL PUMP MATERIAL <input type="checkbox"/> PVC PUMP MATERIAL <input type="checkbox"/> GEOPROBE SCREEN <input type="checkbox"/> TEFLON BLADDER <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<input checked="" type="checkbox"/> WL METER <input type="checkbox"/> PID <input type="checkbox"/> WQ METER <input type="checkbox"/> TURB. METER <input type="checkbox"/> PUMP <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____
---	--	---	--	--

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> VOC	8260	N	HCC	3x40ml	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
/							

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED	YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	NUMBER OF GALLONS GENERATED	~2.8
NO. PURGE METHOD UTILIZED	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	If yes, purged approximately 1 standard volume prior to sampling or _____ mL for this sample location.	

SKETCH/NOTES

Former D.C. Bldg.
 MW-22
 Lake St.

Sampler Signature:

Print Name: **RYAN JORNEY**

Checked By: **TDL**

Date: **5-21-13**

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
3612112209.02

SAMPLE ID
DCMW2312013XX

SAMPLE TIME
14:10

LOCATION ID
MW-23

DATE
5-9-13

START TIME
12:50

END TIME
14:20

SITE NAME/NUMBER
PAGE
1 OF **1**

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

WELL INTEGRITY

YES NO N/A

CAP

CASING

LOCKED

COLLAR

INITIAL DTW (BMP) **11.95** FT FINAL DTW (BMP) **20.00** FT PROT. CASING STICKUP (ACS) **FLUSH** FT TOC/TOR DIFFERENCE **-0.3** FT

WELL DEPTH **29.6** FT SCREEN LENGTH **(24'-29") 5** FT PID AMBIENT AIR **0.6** PPM REFILL TIMER SETTING _____ SEC

WATER COLUMN **17.65** FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) _____ GAL PID WELL MOUTH **0.0** PPM DISCHARGE TIMER SETTING _____ SEC

CALCULATED GAL/YOL **2.9** GAL TOTAL VOL. PURGED _____ GAL DRAWDOWN/TOTAL PURGED _____ PSI

(column X well diameter squared X 0.041) (mL per minute X total minutes X 0.00026 gal/mL)

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DIW (PI) 00-0.33 R Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% < 10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
13:01		BEGIN PURGING @ 220 mL/min								
13:10	14.75	220	12.46	0.843	7.14	2.40	36.8	575.0		
13:15	16.20	220	12.44	0.823	7.12	1.63	34.1	562.9		Δ purge rate
										Well does not recharge - turn up pump after seeing Δ drop at lowest pump setting; will sample the recharge after it comes back
13:28	20.4	water spill drops @ 220 mL/min								purge rate is 180 mL/min, spill drops
13:33		purge to 23.7' B.T.O.R. - will let rebound then sample.								
14:10		Collect sample								
14:10	20.00									

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

TEMP: nearest degree (ex. 10.1 = 10)
 COND: 1 SF max (ex. 2333 = 3330, 0.696 = 0.696)
 pH: nearest tenth (ex. 5.53 = 5.5)
 DO: nearest tenth (ex. 3.51 = 3.5)
 TURB: 1 SF max, nearest tenth (5.19 = 6.2, 101 = 101)
 ORP: 2 SF (41.4 = 41, 101 = 100)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: PERISTALTIC SUBMERSIBLE BLADDER

DECON FLUIDS USED: LIQUINOX IONIZED WATER POTABLE WATER NITRIC ACID HEXANE METHANOL OTHER _____

TUBING/PUMP/BLADDER MATERIALS: SILICON TUBING TEFLON TUBING TEFLON LINED TUBING HDPE TUBING LDPE TUBING OTHER _____

S. STEEL PUMP MATERIAL PVC PUMP MATERIAL QOPROB SCREEN TEFLON BLADDER OTHER _____

EQUIPMENT USED: WL METER PID VQ METER TURB. METER PUMP OTHER _____

FILTERS NO. _____ TYPE _____

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
VOCs	8260B	N	Hel, 4°C	3X40mL	Y		

PURGE OBSERVATIONS

PURGE WATER CONTAMINIZED: YES NO

NO. PURGE METHOD UTILIZED: YES NO

NUMBER OF GALLONS GENERATED: _____

If you purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

Sketch showing well location and notes: "found D.C. Blk.", "Lake St", "N ↑", "MW-23".

Sampler Signature: *J. O. Longley* Print Name: **Thomas D. Longley**

Checked By: *R. J. [Signature]* Date: **5/22/13**



LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
3612112209.02

SAMPLE ID
DCGW00212013XX

SAMPLE TIME
16.50

LOCATION ID
GW-002

DATE
5/7/13

START TIME
16.70

END TIME
16.50

SITE NAME/NUMBER

PAGE
1 OF 1

WELL DIAMETER (INCHES) 1 3 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MIP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

INITIAL DTW (BMP) 12.91 FT FINAL DTW (BMP) 12.94 FT PROT. CASING STICKUP (AGS) FLUSH# FT

WELL DEPTH (BMP) 19.3 FT SCREEN LENGTH _____ FT PID AMBIENT AIR 0.0 PPM REFILL TIMER SETTING _____ SEC

WATER COLUMN 6.39 FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) 0.0012 GAL PID WELL MOUTH 0.0 PPM DISCHARGE TIMER SETTING _____ SEC

CALCULATED GAL VOL 0.26 GAL TOTAL VOL. PURGED ~2 GAL DRAWDOWN/ TOTAL PURGED 0.0006 PSI PRESSURE TO PUMP _____ PSI

WELL INTEGRITY YES NO N/A
CAP _____
CASING LOCKED _____
COLLAR _____

TOCTOR DIFFERENCE _____ FT
REFILL TIMER SETTING _____ SEC
DISCHARGE TIMER SETTING _____ SEC
PRESSURE TO PUMP _____ PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (F1) 0.0-0.33 ft Drawdown	PURGERATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTUANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
<u>1620</u>										BEGIN PURGING
<u>1625</u>	<u>12.93</u>	<u>250</u>	<u>14.35</u>	<u>1.489</u>	<u>6.82</u>	<u>3.77</u>	<u>23.90</u>	<u>51.4</u>	<u>16.5</u>	
<u>1630</u>	<u>12.94</u>	<u>250</u>	<u>13.88</u>	<u>1.474</u>	<u>6.81</u>	<u>3.23</u>	<u>8.11</u>	<u>45.9</u>	<u>16.5</u>	
<u>1635</u>	<u>12.94</u>	<u>250</u>	<u>13.59</u>	<u>1.459</u>	<u>6.84</u>	<u>3.09</u>	<u>2.73</u>	<u>47.1</u>	<u>16.5</u>	
<u>1640</u>	<u>12.94</u>	<u>250</u>	<u>13.62</u>	<u>1.451</u>	<u>6.86</u>	<u>3.00</u>	<u>1.85</u>	<u>50.4</u>	<u>16.5</u>	
<u>1645</u>	<u>12.94</u>	<u>250</u>	<u>13.89</u>	<u>1.447</u>	<u>6.87</u>	<u>3.04</u>	<u>1.14</u>	<u>51.8</u>	<u>16.5</u>	
<u>1650</u>	<u>12.94</u>	<u>250</u>	<u>13.78</u>	<u>1.450</u>	<u>6.84</u>	<u>3.05</u>	<u>1.17</u>	<u>53.3</u>	<u>16.5</u>	<u>Collect Sample</u>

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

14 1.45 6.8 3.1 1.2 53

TEMP: nearest degree (ex. 10.1 = 10)
COND: 3 SF max (ex. 3333 = 3330, 0.666 = 0.666)
pH: nearest tenth (ex. 5.33 = 5.3)
DO: nearest tenth (ex. 3.31 = 3.3)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
PUMP: 3 SF (+/- 44, 101 = 100)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: PERISTALTIC SUBMERSIBLE BLADDER WATERA OTHER _____

DECON FLUIDS USED: LIQUINOX DEIONIZED WATER POTABLE WATER NITRIC ACID HEXANE METHANOL OTHER _____

TUBING/PUMP/BLADDER MATERIALS: SILICON TUBING TEFLON TUBING TEFLON LINED TUBING HDPE TUBING LDPE TUBING OTHER _____

S. STEEL PUMP MATERIAL PVC PUMP MATERIAL GEOPROBE SCREEN TEFLON BLADDER OTHER _____

EQUIPMENT USED: WL METER PID WQ METER TURB. METER PUMP OTHER _____

FILTERS NO. TYPE _____

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<u>VOL</u>	<u>8260</u>	<u>N</u>	<u>Hcl</u>	<u>3x40ml</u>	<u>Y</u>	<u>Y</u>	

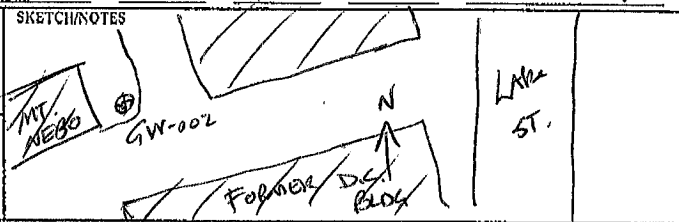
PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO

NO. PURGE METHOD UTILIZED YES NO

NUMBER OF GALLONS GENERATED ~2.0

If you purged approximately 1 standard volume prior to sampling or _____ mL for this sample location.



Sampler Signature: [Signature] Print Name: Ryan Torres

Checked By: TDL Date: 5-21-13

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
DIAMOND CLEANERS

PROJECT NUMBER
36/21/2209.02

SAMPLE ID
DCGW013/2013XX

SAMPLE TIME
0830 5/8/13

LOCATION ID
GW-013

DATE
5/7/13

START TIME
1708

END TIME

SITE NAME/NUMBER

PAGE
1 OF 1

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/4 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

WELL INTEGRITY

YES	NO	N/A
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

INITIAL DTW (INSP) **N/A** FT FINAL DTW (INSP) _____ FT

WELL DEPTH (INSP) _____ FT SCREEN LENGTH _____ FT

WATER COLUMN _____ FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) _____ GAL

CALCULATED GALVOL (column X well diameter squared X 0.041) _____ GAL TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL) _____ GAL

PROT. CASING STICKUP (AGS) **FLUSH** FT TOC/TOR DIFFERENCE **~0.5** FT

PID AMBIENT AIR **0.0** PPM REFILL TIMER SETTING _____ SEC

PID WELL MOUTH **0.0** PPM DISCHARGE TIMER SETTING _____ SEC

DRAWDOWN/TOTAL PURGED _____ PRESSURE TO PUMP _____ PSI

Blockage @ ~6.1' unable to collect water level

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (ft) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1708										
										BEGIN PURGING
1712	N/A	200	14.12	1032	6.82	0.12	>	-53.0		GW is VER/ruebl.
1715		200	14.16	1,019	6.41	0.08	>	-45.5		Dark Gray Sediment
1716	Well Pumped Dry	Based on Previous Sampling,								
	Will Return in 12-24 Hours to collect sample									
	Water Remained Very Turbid. No PID Hits, PID @ 0.0ppm									
	Slight organic odor.									
7/8/13	Tom Longley to collect sample - collect 3 X 40ml vials @ 0830 on 5-8-13									
	Extremely turbid & muddy water									

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

TEMP: nearest degree (ex. 10.1 = 10)
 COND: 3 SF max (ex. 233) = 3330, 0.016 = 0.066
 pH: nearest tenth (ex. 5.51 = 5.5)
 DO: nearest tenth (ex. 3.41 = 3.4)
 TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
 ORP: 3 SF (44.1 = 44, 101 = 100)

EQUIPMENT DOCUMENTATION

<p>TYPE OF PUMP</p> <p><input checked="" type="checkbox"/> PERISTALTIC</p> <p><input type="checkbox"/> SUBMERSIBLE</p> <p><input type="checkbox"/> BLADDER</p> <p>WATERA _____</p> <p>OTHER Geopump</p>	<p>DECON FLUIDS USED</p> <p><input checked="" type="checkbox"/> LIQUINOX</p> <p><input checked="" type="checkbox"/> DEIONIZED WATER</p> <p><input type="checkbox"/> POTABLE WATER</p> <p><input type="checkbox"/> NITRIC ACID</p> <p><input type="checkbox"/> HEXANE</p> <p><input type="checkbox"/> METHANOL</p> <p><input type="checkbox"/> OTHER _____</p>	<p>TUBING PUMP BLADDER MATERIALS</p> <p><input checked="" type="checkbox"/> SILICON TUBING</p> <p><input type="checkbox"/> TEFLON TUBING</p> <p><input type="checkbox"/> TEFLON LINED TUBING</p> <p><input type="checkbox"/> HDPE TUBING</p> <p><input type="checkbox"/> LDPE TUBING</p> <p><input type="checkbox"/> OTHER _____</p>	<p>EQUIPMENT USED</p> <p><input checked="" type="checkbox"/> W/ METER</p> <p><input checked="" type="checkbox"/> P/ METER</p> <p><input checked="" type="checkbox"/> WQ METER</p> <p><input type="checkbox"/> GEOPROBE SCREEN</p> <p><input type="checkbox"/> TEFLON BLADDER</p> <p><input type="checkbox"/> OTHER _____</p> <p><input type="checkbox"/> PUMP</p> <p><input type="checkbox"/> OTHER _____</p> <p><input type="checkbox"/> FILTERS NO. _____ TYPE _____</p>
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ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE NUMBERS
VOCs	8260	N	HCL, 4°C	3X40ml	Y	-	

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO

NUMBER OF GALLONS GENERATED _____

PURGE METHOD UTILIZED YES NO

If you purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES



Sampler Signature: **Th. D. Longley** Print Name: **Thomas D. Longley**

Checked By: **R. J. [Signature]** Date: **5/22/13**



FIGURE 4.17
 LOW FLOW GROUNDWATER SAMPLING RECORD
 NYSDEC QUALITY ASSURANCE PROJECT PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
36242209.02

SAMPLE ID
DCGW01412013XX

SAMPLE TIME
1045

LOCATION ID
CW-014

DATE
5-8-13

START TIME
0725

END TIME
1045

SITE NAME/NUMBER
Diamond Cleaners

PAGE
1 OF 1

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

WELL INTEGRITY

YES	NO	N/A
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

INITIAL DTW (BMP) **10.63** FT FINAL DTW (BMP) _____ FT PROT. CASING STICKUP (AGS) **FLUSH** FT TOC/TOR DIFFERENCE **-0.45** FT

WELL DEPTH (BMP) **14.8** FT SCREEN LENGTH _____ FT PID AMBIENT AIR **0.0** PPM REFILL TIMER SETTING _____ SEC

WATER COLUMN **4.17** FT DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041) _____ GAL PID WELL MOUTH _____ PPM DISCHARGE TIMER SETTING _____ SEC

CALCULATED GAL/VOL **0.04017** GAL TOTAL VOL. PURGED _____ GAL DRAWDOWN/ TOTAL PURGED _____ PSI

(column X well diameter squared X 0.041) (mL per minute X total minutes X 0.00026 gal/mL)

Historic

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DIW (F1) 0.0-0.33 R Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
0739										BEGIN PURGING @
										Well pumps dry - can't keep up w/ pump - so de-water & come back w/ in the day to collect samples
0758										pull off site/well
1045										Return & Collect sample

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures)(SF)

N/A

TEMP: nearest degree (ex. 10.1 = 10)
COND: 3 SF max (ex. 1331 = 1330, 0.006 = 0.006)
pH nearest tenth (ex. 5.51 = 5.5)
DO nearest tenth (ex. 2.51 = 2.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2; 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

<input checked="" type="checkbox"/> PERISTALTIC SUBMERSIBLE BLADDER	<input checked="" type="checkbox"/> LIQUINOX DEIONIZED WATER POTABLE WATER NITRIC ACID HEXANE METHANOL OTHER	<input checked="" type="checkbox"/> SILICON TUBING TEFLON TUBING TEFLON LINED TUBING HDPE TUBING LDPE TUBING OTHER	<input type="checkbox"/> S. STEEL PUMP MATERIAL PVC PUMP MATERIAL GEOPROBE SCREEN TEFLON BLADDER OTHER OTHER	<input checked="" type="checkbox"/> WL METER <input checked="" type="checkbox"/> PID <input checked="" type="checkbox"/> WQ METER <input checked="" type="checkbox"/> TURB. METER <input checked="" type="checkbox"/> PUMP <input type="checkbox"/> OTHER <input type="checkbox"/> FILTERS NO. TYPE
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ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> VOCs	82600	N	Hcl	3x40ml	3	-	

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO

NO. PURGE METHOD UTILIZED YES NO

NUMBER OF GALLONS GENERATED _____

If yes, purge approximately 1 standing volume prior to sampling or _____ gal. for this sample location.

SKETCH/NOTES



Sampler Signature: *[Signature]* Print Name: **Ryan Torrey**

Checked By: **TDL** Date: **5-21-13**



FIGURE 4.17
LOW FLOW GROUNDWATER SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
361212109.07

SAMPLE ID
DCMW00112013XX

SAMPLE TIME
15:55

LOCATION ID
MW-001

DATE
5-7-13

START TIME
14:50

END TIME
16:00

SITE NAME/NUMBER
Diamond Cleaners

PAGE
1 OF **1**

NO BOLTS TO STEEL COVER

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

WELL INTEGRITY

YBS	NO	N/A
CAP	<input checked="" type="checkbox"/>	—
CASING	<input checked="" type="checkbox"/>	—
LOCKED	<input checked="" type="checkbox"/>	—
COLLAR	<input checked="" type="checkbox"/>	—

INITIAL DTW (BMP) **12.10** FT FINAL DTW (BMP) **12.19** FT PROT. CASING STICKUP (AGS) **PLUSH** FT TOCTOR DIFFERENCE **0.10** FT

WELL DEPTH (BMP) **23.50** FT SCREEN LENGTH _____ FT PID AMBIENT AIR **NA** PPM REFILL TIMER SETTING _____ SEC

WATER COLUMN **11.4** FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) **0.015** GAL PID WELL MOUTH **NA** PPM DISCHARGE TIMER SETTING _____ SEC

CALCULATED GALVOL (column X well diameter squared X 0.041) **1.87** GAL TOTAL VOL. PURGED **22.7** GAL DRAWDOWN/TOTAL PURGED **0.0055** PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE OAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	RDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
15:00										BEGIN PURGING @ 200ml/min.
15:10	12.19	200	14.57	0.636	7.21	3.60	61.4	71.3	3'	up off bottom
15:15	12.19	200	14.25	0.644	7.20	2.62	41.7	68.8		
15:20	12.19	200	14.25	0.662	7.19	2.25	29.8	65.3		
15:25	12.19	200	14.22	0.710	7.19	1.93	23.2	61.3		
15:35	12.19	200	14.13	0.787	7.18	1.70	15.8	57.0		15:35 TIME
15:40	12.19	200	13.66	0.803	7.18	1.72	15.2	57.1		
15:45	12.19	200	13.85	0.821	7.17	1.47	13.8	56.7		
15:48	12.19	250	13.65	0.834	7.17	1.42	12.8	56.5		
15:51	12.19	250	13.86	0.834	7.17	1.40	10.5	55.8		
15:55	3 Angle									

15:35 TOL

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

14	0.834	7.2	1.4	10.5	56
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TEMP. neutral depth (ex. 10.1 = 50)
COND.: 3 SF max (ex. 3333 = 3330, 0.006 = 0.006)
pH: nearest tenth (ex. 3.51 = 3.5)
DISS. O₂: nearest tenth (ex. 3.51 = 3.5)
TURB.: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
RDOX: 3 SF (4.1 = 4.1, 101 = 100)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER <input type="checkbox"/> WATERBRA <input checked="" type="checkbox"/> OTHER Geo Pump <input type="checkbox"/> OTHER _____	BECON FLUIDS USED <input checked="" type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANS <input type="checkbox"/> METHANOL <input type="checkbox"/> OTHER _____	TUBING/PUMP BLADDER MATERIALS <input checked="" type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	S. STEEL PUMP MATERIAL PVC PUMP MATERIAL GEOPROBE SCREEN TEFLON BLADDER OTHER _____ OTHER _____	EQUIPMENT USED <input checked="" type="checkbox"/> WL METER <input type="checkbox"/> PID <input checked="" type="checkbox"/> WQ METER <input type="checkbox"/> TURB. METER <input type="checkbox"/> PUMP <input type="checkbox"/> OTHER _____ FILTERS: NO. <input checked="" type="checkbox"/> TYPE _____
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ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> VOCs	8760B	N	Hel, 4°C	3x40ml	Y	—	

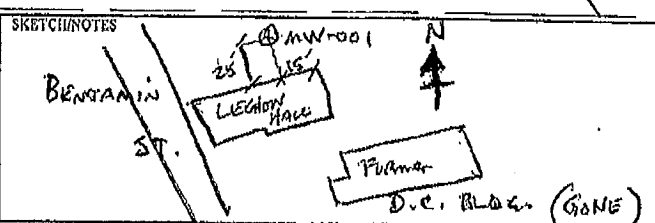
PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO

NO. PURGE METHOD UTILIZED YES NO

NUMBER OF GALLONS GENERATED **22.7**

If you purge approximately 1 standing volume prior to sampling or _____ mL for this sample location.



Sampler Slenathes **Thel. Joffy** Print Name: **Thomas D. Longley**

Checked By: **RJD** Date: **5/22/13**

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
3612132-09.02

SAMPLE ID
DCMW00212013XR

SAMPLE TIME
11:40

LOCATION ID
MW-002

DATE
5-8-12

START TIME
10:30

END TIME
11:45

SITE NAME/NUMBER
Diamond Cleaners

PAGE
1 of 1

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MIP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

WELL INTEGRITY

YES	NO	N/A
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

INITIAL DTW (DMP) **12.22** FT FINAL DTW (DMP) **12.25** FT PROT. CASING STICKUP (ACS) **Flush** FT TOC/TOR DIFFERENCE **~0.05** FT

WELL DEPTH (DMP) **24.1** FT SCREEN LENGTH **2** FT MID AMBIENT AIR **0.0** PPM REFILL TIMER SETTING _____ SEC

WATER COLUMN **11.88** FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) **0.005** GAL RID WELL MOUTH **0.0** PPM DISCHARGE TIMER SETTING _____ SEC

CALCULATED GAL VOL. (column X well diameter squared X 0.041) **1.95** GAL TOTAL VOL. PURGED **~2.8** GAL DRAWDOWN/TOTAL PURGED **0.0018** PRESSURE TO PUMP _____ PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (ft) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
10:39		BEGIN PURGING @ 200 mL/min.								
10:48	12.25	200	12.26	1.011	7.15	0.87	53.2	90.2	3' off	bottom
10:55	12.25	200	12.30	1.010	7.14	0.48	37.8	85.2		
11:00	12.25	200	12.30	1.005	7.16	0.38	26.0	87.0		
11:10	12.25	200	12.33	1.009	7.16	0.83 ^K	18.0	86.0		* HAS TO ADJUST SEAL OF PUMP - THAN E-GILL
11:15	12.25	200	12.32	1.008	7.14	0.35	12.9	83.0		
11:25	12.25	200	12.35	1.008	7.13	0.30	8.86	78.6		
11:30	12.25	200	12.33	1.009	7.13	0.27	6.20	77.1		
11:33	12.25	200	12.38	1.008	7.13	0.25	6.85	75.6		
Sample - Col. Time @ 11:40										

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

12. 1.01 7.1 0.3 6.9 76

TEMP: nearest degree (5, 10, 1 - 10)
COND: 3 SF max (ex. 3.113 = 3.11, 0.006 = 0.006)
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.31 = 3.3)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (41 = 41, 121 = 120)

EQUIPMENT DOCUMENTATION

<p>TYPE OF PUMP</p> <p><input checked="" type="checkbox"/> PERISTALTIC</p> <p><input type="checkbox"/> SUBMERSIBLE</p> <p><input type="checkbox"/> BLADDER</p> <p><input type="checkbox"/> WATER</p> <p><input checked="" type="checkbox"/> OTHER Geopump</p>	<p>DECON FLUIDS USED</p> <p><input checked="" type="checkbox"/> LIQUINOX</p> <p><input type="checkbox"/> DEIONIZED WATER</p> <p><input type="checkbox"/> POTABLE WATER</p> <p><input type="checkbox"/> NITRIC ACID</p> <p><input type="checkbox"/> HEXANE</p> <p><input type="checkbox"/> METHANOL</p> <p><input type="checkbox"/> OTHER _____</p>	<p>TUBING/PUMP/BLADDER MATERIALS</p> <p><input checked="" type="checkbox"/> SILICON TUBING</p> <p><input type="checkbox"/> TEFLON TUBING</p> <p><input type="checkbox"/> TEFLON LINED TUBING</p> <p><input type="checkbox"/> HDPE TUBING</p> <p><input type="checkbox"/> LDPE TUBING</p> <p><input type="checkbox"/> OTHER _____</p>	<p>EQUIPMENT USED</p> <p><input checked="" type="checkbox"/> S. STEEL PUMP MATERIAL</p> <p><input checked="" type="checkbox"/> PVC PUMP MATERIAL</p> <p><input checked="" type="checkbox"/> GEOPROB SCREEN</p> <p><input type="checkbox"/> TFLON BLADDER</p> <p><input type="checkbox"/> OTHER _____</p>
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ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBER
<input checked="" type="checkbox"/> Vocs	8260B	N	KCL, 4°C	3x40ml	Y		

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO

NUMBER OF GALLONS GENERATED **~2.8**

NUMBER OF PYPHON UTILIZED YES NO

If no purge, approximately 1 sampling volume for to sampling or _____ mL for this sample location.

SKETCH/NOTES

MW-002

LODGE BLDG.

FORNEN

D.C.

N

Sampler Signature: **Th. O. Lytle** Print Name: **Thomas D. Longley**

Checked By: **R. J. [Signature]** Date: **5/22/12**



FIGURE 4.17
LOW FLOW GROUNDWATER SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
DIAMOND CLEANERS

PROJECT NUMBER
3612112209.02

SAMPLE ID
DC MW00312013XX

SAMPLE TIME
13:45

LOCATION ID
MW-003

DATE
5-7-13

START TIME
12:50

END TIME
13:50

SITE NAME/NUMBER
DIAMOND Cleaners

PAGE
1 OF 1

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

WELL INTEGRITY

YES	NO	N/A
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

INITIAL DTW (DMP) **11.45** FT FINAL DTW (DMP) **11.5** FT PROT. CASING STICKUP (ACS) **FLUSH** FT TOCTOR DIFFERENCE **-0.4** FT

WELL DEPTH (DMP) **24.00** FT SCREEN LENGTH _____ FT PID AMBIENT AIR **NA** PPM REFILL TIMER SETTING _____ SEC

WATER COLUMN **12.55** FT DRAWDOWN VOLUME (Initial DTW- final DTW X well dia² X 0.041) **0.008** GAL PID WELL MOUTH **NA** PPM DISCHARGE TIMER SETTING _____ SEC

CALCULATED GAL/VOL (column X well diameter squared X 0.041) **2.06** GAL TOTAL VOL. PURGED **0.8** GAL DRAWDOWN/ TOTAL PURGED **0.0029** PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DIW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
12:59										BEGIN PURGING THRU @ 240 mL/min.
13:08	11.50	230	12.45	1.127	6.82	3.00	21.6	100.1	4' up	From Bottom
13:15	11.50	230	12.46	1.078	6.91	1.95	13.8	89.5		
13:20	11.51	230	12.30	1.061	6.88	1.55	11.2	89.4		
13:25	11.50	230	12.29	1.043	6.92	1.28	10.6	92.8		
13:30	11.50	230	12.07	1.036	6.96	1.16	7.40	85.4		
13:35	11.50	230	12.03	1.032	6.96	1.10	6.07	81.4		
13:40	11.50	230	12.15	1.026	6.98	1.19	5.37	78.2		
13:45	SAMPLE									

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

12	1.03	7.0	1.2	5.4	78
-----------	-------------	------------	------------	------------	-----------

TEMP: 1 decimal degree (ex. 10.1 = 10)
 COND: 3 SF max (ex. 333) = 3330, 0.004 = 0.004
 pH: 2 decimal (ex. 5.2) = 5.2
 DISS: 2 SF max (ex. 3.2) = 3.2
 TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
 REDOX: 2 SF (4.1 = 4.1, 101 = 100)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: PERISTALTIC SUBMERSIBLE BLADDER

WATER: OTHER **Geolung**

DECON FLUIDS USED: LIQUINOX DEIONIZED WATER POTABLE WATER NITRIC ACID HEXANE METHANOL OTHER _____

TUBING/PUMP BLADDER MATERIALS: SILICON TUBING TEFLON TUBING TEFLON LINED TUBING HDPE TUBING LDPE TUBING OTHER _____

EQUIPMENT USED: WEL METER PID WQ METER TURB. METER PUMP OTHER _____

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
VOCs	8260B	N	HCL, 4°C	3x40ml	4		

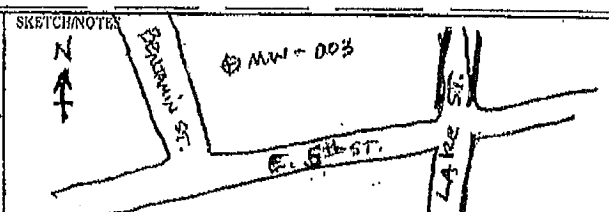
PURGE OBSERVATIONS

PURGE WATER CONTAMINIZED: YES NO

NO-PHASE METHOD UTILIZED: YES NO

NUMBER OF GALLONS GENERATED: **2.8**

If you purged approximately 1 standard volume prior to sampling or _____ mL for this sample location.



Sampler Signature: **J. D. Fry** Print Name: **Thomas D. Longley**

Checked By: **R. J. J.** Date: **5/22/13**

LOW FLOW GROUND WATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
3612112309.02

SAMPLE ID
DC-MW 00412013XX

SAMPLE TIME
10:00

LOCATION ID
MW-004

DATE
5-8-13

START TIME
0845

END TIME
10:10

SITE NAME/NUMBER

PAGE
1 OF 1

**NO BOLTS
for cover TOP
- SURFACE WATER
ISSUE
HERE!**

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

WELL INTEGRITY
YES NO N/A

CAP
CASING
LOCKED
COLLAR

INITIAL DTW (BNP) **11.58** FT FINAL DTW (BNP) **12.10** FT PROT. CASING STICKUP (AGS) **FLUSH** FT TOCTOR DIFFERENCE **-0.3** FT

WELL DEPTH (BNP) **21.2** FT SCREEN LENGTH _____ FT PID AMBIENT AIR **0.0** PPM REFILL TIMER SETTING _____ SEC

WATER COLUMN **9.62** FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) **0.045** OAL PID WELL MOUTH **0.0** PPM DISCHARGE TIMER SETTING _____ SEC

CALCULATED GAL/VOL (column X well diameter squared X 0.041) **1.58** OAL TOTAL VOL. PURGED **24.1** OAL DRAWDOWN/TOTAL PURGED **0.0007** PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
0854	BEGIN PURGING @ 220 mL/min									
0900	12.03	220	11.49	0.553	7.17	7.15	39.1	90.4	3' up	from bottom
0910	12.11	250	11.26	0.582	7.19	5.23	27.8	87.2		
0920	12.18	250	11.28	0.628	7.19	4.54	18.0	85.5		
0930	12.20	250	11.32	0.656	7.20	4.16	12.4	83.0		
0935	11.17	250	11.17	0.633	7.21	4.15	15.2	85.4		12.31
0940	11.33	250	11.33	0.680	7.21	4.16	13.3	83.7		12.24
0945	12.21	250	11.38	0.690	7.21	3.95	11.0	82.8		
0950	12.21	250	11.37	0.698	7.21	3.76	7.50	81.4		
0955	12.10	250	11.49	0.706	7.21	3.51	6.34	79.4		
0958	12.10	250	11.53	0.717	7.22	3.49	5.43	76.3		
10:00	Collect sample.									

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

12 0.72 7.2 3.5 5.4 76

TEMP. sensor degree (ex. 10.1 = 10)
CONDUCT: 3 SF max (ex. 1333 = 1330, 0.006 = 0.006)
pH: sensor length (ex. 5.51 = 5.5)
DISSOLVED O₂: 3 SF max (ex. 3.21 = 3.2)
TURBID: 3 SF max, range length (6.19 = 6.2, 101 = 101)
DRY: 2 SF (41 = 41, 0.1 = 0.1)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: PERISTALTIC SUBMERSIBLE BLADDER

DECON FLUIDS USED: LIQUINOX DEIONIZED WATER POTABLE WATER NITRIC ACID HEXAM METHANOL OTHER _____

TUBING/PUMP/BLADDER MATERIALS: SILICON TUBING TEFLON TUBING TEFLON LINED TUBING HDPE TUBING LDPE TUBING OTHER _____

EQUIPMENT USED: WL METER PID WQ METER TURB. METER PUMP OTHER _____ FILTERS NO. TYPE _____

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> VOCs	8260B	N	Accl 4°C	12 x 40ml	Y	Y	

PURGE OBSERVATIONS

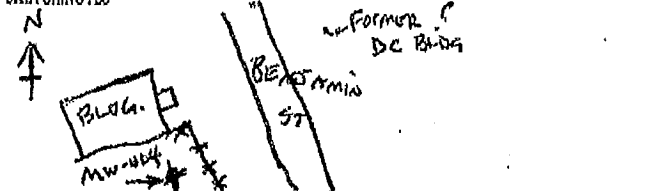
PURGE WATER CONTAINERIZED YES NO

NO-PURGE METHOD UTILIZED YES NO

NUMBER OF GALLONS GENERATED **24.1**

If purged, purged approximately 1 standing volume prior to sampling or _____ min. for this sample location.

SKETCH/NOTES



Sampler Signature: **J. D. Longley** Print Name: **Thomas D. Longley**

Checked By: **R. J. Longley** Date: **5/22/13**



Collect Dup + mstmsd (12 Vials)
XD - MS - MD

FIGURE 4.17
LOW FLOW GROUND WATER SAMPLING RECORD
NYSDEC QUALITY ASSURANCE PROJECT PLAN

**XD ✓
MS ✓
MD ✓**

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
3612102-09-02

SAMPLE ID
DCMW00612013XK

SAMPLE TIME
12:35

LOCATION ID
MW-006

DATE
5-7-13

START TIME
11:10

END TIME
12:40

SITE NAME/NUMBER
—

PAGE
1 OF **1**

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

WELL INTEGRITY

YES	NO	N/A
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

INITIAL DTW (DMP) **9.44** FT FINAL DTW (DMP) **9.71** FT PROT. CASING STICKUP (ACS) **Flush** FT TOCTOR DIFFERENCE **NA** FT

WELL DEPTH (DMP) **19.5** FT SCREEN LENGTH **—** FT PID AMBIENT AIR **NA** PPM REFILL TIMER SETTING **—** SEC

WATER COLUMN **10.06** FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) **0.044** GAL DID WELL MOUTH **NA** PPM DISCHARGE TIMER SETTING **—** SEC

CALCULATED GALVOL (column X well diameter squared X 0.041) **1.65** GAL TOTAL VOL. PURGED **~4.6** GAL DRAWDOWN/ TOTAL PURGED **~0.0096** PRESSURE TO PUMP **—** PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (F1) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTIVITY (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
11:44										BEGIN PURGING @ 11:22. Turn on pump @ 230 ml/min.
11:30	9.69	230	12.91	1.261	7.33	4.00	51.5	42.5	4'	off bottom (269 o.r.w.)
11:35	9.71	260	12.83	1.274	7.26	1.95	31.7	60.1	—	
11:45	9.75	260	12.81	1.360	7.22	1.05	21.2	54.0	—	speed on pump
11:50	9.72	240	12.83	1.438	7.21	0.89	21.3	49.5	—	
11:55	9.73	240	12.91	1.487	7.19	0.69	18.3	48.9	—	
12:05	9.74	240	13.09	1.543	7.17	0.59	15.2	57.0	—	
12:15	9.71	240	13.18	1.577	7.16	0.49	7.82	48.0	—	240 ml/min rate
12:20	9.71	240	13.29	1.590	7.13	0.45	7.30	52.2	—	
12:28	9.71	240	13.21	1.599	7.14	0.46	5.77	59.0	—	
12:30	9.71	240	13.16	1.610	7.10	0.42	5.43	59.8	—	
12:35										Sample

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

13	1.61	7.1	0.4	5.4	59.8
-----------	-------------	------------	------------	------------	-------------

TSP: nearest degree (ex. 10.1 = 10)
 COND: 3 SF max (ex. 333 = 330, 0.006 = 0.006)
 pH: nearest tenth (ex. 5.33 = 5.3)
 DO: nearest tenth (ex. 3.31 = 3.3)
 TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
 ORP: 2 SF (ex. -41.121 = -41)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: PERISTALTIC SUBMERSIBLE BLADDER

DECON FLUIDS USED: LIQUINOX DEIONIZED WATER POTABLE WATER NITRIC ACID HEXANE METHANOL OTHER _____

TUBING/PUMP/BLADDER MATERIALS: SILICON TUBING TEFLON TUBING TEFLON LINED TUBING HOPE TUBING LDPE TUBING OTHER _____

EQUIPMENT USED: W/ METER P/ID W/ METER TURB. METER PUMP OTHER _____ FILTERS NO. _____ TYPE _____

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
VOCs	8260B	N	HCL 4%	3x40ml	yes	—	—

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES NO

NUMBER OF GALLONS GENERATED: **~4.6**

NUMBER OF GALLONS UTILIZED: YES NO

If yes, purge approximately 1 sampling volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES



Sampler Signature: *Thomas D. Longly* Print Name: **Thomas D. Longly**

Checked By: *B-29-2* Date: **5/22/13**



Well had dedicated Tubing, but too short - had to replace w/ new tubing

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
3612112209.02

SAMPLE ID
DCMW00712013XX

SAMPLE TIME
15/20/1525

LOCATION ID
MW-007

DATE
5/7/13

START TIME
1451

END TIME
1525

SITE NAME/NUMBER

PAGE
1 OF 1

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (M/P) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

INITIAL DTW (BMP) 12.10 FT FINAL DTW (BMP) 12.12 FT PROT. CASING STICKUP (AGS) FLUSH FT

WELL DEPTH (BMP) 22 FT SCREEN LENGTH _____ FT PID AMBIENT AIR 0.0 PPM

WATER COLUMN 9.9 FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) 0.0032 GAL

CALCULATED GAL/VOL 1.6 GAL TOTAL YOL PURGED 2.1 GAL DRAWDOWN/ TOTAL PURGED 0.0015

WELL INTEGRITY YES NO N/A

CAP CASING LOCKED COLLAR YES NO N/A

TOC/TOR DIFFERENCE _____ FT

REFILL TIMER SETTING _____ SEC

DISCHARGE TIMER SETTING _____ SEC

PRESSURE TO PUMP _____ PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)										
TIME 3-5 Minutes	DTW (F1) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% < 10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
1451										BEGIN PURGING
1457	12.12	250	16.07	1.310	6.94	6.70	23.38	44.1		
1502	12.12	250	15.04	1.293	6.73	3.65	10.21	43.2		
1507	12.12	250	14.94	1.300	6.80	3.46	3.99	37.0		
1512	12.12	250	14.70	1.302	6.79	3.44	3.82	37.2		
1517	12.12	250	14.50	1.300	6.79	3.61	2.68	35.0		Collect Sample
1520	12.12	250	14.37	1.303	6.76	3.68	2.37	32.4		
1523	12.12	250	14.38	1.303	6.79	3.68	0.38	33.0		Collect Sample

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

14 1.30 6.8 3.7 0.4 33

TEMP: nearest degree (ex. 10.1 = 10)
 COND: 3 SF max (ex. 1333 = 1330, 0.096 = 0.096)
 pH: nearest tenth (ex. 8.53 = 8.5)
 DO: nearest tenth (ex. 3.51 = 3.5)
 TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
 RED: 3 SF (+/- 4, 10) = 100

EQUIPMENT DOCUMENTATION

<p>TYPE OF PUMP</p> <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER <input type="checkbox"/> WATERA <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<p>DECON FLUIDS USED</p> <input checked="" type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input type="checkbox"/> OTHER _____	<p>TUBING/PUMP BLADDER MATERIALS</p> <input checked="" type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<p>EQUIPMENT USED</p> <input checked="" type="checkbox"/> S. STEEL PUMP MATERIAL <input type="checkbox"/> PVC PUMP MATERIAL <input type="checkbox"/> GEOPROBE SCREEN <input type="checkbox"/> TEFLO BLADDER <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<p>EQUIPMENT USED</p> <input checked="" type="checkbox"/> WL METER <input type="checkbox"/> PID <input type="checkbox"/> WQ METER <input type="checkbox"/> TURB. METER <input type="checkbox"/> PUMP <input type="checkbox"/> OTHER _____ <input type="checkbox"/> FILTERS NO. <input checked="" type="checkbox"/> TYPE _____
--	---	--	--	---

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<u>VOL</u>	<u>8260</u>	<u>N</u>	<u>HCL</u>	<u>3x40ml</u>	<u>Y</u>	<u>N</u>	

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO

NO. PURGE METHOD UTILIZED YES NO

NUMBER OF GALLONS GENERATED 2.1

If purged approximately 1 standing volume prior to sampling or _____ min. for this sample location.

SKETCH/NOTES

2 CONTAMINATED

MW-007

MT. NERO LODGE

N
↑

Sampler Signature: [Signature] Print Name: Ryan Torrey

Checked By: TDL Date: 5-21-13

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
3612112209.02

SAMPLE ID
DCMw008/2013XX

SAMPLE TIME
1415

LOCATION ID
MW-008

DATE
5/7/13

START TIME
1325

END TIME
1415

SITE NAME/NUMBER
—

PAGE
1 OF 1

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

INITIAL DTW (BMP) 11.45 FT FINAL DTW (BMP) 11.50 FT PROT. CASING STICKUP (ACS) FLUSH FT TOC/TOR DIFFERENCE _____ FT

WELL DEPTH (BMP) 22 FT SCREEN LENGTH _____ FT PID AMBIENT AIR _____ PPM REFILL TIMER SETTING _____ SEC

WATER COLUMN 10.55 FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) 0.0082 GAL PID WELL MOUTH _____ PPM DISCHARGE TIMER SETTING _____ SEC

CALCULATED GAL/VOL (column X well diameter squared X 0.041) 1.7 GAL TOTAL VOL. PURGED 2.3 GAL DRAWDOWN/TOTAL PURGED 0.0035 PRESSURE TO PUMP _____ PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)										
TIME 3-5 Minutes	DIW (F-I) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
<u>1328</u>										BEGIN PURGING
<u>1333</u>	<u>11.49</u>	<u>200</u>	<u>14.10</u>	<u>0.893</u>	<u>6.76</u>	<u>2.71</u>	<u>69.14</u>	<u>40.4</u>		
<u>1338</u>	<u>11.50</u>	<u>200</u>	<u>13.58</u>	<u>0.899</u>	<u>6.79</u>	<u>2.47</u>	<u>11.78</u>	<u>37.0</u>		
<u>1343</u>	<u>11.50</u>	<u>200</u>	<u>13.80</u>	<u>0.888</u>	<u>6.81</u>	<u>1.88</u>	<u>3.86</u>	<u>40.1</u>		
<u>1348</u>	<u>11.50</u>	<u>200</u>	<u>13.68</u>	<u>0.880</u>	<u>6.87</u>	<u>1.42</u>	<u>2.06</u>	<u>31.7</u>		
<u>1353</u>	<u>11.50</u>	<u>200</u>	<u>13.52</u>	<u>0.864</u>	<u>6.80</u>	<u>1.13</u>	<u>0.84</u>	<u>40.5</u>		
<u>1358</u>	<u>11.50</u>	<u>200</u>	<u>13.65</u>	<u>0.854</u>	<u>6.87</u>	<u>1.08</u>	<u>1.26</u>	<u>32.9</u>		
<u>1403</u>	<u>11.50</u>	<u>200</u>	<u>13.46</u>	<u>0.839</u>	<u>6.86</u>	<u>1.08</u>	<u>5.67</u>	<u>27.8</u>		
<u>1406</u>	<u>11.50</u>	<u>200</u>	<u>13.45</u>	<u>0.839</u>	<u>6.85</u>	<u>0.84</u>	<u>2.54</u>	<u>23.0</u>		
<u>1409</u>	<u>11.50</u>	<u>200</u>	<u>13.46</u>	<u>0.837</u>	<u>6.86</u>	<u>0.79</u>	<u>1.86</u>	<u>24.1</u>		
<u>1412</u>	<u>11.50</u>	<u>200</u>	<u>13.47</u>	<u>0.837</u>	<u>6.82</u>	<u>0.77</u>	<u>1.38</u>	<u>28.9</u>		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

13 0.837 6.8 0.8 1.4 30

TEMP: nearest degree (ex. 10.1 = 10)
COND: 3 SF max (ex. 1333 = 1330, 0.096 = 0.096)
pH: nearest tenth (ex. 5.33 = 5.3)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: PERISTALTIC SUBSERSIBLE BLADDER WATERA OTHER _____

DECON FLUIDS USED: LIQUINOX DEIONIZED WATER POTABLE WATER NITRIC ACID HEXANE METHANOL OTHER _____

TUBING/PUMP BLADDER MATERIALS: SILICON TUBING TEFLON TUBING TEFLON LINED TUBING HDPE TUBING LDPE TUBING OTHER _____

S. SYEEL PUMP MATERIAL: PVC PUMP MATERIAL GEOPROBE SCREEN TEFLON BLADDER OTHER _____

EQUIPMENT USED: WL METER PID WQ METER TURB. METER PUMP OTHER _____ FILTERS NO. _____ TYPE _____

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<u>VOL</u>	<u>8260</u>	<u>N</u>	<u>HCL</u>	<u>3x40mL</u>	<u>Y</u>	<u>N</u>	

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES NO

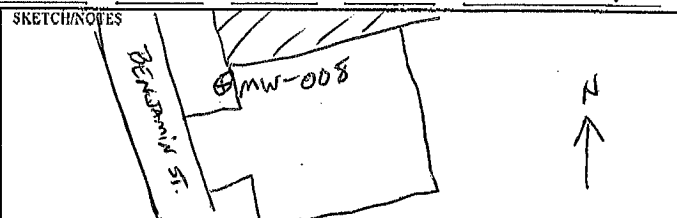
NO. PURGE METHOD UTILIZED: YES NO

NUMBER OF GALLONS GENERATED: 2.3

If yes, purged approximately 3 standing volume prior to sampling or _____ mL for this sample location.

Sampler Signature: [Signature] Print Name: Ryan Doney

Checked By: TDL Date: 5-21-13



LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME Diammel Cleaners	
PROJECT NUMBER 3612112309.02	
SAMPLE ID DCM00912013XX	SAMPLE TIME 10:55

LOCATION ID MW-009	DATE 5-7-2013
START TIME 10:10	END TIME 11:00
SITE NAME/NUMBER -	PAGE 1 OF 1

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

INITIAL DTW (BMP) **11.80** FT FINAL DTW (BMP) **11.81** FT PROT. CASING STICKUP (ACS) **FLUSH** FT TOC/TOR DIFFERENCE **-0.6** FT

WELL DEPTH (BMP) **20.8** FT SCREEN LENGTH **-** FT TID AMBIENT AIR **NA** PPM REFILL TIMER SETTING _____ SEC

WATER COLUMN **9.00** FT DRAWDOWN VOLUME **-** GAL RID WELL MOUTH **NA** PPM DISCHARGE TIMER SETTING _____ SEC

CALCULATED GAL/VOL **1.48** GAL TOTAL VOL. PURGED **~2.8** GAL DRAWDOWN/TOTAL PURGED _____ PSI

WELL INTEGRITY YES NO N/A
 CAP CASING
 LOCKED COLLAR

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (ft) 0.0-0.33 ft Drawdown	PURGE RATE (ml/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (µS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
10:16										BEGIN PURGING @ 350 - draw down
10:25	11.81	250	11.41	0.775	6.98	2.73	4.44	74.8	3' off	bottom
10:30	11.81	250	11.44	0.801	7.01	2.27	2.61	73.0		
10:35	11.81	250	11.39	0.822	7.03	1.90	1.63	68.9		
10:40	11.81	250	11.41	0.847	7.05	1.49	1.31	66.1		
10:45	11.81	250	11.39	0.869	7.06	1.34	0.82	63.1		
10:50	11.81	250	11.39	0.876	7.06	1.52	0.64	62.3		
10:53	11.81	250	11.42	0.835	7.07	1.80	0.55	61.0		
10:55	Sample									

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures)(SF)

11. 0.885 7.1 1.3 0.5 61

TEMP: 10°C max (ex. 10) = 10
 COND: 3 SF max (ex. 333) = 330, 0.096 = 0.090
 pH: 10.00 min (ex. 5.3) = 5.3
 REDOX: 3 SF max (ex. 3.3) = 3.3
 TURB: 3 SF max, normal (ex. 6.1) = 6.1
 ORP: 2 SF (ex. 41) = 41, 191 = 190

EQUIPMENT DOCUMENTATION

<p>TYPE OF PUMP</p> <input type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER <input checked="" type="checkbox"/> WATER <input type="checkbox"/> OTHER Geopump	<p>DECON FLUIDS USED</p> <input type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input type="checkbox"/> OTHER	<p>TUBING/PUMP BLADDER MATERIALS</p> <input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER	<p>EQUIPMENT USED</p> <input checked="" type="checkbox"/> WL METER <input type="checkbox"/> RID <input checked="" type="checkbox"/> WQ METER <input type="checkbox"/> TURB. METER <input type="checkbox"/> PUMP <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> FILTERS NO. TYPE
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ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> TCC UoA	8260B	N	Hcl, HAc	3x4ml	4		

PURGE OBSERVATIONS

MURK WATER CONTAINERIZED YES NO

NUM PURGE METHOD UTILIZED YES NO

NUMBER OF GALLONS GENERATED **~2.8G.**

If you purged approximately 1 standard volume prior to sampling or _____ ml. for this sample location.

SKETCH/NOTES



Sampler Signature: *Thomas D. Longley* Print Name: **Thomas D. Longley**

Checked By: *PS* Date: **5/22/13**

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME: Diamond Cleaners
 PROJECT NUMBER: 367-122 09.02
 SAMPLE ID: DCMW01012013XX SAMPLE TIME: 16:50

LOCATION ID: MW-010 DATE: 5-7-13
 START TIME: 16:05 END TIME: 17:00
 SITE NAME/NUMBER: DIAMOND CLEANERS PAGE: 1 OF 1

WELL DIAMETER (INCHES): 1 2 4 6 8 OTHER _____
 TUBING ID (INCHES): 1/8 1/4 3/8 1/2 5/8 OTHER _____
 MEASUREMENT POINT (MP): TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

WELL INTEGRITY
 YES NO N/A
 CAP _____
 CASING _____
 LOCKED _____
 COLLAR _____

INITIAL DTW (BMP): 12.35 FT FINAL DTW (BMP): 12.42 FT PROT. CASING STICKUP (ACS): FLUSH FT TOCTOR DIFFERENCE: 0.5 FT
 WELL DEPTH (BMP): 21.70 FT SCREEN LENGTH: _____ FT PID AMBIENT AIR: _____ PPM REFILL TIMER SETTING: _____ SEC
 WATER COLUMN: 9.35 FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041): 0.011 GAL PID WELL MOUTH: _____ PPM DISCHARGE TIMER SETTING: _____ SEC
 CALCULATED GAL/VOL (column X well diameter squared X 0.041): 1.5 GAL TOTAL VOL. PURGED: 12.7 GAL DRAWDOWN/ TOTAL PURGED: 0.005 PRESSURE TO PUMP: _____ PSI

12.35

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (unitless) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
16:14										BEGIN PURGING @ 250 mL/min.
16:18	12.41	250	11.70	0.727	7.18	8.00	15.0	97.8	3' up	off bottom
16:25	12.41	250	11.58	0.733	7.19	5.75	13.5	87.7		
16:30	12.42	250	11.16	0.735	7.19	5.52	10.06	82.0		
16:35	12.42	300	11.00	0.736	7.19	5.44	9.23	78.2		
16:40	12.42	270	10.99	0.736	7.19	5.2353	9.2629	75.5		5.37 D.O. / 6.29 NTU
16:45	12.42	270	11.01	0.738	7.20	5.21	5.49	72.4		
16:50	Sample									

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

11 0.738 7.2 5.2 5.5 72

RESH: 100% oxygen (ex. 10.1 = 10)
 CONCL: 3 SF max (ex. 333 = 330, 0.000 = 0.00)
 pH: nearest tenth (ex. 5.55 = 5.5)
 DO: nearest tenth (ex. 5.51 = 5.5)
 TURB: 3 SF max, nearest (ex. 6.19 = 6.2, 101 = 101)
 ORP: 2 SF (4.1 = 4.1, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
 PERISTALTIC
 SUBMERSIBLE
 BLADDER
 WATER
 OTHER: Geopump

DECON FLUIDS USED
 LIQUINOX
 DEIONIZED WATER
 POTABLE WATER
 NITRIC ACID
 HEXANE
 METHANOL
 OTHER

TUBING/PUMP BLADDER MATERIALS
 SILICON TUBING
 TEFLON TUBING
 TEFLON LINED TUBING
 HDPE TUBING
 LDPE TUBING
 OTHER

EQUIPMENT USED
 WL METER
 PID
 WQ METER
 TURB. METER
 PUMP
 OTHER
 FILTERS NO. _____ TYPE _____

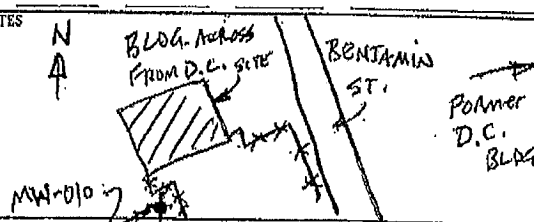
ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> VOCs	8260B	N	HCL, 4% HCL, 4%	3x40ml	Y		

PURGE OBSERVATIONS

PLASTIC WATER CONTAINERIZED: YES NO
 NON-PURGE METHOD UTILIZED: YES NO
 NUMBER OF GALLONS GENERATED: 12.2
 If you purged approximately 1 sampling volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES



Sampler Signature: J.H.D. [Signature] Print Name: Thomas D. Longley
 Checked By: [Signature] Date: 5/22/13



FIGURE 4.17
 LOW FLOW GROUNDWATER SAMPLING RECORD
 NYSDEC QUALITY ASSURANCE PROJECT PLAN

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME <i>Region + Dry Cleaners Groundwater Asso.</i>		LOCATION ID <i>MW-011</i>	DATE <i>5/6/13</i>
PROJECT NUMBER <i>36121133 09.02</i>		START TIME <i>1340</i>	END TIME <i>1419</i>
SAMPLE ID <i>DCMW0112013 XX</i>	SAMPLE TIME <i>1419</i>	SITE NAME/NUMBER	PAGE <i>1</i> OF <i>1</i>

WELL DIAMETER (INCHES)	<input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/> 8	OTHER	WELL INTEGRITY
TUBING ID (INCHES)	<input type="checkbox"/> 1/8 <input checked="" type="checkbox"/> 1/4 <input type="checkbox"/> 3/8 <input type="checkbox"/> 1/2 <input type="checkbox"/> 5/8	OTHER	CAP <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
MEASUREMENT POINT (MP)	<input checked="" type="checkbox"/> TOP OF RISER (TOR) <input checked="" type="checkbox"/> TOP OF CASING (TOG) <input type="checkbox"/> TDL	OTHER	CASING LOCKED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A
INITIAL DTW (BMP)	<i>14.41</i> FT	FINAL DTW (BMP)	<i>14.64</i> FT
WELL DEPTH (BMP)	<i>21.96</i> FT	SCREEN LENGTH	— FT
WATER COLUMN	<i>7.55</i> FT	DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041)	<i>0.038</i> GAL
CALCULATED GAL/VOL (column X well diameter squared X 0.041)	<i>1.24</i> GAL	TOTAL VOL. PURGED (mL per minute X total minutes X 0.00026 gal/mL)	<i>22.1</i> GAL
PROT. CASING STICKUP (ACS)	<i>Flush</i> FT	PID AMBIENT AIR	<i>0.0</i> PPM
PID WELL MOUTH	<i>0.0</i> PPM	DRAWDOWN/TOTAL PURGED	<i>0.018</i>
TOCTOR DIFFERENCE	— FT	DISCHARGE TIMER SETTING	— SEC
REFILL TIMER SETTING	— SEC	PRESSURE TO PUMP	— PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME	DTW (ft)	PURGE RATE (mL/min)	TEMP. (°C)	SP. CONDUCTANCE (mS/cm)	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
<i>1340</i>	<i>BEGIN PURGING</i>									
<i>1343</i>	<i>14.54</i>	<i>200</i>	<i>13.75</i>	<i>1163</i>	<i>5.43</i>	<i>9.78</i>	<i>16.78</i>	<i>254.6</i>		
<i>14.62</i>	<i>1348</i>	<i>200</i>	<i>13.25</i>	<i>1127</i>	<i>6.13</i>	<i>10.11</i>	<i>10.27</i>	<i>144.7</i>		
	<i>1353</i>	<i>200</i>	<i>12.59</i>	<i>1122</i>	<i>6.30</i>	<i>9.30</i>	<i>8.10</i>	<i>121.7</i>		
	<i>1358</i>	<i>200</i>	<i>12.62</i>	<i>1129</i>	<i>5.96</i>	<i>7.32</i>	<i>5.41</i>	<i>136.4</i>		
	<i>1403</i>	<i>200</i>	<i>12.71</i>	<i>1131</i>	<i>5.71</i>	<i>7.04</i>	<i>2.71</i>	<i>153.3</i>		
	<i>1407</i>	<i>200</i>	<i>12.73</i>	<i>1129</i>	<i>5.81</i>	<i>7.36</i>	<i>3.61</i>	<i>155.5</i>		
	<i>1410</i>	<i>200</i>	<i>12.71</i>	<i>1127</i>	<i>5.54</i>	<i>7.03</i>	<i>1.76</i>	<i>169.3</i>		
	<i>1413</i>	<i>200</i>	<i>12.66</i>	<i>1129</i>	<i>5.57</i>	<i>7.11</i>	<i>1.23</i>	<i>109.2</i>		
	<i>1416</i>	<i>200</i>	<i>12.56</i>	<i>1128</i>	<i>6.52</i>	<i>7.74</i>	<i>1.64</i>	<i>106.4</i>		
	<i>1419</i>	<i>200</i>	<i>12.58</i>	<i>1127</i>	<i>6.54</i>	<i>7.40</i>	<i>1.80</i>	<i>106.2</i>		<i>-Collect Sample</i>

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures)(SF)

13 *1230* *6.5* *7.4* *1.80* *110*

TEMP.: nearest degree (ex. 10.1) = 10
 COND.: 3 SF max (ex. 1333 + 3330, 0.006 = 0.006)
 pH: nearest tenth (ex. 5.53 = 5.5)
 DO: nearest tenth (ex. 3.51 = 3.5)
 TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
 OHP: 3 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

<input checked="" type="checkbox"/> PERISTALTIC SUBMERSIBLE BLADDER	<input checked="" type="checkbox"/> LIQUINOX DEIONIZED WATER	<input checked="" type="checkbox"/> SILICON TUBING	<input type="checkbox"/> S. STEEL PUMP MATERIAL	<input checked="" type="checkbox"/> WL METER
<input type="checkbox"/> WATERA	<input type="checkbox"/> POTABLE WATER	<input type="checkbox"/> TEFLON TUBING	<input type="checkbox"/> PVC PUMP MATERIAL	<input checked="" type="checkbox"/> PID
<input type="checkbox"/> OTHER	<input type="checkbox"/> NITRIC ACID	<input type="checkbox"/> TEFLON LINED TUBING	<input type="checkbox"/> GEOPRODE SCREEN	<input checked="" type="checkbox"/> WQ METER
<input type="checkbox"/> OTHER	<input type="checkbox"/> HEXANE	<input type="checkbox"/> HDPE TUBING	<input type="checkbox"/> TEFLON BLADDER	<input checked="" type="checkbox"/> TURB. METER
	<input type="checkbox"/> METHANOL	<input type="checkbox"/> LDPE TUBING	<input type="checkbox"/> OTHER	<input checked="" type="checkbox"/> PUMP
	<input type="checkbox"/> OTHER	<input type="checkbox"/> OTHER	<input type="checkbox"/> OTHER	<input type="checkbox"/> OTHER
				<input type="checkbox"/> FILTERS NO. <i>1</i> TYPE <i>1</i>

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> <i>DOC</i>	<i>8260</i>	<i>N</i>	<i>ITCC</i>	<i>3x40ml</i>	<input checked="" type="checkbox"/>	<i>N</i>	

PURGE OBSERVATIONS

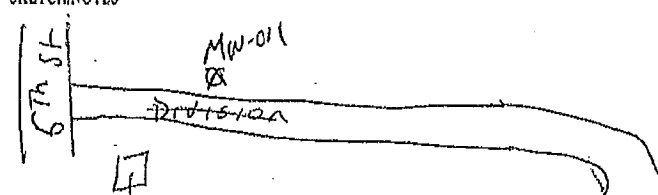
PURGE WATER CONTAINERIZED YES NO

NO. PURGE METHOD UTILIZED YES NO

NUMBER OF GALLONS GENERATED *22.1*

If you purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES



Sampler Signature: *[Signature]* Print Name: *Ryan Torrey*

Checked By: *TDL* Date: *5-21-13*

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME DIAMOND CLEANERS	
PROJECT NUMBER 361210209.02	
SAMPLE ID ATMW00112013XX	SAMPLE TIME 830

LOCATION ID ATMW-001	DATE 5/7/13
START TIME 748	END TIME 830
SITE NAME/NUMBER ---	PAGE 1 OF 1

WELL DIAMETER (INCHES) <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 4 <input type="checkbox"/> 6 <input type="checkbox"/> 8 <input type="checkbox"/> OTHER _____	WELL INTEGRITY YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/>
TUBING ID (INCHES) <input checked="" type="checkbox"/> 1/8 <input type="checkbox"/> 1/4 <input type="checkbox"/> 3/8 <input type="checkbox"/> 1/2 <input type="checkbox"/> 5/8 <input type="checkbox"/> OTHER _____	CAP <input checked="" type="checkbox"/>
MEASUREMENT POINT (MP) <input checked="" type="checkbox"/> TOP OF RISER (TOR) <input checked="" type="checkbox"/> TOP OF CASING (TOC) <input checked="" type="checkbox"/> OTHER _____	LOCKED <input checked="" type="checkbox"/>
INITIAL DTW (BNIP) 14.82 FT	FINAL DTW (BNIP) 15.14 FT
WELL DEPTH (BNIP) 18.9 FT	SCREEN LENGTH _____ FT
WATER COLUMN 4.08 FT	DRAWDOWN VOLUME (initial DTW - final DTW X well diam. squared X 0.041) 0.052 GAL
CALCULATED GAL/VOL (column X well diameter squared X 0.041) 0.67 GAL	TOTAL VOL. PURGED 2.16 GAL
PROT. CASING STICKUP (AGS) Flush FT	PID AMBIENT AIR _____ PPM
PID WELL MOUTH _____ PPM	DRAWDOWN/TOTAL PURGED 0.024
TOC/TOR DIFFERENCE _____ FT	REFILL TIMER SETTING _____ SEC
DISCHARGE TIMER SETTING _____ SEC	PRESSURE TO PUMP _____ PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (± 3 degrees)	SP. CONDUCTANCE (mS/cm) (± 3%)	pH (units) (± 0.1 units)	DISS. O ₂ (mg/L) (± 10%)	TURBIDITY (ntu) (± 10% <10 ntu)	REDOX (mv) (± 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
748	BEGIN PURGING									
754	15.14	200	10.96	0.896	6.50	6.74	37.06	-116.4	16.5	
759	15.14	200	10.93	0.923	6.51	0.23	29.83	-106.1	16.5	
804	15.14	200	11.07	0.940	6.50	0.23	19.52	-102.9	16.5	
809	15.14	200	11.06	0.950	6.38	0.26	11.70	-85.0	16.5	
814	15.14	200	11.05	0.956	6.29	0.22	8.18	-72.0	16.5	
817	15.14	200	11.25	0.956	6.27	0.24	7.47	-87.9	16.5	
820	15.14	200	11.31	0.959	6.27	0.23	6.28	-89.7	16.5	
823	15.14	200	11.34	0.960	6.26	0.19	4.23	-90.1	16.5	
826	15.14	200	11.33	0.962	6.31	0.17	3.94	-95.8	16.5	
829	15.14	200	11.29	0.965	6.25	0.16	2.89	-91.1	16.5	

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

11 0.965 6.3 0.2 2.9 -91

TEMP: nearest degree (ex. 10.1 - 10)
COND: 3 SF max (ex. 3333) = 3330, 0.695 = 0.696
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
DUP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER <input type="checkbox"/> WATERA <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	DECON FLUIDS USED <input checked="" type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input type="checkbox"/> OTHER _____	TUBING/PUMP BLADDER MATERIALS <input type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input checked="" type="checkbox"/> HDPE TUBING <input type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	EQUIPMENT USED <input checked="" type="checkbox"/> WL METER <input type="checkbox"/> PID <input checked="" type="checkbox"/> WQ METER <input checked="" type="checkbox"/> TURB. METER <input type="checkbox"/> PUMP <input type="checkbox"/> OTHER _____ <input type="checkbox"/> FILTERS NO. _____ TYPE _____
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ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
VOL	8260	N	HCL	3x40ml	4	N	

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	NUMBER OF GALLONS GENERATED ~2.16
NO. OF PURGE METHOD UTILIZED <input type="checkbox"/> YES <input type="checkbox"/> NO	If you purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES



Sampler Signature: *[Signature]* Print Name: **Ryan Jorney**
 Checked By: **TDL** Date: **5-21-13**

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME: DIAMOND CLOWERS
 PROJECT NUMBER: 3612112-09.02
 SAMPLE ID: ATMW00212013XX SAMPLE TIME: 17:35

LOCATION ID: ATMW-002 DATE: 5-6-13
 START TIME: 16:40 END TIME: 17:40
 SITE NAME/NUMBER: ASSOC. TEXTILE PAGE: 1 OF 1

*No Puffs
To Anchor Down
The Well Cover*

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____
 TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____
 MEASUREMENT POINT (MIP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____
 INITIAL DTW (BMF): 14.30 FT FINAL DTW (BMF): 14.91 FT PROT. CASING STICKUP (ACS): FLUSH FT
 WELL DEPTH (DMF): ~18.80 FT SCREEN LENGTH: _____ FT PID AMBIENT AIR: 0.0 PPM
 WATER COLUMN: 4.5 FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041): 0.10 GAL
 CALCULATED GALVOL: 0.74 GAL TOTAL VOL. PURGED: ~2.1 GAL DRAWDOWN/TOTAL PURGED: 0.047
(column X well diameter squared X 0.041) (ml. per minute X total minutes X 0.00026 gal/ml)

WELL INTEGRITY: YES NO N/A
 CAP LOCKED: YES NO N/A
 COLLAR: YES NO N/A
 TOC/TOR DIFFERENCE: -0.6 FT
 REFILL TIMER SETTING: _____ SEC
 DISCHARGE TIMER SETTING: _____ SEC
 PRESSURE TO PUMP: _____ PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (F1) 0.0-0.33 R Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (µS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
<u>16:48</u>		<u>BEGIN PURGING</u>								
		<u>START @ 300 ml - sealed back to 220</u>								
<u>16:55</u>	<u>14.95</u>	<u>220</u>	<u>12.93</u>	<u>0.720</u>	<u>6.42</u>	<u>1.51</u>	<u>17.62</u>	<u>-61.9</u>	<u>3' off bottom</u>	
<u>17:00</u>	<u>14.95</u>	<u>220</u>	<u>12.85</u>	<u>0.779</u>	<u>6.40</u>	<u>0.34</u>	<u>19.47</u>	<u>-70.3</u>		<u>FINE SUSPENDED BLACK PEECES</u>
<u>17:05</u>	<u>14.95</u>	<u>220</u>	<u>12.65</u>	<u>0.881</u>	<u>6.44</u>	<u>0.32</u>	<u>4.65</u>	<u>-75.8</u>		
<u>17:10</u>	<u>14.95</u>	<u>220</u>	<u>12.56</u>	<u>0.947</u>	<u>6.50</u>	<u>0.23</u>	<u>8.60</u>	<u>-76.7</u>		
<u>17:20</u>	<u>14.89</u>	<u>200</u>	<u>12.60</u>	<u>1.059</u>	<u>6.60</u>	<u>0.17</u>	<u>5.35</u>	<u>-77.2</u>		
<u>17:25</u>	<u>14.84</u>	<u>200</u>	<u>12.69</u>	<u>1.101</u>	<u>6.61</u>	<u>0.27</u>	<u>9.49</u>	<u>-73.7</u>		
<u>17:30</u>	<u>14.91</u>	<u>210</u>	<u>12.53</u>	<u>1.110</u>	<u>6.60</u>	<u>0.26</u>	<u>7.86</u>	<u>-72.5</u>		
<u>17:35</u>		<u>Sample</u>								

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures)(SF)

13 1.11 6.6 0.3 7.9 -73

TEMP: nearest degree (ex. 10.1 = 10)
 COND: 3 SF max (ex. 3333 = 3330, 0.096 = 0.096)
 pH: nearest tenth (ex. 5.51 = 5.5)
 DO: nearest tenth (ex. 3.31 = 3.3)
 TURB: 3 SF max, nearest tenth (6.19 = 6.3, 101 = 101)
 ORP: 2 SF (41 = 41, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: PERISTALTIC SUBMERSIBLE BLADDER
 WATER: WATER OTHER Geopump
 DECON FLUIDS USED: LIQUINOX DEIONIZED WATER POTABLE WATER NITRIC ACID HEXANE METHANOL OTHER _____
 TUBING/PUMP/BLADDER MATERIALS: SILICON TUBING TEFLON TUBING TEFLON LINED TUBING HDPE TUBING LDPE TUBING OTHER _____
 S. STEEL PUMP MATERIAL PVC PUMP MATERIAL GEOPROBE SCREEN TEFLON BLADDER OTHER _____
 EQUIPMENT USED: WEL METER PID VFO METER TURB. METER PUMP OTHER _____
 FILTERS: NO TYPE _____

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<input checked="" type="checkbox"/> <u>VOC</u>	<u>8260B</u>	<u>N</u>	<u>AcH, 4c</u>	<u>3x40ml</u>	<u>4</u>		

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES NO
 NUMBER OF GALLONS GENERATED: ~2.1
 NUMBER OF METHODS UTILIZED: YES NO
If you purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES



Sampler Signatures: Th.D. Longley Print Name: Thomas D. Longley
 Checked By: [Signature] Date: 5-6-13 5/22/13



*Musty "old" FUEL ODOR
 Looks Like well may be flooded IN HIGH WATER
 LOT of AIR BUBBLES comes up line*

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
302112209.02

SAMPLE ID
ATMW00312013XX

SAMPLE TIME
16:25

LOCATION ID
ATMW-003

DATE
5-6-13

START TIME
15:30

END TIME
16:25

SITE NAME/NUMBER
Assoc. Twp. #10

PAGE
1 of 1

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

WELL INTEGRITY

YES NO N/A

CAP

CASING LOCKED

COLLAR

INITIAL DTW (BMP) **14.61** FT FINAL DTW (BMP) **14.72** FT PROT. CASING STICKUP (AGS) **Flush** FT TOC/TOR DIFFERENCE **-0.35** FT

WELL DEPTH (BMP) **19.90** FT SCREEN LENGTH **2** FT PID AMBIENT AIR **0.0** PPM REFILL TIMER SETTING _____ SEC

WATER COLUMN **5.29** FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) **0.018** GAL PID WELL MOUTH **0.0** PPM DISCHARGE TIMER SETTING _____ SEC

CALCULATED CALVOL **0.87** OAL TOTAL VOL. PURGED **~3.6** OAL DRAWDOWN/TOTAL PURGED **0.0065** PSI PRESSURE TO PUMP _____ PSI

(column X well diameter squared X 0.041) (mL per minute X total minutes X 0.00026 gal/mL)

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (F1) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (unit) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
15:35		BEGIN PURGING @ 300 ml/min.								
15:45	14.71	300	11.20	0.443	6.48	5.54	24.36	176.8	3'	up from bottom
15:55	14.72	300	11.33	0.493	6.72	3.69	18.80	166.7		
16:00	14.72	300	11.36	0.514	6.74	3.27	4.73	164.1		
16:05	14.72	300	11.33	0.532	6.77	3.11	16.14	163.9		
16:10	14.72	300	11.38	0.536	6.80	3.05	1.52	163.7		
16:15	14.72	300	11.32	0.541	6.79	2.89	0.00	164.2		
16:20	14.72	300	11.28	0.544	6.79	2.84	0.00	164.8		
		Sample @ 16:25								

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures)(SF)

11 0.544 6.8 2.8 0.00 160

TEMP. in degrees (see 101 - 10)
COND. 3 SF (see 333 = 3330, 0.095 = 0.095)
pH: nearest tenth (see 331 - 33)
DO: nearest tenth (see 331 - 33)
TURB: 3 SF (see nearest tenth (6.19 = 6.2), (0.1 = 0.1)
O₂: 2 SF (4.1 = 4.1, 1.01 = 1.0)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: PERISTALTIC SUBMERSIBLE BLADDER

DECON FLUIDS USED: DIQUINOX DEIONIZED WATER POTABLE WATER NITRIC ACID HEXANE METHANOL OTHER _____

TUBING/PUMP BLADDER MATERIALS: SILICON TUBING TEFLON TUBING TEFLON LINED TUBING HDPE TUBING LDPE TUBING OTHER _____

EQUIPMENT USED: WEL METER PID 1/4" METER TURB. METER PUMP OTHER _____ FILTERS NO. TYPE _____

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
VOCs	8260B	N	HCL, 4°C 3x40ml		g		

PURGE OBSERVATIONS

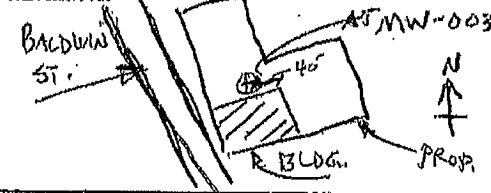
PURGE WATER CONTAINERIZED YES NO

NUMBER OF GALLONS GENERATED **~3.6**

NUMBER OF METHODS UTILIZED YES NO

If you purged approximately 1 standing volume prior to sampling or _____ mL for this sample location

SKETCH/NOTES



Sampler Signature: *Thomas D. Longley* Print Name: **Thomas D. Longley**

Checked By: *[Signature]* Date: **5/22/13**

MACTEC
511 Congress Street, Portland Maine 04101

PLACED NEW SILASTIC TUBING & 1/4" LDPE DEDICATED TO THE WELL

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
36121122 09.02

SAMPLE ID
ATMW004/2013 XX

SAMPLE TIME
0840

LOCATION ID
ATMW-004

DATE
5-7-13

START TIME
07:30

END TIME
08:50

SITE NAME/NUMBER
Assoc. Textile

PAGE
1 OF 1

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

WELL INTEGRITY

YES	NO	N/A
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

INITIAL DTW (BMP) **14.69** FT

FINAL DTW (BMP) **14.77** FT

PROT. CASING STICKUP (ACS) **Flush** FT

TOCTOR DIFFERENCE **-0.4** FT

WELL DEPTH (BMP) **17.7** FT

SCREEN LENGTH _____ FT

PID AMBIENT AIR _____ PPM

REFILL TIMER SETTING _____ SEC

WATER COLUMN **3.01** FT

DRAWDOWN VOLUME **0.013** GAL

PID WELL MOUTH _____ PPM

DISCHARGE TIMER SETTING _____ SEC

CALCULATED GAL/VOL **1.97** GAL

TOTAL VOL. PURGED **~3.9** GAL

DRAWDOWN/TOTAL PURGED **0.07**

PRESSURE TO PUMP _____ PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (ft) 00-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
0744										BEGIN PURGING @ 320 ml/min
0755	14.77	300	10.54	0.943	6.61	0.72	18.9	-102.2	1' off	bottom
0800	14.77	300	10.48	0.948	6.58	0.44	14.3	-125.3		
0810	14.77	300	10.58	0.951	6.55	0.37	10.2	-141.0		
0810	14.77	300	10.68	0.966	6.54	0.37	5.99	-112.0		
0815	14.77	300	10.74	0.977	6.53	0.33	5.92	-92.8		
0820	14.77	300	10.75	0.986	6.53	0.26	3.87	-112.6		
0825	14.77	300	10.84	0.989	6.53	0.21	2.51	-108.5		
0830	14.77	300	10.91	0.995	6.53	0.19	1.96	-107.8		
0835	14.77	300	10.93	0.996	6.53	0.19	1.96	-106.4		
0840	Sample									

TDL 0806

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures)(SF)

11 0.996 6.5 0.2 2.0 110

TEMP: mean of 3 (ex. 10.1 - 10)
COND: 3 SF max (ex. 3.33) = 3.330, 0.095 = 0.095
pH: record both (ex. 3.55 = 3.55)
DO: record both (ex. 2.51 = 2.51)
TURB: 3 SF max, record both (6.19 = 6.2, 101 = 101)
ORP: 3 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

<p>TYPE OF PUMP</p> <p><input checked="" type="checkbox"/> PERISTALTIC</p> <p><input type="checkbox"/> SUBMERSIBLE</p> <p><input type="checkbox"/> BLADDER</p> <p>WATER</p> <p><input checked="" type="checkbox"/> OTHER Geopump</p> <p>OTHER _____</p>	<p>DECON FLUIDS USED</p> <p><input checked="" type="checkbox"/> LIQUINOX</p> <p><input type="checkbox"/> DIIONIZED WATER</p> <p><input type="checkbox"/> POTABLE WATER</p> <p><input type="checkbox"/> NITRIC ACID</p> <p><input type="checkbox"/> HEXANE</p> <p><input type="checkbox"/> METHANOL</p> <p><input type="checkbox"/> OTHER _____</p>	<p>TUBING/PUMP BLADDER MATERIALS</p> <p><input checked="" type="checkbox"/> SILICON TUBING</p> <p><input type="checkbox"/> TFLON TUBING</p> <p><input type="checkbox"/> TFLON LINED TUBING</p> <p><input type="checkbox"/> HDPE TUBING</p> <p><input type="checkbox"/> LDPE TUBING</p> <p><input type="checkbox"/> OTHER _____</p>	<p>EQUIPMENT USED</p> <p><input checked="" type="checkbox"/> WL METER</p> <p><input type="checkbox"/> PID</p> <p><input checked="" type="checkbox"/> WQ METER</p> <p><input checked="" type="checkbox"/> TURB. METER</p> <p><input type="checkbox"/> PUMP</p> <p><input type="checkbox"/> OTHER _____</p> <p>FILTERS NO. <input checked="" type="checkbox"/> TYPE _____</p>
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ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
VOLTA	8260B	N	HCR 92	3x40ml	y		

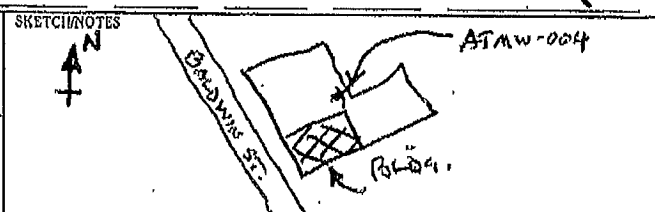
PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO

NO. PURGE METHOD UTILIZED YES NO

NUMBER OF GALLONS GENERATED **~3.9**

If yes, purge approximately 1 standing volume prior to sampling or _____ mL for this sample location.



Sampler Station **Jh. D. Ingle** Print Name: **Thomas D. Ingle**

Checked By: **R-29** Date: **5/22/13**



OLD "Fuel-Like" odor

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME <i>Diamond Cleaners</i>	
PROJECT NUMBER <i>3612112209.02</i>	
SAMPLE ID <i>ATMW00512013XX</i>	SAMPLE TIME <i>1715</i>

LOCATION ID <i>ATMW-005</i>	DATE <i>5/6/13</i>
START TIME <i>1632</i>	END TIME <i>1715</i>
SITE NAME/NUMBER _____	PAGE <i>1</i> OF <i>1</i>

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

INITIAL DTW (BMP) *13.62* FT FINAL DTW (BMP) *14.72* FT PROT. CASING STICKUP (AGS) *FLUSH* FT

WELL DEPTH (BMP) *19.50* FT SCREEN LENGTH _____ FT PID AMBIENT AIR *0.0* PPM

WATER COLUMN *5.88* FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) *2.03* GAL

CALCULATED GALVOL (column X well diameter squared X 0.041) *3.84* GAL TOTAL VOL. PURGED *2.5* GAL DRAWDOWN/TOTAL PURGED *0.812*

WELL INTEGRITY

	YES	NO	N/A
CAP	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CASING	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LOCKED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COLLAR	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

TOC/TOR DIFFERENCE _____ FT

REFILL TIMER SETTING _____ SEC

DISCHARGE TIMER SETTING _____ SEC

PRESSURE TO PUMP _____ PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (F1) 0.0-0.33 R Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% < 10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
<i>1632</i>										<i>BEGIN PURGING</i>
<i>1637</i>	<i>14.31</i>	<i>300</i>	<i>13.58</i>	<i>760</i>	<i>6.56</i>	<i>6.54</i>	<i>5.57</i>	<i>69.3</i>	<i>17.50</i>	
<i>1642</i>	<i>14.85</i>	<i>300</i>	<i>13.35</i>	<i>762</i>	<i>6.68</i>	<i>6.39</i>	<i>4.74</i>	<i>59.1</i>	<i>17.50</i>	
<i>1647</i>	<i>15.44</i>	<i>300</i>	<i>13.19</i>	<i>762</i>	<i>6.74</i>	<i>6.40</i>	<i>7.03</i>	<i>62.0</i>	<i>17.50</i>	
<i>1652</i>	<i>16.89</i>	<i>300</i>	<i>13.49</i>	<i>760</i>	<i>6.79</i>	<i>6.41</i>	<i>11.53</i>	<i>54.5</i>	<i>17.50</i>	
<i>1657</i>	<i>16.24</i>	<i>250</i>	<i>13.51</i>	<i>763</i>	<i>6.80</i>	<i>6.34</i>	<i>7.90</i>	<i>55.6</i>	<i>17.50</i>	
<i>1702</i>	<i>16.40</i>	<i>175</i>	<i>13.30</i>	<i>764</i>	<i>6.80</i>	<i>6.50</i>	<i>9.80</i>	<i>47.7</i>	<i>17.50</i>	
<i>1707</i>	<i>16.55</i>	<i>175</i>	<i>13.50</i>	<i>766</i>	<i>6.84</i>	<i>6.46</i>	<i>12.70</i>	<i>43.9</i>	<i>17.50</i>	
<i>1710</i>	<i>16.72</i>	<i>175</i>	<i>13.77</i>	<i>763</i>	<i>6.82</i>	<i>6.31</i>	<i>15.06</i>	<i>45.4</i>	<i>17.50</i>	
	<i>Collect Sample @ 1715</i>									
			<i>14</i>	<i>763</i>	<i>6.8</i>	<i>6.3</i>	<i>15.1</i>	<i>45</i>		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

14 763 6.8 6.3 15.1 45

TEMP: nearest degree (ex. 10.1 = 10)
COND: 3 SF max (ex. 1333 = 1330, 0.006 = 0.006)
pH: nearest tenth (ex. 5.51 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 2 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

<p>TYPE OF PUMP</p> <input checked="" type="checkbox"/> PERISTALTIC <input type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> BLADDER <input type="checkbox"/> WATERBA <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<p>DECON FLUIDS USED</p> <input checked="" type="checkbox"/> LIQUINOX <input type="checkbox"/> DEIONIZED WATER <input type="checkbox"/> POTABLE WATER <input type="checkbox"/> NITRIC ACID <input type="checkbox"/> HEXANE <input type="checkbox"/> METHANOL <input type="checkbox"/> OTHER _____	<p>TUBING/PUMP BLADDER MATERIALS</p> <input checked="" type="checkbox"/> SILICON TUBING <input type="checkbox"/> TEFLON TUBING <input type="checkbox"/> TEFLON LINED TUBING <input type="checkbox"/> HDPE TUBING <input checked="" type="checkbox"/> LDPE TUBING <input type="checkbox"/> OTHER _____ <input type="checkbox"/> OTHER _____	<p>EQUIPMENT USED</p> <input checked="" type="checkbox"/> WL METER <input checked="" type="checkbox"/> PID <input checked="" type="checkbox"/> WQ METER <input checked="" type="checkbox"/> TURB. METER <input checked="" type="checkbox"/> PUMP <input type="checkbox"/> OTHER _____ <input type="checkbox"/> FILTERS NO. <input checked="" type="checkbox"/> TYPE _____
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ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<i>VOC</i>	<i>8260</i>	<i>N</i>	<i>HCL</i>	<i>3x40ml</i>	<i>✓</i>	<i>N</i>	

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO

NO. PIPES METHOD/D UTILIZED YES NO

NUMBER OF GALLONS GENERATED *2.5*

If you purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

Atmw-005 Bottom St.

Assoc. TEXTILE BLDG.

Sampler Signature: *[Signature]* Print Name: *Ryan Jones*

Checked By: *TDL* Date: *5-21-13*



LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
3612112209.02

SAMPLE ID
ATMW00612013XX

SAMPLE TIME
1526

LOCATION ID
ATMW006

DATE
5/16/13

START TIME
1457

END TIME
1526

SITE NAME/NUMBER
PAGE
1 OF 1

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

INITIAL DTW (BMP) *13.88* FT FINAL DTW (BMP) *15.42* FT PROT. CASING STICKUP (AGS) *Flush* FT TOCTOR DIFFERENCE *0.50* FT

WELL DEPTH (BMP) *19.01* FT SCREEN LENGTH *N/A* FT PID AMBIENT AIR *0.0* PPM REFILL TIMER SETTING _____ SEC

WATER COLUMN *5.13* FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) *1.06* GAL PID WELL MOUTH *0.0* PPM DISCHARGE TIMER SETTING _____ SEC

CALCULATED GAL/VOL (column X well diameter squared X 0.041) *0.84* GAL TOTAL VOL. PURGED *1.69* GAL DRAWDOWN/ TOTAL PURGED *~0.6* PRESSURE TO PUMP _____ PSI

WELL INTEGRITY

YES	NO	N/A
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME	DTW (ft)	PURGE RATE	TEMP. (C)	SP. CONDUCTANCE	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
<i>1457</i>										<i>BEGIN PURGING</i>
<i>1500</i>	<i>14.29</i>	<i>250</i>	<i>13.40</i>	<i>1644</i>	<i>6.42</i>	<i>0.83</i>	<i>22.70</i>	<i>-72.8</i>	<i>18.0</i>	
<i>1505</i>	<i>14.46</i>	<i>250</i>	<i>13.28</i>	<i>1640</i>	<i>6.28</i>	<i>0.47</i>	<i>16.84</i>	<i>-52.7</i>	<i>18.0</i>	
<i>1510</i>	<i>14.57</i>	<i>250</i>	<i>13.09</i>	<i>1631</i>	<i>6.33</i>	<i>0.31</i>	<i>19.27</i>	<i>-64.2</i>	<i>18.0</i>	
<i>1515</i>	<i>15.14</i>	<i>250</i>	<i>13.19</i>	<i>1624</i>	<i>6.36</i>	<i>0.30</i>	<i>7.09</i>	<i>-67.6</i>	<i>18.0</i>	
<i>1520</i>	<i>15.35</i>	<i>250</i>	<i>13.31</i>	<i>1632</i>	<i>6.35</i>	<i>0.29</i>	<i>6.71</i>	<i>-62.7</i>	<i>18.0</i>	
<i>1523</i>	<i>15.42</i>	<i>250</i>	<i>13.34</i>	<i>1632</i>	<i>6.39</i>	<i>0.32</i>	<i>4.43</i>	<i>-65.7</i>	<i>18.0</i>	<i>collect sample @ 1526</i>
1526										

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

13 *1630* *6.4* *0.3* *21.43* *-66*

TEMP: nearest degree (ex. 10.1 = 10)
COND: 3 SF max (ex. 333) = 330, 0.695 = 0.696
pH: nearest tenth (ex. 5.53 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
ORP: 3 SF (44.1 = 44, 191 = 190)

EQUIPMENT DOCUMENTATION

<input checked="" type="checkbox"/> PERISTALTIC SUBMERSIBLE BLADDER	<input checked="" type="checkbox"/> LIQUINOX DEIONIZED WATER	<input type="checkbox"/> SILICON TUBING	<input type="checkbox"/> S. STEEL PUMP MATERIAL	<input checked="" type="checkbox"/> WL METER
<input type="checkbox"/> WATERA	<input type="checkbox"/> POTABLE WATER	<input type="checkbox"/> TEFLON TUBING	<input type="checkbox"/> PVC PUMP MATERIAL	<input checked="" type="checkbox"/> PID
<input type="checkbox"/> OTHER	<input type="checkbox"/> NITRIC ACID	<input type="checkbox"/> TEFLON LINED TUBING	<input type="checkbox"/> GEOPROBE SCREEN	<input checked="" type="checkbox"/> WQ METER
<input type="checkbox"/> OTHER	<input type="checkbox"/> HEXANE	<input type="checkbox"/> HDPE TUBING	<input type="checkbox"/> TEFLON BLADDER	<input checked="" type="checkbox"/> TURB. METER
	<input type="checkbox"/> METHANOL	<input type="checkbox"/> LDPE TUBING	<input type="checkbox"/> OTHER	<input checked="" type="checkbox"/> PUMP
	<input type="checkbox"/> OTHER	<input type="checkbox"/> OTHER	<input type="checkbox"/> OTHER	<input type="checkbox"/> OTHER
				<input type="checkbox"/> FILTERS NO. <i>✓</i> TYPE _____

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<i>VOC</i>	<i>8260</i>	<i>N</i>	<i>HCC</i>	<i>3x40ml</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO

NUMBER OF GALLONS GENERATED *~1.7*

NUMBER OF PURGE METHOD UTILIZED YES NO

If you purge, app. evaluate 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

DATAW-006

Assoc. Textile Blk.

N ↑

Sampler Signature: *FJD* Print Name: *Ryan Jorney*

Checked By: *TDL* Date: *5-31-13*

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners & Assoc. Text.

PROJECT NUMBER
3652112209.02

SAMPLE ID
ATMWOOD12013 XK

SAMPLE TIME
15:10

LOCATION ID
ATMWOOD1

DATE
5-6-13

START TIME
13:27

END TIME
15:10

SITE NAME/NUMBER
ASSOC. TEXTILE

PAGE
1 of 1

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

INITIAL DTW (BNP) *14.32* FT FINAL DTW (BNP) *14.31* FT PROT. CASING STICKUP (AGS) _____ FT TOCTOR DIFFERENCE *-0.50* FT

WELL DEPTH (BNP) *19.15* FT SCREEN LENGTH _____ FT PID AMBIENT AIR *NA* PPM REPIII TIMER SETTING _____ SEC

WATER COLUMN *4.83* FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) *0.0044* GAL PID WELL MOUTH *NA* PPM DISCHARGE TIMER SETTING _____ SEC

CALCULATED GAL/VOL (column X well diameter squared X 0.041) *3.57* GAL TOTAL VOL. PURGED *4.44* GAL DRAWDOWN/TOTAL PURGED _____ PSI

WELL INTEGRITY YES NO N/A
CAP CASING LOCKED
COLLAR

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (ft) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
<i>13:56</i>										BEGIN PURGING
<i>13:56</i>	<i>14:31</i>	<i>250</i>	<i>12.86</i>	<i>1.015</i>	<i>6.44</i>	<i>1.56</i>	<i>182.3</i>	<i>54.6</i>	<i>3'</i>	<i>up from bottom</i>
<i>14:05</i>	<i>14:32</i>	<i>260</i>	<i>12.88</i>	<i>0.890</i>	<i>6.18</i>	<i>0.45</i>	<i>80.58</i>	<i>17.9</i>		
<i>14:12</i>	<i>14:32</i>	<i>320</i>	<i>12.88</i>	<i>0.867</i>	<i>6.47</i>	<i>1.38</i>	<i>74.32</i>	<i>-9.3</i>		<i>Δ speed</i>
<i>14:20</i>	<i>14:32</i>	<i>300</i>	<i>12.02</i>	<i>0.873</i>	<i>6.87</i>	<i>0.35</i>	<i>62.28</i>	<i>-19.4</i>		
<i>14:30</i>	<i>14:32</i>	<i>300</i>	<i>11.93</i>	<i>0.882</i>	<i>6.65</i>	<i>0.30</i>	<i>39.59</i>	<i>-27.0</i>		
<i>14:35</i>	<i>14:32</i>	<i>300</i>	<i>12.03</i>	<i>0.891</i>	<i>6.68</i>	<i>0.23</i>	<i>26.29</i>	<i>-29.4</i>		
<i>14:45</i>	<i>14:32</i>	<i>300</i>	<i>11.90</i>	<i>0.903</i>	<i>6.71</i>	<i>0.21</i>	<i>21.40</i>	<i>-32.4</i>		
<i>14:55</i>	<i>14:31</i>	<i>320</i>	<i>11.96</i>	<i>0.906</i>	<i>6.73</i>	<i>0.18</i>	<i>18.80</i>	<i>-33.5</i>		
<i>15:00</i>	<i>14:31</i>	<i>330</i>	<i>11.81</i>	<i>0.906</i>	<i>6.76</i>	<i>0.20</i>	<i>16.69</i>	<i>-32.4</i>		
<i>15:05</i>	<i>14:31</i>	<i>330</i>	<i>11.98</i>	<i>0.910</i>	<i>6.75</i>	<i>0.20</i>	<i>10.11</i>	<i>-33.4</i>		
<i>15:10</i>	<i>14:31</i>	<i>330</i>	<i>11.96</i>	<i>0.911</i>	<i>6.76</i>	<i>0.20</i>	<i>10.08</i>	<i>-33.0</i>		

Sample FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures)(SF)

TEMP. (°C) *12* SP. CONDUCTANCE (mS/cm) *0.911* pH (units) *6.8* DISS. O₂ (mg/L) *0.2* TURBIDITY (ntu) *10.1* REDOX (mv) *-33*

TEMP. (°C) max (ex. 10.1 - 10) min (ex. 3.33 - 3.30) 0.0% = 0.0%
pH: max (ex. 3.3 - 3.5) min (ex. 3.51 - 3.5)
DISS. O₂: max (ex. 3.51 - 3.5) min (ex. 3.51 - 3.5)
TURBIDITY: max (ex. 6.19 - 6.2, 10) = 10.1
REDOX: max (ex. 4.1 - 4.4, 10) = 10.1

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: PERISTALTIC SUBMERSIBLE BLADDER

DECON FLUIDS USED: LIQUINOX DEIONIZED WATER POTABLE WATER NITRIC ACID HEXANE METHANOL OTHER _____

TUBING/PUMP/BLADDER MATERIALS: SILICONTUBING TEFLON TUBING TEFLON LINED TUBING HDPE TUBING LDPE TUBING OTHER _____

EQUIPMENT USED: W/L METER PID WQ METER TURB. METER PUMP OTHER _____ FILTERS NO. _____ TYPE _____

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<i>8260B VOC</i>	<i>8260 B</i>	<i>-</i>	<i>HCL, 40C</i>	<i>3x40ml</i>	<i>yes</i>	<i>-</i>	<i>-</i>

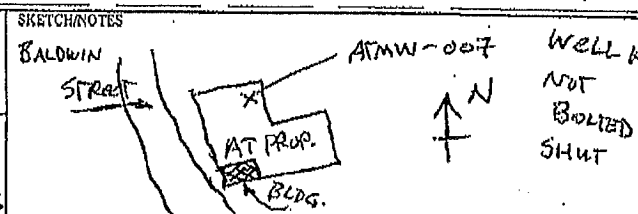
PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED: YES NO

NO. PI RIF METHOD UTILIZED: YES NO

NUMBER OF GALLONS GENERATED: _____

If yes, purge approximately 1 standard volume prior to sampling or _____ mL for this sample location.



Sampler Signature: *Thomas D. Hughes* Print Name: *Thomas D. Hughes*

Checked By: *[Signature]* Date: *5-6-13 5/22/13*

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
Diamond Cleaners

PROJECT NUMBER
3612112209.02

SAMPLE ID
ATMW008/2013XX

SAMPLE TIME
10:00

LOCATION ID
ATMW008

DATE
5-7-13

START TIME
0900

END TIME
1005

SITE NAME/NUMBER
Assoc. Tapfile

PAGE
1 OF 1

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

WELL INTEGRITY
YES NO N/A

CAP

CASING

LOCKED COLLAR

INITIAL DTW (BMP) **14.20** FT FINAL DTW (BMP) **14.26** FT

WELL DEPTH (BMP) **19.1** FT SCREEN LENGTH **—** FT

WATER COLUMN **4.9** FT DRAWDOWN VOLUME **0.010** GAL

CALCULATED GAL/VOL **3.2** GAL (column X well diameter squared X 0.041)

TOTAL VOL. PURGED **27.7** GAL (mL per minute X total minutes X 0.00026 gal/mL)

PROT. CASING STICKUP (AGS) **PLUS SET TOL 20.75** FT

TOCTOR DIFFERENCE **-0.3** FT

PID AMBIENT AIR **—** PPM

REFILL TIMER SETTING **—** SEC

PID WELL MOUTH **—** PPM

DISCHARGE TIMER SETTING **—** SEC

DRAWDOWN/TOTAL PURGED **0.004**

PRESSURE TO PUMP **—** PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME	DTW (FT)	PURGE RATE	TEMP. (°C)	SF CONDUCTANCE	pH (units)	DISS. O ₂ (mg/L)	TURBIDITY (ntu)	REDOX (mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
0909										BEGIN PURGING @ 300 mL/min
0915	14.27	300	11.46	1.010	6.79	4.95	12.8	52.8	1' off bottom	
0920	14.28	300	11.30	1.004	6.80	4.20	10.1	59.3		
0925	14.38	300	11.31	1.002	6.82	3.60	7.03	62.7		
0930	14.25	270	11.53	1.002	6.83	3.16	6.19	67.8		
0940	14.26	270	11.52	0.998	6.84	3.04	3.42	68.7		
0945	14.26	270	11.59	0.993	6.84	2.50	4.25	70.8		
0950	14.26	270	11.52	0.997	6.84	2.30	2.64	71.0		
0955	14.26	270	11.53	0.993	6.85	2.20	2.50	74.6		
10:00	Sample									

TOL
0935

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures(SF))

12 0.993 6.8 2.2 2.5 72

TEMP: record degree (ex. 10.1 = 10)
COND: 3 SF max (ex. 1333 = 1330, 0.026 = 0.026)
pH: nearest tenth (ex. 5.52 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
RED: 3 SF (44.1 = 44.1, 191 = 190)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: PERISTALTIC SUBMERSIBLE BLADDER

WATER: WATER OTHER OTHER **Geo Pump**

DECON FLUIDS USED: DIQUINOX DEIONIZED WATER POTABLE WATER NITRIC ACID HEXANE METHANOL OTHER

TUBING/PUMP/BLADDER MATERIALS: SILICON TUBING TEFLON TUBING TEPFLON LINED TUBING HDPE TUBING LDPE TUBING OTHER

PUMP MATERIALS: S. STEEL PUMP MATERIAL PVC PUMP MATERIAL GEOPROB SCREEN TEFLON BLADDER OTHER

EQUIPMENT USED: WL METER PID WQ METER TURD. METER PUMP OTHER FILTERS NO. TYPE

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLER BOTTLE ID NUMBERS
VOCs	8260 B	N	HCL, 4°C	3x40ml	4		

PURGE OBSERVATIONS

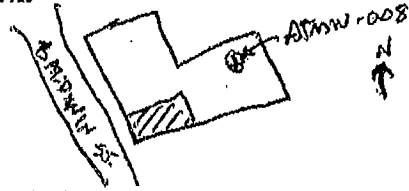
PURGE WATER CONTAINERIZED: YES NO

NO. PURGE METHOD UTILIZED: YES NO

NUMBER OF GALLONS GENERATED: **27.7**

If you purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES



Sampler Signature: *Thomas D. Inghy* Print Name: **Thomas D. Inghy**

Checked By: *R. J. [Signature]* Date: **5-7-13, 5/22/13**

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME
DIAMOND CLEANERS

PROJECT NUMBER
3612 1122 09.02

SAMPLE ID
ATMW00912013XX

SAMPLE TIME
1106

LOCATION ID
ATMW-009

DATE
5/7/13

START TIME
1022

END TIME
1106

SITE NAME/NUMBER

PAGE
1 OF 1

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 3/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

INITIAL DTW (BMP) 14.61 FT FINAL DTW (BMP) 14.65 FT PROT. CASING STICKUP (AGS) flush FT

WELL DEPTH (BMP) 19.5 FT SCREEN LENGTH _____ FT PID AMBIENT AIR _____ PPM

WATER COLUMN 4.89 FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041) 0.0065 GAL

CALCULATED GAL/VOL. PURGED 0.8 GAL TOTAL VOL. PURGED 2.2 GAL DRAWDOWN/ TOTAL PURGED 0.0029

WELL INTEGRITY YES NO N/A
CAP
CASING
LOCKED
COLLAR

TOC/TOR DIFFERENCE _____ FT
REFILL TIMER SETTING _____ SEC
DISCHARGE TIMER SETTING _____ SEC
PRESSURE TO PUMP _____ PSI

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (FT) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
<u>1022</u>										BEGIN PURGING
<u>1027</u>	<u>14.65</u>	<u>200</u>	<u>11.83</u>	<u>0.407</u>	<u>6.44</u>	<u>4.22</u>	<u>23.16</u>	<u>75.4</u>	<u>17.0</u>	
<u>1032</u>	<u>14.65</u>	<u>200</u>	<u>11.44</u>	<u>0.463</u>	<u>6.04</u>	<u>3.36</u>	<u>16.37</u>	<u>67.3</u>	<u>17.0</u>	
<u>1037</u>	<u>14.65</u>	<u>200</u>	<u>11.19</u>	<u>0.546</u>	<u>6.19</u>	<u>2.57</u>	<u>2.76</u>	<u>65.4</u>	<u>17.0</u>	
<u>1042</u>	<u>14.65</u>	<u>200</u>	<u>11.16</u>	<u>0.598</u>	<u>6.32</u>	<u>2.07</u>	<u>3.34</u>	<u>65.3</u>	<u>17.0</u>	
<u>1047</u>	<u>14.65</u>	<u>200</u>	<u>11.40</u>	<u>0.640</u>	<u>6.59</u>	<u>1.54</u>	<u>0.09</u>	<u>63.0</u>	<u>17.0</u>	
<u>1052</u>	<u>14.65</u>	<u>200</u>	<u>11.36</u>	<u>0.667</u>	<u>6.56</u>	<u>1.30</u>	<u>0.17</u>	<u>63.4</u>	<u>17.0</u>	
<u>1055</u>	<u>14.65</u>	<u>200</u>	<u>11.41</u>	<u>0.682</u>	<u>6.65</u>	<u>1.14</u>	<u>0.71</u>	<u>68.5</u>	<u>17.0</u>	
<u>1058</u>	<u>14.65</u>	<u>200</u>	<u>11.36</u>	<u>0.696</u>	<u>6.65</u>	<u>1.00</u>	<u>0.00</u>	<u>58.4</u>	<u>17.0</u>	
<u>1101</u>	<u>14.65</u>	<u>200</u>	<u>11.47</u>	<u>0.703</u>	<u>6.68</u>	<u>1.04</u>	<u>0.00</u>	<u>55.4</u>	<u>17.0</u>	
<u>1104</u>	<u>14.65</u>	<u>200</u>	<u>11.47</u>	<u>0.706</u>	<u>6.69</u>	<u>1.04</u>	<u>0.00</u>	<u>54.1</u>	<u>17.0</u>	

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures[SF])

11 0.706 6.7 1.0 0.0 54

TEST: nearest depth (ex. 10.1 - 10)
CONC: 3 SF max (ex. 3.33 = 3.33, 0.004 = 0.004)
pH: nearest tenth (ex. 5.51 = 5.5)
DO: nearest tenth (ex. 3.51 = 3.5)
TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
PUR: 2 SF (ex. 1 = 1, 101 = 100)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
 PERISTALTIC SUBMERSIBLE BLADDER
 WATER
 OTHER _____

DECON FLUIDS USED
 LIQUINOX
 DEIONIZED WATER
 POTABLE WATER
 NITRIC ACID
 HEXANE
 METHANOL
 OTHER _____

TUBING/PUMP/BLADDER MATERIALS
 SILICON TUBING
 TEFLON TUBING
 TEFLON LINED TUBING
 HDPE TUBING
 LDPE TUBING
 OTHER _____

S. STEEL PUMP MATERIAL
 PVC PUMP MATERIAL
 GEOPROBE SCREEN
 TEFLON BLADDER
 OTHER _____

EQUIPMENT USED
 WL METER
 PID
 WQ METER
 TURB. METER
 PUMP
 OTHER _____
FILTERS NO. _____ TYPE _____

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
<u>VOC</u>	<u>8260</u>	<u>N</u>	<u>HCL</u>	<u>3x10ml</u>	<u>Y</u>	<u>N</u>	

PURGE OBSERVATIONS

PURGE WATER CONTAINERIZED YES NO

NO. PURGE METHOD UTILIZED YES NO

NUMBER OF GALLONS GENERATED 2.2

If you purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

SKETCH/NOTES

Handwritten notes:
"Bad air" (written vertically)
"Assoc. Teftel Blag" (written in a box)
"ATMW-009" (circled)
North arrow pointing up.

Sampler Signature: R. J. [Signature] Print Name: Ryan Jones

Checked By: T.D.L. Date: 5-21-13

LOW FLOW GROUNDWATER SAMPLING RECORD

PROJECT NAME: DIAMOND CLEANERS
 PROJECT NUMBER: 3612112209.02
 SAMPLE ID: ATMWOODR12013XX SAMPLE TIME: 940

LOCATION ID: ATMW-001R DATE: 5/7/13
 START TIME: 900 END TIME: 940
 SITE NAME/NUMBER: _____ PAGE: 1 OF 1

WELL DIAMETER (INCHES) 1 2 4 6 8 OTHER _____

TUBING ID (INCHES) 1/8 1/4 3/8 1/2 5/8 OTHER _____

MEASUREMENT POINT (MP) TOP OF RISER (TOR) TOP OF CASING (TOC) OTHER _____

INITIAL DTW (BMP): 14.38 FT FINAL DTW (BMP): 14.72 FT PROT. CASING STICKUP (ACS): FLUSH FT TOCTOR DIFFERENCE: _____ FT

WELL DEPTH (BMP): 19.67 FT SCREEN LENGTH: _____ FT PID AMBIENT AIR: _____ PPM REFILL TIMER SETTING: _____ SEC

WATER COLUMN: 5.29 FT DRAWDOWN VOLUME (Initial DTW - final DTW X well diam. squared X 0.041): 0.22 GAL PID WELL MOUTH: _____ PPM DISCHARGE TIMER SETTING: _____ SEC

CALCULATED GAL/VOL: 3.47 GAL TOTAL VOL. PURGED: 4.9 GAL DRAWDOWN/TOTAL PURGED: 0.12 PRESSURE TO PUMP: _____ PSI

(column X well diameter squared X 0.041) (mL per minute X total minutes X 0.00026 gal/mL)

WELL INTEGRITY

YES NO N/A

CAP _____ _____

CASING _____ _____

LOCKED _____ _____

COLLAR _____ _____

FIELD PARAMETERS WITH PROGRAM STABILIZATION CRITERIA (AS LISTED IN THE QAPP)

TIME 3-5 Minutes	DTW (ft) 0.0-0.33 ft Drawdown	PURGE RATE (mL/min)	TEMP. (°C) (+/- 3 degrees)	SP. CONDUCTANCE (mS/cm) (+/- 3%)	pH (units) (+/- 0.1 units)	DISS. O ₂ (mg/L) (+/- 10%)	TURBIDITY (ntu) (+/- 10% <10 ntu)	REDOX (mv) (+/- 10 mv)	PUMP INTAKE DEPTH (ft)	COMMENTS
905	14.63	200	11.91	0.409	6.30	0.52	15.38	-28.6	16.6	BEGIN PURGING
910	14.71	200	11.62	0.406	6.20	0.26	13.51	-29.6	16.6	
915	14.72	200	11.68	0.416	6.24	0.24	15.18	-39.0	16.6	
920	14.72	200	11.82	0.439	6.27	0.26	6.20	-37.5	16.6	
925	14.72	200	11.79	0.486	6.30	0.21	4.71	-41.2	16.6	
930	14.72	200	11.87	0.527	6.34	0.19	4.91	-49.6	16.6	
933	14.72	200	11.90	0.542	6.36	0.15	3.99	-49.2	16.6	
936	14.72	200	11.93	0.550	6.38	0.16	3.49	-50.2	16.6	
										Collect Sample @ 940
				0.550	6.4	0.2	3.5	-50		

FINAL STABILIZED FIELD PARAMETERS (to appropriate significant figures [SF])

12 0.550 6.4 0.2 3.5 -50

TEMP: nearest degree (ex. 10.1 = 10)
 COND: 3 SF max (ex. 333) = 330, 0.096 = 0.096
 pH: nearest tenth (ex. 5.53 = 5.5)
 DO: nearest tenth (ex. 3.51 = 3.5)
 TURB: 3 SF max, nearest tenth (6.19 = 6.2, 101 = 101)
 ORP: 2 SF (44.1 = 44, 121 = 120)

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: PERISTALTIC SUBMERSIBLE BLADDER WATER OTHER _____

DECON FLUIDS USED: LIQUINOX DEIONIZED WATER POTABLE WATER NITRIC ACID HEXANE METHANOL OTHER _____

TUBING PUMP BLADDER MATERIALS: SILICON TUBING TEFLON TUBING TEFLON LINED TUBING HDPE TUBING LDPE TUBING OTHER _____

S. STEEL PUMP MATERIAL PVC PUMP MATERIAL QUOPROBE SCREEN TEFLON BLADDER OTHER _____

EQUIPMENT USED: WL METER PID WQ METER TURB. METER PUMP OTHER _____ FILTERS NO. ✓ TYPE _____

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	FIELD FILTERED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	QC COLLECTED	SAMPLE BOTTLE ID NUMBERS
VOC	8760	N	HCl	3x40ml	✓	~	

PURGE OBSERVATIONS: RISE WATER CONTAINERIZED NO. PURGE METHOD UTILIZED YES NO

NUMBER OF GALLONS GENERATED: ~1.9

If you purged approximately 1 standing volume prior to sampling or _____ mL for this sample location.

Sampler Signature: [Signature] Print Name: Ryan Torrey
 Checked By: T.D.L. Date: 5-21-13

SKETCH/NOTES: Basin St. ATMW-001R Textile Base. N ↑



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 361211 2009	PROJECT NAME: Diamond Cleaners
BORING NUMBER: ATGW-002	COORDINATES: _____
ELEVATION: _____	GWL: Depth <u>10'</u> Date/Time _____
ENGINEER/GEOLOGIST: RST	Depth <u>10'</u> Date/Time _____
DRILLING METHODS: Geoprobe - Direct Push	PAGE: 1 OF 1

DEPTH ()	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY %	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
			50	0-0.2 Top Soil				P10
				0.2-3.8 S+G				0.0
				3.8-4 Black-Brown med S				
			75	4-4.3 SAA				
				4.3-5.0 Brown to Blk S+G				
				5.0-5.2 Red/Brown G				70.3 Moist
7'	XX, MS, MD		100	5.2-8 Lt Brown C, v dense				30.0 Dry
				8-9.5 S+G, some f+C, wet				0.0 Wet
				Ceramic Pieces @ 9.4'				
			100	9.5-12 Lt Brown C, Very dense, dry				0.0 Dry
				12-12.9 DK Brown S+G, some C, wet				Saturated @ 12.9'
13'	82600			12.9-14.5 Brown C+S, wet				
				14.5-15.7 Brown S+G, C				
				15.7-16 Lt Brn C, v. dense, dry				
				16-18 Lt Brown C, v dense				0.0 Dry
				EOB @ 18'				

NOTES:

Drilling Contractor: Empire Drilling

Drilling Equipment: Geoprobe

Driller: Tony

Reviewed BY: [Signature] 6/2/13

945 ATGW00213 2013XX
 1000 ATGW00207 2013XX Soil
 ATGW00207 2013MS
 ATGW00207 2013MD
 1015 ATGW00212 2013XX water
 ATGW00212 2013XD
 ATGW00212 2013MS
 ATGW00212 2013MD



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 3612112209	PROJECT NAME: Diamond Cleaners	
BORING NUMBER: ATGW-026	COORDINATES: —	DATE: 5/8/13
ELEVATION: —	GWL: Depth 9.7 Date/Time	DATE STARTED: 5/8/13
ENGINEER/GEOLOGIST: RST	Depth Date/Time	DATE COMPLETED: 5/8/13
DRILLING METHODS: Geoprobe-Direct Push	PAGE: 1 OF 1	

DEPTH ()	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY ()	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
1				0-0.5 Topsoil				DRY 0.0 ↓
2			55%	1-2 Black Gravel fill				
3				2-2.5 Brown Silt				
4				2.5-3 Red Brick				
				3-4 Brn-Lt Brown Silt				
	sample @ 7' + imp		100%	4-4.5 Red-Brown C some S 4.5-6.3 Lt Brwn C + some S 6.3-8 Gray & Brwn C, dense				5' 0.1 ppm 6.5' 0.5 ppm Dry 7' 3.5 7.5 0.2 8 0.1
	12'		100	8-8.4 S4A 8.4-8.9 Dk Brwn-Black S&G, some C 8.9-11.5 Lt Brwn-Gray C, dense 11.5-12 m-c Sand G				0.0 to 11' Wet @ 9.7
	15'		60	12-12.5 SAA 12.5-13 Brwn C + S 13-16 Brwn S&G Wet				11.5' 0.4 ppm 15' 0.4 ppm
				Collect water @ 400 ATGW026/2013XX				

NOTES:

Drilling Contractor: Empire Drilling

Drilling Equipment: Geoprobe-track mtg

Driller: Tony

ATGW026072013XX@1230

ATGW026072013XD@1237

ATGW026122013XX@1245

ATGW02612013XX

REVIEWED BY: RST 8/2/13

Water



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 361211209	PROJECT NAME: Diamond Cleaners	
BORING NUMBER: ATGW 043	COORDINATES: —	DATE: 5/8/13
ELEVATION: —	GWL: Depth 13.7 Date/Time	DATE STARTED: " " "
ENGINEER/GEOLOGIST: RST	Depth Date/Time	DATE COMPLETED: " " "
DRILLING METHODS: Greeprobe - Direct Push	PAGE: 1 OF 1	

DEPTH ()	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY ()	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
				0-0.5 Topsoil				PID 0.0
			80	0.5-3 Brun-Black Gravel				
				3-3.5 Brown s				
				3.5-3.7 Stone				
			95	3.7-4 Red Brick				Wet 5.3-6.3
				4-5.2 Lt Brown C+s				
				5.2-8 Brun-Gray C+s, dense to 8'				
				(5.3-6.3, loose)				
13'			90	8-10 S&G				PID 0.7 ppm @ 12'
				10-10.2 Blk, Red Gravel, S				
15'				10.2-12 Gray-lt Brown C, very dense, moist				Wet @ 13.7'
				17-13 lt Brown clay				2.0 @ 13'
				13-13.2 Dk Brown-Black S+G				15' → 0.2 ppm
				13.2-16 Brun S&G, some s				
				ATGW 043 13				
				S ATGW 043 13 2013 XX @ 1330				
				S ATGW 043 15 2013 XX @ 1345				
				GW ATGW 043 12 013 XX @ 1350				
				EOB @ 16'				

NOTES:

Drilling Contractor: Empire Drilling
 Drilling Equipment: Greeprobe - Track Mount
 Driller: Tony

Reviewed by: [Signature]



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 3612112209	PROJECT NAME: Diamond Cleaners	
BORING NUMBER: ATGW-045	COORDINATES: _____	DATE: 5/9/13
ELEVATION: _____	GWL: Depth 14.4 Date/Time	DATE STARTED: ' ' ' ' ' ' ' '
ENGINEER/GEOLOGIST: RST	Depth Date/Time	DATE COMPLETED: ' ' ' ' ' ' ' '
DRILLING METHODS: Geoprobe-Direct Push	PAGE: 1 OF 1	

DEPTH (')	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER (')	RECOVERY %	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
			70	0-0.3 Top Soil 0.3-2.5 S+G fill material 2.5-4 Lt Brown C				PID 0.0 Dry
			100	Rock @ 4.2' 4.2-8 Lt Brown C, Dense				0.0 Dry
			100	8-8.5 SAA 8.5-8.8 Brown-Black S+G 8.8-10.7 Lt Brown C				10.4 @ 8.2 3.5 4.8 @ 9.6
	11.5' 8260		100	10.7-12 Brown C, S+G 12-13' SAA 13-13.6 Lt Brown C, some S				18.4 @ 11.7' 7.8 @ 12.8' 9.4 @ 13.1'
	16'		100	13.6-13.9 Dk Brown-Bk S+G, C 13.9-15' C, S, G, Lt Brown				12.3 @ 13.8' Well @ 14.4'
			100	15-16' Cr G, Dk Gray 16-16.5 Brown-Gray Ct 16.5-19' Rocked Stone Large-Small				0.0 Saturated
				EOB @ 19'				

NOTES:

Drilling Contractor: Empire Drilling

Drilling Equipment: Geoprobe-track mounted

Driller: Tony

1058 ATGW045122013XX Soil

1107 ATGW045162013XX

1115 ATGW04512013XX Water

recovered by: [Signature] 5/9/13

Water sample reacting w/ HCL effervescing



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 361211209	PROJECT NAME: Diamond Cleaners	
BORING NUMBER: ATGW046	COORDINATES: _____	DATE: 5/8/13
ELEVATION: _____	GWL: Depth 14.7 Date/Time _____	DATE STARTED: " "
ENGINEER/GEOLOGIST: RST	Depth _____ Date/Time _____	DATE COMPLETED: " "
DRILLING METHODS: GP - Direct Push	PAGE: 1 OF 1	

DEPTH ()	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY ()	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	WELL CONSTRUCTION	REMARKS
			85	0-0.5 Topsoil				P.O 0.0
				0.5-3.2 Gray Stone fill				Dry
				3.2-4 Black Gravel				
				4.0-4.2 Lt Brown C, dense				0.2 @ 5.7'
			100	4.2-4.9 Gravel				Dry
				4.9-8.0 Lt Brown, Gray clay, v dense				
				8-9.3 Stone				0.2 @ 10.5'
	14			9.3-9.11 Brown-Gray C, dense				Moist @ 10.2'
	8260C			9.11 Rock				
				9.11-11 Brown m Sand, some C				0.3 @ 13.7, DM
				11-11.3 Lt Brown C				
				11.3-12 Lt Brown C + G				
	17			12-13 SAA				wet @ 14.7
	8260C			13-14.7 Brown S+G, some C, lessening towards 15				0.0
				14.7-15.7 Lt Brown C, wet @ 14.7				
				15.7-16 Brown S+G, C				0.2 @ 17'
				16-17 Brown, Red S+C, G				
				17-19 G+S, some C				

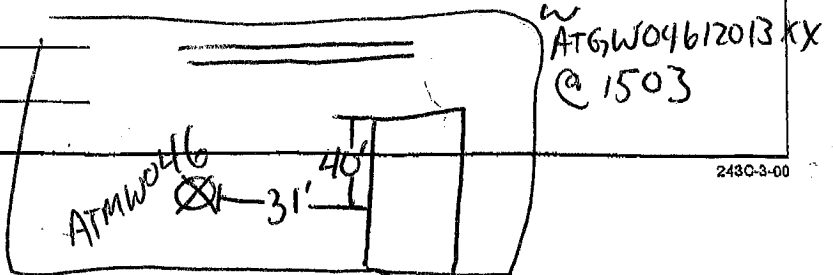
NOTES: EOB @ 19' GW Effervescing, Reacting to HCL in vials

Drilling Contractor: Empire Drilling S ATGW046142013XX @ 1432

Drilling Equipment: Greprobe S ATGW046172013XX @ 1435

Driller: Tony

Reviewed by: RST 5/2/13



ATTACHMENT 2

LABORATORY DATA AND DATA USABILITY SUMMARY REPORT

**DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING EVENT
DIAMOND CLEANERS SITE
AND
ASSOCIATED TEXTILES RENTAL SERVICES SITE
ELMIRA, NEW YORK**

1.0 INTRODUCTION

Groundwater and soil samples were collected at the Diamond Cleaners Site (DCS) and at nearby Associated Textiles Rental Services Site (ATRS) in Elmira, New York, in May 2013 and submitted for analysis to TestAmerica Laboratory, located in Buffalo, New York and Edison, New Jersey. Sample results were reported in Sample Delivery Groups (SDGs) 480-38011-1, 480-38151-1, and 480-38152-1. Samples were analyzed for one or more of the following methods:

- Volatile organic compounds (VOCs) by USEPA Method 8260B
- Total solids by EPA Method 160.3

A listing of samples included in this Data Usability Summary Report (DUSR) is presented in Table 1. A summary of the analytical results is presented in Table 2. A summary of sample results qualified during this review is presented in Table 3 (Summary of Data Validation Actions). Tentatively identified compound (TICs) were not evaluated or reported by the laboratory for VOC samples.

Deliverables for the off-site laboratory analyses included a Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005).

A data usability review was completed based on NYSDEC Division of Environmental Remediation guidance for data usability summary reports (NYSDEC, 2010). Quality control (QC) limits from USEPA Region 2 data validation guidelines were used during the data evaluation for VOCs. The remaining methods were evaluated based on lab control limits and the judgment of the chemist. The DUSR review included evaluations of the following items:

- Lab Report Narrative Review
- Data Package Completeness and COC records (Table 1 verification)
- Sample Preservation and Holding Times
- Initial and Continuing Calibration (including tunes for GC/MS)
- QC Blanks
- Laboratory Control Samples (LCS)
- Matrix Spike/Matrix Spike Duplicates (MS/MSD)
- Surrogate Spikes
- Internal Standard Response and Retention Times
- Field Duplicates
- Raw Data (chromatograms), Calculation Checks and Transcription Verifications
- Reporting Limits
- Electronic Data Qualification and Verification

U = target analyte is not detected above the reported detection limit

J = concentration is estimated

UJ = target analyte is not detected and the reported detection limit is estimated

H = lab qualifier indicating that the result was reported from an analysis that exceeded the method hold time

Results are interpreted to be usable as reported by the laboratory unless discussed in the following sections.

2.0 Volatile Organic Compounds (VOCs)

VOC - Hold Times

SDG 480-38011-1

Sample ATMW00412013XX was collected on May 7, 2013 and first analyzed on May 19, 2013 within the 14 day hold time. The sample was re-analyzed at a dilution on May 28, 2013 outside the 14-day hold time. Cyclohexane was reported from the dilution analysis and was qualified (H) by the laboratory due to the exceedence of the hold time and was also qualified estimated (J) during validation.

VOC - Initial and Continuing Calibration

SDG 480-38011-1

The initial calibration (April 19, 2013, VOAMS5) associated with samples in SDG 480-38011-1 had average relative response factors (RRF) less than 0.05 for acetone (0.0145) and 2-butanone (0.0310). The analytical instrument demonstrated a response at the low end of the calibration (5 µg/l) for both compounds. Based on professional judgment, non-detect results for acetone and 2-butanone in the associated samples were not rejected. Results for acetone and 2-butanone in the associated samples were qualified as estimated (J/UJ).

In the continuing calibration analyzed on May 19, 2013, the following compounds had a percent difference that exceeded the control limit of 20: dichlorodifluoromethane (-41), 1,1,2-trichloro-1,2,2-trifluoroethane (36), trans-1,2-dichloroethene (21), cis-1,2-dichloroethene (22),

cyclohexane (48), methylcyclohexane (25), and bromoform (-20.1). Results and reporting limits for these compounds were qualified estimated (J/UJ) in the associated samples. The RRF for acetone (0.0144) and 2-butanone (0.032) in this continuing calibration was less than 0.05. Results were qualified as estimated (J/UJ).

The following compounds had a percent difference that was greater than 20 in the continuing calibration analyzed on May 20, 2013: dichlorodifluoromethane (-28), 1,1,2-trichloro-1,2,2-trifluoroethane (23), trans-1,2-dichloroethene (27), cis-1,2-dichloroethene (29), and cyclohexane (26). These compounds were qualified estimated (J/UJ) in associated samples. The RRF was less than 0.05 for acetone (0.0134) and 2-butanone (0.0322) in this continuing calibration and results were qualified as estimated (J/UJ).

The following compounds had a percent difference that was greater than 20 in the continuing calibration analyzed on May 21, 2013 (at 05:24): dichlorodifluoromethane (-26), bromomethane (-31), 4-methyl-2-pentanone (-20.9), chlorodibromomethane (-22), 2-hexanone (-23), bromoform (-31), 1,3-dichlorobenzene (-20.2), 1,4-dichlorobenzene (-21), 1,2-dichlorobenzene (-23), 1,2-dibromo-3-chloropropane (-34), and 1,2,4-trichlorobenzene (-30). These compounds were qualified estimated (J/UJ) in associated samples. The RRF was less than 0.05 for acetone (0.0130) and 2-butanone (0.026) in this continuing calibration and results were as estimated (J/UJ).

The following compounds had a percent difference that was greater than 20 in the continuing calibration analyzed on May 21, 2013 (at 18:40): dichlorodifluoromethane (-32), bromomethane (-33), 1,1,2-trichloro-1,2,2-trifluoroethane (39), trans-1,2-dichloroethene (20.6), cis-1,2-dichloroethene (24), cyclohexane (41), methylcyclohexane (27), bromoform (-21), 1,2-dibromo-3-chloropropane (-24), and 1,2,4-trichlorobenzene (-22). These compounds were qualified estimated (J/UJ) in associated samples. The RRF was less than 0.05 for acetone (0.0127) and 2-butanone (0.0292) in this continuing calibration and results were as estimated (J/UJ).

SDG 480-38151-1

The following compounds had a percent difference that was greater than 20 in the continuing calibration analyzed on May 21, 2013: acetone (22), 4-methyl-2-pentanone (26), 2-hexanone (22). These compounds were qualified estimated (J/UJ) in all samples reported in SDG 480-38151-1.

SDG 480-38152-1

The following compounds had a percent difference that was greater than 20 in the continuing calibration analyzed on May 15, 2013: 1,1,2-trichloro-1,2,2-trifluoroethane (31), cyclohexane (20.9), and methylcyclohexane (21). These compounds were qualified estimated (J/UJ) in all samples reported in SDG 480-38151-1.

The results qualified during the review of the initial and continuing calibration data were assigned a reason code of ICVRRF, CCVRRF, and/or CCV%D and are summarized in Table 3.

LCS

SDG 480-38011-1

The following compounds had percent recoveries that were outside of the USEPA Region 2 control limits of 70-130 in the LCS analyzed on May 19, 2013 at 08:22: cyclohexane (150), methyl cyclohexane (133) and dichlorodifluoromethane (64). Detections of cyclohexane and methyl cyclohexane in associated samples were qualified estimated (J). Dichlorodifluoromethane was not detected in associated samples and the reporting limit was qualified as estimated (UJ) in the final data set.

Cyclohexane (144 to 147) was recovered above the upper control limit of 130 percent in the LCS samples analyzed on May 20 and 21st, 2013. Detections of cyclohexane in associated samples were qualified estimated (J).

Qualified results for cyclohexane, methyl cyclohexane and dichlorodifluoromethane were assigned a reason code of LCS-H or LCS-L and are summarized in Table 3.

VOC - Matrix Spikes

Matrix spike and matrix spike duplicates were evaluated based on Region 2 control limits of 70 – 130 percent and relative percent differences (RPDs) between the MS and MSD recoveries of 20.

SDG 480-38011-1

Matrix spike and matrix spike duplicate analyses were performed on the following groundwater samples: DCMW00412013XX, ATGW04312013XX, and ATMW00112013XX.

The following compounds had percent recoveries outside the control limits in the spikes analyzed on DCMW00412013XX: dichlorodifluoromethane (MS = 36 and MSD = 39), tetrachloroethene (MS = -17 and MSD = 21), trichlorofluoromethane (MS = 64), 1,2,4-trichlorobenzene (RPD = 25). Dichlorodifluoromethane, trichlorofluoromethane and 1,2,4-trichlorobenzene were not detected in the un-spiked sample and the reporting limit was qualified estimated (UJ) in the final data set. The concentration of tetrachloroethene in the un-spiked sample was greater than four times the concentration spike into the MS and MSD and therefore the spike recoveries were not evaluated.

The following compounds had percent recoveries and RPDs outside the control limits in the spikes analyzed on ATGW04312013XX: tetrachloroethene (MS = 879 and MSD = 935), cis-1,2 dichloroethene (MSD = 149), and trichloroethene (MS = 135), 1,2,4-trichlorobenzene (RPD = 31), 1,2-dibromo-3-chloropropane (RPD = 28), and 2-hexanone (RPD = 27). Positive detections of cis-1,2 dichloroethene and trichloroethene were qualified estimated (J) in un-spiked sample. 1,2,4-Trichlorobenzene, 1,2-dibromo-3-chloropropane, and 2-hexanone were not detected in the un-spiked sample and the reporting limit was qualified estimated (UJ). The concentration of tetrachloroethene in the un-spiked sample was greater than four times the concentration spike into the MS and MSD and therefore the spike recoveries were not evaluated. Thirteen other compounds had percent recoveries ranging from 132 to 166, but were not detected in the un-spiked sample and no qualifiers were added to the data set.

The following compounds had percent recoveries and RPDs outside the control limits in the spikes analyzed on ATMW00112013XX: 1,1,2-trichloro-1,2,2-trifluoroethane (MS = 132 and MSD = 140), dichlorodifluoromethane (66), 1,2-dichloropropane (MS = 131), 1,2-dichloropropane (MS = 131), cis-1,2-dichloroethene (MSD = 133), and cyclohexane (MSD = 141). 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,2-dichloropropane, 1,2-dichloropropane, and cis-

1,2-dichloroethene were not detected in the un-spiked sample and no qualifiers were added to the un-spiked sample for these compounds. The results for cyclohexane and dichlorodifluoromethane were qualified estimated (J/UJ) in the final data set.

SDG 480-38151-1

A matrix spike and matrix spike duplicate was performed on groundwater sample ATGW00212013XXXX. Tetrachloroethene (MS = 56) was recovered below the Region 2 QC limit of 70. The result for tetrachloroethene was qualified estimated (J) in ATGW00212013XXXX and the field duplicate sample, ATGW00212013XXDX.

SDG 480-38152-1

A matrix spike and matrix spike duplicate was performed on soil sample ATGW002072013XX. The following samples had recoveries that were below the Region 2 QC limit of 70: acetone (MS = 61 and MSD = 58), bromoform (MS = 69), carbon disulfide (MS = 56 and MSD = 58), and chloroethane (MS = 53 and MSD = 54). These compounds were not detected in the un-spiked sample and the reporting limits were qualified estimated (UJ).

Qualified results were assigned reason codes of MS-L, MS-H and/or MS-RPD and are summarized in Table 3.

VOC - Field Duplicates

SDG 480-38151-1

A field duplicate sample was submitted with field sample ATGW00212013XX. The following compounds had a RPD that was above the control limit of 50. Results for these compounds were qualified estimated (J/UJ) in the final data set. Qualified results were assigned reason codes of FD and are summarized in Table 3.

field_sample_id	qc_code	lab_sample_id	param_name	Final Result (ug/L)	Lab Qual	RPD
ATGW00212013XX	FS	480-38151-10	1,2-Dichloroethane	2		66.67%
ATGW00212013XD	FD	480-38151-11	1,2-Dichloroethane	1	U	
ATGW00212013XD	FD	480-38151-11	Tetrachloroethene	4.5	J	90.91%
ATGW00212013XX	FS	480-38151-10	Tetrachloroethene	12	J	
ATGW00212013XD	FD	480-38151-11	Trichloroethene	0.97	J	73.62%
ATGW00212013XX	FS	480-38151-10	Trichloroethene	2.1		

VOC - Sample Reporting

SDG 480-38011-1

During sample collection, a field sample was incorrectly labeled and recorded on the chain of custody (COC). The sample ID DCMW01312013XX should have been recorded as DCGW01312013XX on the COC. The sample ID was changed to DCGW01312013XX in the AMEC database.

Due to elevated concentrations of target analytes the following samples were analyzed at a dilution and non-detects were reported at elevated reporting levels:

SDG	field_sample_id	qc_code	lab_sample_id	dilution_factor
480-38011-1	DCMW00412013XD	FD	480-38011-2	5
480-38011-1	DCMW00412013XX	FS	480-38011-1	5
480-38011-1	ATGW02612013XX	FS	480-38011-7	5
480-38011-1	ATGW04312013XX	FS	480-38011-8	10
480-38011-1	ATMW00212013XX	FS	480-38011-12	5
480-38151-1	ATGW04512013XX	FS	480-38151-12	5

2.3 Total Solids

Results are interpreted to be usable as reported by the laboratory

Reference:

New York State Department of Environmental Conservation (NYSDEC), 2005. "Analytical Services Protocols"; July 2005.

New York State Department of Environmental Conservation (NYSDEC), 2010. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; DER-10; Division of Environmental Remediation; May 2010.

USEPA Region 2, 2008. "Validating Volatile Organic Compounds by SW-846 Method 8260B"; SOP # HW-24, Revision 2, Hazardous Waste Support Branch; August 2008.

Data Validator: Tige Cunningham

WC for Tige Cunningham
Date: 6/24/13

Reviewed by Wolfgang Calicchio
Senior Environmental Scientist



Date: 7/22/13

TABLE 1
SAMPLE SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

SDG	Media	Location	Sample Date	Sample ID	Class	VOC
					Analysis Method	SW8260B
					Fraction	T
					Qc Code	
480-38011-1	GW	GW-002	5/7/2013	DCGW00212013XX	FS	48
480-38011-1	GW	GW-013	5/8/2013	DCGW01312013XX	FS	48
480-38011-1	GW	GW-014	5/8/2013	DCGW01413013XX	FS	48
480-38011-1	GW	GW-026	5/8/2013	ATGW02612013XX	FS	48
480-38011-1	GW	GW-043	5/8/2013	ATGW04312013XX	FS	48
480-38011-1	GW	GW-046	5/8/2013	ATGW04612013XX	FS	48
480-38011-1	GW	MW-001	5/7/2013	ATMW00112013XX	FS	48
480-38011-1	GW	MW-001	5/7/2013	DCMW00112013XX	FS	48
480-38011-1	GW	MW-001R	5/7/2013	ATMW001R12013XX	FS	48
480-38011-1	GW	MW-002	5/6/2013	ATMW00212013XX	FS	48
480-38011-1	GW	MW-002	5/8/2013	DCMW00212013XX	FS	48
480-38011-1	GW	MW-003	5/6/2013	ATMW00312013XX	FS	48
480-38011-1	GW	MW-003	5/7/2013	DCMW00312013XX	FS	48
480-38011-1	GW	MW-004	5/7/2013	ATMW00412013XX	FS	48
480-38011-1	GW	MW-004	5/8/2013	DCMW00412013XD	FD	48
480-38011-1	GW	MW-004	5/8/2013	DCMW00412013XX	FS	48
480-38011-1	GW	MW-005	5/6/2013	ATMW00512013XX	FS	48
480-38011-1	GW	MW-006	5/6/2013	ATMW00612013XX	FS	48
480-38011-1	GW	MW-006	5/7/2013	DCMW00612013XX	FS	48
480-38011-1	GW	MW-007	5/6/2013	ATMW00712013XX	FS	48
480-38011-1	GW	MW-007	5/7/2013	DCMW00712013XX	FS	48
480-38011-1	GW	MW-008	5/7/2013	ATMW00812013XX	FS	48
480-38011-1	GW	MW-008	5/7/2013	DCMW00812013XX	FS	48
480-38011-1	GW	MW-009	5/7/2013	DCMW00912013XX	FS	48
480-38011-1	GW	MW-009	5/7/2013	ATMW00912013XX	FS	48
480-38011-1	GW	MW-010	5/7/2013	DCMW01012013XX	FS	48
480-38011-1	GW	MW-011	5/6/2013	DCMW01112013XX	FS	48
480-38011-1	GW	MW-012	5/8/2013	DCMW1212013XX	FS	48
480-38011-1	GW	MW-013	5/8/2013	DCMW1312013XX	FS	48
480-38011-1	BW	QC	5/8/2013	TRIP BLANK	TB	48

Notes:

FS = Field Sample
FD = Field Duplicate

TABLE 1
SAMPLE SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

SDG	Media	Location	Sample Date	Sample ID	Class Analysis Method Fraction Qc Code	VOC
						SW8260B T
480-38151-1	GW	GW-021	5/9/2013	ATGW00212013XD	FD	48
480-38151-1	GW	GW-021	5/9/2013	ATGW00212013XX	FS	48
480-38151-1	GW	GW-045	5/9/2013	ATGW04512013XX	FS	48
480-38151-1	GW	MW-014	5/8/2013	DCMW1412013XX	FS	48
480-38151-1	GW	MW-015	5/8/2013	DCMW1512013XX	FS	48
480-38151-1	GW	MW-016	5/9/2013	DCMW1612013XX	FS	48
480-38151-1	GW	MW-017	5/9/2013	DCMW1712013XX	FS	48
480-38151-1	GW	MW-018	5/9/2013	DCMW1812013XX	FS	48
480-38151-1	GW	MW-019	5/9/2013	DCMW1912013XX	FS	48
480-38151-1	GW	MW-020	5/9/2013	DCMW2012013XX	FS	48
480-38151-1	GW	MW-021	5/9/2013	DCMW2112013XX	FS	48
480-38151-1	GW	MW-022	5/9/2013	DCMW2212013XX	FS	48
480-38151-1	GW	MW-023	5/9/2013	DCMW2312013XX	FS	48
480-38151-1	BW	QC	5/9/2013	TRIP BLANK	FS	48

Notes:

FS = Field Sample

FD = Field Duplicate

TABLE 1
SAMPLE SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

SDG	Media	Location	Sample Date	Sample ID	Class	VOC	Solids
					Analysis Method	SW8260B	E160.3
					Fraction	T	T
					Qc Code		
480-38152-1	SOIL	GW-002	5/9/2013	ATGW002072013XX	FS	48	2
480-38152-1	SOIL	GW-021	5/9/2013	ATGW002132013XX	FS	48	2
480-38152-1	SOIL	GW-026	5/8/2013	ATGW026072013XX	FS	48	2
480-38152-1	SOIL	GW-026	5/8/2013	ATGW026072013XD	FD	48	2
480-38152-1	SOIL	GW-026	5/8/2013	ATGW026122013XX	FS	48	2
480-38152-1	SOIL	GW-043	5/8/2013	ATGW043132013XX	FS	48	2
480-38152-1	SOIL	GW-043	5/8/2013	ATGW043152013XX	FS	48	2
480-38152-1	SOIL	GW-045	5/9/2013	ATGW045162013XX	FS	48	2
480-38152-1	SOIL	GW-045	5/9/2013	ATGW045122013XX	FS	48	2
480-38152-1	SOIL	GW-046	5/8/2013	ATGW046142013XX	FS	48	2
480-38152-1	SOIL	GW-046	5/8/2013	ATGW046172013XX	FS	48	2

Notes:

FS = Field Sample
FD = Field Duplicate

**TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK**

		Location	GW-002		GW-021		GW-026		GW-026		GW-026		GW-043		
		COC Sample	ATGW002072013XX		ATGW002132013XX		ATGW026072013XD		ATGW026072013XX		ATGW026122013XX		ATGW043132013XX		
		Date Sampled	05/09/13		05/09/13		05/08/13		05/08/13		05/08/13		05/08/13		
		Sample Type	FS		FS		FD		FS		FS		FS		
		Report Number	480-38152-1		480-38152-1		480-38152-1		480-38152-1		480-38152-1		480-38152-1		
Frac	Analysis Method	Parameter Name	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
N	SW8260B	1,1,1-Trichloroethane	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	1,1,2,2-Tetrachloroethane	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/kg	47	UJ	67	UJ	53	UJ	52	UJ	52	UJ	45	UJ
N	SW8260B	1,1,2-Trichloroethane	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	1,1-Dichloroethane	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	1,1-Dichloroethene	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	1,2,4-Trichlorobenzene	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	1,2-Dibromo-3-chloropropane	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	1,2-Dibromoethane	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	1,2-Dichlorobenzene	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	1,2-Dichloroethane	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	1,2-Dichloropropane	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	1,3-Dichlorobenzene	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	1,4-Dichlorobenzene	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	2-Butanone	ug/kg	230	U	330	U	260	U	260	U	260	U	220	U
N	SW8260B	2-Hexanone	ug/kg	230	U	330	U	260	U	260	U	260	U	220	U
N	SW8260B	4-Methyl-2-pentanone	ug/kg	230	U	330	U	260	U	260	U	260	U	220	U
N	SW8260B	Acetic acid, methyl ester	ug/kg	47	U	72		53	U	52	U	52	U	45	U
N	SW8260B	Acetone	ug/kg	230	UJ	330	U	260	U	260	U	260	U	220	U
N	SW8260B	Benzene	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	Bromodichloromethane	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	Bromoform	ug/kg	47	UJ	67	U	53	U	52	U	52	U	45	U
N	SW8260B	Bromomethane	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	Carbon disulfide	ug/kg	47	UJ	67	U	53	U	52	U	52	U	45	U
N	SW8260B	Carbon tetrachloride	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	Chlorobenzene	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	Chlorodibromomethane	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	Chloroethane	ug/kg	47	UJ	67	U	53	U	52	U	52	U	45	U
N	SW8260B	Chloroform	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	Chloromethane	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	Cis-1,2-Dichloroethene	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	cis-1,3-Dichloropropene	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	Cyclohexane	ug/kg	47	UJ	67	UJ	53	UJ	52	UJ	52	UJ	45	UJ
N	SW8260B	Dichlorodifluoromethane	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	Ethyl benzene	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	Isopropylbenzene	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U

**TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK**

		Location	GW-002		GW-021		GW-026		GW-026		GW-026		GW-043		
		COC Sample	ATGW002072013XX		ATGW002132013XX		ATGW026072013XD		ATGW026072013XX		ATGW026122013XX		ATGW043132013XX		
		Date Sampled	05/09/13		05/09/13		05/08/13		05/08/13		05/08/13		05/08/13		
		Sample Type	FS		FS		FD		FS		FS		FS		
		Report Number	480-38152-1		480-38152-1		480-38152-1		480-38152-1		480-38152-1		480-38152-1		
Frac	Analysis Method	Parameter Name	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
N	SW8260B	Methyl cyclohexane	ug/kg	47	UJ	67	UJ	53	UJ	52	UJ	52	UJ	45	UJ
N	SW8260B	Methyl Tertbutyl Ether	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	Methylene chloride	ug/kg	47	U	16	J	53	U	12	J	11	J	45	U
N	SW8260B	Styrene	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	Tetrachloroethene	ug/kg	47	U	58	J	53	U	52	U	230		190	
N	SW8260B	Toluene	ug/kg	47	U	28	J	53	U	52	U	52	U	14	J
N	SW8260B	trans-1,2-Dichloroethene	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	trans-1,3-Dichloropropene	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	Trichloroethene	ug/kg	47	U	97		53	U	52	U	52	U	45	U
N	SW8260B	Trichlorofluoromethane	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	Vinyl chloride	ug/kg	47	U	67	U	53	U	52	U	52	U	45	U
N	SW8260B	Xylenes, Total	ug/kg	94	U	130	U	110	U	100	U	100	U	89	U
N	E160.3	Percent Moisture	percent	16		29		18		18		15		16	
N	E160.3	Percent Solids	percent	84		71		82		82		85		84	

Notes:

N = normal

FS = field sample

FD = field duplicate

U = not detected, value is the reporting limit

J = value is estimated

ug/kg = microgram per kilogram

TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

		Location		GW-043	GW-045	GW-045	GW-046	GW-046	
		COC Sample		ATGW043152013XX	ATGW045122013XX	ATGW045162013XX	ATGW046142013XX	ATGW046172013XX	
		Date Sampled		05/08/13	05/09/13	05/09/13	05/08/13	05/08/13	
		Sample Type		FS	FS	FS	FS	FS	
		Report Number		480-38152-1	480-38152-1	480-38152-1	480-38152-1	480-38152-1	
Fraci	Analysis Method	Parameter Name	Units	Result	Qual	Result	Qual	Result	Qual
N	SW8260B	1,1,1-Trichloroethane	ug/kg	51 U		43 U		59 U	
N	SW8260B	1,1,2,2-Tetrachloroethane	ug/kg	51 U		43 U		59 U	
N	SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/kg	51 UJ		43 UJ		59 UJ	
N	SW8260B	1,1,2-Trichloroethane	ug/kg	51 U		43 U		59 U	
N	SW8260B	1,1-Dichloroethane	ug/kg	51 U		43 U		59 U	
N	SW8260B	1,1-Dichloroethene	ug/kg	51 U		43 U		59 U	
N	SW8260B	1,2,4-Trichlorobenzene	ug/kg	51 U		43 U		59 U	
N	SW8260B	1,2-Dibromo-3-chloropropane	ug/kg	51 U		43 U		59 U	
N	SW8260B	1,2-Dibromoethane	ug/kg	51 U		43 U		59 U	
N	SW8260B	1,2-Dichlorobenzene	ug/kg	51 U		43 U		59 U	
N	SW8260B	1,2-Dichloroethane	ug/kg	51 U		43 U		59 U	
N	SW8260B	1,2-Dichloropropane	ug/kg	51 U		43 U		59 U	
N	SW8260B	1,3-Dichlorobenzene	ug/kg	51 U		43 U		59 U	
N	SW8260B	1,4-Dichlorobenzene	ug/kg	51 U		43 U		59 U	
N	SW8260B	2-Butanone	ug/kg	250 U		220 U		290 U	
N	SW8260B	2-Hexanone	ug/kg	250 U		220 U		230 U	
N	SW8260B	4-Methyl-2-pentanone	ug/kg	250 U		220 U		230 U	
N	SW8260B	Acetic acid, methyl ester	ug/kg	51 U		43 U		59 U	
N	SW8260B	Acetone	ug/kg	250 U		220 U		290 U	
N	SW8260B	Benzene	ug/kg	51 U		43 U		59 U	
N	SW8260B	Bromodichloromethane	ug/kg	51 U		43 U		59 U	
N	SW8260B	Bromoform	ug/kg	51 U		43 U		59 U	
N	SW8260B	Bromomethane	ug/kg	51 U		43 U		59 U	
N	SW8260B	Carbon disulfide	ug/kg	51 U		43 U		59 U	
N	SW8260B	Carbon tetrachloride	ug/kg	51 U		43 U		59 U	
N	SW8260B	Chlorobenzene	ug/kg	51 U		43 U		59 U	
N	SW8260B	Chlorodibromomethane	ug/kg	51 U		43 U		59 U	
N	SW8260B	Chloroethane	ug/kg	51 U		43 U		59 U	
N	SW8260B	Chloroform	ug/kg	51 U		43 U		59 U	
N	SW8260B	Chloromethane	ug/kg	51 U		43 U		59 U	
N	SW8260B	Cis-1,2-Dichloroethene	ug/kg	17 J		43 U		59 U	
N	SW8260B	cis-1,3-Dichloropropene	ug/kg	51 U		43 U		59 U	
N	SW8260B	Cyclohexane	ug/kg	51 UJ		43 UJ		59 UJ	
N	SW8260B	Dichlorodifluoromethane	ug/kg	51 U		43 U		59 U	
N	SW8260B	Ethyl benzene	ug/kg	51 U		43 U		59 U	
N	SW8260B	Isopropylbenzene	ug/kg	51 U		43 U		59 U	

**TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK**

		Location	GW-043		GW-045		GW-045		GW-046		GW-046	
		COC Sample	ATGW043152013XX		ATGW045122013XX		ATGW045162013XX		ATGW046142013XX		ATGW046172013XX	
		Date Sampled	05/08/13		05/09/13		05/09/13		05/08/13		05/08/13	
		Sample Type	FS		FS		FS		FS		FS	
		Report Number	480-38152-1		480-38152-1		480-38152-1		480-38152-1		480-38152-1	
Fracl	Analysis Method	Parameter Name	Units		Result	Qual	Result	Qual	Result	Qual	Result	Qual
N	SW8260B	Methyl cyclohexane	ug/kg		51	UJ	43	UJ	59	UJ	46	UJ
N	SW8260B	Methyl Tertbutyl Ether	ug/kg		51	U	43	U	59	U	46	U
N	SW8260B	Methylene chloride	ug/kg		51	U	12	J	59	U	12	J
N	SW8260B	Styrene	ug/kg		51	U	43	U	59	U	46	U
N	SW8260B	Tetrachloroethene	ug/kg		470		49		310		46	U
N	SW8260B	Toluene	ug/kg		51	U	43	U	59	U	46	U
N	SW8260B	trans-1,2-Dichloroethene	ug/kg		51	U	43	U	59	U	46	U
N	SW8260B	trans-1,3-Dichloropropene	ug/kg		51	U	43	U	59	U	46	U
N	SW8260B	Trichloroethene	ug/kg		51	U	43	U	39	J	46	U
N	SW8260B	Trichlorofluoromethane	ug/kg		51	U	43	U	59	U	46	U
N	SW8260B	Vinyl chloride	ug/kg		51	U	43	U	59	U	46	U
N	SW8260B	Xylenes, Total	ug/kg		100	U	87	U	120	U	92	U
N	E160.3	Percent Moisture	percent		19		12		22		13	
N	E160.3	Percent Solids	percent		81		88		78		87	

Notes:

N = normal
 FS = field sample
 FD = field duplicate
 U = not detected, value is the reporting limit
 J = value is estimated
 ug/kg = microgram per kilogram

Prepared by / Date: KJC 06/26/13
 Checked by / Date: TLC 07/12/13

TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK

		Location	GW-002	GW-013	GW-014	GW-021	GW-021	GW-026	
		COC Sample	DCGW00212013XX	DCGW01312013XX	DCGW01413013XX	ATGW00212013XD	ATGW00212013XX	ATGW02612013XX	
		Date Sampled	05/07/13	05/08/13	05/08/13	05/09/13	05/09/13	05/08/13	
		Sample Type	FS	FS	FS	FD	FS	FS	
		Report Number	480-38011-1	480-38011-1	480-38011-1	480-38151-1	480-38151-1	480-38011-1	
Frac	Analysis Method	Parameter Name	Units	Result	Qual	Result	Qual	Result	Qual
N	SW8260B	1,1,1-Trichloroethane	ug/l	0.12 J		1 U		1 U	
N	SW8260B	1,1,2,2-Tetrachloroethane	ug/l	1 U		1 U		1 U	
N	SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	1 UJ		1 U		1 U	
N	SW8260B	1,1,2-Trichloroethane	ug/l	1 U		1 U		1 U	
N	SW8260B	1,1-Dichloroethane	ug/l	1 U		1 U		1 U	
N	SW8260B	1,1-Dichloroethene	ug/l	1 U		1 U		1 U	
N	SW8260B	1,2,4-Trichlorobenzene	ug/l	1 U		1 UJ		1 U	
N	SW8260B	1,2-Dibromo-3-chloropropane	ug/l	1 U		1 UJ		1 U	
N	SW8260B	1,2-Dibromoethane	ug/l	1 U		1 U		1 U	
N	SW8260B	1,2-Dichlorobenzene	ug/l	1 U		1 UJ		1 U	
N	SW8260B	1,2-Dichloroethane	ug/l	1 U		1 U		2 J	
N	SW8260B	1,2-Dichloropropane	ug/l	1 U		1 U		1 U	
N	SW8260B	1,3-Dichlorobenzene	ug/l	1 U		1 UJ		1 U	
N	SW8260B	1,4-Dichlorobenzene	ug/l	1 U		1 UJ		1 U	
N	SW8260B	2-Butanone	ug/l	5 UJ		5 UJ		5 U	
N	SW8260B	2-Hexanone	ug/l	5 U		5 UJ		5 UJ	
N	SW8260B	4-Methyl-2-pentanone	ug/l	5 U		5 UJ		5 UJ	
N	SW8260B	Acetic acid, methyl ester	ug/l	2 U		2 U		2 U	
N	SW8260B	Acetone	ug/l	5 UJ		5 UJ		5 UJ	
N	SW8260B	Benzene	ug/l	1 U		1 U		0.21 J	
N	SW8260B	Bromodichloromethane	ug/l	1 U		1 U		1 U	
N	SW8260B	Bromoform	ug/l	1 U		1 UJ		1 U	
N	SW8260B	Bromomethane	ug/l	1 U		1 UJ		1 U	
N	SW8260B	Carbon disulfide	ug/l	1 U		0.31 J		1 U	
N	SW8260B	Carbon tetrachloride	ug/l	1 U		1 U		1 U	
N	SW8260B	Chlorobenzene	ug/l	1 U		1 U		1 U	
N	SW8260B	Chlorodibromomethane	ug/l	1 U		1 UJ		1 U	
N	SW8260B	Chloroethane	ug/l	1 U		1 U		1 U	
N	SW8260B	Chloroform	ug/l	1 U		1 U		1 U	
N	SW8260B	Chloromethane	ug/l	1 U		1 U		1 U	
N	SW8260B	Cis-1,2-Dichloroethene	ug/l	1.7 J		1 U		1	
N	SW8260B	cis-1,3-Dichloropropene	ug/l	1 U		1 U		1 U	
N	SW8260B	Cyclohexane	ug/l	1 UJ		1 U		1 U	
N	SW8260B	Dichlorodifluoromethane	ug/l	1 UJ		1 UJ		1 U	
N	SW8260B	Ethyl benzene	ug/l	1 U		1 U		1 U	
N	SW8260B	Isopropylbenzene	ug/l	1 U		1 U		1 U	

**TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK**

		Location	GW-002		GW-013		GW-014		GW-021		GW-021		GW-026		
		COC Sample	DCGW00212013XX		DCGW01312013XX		DCGW01413013XX		ATGW00212013XD		ATGW00212013XX		ATGW02612013XX		
		Date Sampled	05/07/13		05/08/13		05/08/13		05/09/13		05/09/13		05/08/13		
		Sample Type	FS		FS		FS		FD		FS		FS		
		Report Number	480-38011-1		480-38011-1		480-38011-1		480-38151-1		480-38151-1		480-38011-1		
Frac	Analysis Method	Parameter Name	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual		
N	SW8260B	Methyl cyclohexane	ug/l	1	U	1	U	1	U	1	U	1	U	5	UJ
N	SW8260B	Methyl Tertbutyl Ether	ug/l	1	U	1	U	1	U	1	U	1	U	5	U
N	SW8260B	Methylene chloride	ug/l	1	U	1	U	1	U	1	U	1	U	5	U
N	SW8260B	Styrene	ug/l	1	U	1	U	1	U	1	U	1	U	5	U
N	SW8260B	Tetrachloroethene	ug/l	130		1	U	0.15	J	4.5	J	12	J	730	
N	SW8260B	Toluene	ug/l	1	U	0.27	J	0.18	J	1	U	1	U	2	J
N	SW8260B	trans-1,2-Dichloroethene	ug/l	1	UJ	1	U	1	U	1	U	1	U	5	UJ
N	SW8260B	trans-1,3-Dichloropropene	ug/l	1	U	1	U	1	U	1	U	1	U	5	U
N	SW8260B	Trichloroethene	ug/l	4.9		1	U	0.29	J	0.97	J	2.1	J	36	
N	SW8260B	Trichlorofluoromethane	ug/l	1	U	1	U	1	U	1	U	1	U	5	U
N	SW8260B	Vinyl chloride	ug/l	1	U	1	U	1	U	1	U	1	U	5	U
N	SW8260B	Xylenes, Total	ug/l	3	U	3	U	3	U	3	U	3	U	15	U

Notes:

N = normal

FS = field sample

FD = field duplicate

U = not detected, value is the reporting limit

J = value is estimated

H = exceeds holding time

ug/l = microgram per liter

**TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK**

		Location		GW-043	GW-045	GW-046	MW-001	MW-001	MW-001R					
		COC Sample		ATGW04312013XX	ATGW04512013XX	ATGW04612013XX	ATMW00112013XX	DCMW00112013XX	ATMW001R12013XX					
		Date Sampled		05/08/13	05/09/13	05/08/13	05/07/13	05/07/13	05/07/13					
		Sample Type		FS	FS	FS	FS	FS	FS					
		Report Number		480-38011-1	480-38011-1	480-38011-1	480-38011-1	480-38011-1	480-38011-1					
Frac	Analysis Method	Parameter Name	Units	Result	Qual	Result	Qual	Result	Qual					
N	SW8260B	1,1,1-Trichloroethane	ug/l	10 U		5 U		0.34 J		1 U		1 U		
N	SW8260B	1,1,2,2-Tetrachloroethane	ug/l	10 U		5 U		1 U		1 U		1 U		
N	SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	10 U		5 U		1 UJ		1 UJ		1 U		
N	SW8260B	1,1,2-Trichloroethane	ug/l	10 U		5 U		1 U		1 U		1 U		
N	SW8260B	1,1-Dichloroethane	ug/l	10 U		5 U		1 U		1 U		1 U		
N	SW8260B	1,1-Dichloroethene	ug/l	10 U		5 U		1 U		1 U		1 U		
N	SW8260B	1,2,4-Trichlorobenzene	ug/l	10 UJ		5 U		1 U		1 UJ		1 UJ		
N	SW8260B	1,2-Dibromo-3-chloropropane	ug/l	10 UJ		5 U		1 U		1 UJ		1 UJ		
N	SW8260B	1,2-Dibromoethane	ug/l	10 U		5 U		1 U		1 U		1 U		
N	SW8260B	1,2-Dichlorobenzene	ug/l	10 UJ		5 U		1 U		1 U		1 UJ		
N	SW8260B	1,2-Dichloroethane	ug/l	10 U		5 U		1 U		1 U		1 U		
N	SW8260B	1,2-Dichloropropane	ug/l	10 U		5 U		1 U		1 U		1 U		
N	SW8260B	1,3-Dichlorobenzene	ug/l	10 UJ		5 U		1 U		1 U		1 UJ		
N	SW8260B	1,4-Dichlorobenzene	ug/l	10 UJ		5 U		1 U		1 U		1 UJ		
N	SW8260B	2-Butanone	ug/l	50 UJ		25 U		5 UJ		5 UJ		5 UJ		
N	SW8260B	2-Hexanone	ug/l	50 UJ		25 UJ		5 U		5 U		5 UJ		
N	SW8260B	4-Methyl-2-pentanone	ug/l	50 UJ		25 UJ		5 U		5 U		5 UJ		
N	SW8260B	Acetic acid, methyl ester	ug/l	20 U		10 U		2 U		2 U		2 U		
N	SW8260B	Acetone	ug/l	50 UJ		37 J		6 J		5 UJ		5 UJ		
N	SW8260B	Benzene	ug/l	10 U		5 U		0.33 J		25		1 U		8.8
N	SW8260B	Bromodichloromethane	ug/l	10 U		5 U		1 U		1 U		1 U		1 U
N	SW8260B	Bromoform	ug/l	10 UJ		5 U		1 UJ		1 U		1 U		1 UJ
N	SW8260B	Bromomethane	ug/l	10 UJ		5 U		1 U		1 UJ		1 U		1 UJ
N	SW8260B	Carbon disulfide	ug/l	2.7 J		5 U		0.18 J		1 U		1 U		0.15 J
N	SW8260B	Carbon tetrachloride	ug/l	10 U		5 U		1 U		1 U		1 U		1 U
N	SW8260B	Chlorobenzene	ug/l	10 U		5 U		1 U		1 U		1 U		1 U
N	SW8260B	Chlorodibromomethane	ug/l	10 UJ		5 U		1 U		1 U		1 U		1 UJ
N	SW8260B	Chloroethane	ug/l	10 U		5 U		1 U		1 U		1 U		1 U
N	SW8260B	Chloroform	ug/l	10 U		5 U		1 U		1 U		1 U		1 U
N	SW8260B	Chloromethane	ug/l	10 U		5 U		1 U		1 U		1 U		1 U
N	SW8260B	Cis-1,2-Dichloroethene	ug/l	79 J		47		14 J		1 UJ		2.4 J		1 U
N	SW8260B	cis-1,3-Dichloropropene	ug/l	10 U		5 U		1 U		1 U		1 U		1 U
N	SW8260B	Cyclohexane	ug/l	10 U		5 U		1 UJ		52 J		1 UJ		14 J
N	SW8260B	Dichlorodifluoromethane	ug/l	10 UJ		5 U		1 UJ		1 UJ		1 UJ		1 UJ
N	SW8260B	Ethyl benzene	ug/l	10 U		5 U		1 U		130		1 U		27
N	SW8260B	Isopropylbenzene	ug/l	10 U		5 U		1 U		15		1 U		2

**TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK**

		Location	GW-043		GW-045		GW-046		MW-001		MW-001		MW-001R		
		COC Sample	ATGW04312013XX		ATGW04512013XX		ATGW04612013XX		ATMW00112013XX		DCMW00112013XX		ATMW001R12013XX		
		Date Sampled	05/08/13		05/09/13		05/08/13		05/07/13		05/07/13		05/07/13		
		Sample Type	FS		FS		FS		FS		FS		FS		
		Report Number	480-38011-1		480-38151-1		480-38011-1		480-38011-1		480-38011-1		480-38011-1		
Frac	Analysis Method	Parameter Name	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
N	SW8260B	Methyl cyclohexane	ug/l	10	U	5	U	1	UJ	18	J	1	U	8.9	
N	SW8260B	Methyl Tertbutyl Ether	ug/l	10	U	5	U	0.88	J	5.3		1	U	3	
N	SW8260B	Methylene chloride	ug/l	10	U	5	U	1	U	1	U	1	U	1	U
N	SW8260B	Styrene	ug/l	10	U	5	U	1	U	1	U	1	U	1	U
N	SW8260B	Tetrachloroethene	ug/l	940		670		27		1	U	7.4		1	U
N	SW8260B	Toluene	ug/l	10	U	5	U	0.38	J	37		1	U	9.8	
N	SW8260B	trans-1,2-Dichloroethene	ug/l	10	U	5	U	1	UJ	1	UJ	1	UJ	1	U
N	SW8260B	trans-1,3-Dichloropropene	ug/l	10	U	5	U	1	U	1	U	1	U	1	U
N	SW8260B	Trichloroethene	ug/l	54	J	61		6.6		1	U	3.2		1	U
N	SW8260B	Trichlorofluoromethane	ug/l	10	U	5	U	1	U	1	U	1	U	1	U
N	SW8260B	Vinyl chloride	ug/l	10	U	5	U	1	U	1	U	1	U	1	U
N	SW8260B	Xylenes, Total	ug/l	30	U	15	U	3	U	140		3	U	27	

Notes:

N = normal

FS = field sample

FD = field duplicate

U = not detected, value is the reporting limit

J = value is estimated

H = exceeds holding time

ug/l = microgram per liter

**TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK**

		Location	MW-002		MW-002		MW-003		MW-003		MW-004		MW-004		
		COC Sample	ATMW00212013XX		DCMW00212013XX		ATMW00312013XX		DCMW00312013XX		ATMW00412013XX		DCMW00412013XD		
		Date Sampled	05/06/13		05/08/13		05/06/13		05/07/13		05/07/13		05/08/13		
		Sample Type	FS		FS		FS		FS		FS		FD		
		Report Number	480-38011-1		480-38011-1		480-38011-1		480-38011-1		480-38011-1		480-38011-1		
Frac	Analysis Method	Parameter Name	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
N	SW8260B	1,1,1-Trichloroethane	ug/l	5	U	0.087	J	1	U	0.11	J	1	U	5	U
N	SW8260B	1,1,2,2-Tetrachloroethane	ug/l	5	U	1	U	1	U	1	U	1	U	5	U
N	SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	5	UJ	1	UJ	1	UJ	1	UJ	1	UJ	5	UJ
N	SW8260B	1,1,2-Trichloroethane	ug/l	5	U	3.4		1	U	1	U	1	U	5	U
N	SW8260B	1,1-Dichloroethane	ug/l	5	U	1	U	1	U	1	U	1	U	5	U
N	SW8260B	1,1-Dichloroethene	ug/l	5	U	0.44	J	1	U	1	U	1	U	5	U
N	SW8260B	1,2,4-Trichlorobenzene	ug/l	5	U	1	U	1	U	1	U	1	U	5	U
N	SW8260B	1,2-Dibromo-3-chloropropane	ug/l	5	U	1	U	1	U	1	U	1	U	5	U
N	SW8260B	1,2-Dibromoethane	ug/l	5	U	1	U	1	U	1	U	1	U	5	U
N	SW8260B	1,2-Dichlorobenzene	ug/l	5	U	1	U	1	U	1	U	1	U	5	U
N	SW8260B	1,2-Dichloroethane	ug/l	5	U	2.1		1	U	1	U	1	U	5	U
N	SW8260B	1,2-Dichloropropane	ug/l	5	U	1	U	1	U	1	U	1	U	5	U
N	SW8260B	1,3-Dichlorobenzene	ug/l	5	U	1	U	1	U	1	U	1	U	5	U
N	SW8260B	1,4-Dichlorobenzene	ug/l	5	U	1	U	1	U	1	U	1	U	5	U
N	SW8260B	2-Butanone	ug/l	25	UJ	11	J	5	UJ	5	UJ	5	UJ	25	UJ
N	SW8260B	2-Hexanone	ug/l	25	U	5	U	5	U	5	U	5	U	25	U
N	SW8260B	4-Methyl-2-pentanone	ug/l	25	U	5	U	5	U	5	U	5	U	25	U
N	SW8260B	Acetic acid, methyl ester	ug/l	10	U	2	U	2	U	2	U	2	U	10	U
N	SW8260B	Acetone	ug/l	25	UJ	2.8	J	5	UJ	5	UJ	5	UJ	25	UJ
N	SW8260B	Benzene	ug/l	920		0.17	J	1	U	1	U	80		5	U
N	SW8260B	Bromodichloromethane	ug/l	5	U	1	U	1	U	1	U	1	U	5	U
N	SW8260B	Bromoform	ug/l	5	UJ	1	U	1	UJ	1	U	1	UJ	5	UJ
N	SW8260B	Bromomethane	ug/l	5	U	0.25	J	1	U	1	U	1	U	5	U
N	SW8260B	Carbon disulfide	ug/l	5	U	1	U	1	U	1	U	1	U	5	U
N	SW8260B	Carbon tetrachloride	ug/l	5	U	1	U	1	U	1	U	1	U	5	U
N	SW8260B	Chlorobenzene	ug/l	5	U	1	U	1	U	1	U	1	U	5	U
N	SW8260B	Chlorodibromomethane	ug/l	5	U	89		1	U	1	U	1	U	5	U
N	SW8260B	Chloroethane	ug/l	5	U	0.41	J	1	U	1	U	1	U	5	U
N	SW8260B	Chloroform	ug/l	5	U	0.11	J	0.44	J	0.28	J	1	U	5	U
N	SW8260B	Chloromethane	ug/l	5	U	0.19	J	1	U	1	U	1	U	5	U
N	SW8260B	Cis-1,2-Dichloroethene	ug/l	5	UJ	220	J	1	UJ	14	J	1	UJ	9.4	J
N	SW8260B	cis-1,3-Dichloropropene	ug/l	5	U	1	U	1	U	1	U	1	U	5	U
N	SW8260B	Cyclohexane	ug/l	85	J	1	UJ	1	UJ	1	UJ	170	JH	5	UJ
N	SW8260B	Dichlorodifluoromethane	ug/l	5	UJ	1	UJ	1	UJ	1	UJ	1	UJ	5	UJ
N	SW8260B	Ethyl benzene	ug/l	370		1	U	1	U	1	U	47		5	U
N	SW8260B	Isopropylbenzene	ug/l	19		1	U	1	U	1	U	14		5	U

**TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK**

Fract	Analysis Method	Parameter Name	Location COC Sample Date Sampled Sample Type Report Number Units	MW-002		MW-002		MW-003		MW-003		MW-004		MW-004	
				Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
N	SW8260B	Methyl cyclohexane	ATMW00212013XX 05/06/13 FS 480-38011-1 ug/l	60 J		0.18 J		1 UJ		1 U		100 J		5 UJ	
N	SW8260B	Methyl Tertbutyl Ether	DCMW00212013XX 05/08/13 FS 480-38011-1 ug/l	7		1 U		1 U		1 U		1 U		5 U	
N	SW8260B	Methylene chloride	ATMW00312013XX 05/06/13 FS 480-38011-1 ug/l	5 U		1 U		1 U		1 U		1 U		5 U	
N	SW8260B	Styrene	DCMW00312013XX 05/07/13 FS 480-38011-1 ug/l	5 U		1 U		1 U		1 U		1 U		5 U	
N	SW8260B	Tetrachloroethene	ATMW00412013XX 05/07/13 FS 480-38011-1 ug/l	2.9 J		100		1 U		46		0.26 J		620	
N	SW8260B	Toluene	DCMW00412013XD 05/08/13 FD 480-38011-1 ug/l	160		1 U		1 U		1 U		11		5 U	
N	SW8260B	trans-1,2-Dichloroethene		5 UJ		0.99 J		1 UJ		1 UJ		1 UJ		5 UJ	
N	SW8260B	trans-1,3-Dichloropropene		5 U		1 U		1 U		1 U		1 U		5 U	
N	SW8260B	Trichloroethene		5 U		16		0.11 J		4.7		0.81 J		4.4 J	
N	SW8260B	Trichlorofluoromethane		5 U		1 U		1 U		1 U		1 U		5 U	
N	SW8260B	Vinyl chloride		5 U		0.93 J		1 U		1 U		1 U		5 U	
N	SW8260B	Xylenes, Total		660		3 U		3 U		3 U		13		15 U	

Notes:

N = normal

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FD = field duplicate

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H = exceeds holding time

ug/l = microgram per liter

**TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK**

		Location	MW-004	MW-005	MW-006	MW-006	MW-007	MW-007	
		COC Sample	DCMW00412013XX	ATMW00512013XX	ATMW00612013XX	DCMW00612013XX	ATMW00712013XX	DCMW00712013XX	
		Date Sampled	05/08/13	05/06/13	05/06/13	05/07/13	05/06/13	05/07/13	
		Sample Type	FS	FS	FS	FS	FS	FS	
		Report Number	480-38011-1	480-38011-1	480-38011-1	480-38011-1	480-38011-1	480-38011-1	
Fract	Analysis Method	Parameter Name	Units	Result	Qual	Result	Qual	Result	Qual
N	SW8260B	1,1,1-Trichloroethane	ug/l	5 U		1 U		1 U	
N	SW8260B	1,1,2,2-Tetrachloroethane	ug/l	5 U		1 U		1 U	
N	SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	5 UJ		1 UJ		1 UJ	
N	SW8260B	1,1,2-Trichloroethane	ug/l	5 U		1 U		1 U	
N	SW8260B	1,1-Dichloroethane	ug/l	5 U		1 U	0.15 J	1 U	
N	SW8260B	1,1-Dichloroethene	ug/l	5 U		1 U	0.25 J	1 U	
N	SW8260B	1,2,4-Trichlorobenzene	ug/l	5 UJ		1 U		1 U	0.31 J
N	SW8260B	1,2-Dibromo-3-chloropropane	ug/l	5 U		1 U		1 U	
N	SW8260B	1,2-Dibromoethane	ug/l	5 U		1 U		1 U	
N	SW8260B	1,2-Dichlorobenzene	ug/l	5 U		1 U		1 U	
N	SW8260B	1,2-Dichloroethane	ug/l	5 U		1 U		1 U	
N	SW8260B	1,2-Dichloropropane	ug/l	5 U		1 U		1 U	
N	SW8260B	1,3-Dichlorobenzene	ug/l	5 U		1 U	0.43 J	1 U	
N	SW8260B	1,4-Dichlorobenzene	ug/l	5 U		1 U	1.4	1 U	
N	SW8260B	2-Butanone	ug/l	25 UJ		5 UJ		5 UJ	
N	SW8260B	2-Hexanone	ug/l	25 U		5 U		5 U	
N	SW8260B	4-Methyl-2-pentanone	ug/l	25 U		5 U		5 U	
N	SW8260B	Acetic acid, methyl ester	ug/l	10 U		2 U		2 U	
N	SW8260B	Acetone	ug/l	25 UJ		5 UJ		5 UJ	
N	SW8260B	Benzene	ug/l	5 U		1 U	0.11 J	1 U	0.1 J
N	SW8260B	Bromodichloromethane	ug/l	5 U		1 U		1 U	
N	SW8260B	Bromoform	ug/l	5 UJ		1 UJ		1 UJ	
N	SW8260B	Bromomethane	ug/l	5 U		1 U		1 U	
N	SW8260B	Carbon disulfide	ug/l	5 U		1 U		1 U	
N	SW8260B	Carbon tetrachloride	ug/l	5 U		1 U		1 U	
N	SW8260B	Chlorobenzene	ug/l	5 U		1 U		1 U	
N	SW8260B	Chlorodibromomethane	ug/l	5 U		1 U		1 U	
N	SW8260B	Chloroethane	ug/l	5 U		1 U		1 U	
N	SW8260B	Chloroform	ug/l	5 U		1 U		1 U	
N	SW8260B	Chloromethane	ug/l	5 U		1 U		1 U	
N	SW8260B	Cis-1,2-Dichloroethene	ug/l	10 J		1 UJ		0.55 J	130 J
N	SW8260B	cis-1,3-Dichloropropene	ug/l	5 U		1 U		1 U	
N	SW8260B	Cyclohexane	ug/l	5 UJ		1 UJ		0.63 J	1 UJ
N	SW8260B	Dichlorodifluoromethane	ug/l	5 UJ		1 UJ		1 UJ	
N	SW8260B	Ethyl benzene	ug/l	5 U		1 U		1 U	
N	SW8260B	Isopropylbenzene	ug/l	5 U		1 U	0.1 J	1 U	

**TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK**

			Location		MW-004		MW-005		MW-006		MW-006		MW-007		MW-007		
			COC Sample		DCMW00412013XX		ATMW00512013XX		ATMW00612013XX		DCMW00612013XX		ATMW00712013XX		DCMW00712013XX		
			Date Sampled		05/08/13		05/06/13		05/06/13		05/07/13		05/06/13		05/07/13		
			Sample Type		FS		FS		FS		FS		FS		FS		
			Report Number		480-38011-1		480-38011-1		480-38011-1		480-38011-1		480-38011-1		480-38011-1		
Frac	Analysis Method	Parameter Name	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual		
N	SW8260B	Methyl cyclohexane	ug/l	5	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	U
N	SW8260B	Methyl Tertbutyl Ether	ug/l	5	U	0.14	J	1	U	1	U	1	U	3.9		1	U
N	SW8260B	Methylene chloride	ug/l	5	U	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	Styrene	ug/l	5	U	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	Tetrachloroethene	ug/l	660		1	U	1	U	0.11	J	1	U	1	U	190	
N	SW8260B	Toluene	ug/l	5	U	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	trans-1,2-Dichloroethene	ug/l	5	UJ	1	UJ	0.23	J	1	UJ	1	UJ	1	UJ	0.74	J
N	SW8260B	trans-1,3-Dichloropropene	ug/l	5	U	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	Trichloroethene	ug/l	3.7	J	1	U	1	U	0.39	J	1	U	1	U	29	
N	SW8260B	Trichlorofluoromethane	ug/l	5	UJ	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	Vinyl chloride	ug/l	5	U	1	U	1	U	0.21	J	1	U	1	U	1.1	
N	SW8260B	Xylenes, Total	ug/l	15	U	3	U	3	U	3	U	3	U	3	U	3	U

Notes:

N = normal

FS = field sample

FD = field duplicate

U = not detected, value is the reporting limit

J = value is estimated

H = exceeds holding time

ug/l = microgram per liter

**TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK**

		Location	MW-008		MW-008		MW-009		MW-009		MW-010		MW-011		
		COC Sample	ATMW00812013XX		DCMW00812013XX		ATMW00912013XX		DCMW00912013XX		DCMW01012013XX		DCMW01112013XX		
		Date Sampled	05/07/13		05/07/13		05/07/13		05/07/13		05/07/13		05/06/13		
		Sample Type	FS		FS		FS		FS		FS		FS		
		Report Number	480-38011-1		480-38011-1		480-38011-1		480-38011-1		480-38011-1		480-38011-1		
Fract	Analysis Method	Parameter Name	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
N	SW8260B	1,1,1-Trichloroethane	ug/l	47		1 U		1 U		0.12 J		1 U		1 U	
N	SW8260B	1,1,2,2-Tetrachloroethane	ug/l	1 U		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	1 UJ		1 UJ		1 UJ		1 UJ		1 UJ		1 UJ	
N	SW8260B	1,1,2-Trichloroethane	ug/l	1 U		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	1,1-Dichloroethane	ug/l	1.5		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	1,1-Dichloroethene	ug/l	0.55 J		1 U		1 U		0.19 J		1 U		1 U	
N	SW8260B	1,2,4-Trichlorobenzene	ug/l	1 U		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	1,2-Dibromo-3-chloropropane	ug/l	1 U		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	1,2-Dibromoethane	ug/l	1 U		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	1,2-Dichlorobenzene	ug/l	1 U		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	1,2-Dichloroethane	ug/l	1 U		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	1,2-Dichloropropane	ug/l	1 U		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	1,3-Dichlorobenzene	ug/l	1 U		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	1,4-Dichlorobenzene	ug/l	1 U		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	2-Butanone	ug/l	5 UJ		5 UJ		5 UJ		5 UJ		5 UJ		5 UJ	
N	SW8260B	2-Hexanone	ug/l	5 U		5 U		5 U		5 U		5 U		5 U	
N	SW8260B	4-Methyl-2-pentanone	ug/l	5 U		5 U		5 U		5 U		5 U		5 U	
N	SW8260B	Acetic acid, methyl ester	ug/l	2 U		2 U		2 U		2 U		2 U		2 U	
N	SW8260B	Acetone	ug/l	5 UJ		5 UJ		5 UJ		5 UJ		5 UJ		5 UJ	
N	SW8260B	Benzene	ug/l	1 U		1 U		0.13 J		0.099 J		1 U		1 U	
N	SW8260B	Bromodichloromethane	ug/l	1 U		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	Bromoform	ug/l	1 UJ		1 U		1 U		1 UJ		1 U		1 UJ	
N	SW8260B	Bromomethane	ug/l	1 U		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	Carbon disulfide	ug/l	1 U		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	Carbon tetrachloride	ug/l	1 U		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	Chlorobenzene	ug/l	1 U		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	Chlorodibromomethane	ug/l	1 U		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	Chloroethane	ug/l	1 U		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	Chloroform	ug/l	0.12 J		0.17 J		1 U		1 U		0.18 J		1 U	
N	SW8260B	Chloromethane	ug/l	1 U		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	Cis-1,2-Dichloroethene	ug/l	12 J		42 J		2.4 J		150 J		5.9 J		1 UJ	
N	SW8260B	cis-1,3-Dichloropropene	ug/l	1 U		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	Cyclohexane	ug/l	1 UJ		1 UJ		12 J		1 UJ		1 UJ		1 UJ	
N	SW8260B	Dichlorodifluoromethane	ug/l	1 UJ		1 UJ		1 UJ		1 UJ		1 UJ		1 UJ	
N	SW8260B	Ethyl benzene	ug/l	1 U		1 U		11		1 U		1 U		1 U	
N	SW8260B	Isopropylbenzene	ug/l	1 U		1 U		2.2		1 U		1 U		1 U	

**TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK**

		Location	MW-008		MW-008		MW-009		MW-009		MW-010		MW-011		
		COC Sample	ATMW00812013XX		DCMW00812013XX		ATMW00912013XX		DCMW00912013XX		DCMW01012013XX		DCMW01112013XX		
		Date Sampled	05/07/13		05/07/13		05/07/13		05/07/13		05/07/13		05/06/13		
		Sample Type	FS		FS		FS		FS		FS		FS		
		Report Number	480-38011-1		480-38011-1		480-38011-1		480-38011-1		480-38011-1		480-38011-1		
Frac	Analysis Method	Parameter Name	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
N	SW8260B	Methyl cyclohexane	ug/l	1 UJ		1 U		3.3		1 UJ		1 U		1 UJ	
N	SW8260B	Methyl Tertbutyl Ether	ug/l	2		1 U		3.5		1 U		1 U		1.3	
N	SW8260B	Methylene chloride	ug/l	1 U		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	Styrene	ug/l	1 U		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	Tetrachloroethene	ug/l	1.5		85		2.1		50		270		0.15 J	
N	SW8260B	Toluene	ug/l	1 U		1 U		1.5		1 U		1 U		1 U	
N	SW8260B	trans-1,2-Dichloroethene	ug/l	0.13 J		0.33 J		1 UJ		0.81 J		1 UJ		1 UJ	
N	SW8260B	trans-1,3-Dichloropropene	ug/l	1 U		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	Trichloroethene	ug/l	33		8.2		3		11		2.2		1.4	
N	SW8260B	Trichlorofluoromethane	ug/l	1 U		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	Vinyl chloride	ug/l	0.58 J		0.59 J		1 U		0.15 J		1 U		1 U	
N	SW8260B	Xylenes, Total	ug/l	3 U		3 U		25		3 U		3 U		3 U	

Notes:

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ug/l = microgram per liter

**TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK**

		Location	MW-012		MW-013		MW-014		MW-015		MW-016		MW-017	
		COC Sample	DCMW1212013XX		DCMW1312013XX		DCMW1412013XX		DCMW1512013XX		DCMW1612013XX		DCMW1712013XX	
		Date Sampled	05/08/13		05/08/13		05/08/13		05/08/13		05/09/13		05/09/13	
		Sample Type	FS		FS		FS		FS		FS		FS	
		Report Number	480-38011-1		480-38011-1		480-38151-1		480-38151-1		480-38151-1		480-38151-1	
Fract	Analysis Method	Parameter Name	Units		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
N	SW8260B	1,1,1-Trichloroethane	ug/l		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	1,1,2,2-Tetrachloroethane	ug/l		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l		1 UJ		1 UJ		1 U		1 U		1 U	
N	SW8260B	1,1,2-Trichloroethane	ug/l		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	1,1-Dichloroethane	ug/l		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	1,1-Dichloroethene	ug/l		0.12 J		0.6 J		1 U		1 U		1 U	
N	SW8260B	1,2,4-Trichlorobenzene	ug/l		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	1,2-Dibromo-3-chloropropane	ug/l		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	1,2-Dibromoethane	ug/l		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	1,2-Dichlorobenzene	ug/l		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	1,2-Dichloroethane	ug/l		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	1,2-Dichloropropane	ug/l		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	1,3-Dichlorobenzene	ug/l		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	1,4-Dichlorobenzene	ug/l		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	2-Butanone	ug/l		5 UJ		5 UJ		5 U		5 U		5 U	
N	SW8260B	2-Hexanone	ug/l		5 U		5 U		5 UJ		5 UJ		5 UJ	
N	SW8260B	4-Methyl-2-pentanone	ug/l		5 U		5 U		5 UJ		5 UJ		5 UJ	
N	SW8260B	Acetic acid, methyl ester	ug/l		2 U		2 U		2 U		2 U		2 U	
N	SW8260B	Acetone	ug/l		5 UJ		5 UJ		5 UJ		5 UJ		5 UJ	
N	SW8260B	Benzene	ug/l		0.084 J		0.13 J		1 U		1 U		1 U	
N	SW8260B	Bromodichloromethane	ug/l		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	Bromoform	ug/l		1 U		1 UJ		1 U		1 U		1 U	
N	SW8260B	Bromomethane	ug/l		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	Carbon disulfide	ug/l		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	Carbon tetrachloride	ug/l		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	Chlorobenzene	ug/l		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	Chlorodibromomethane	ug/l		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	Chloroethane	ug/l		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	Chloroform	ug/l		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	Chloromethane	ug/l		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	Cis-1,2-Dichloroethene	ug/l		81 J		270 J		92		1 U		2.7	
N	SW8260B	cis-1,3-Dichloropropene	ug/l		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	Cyclohexane	ug/l		1 UJ		1 UJ		1 U		1 U		1 U	
N	SW8260B	Dichlorodifluoromethane	ug/l		1 UJ		1 UJ		1 U		1 U		1 U	
N	SW8260B	Ethyl benzene	ug/l		1 U		1 U		1 U		1 U		1 U	
N	SW8260B	Isopropylbenzene	ug/l		1 U		1 U		1 U		1 U		1 U	

**TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK**

		Location	MW-012		MW-013		MW-014		MW-015		MW-016		MW-017	
		COC Sample	DCMW1212013XX		DCMW1312013XX		DCMW1412013XX		DCMW1512013XX		DCMW1612013XX		DCMW1712013XX	
		Date Sampled	05/08/13		05/08/13		05/08/13		05/08/13		05/09/13		05/09/13	
		Sample Type	FS		FS		FS		FS		FS		FS	
		Report Number	480-38011-1		480-38011-1		480-38151-1		480-38151-1		480-38151-1		480-38151-1	
Frac/Analysis Method	Parameter Name	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
N SW8260B	Methyl cyclohexane	ug/l	1	U	1	UJ	1	U	1	U	1	U	1	U
N SW8260B	Methyl Tertbutyl Ether	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N SW8260B	Methylene chloride	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N SW8260B	Styrene	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N SW8260B	Tetrachloroethene	ug/l	200		250		150		1	U	250		67	
N SW8260B	Toluene	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N SW8260B	trans-1,2-Dichloroethene	ug/l	0.55	J	1.5	J	0.76	J	1	U	1	U	1	U
N SW8260B	trans-1,3-Dichloropropene	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N SW8260B	Trichloroethene	ug/l	24		54		19		1	U	7.8		11	
N SW8260B	Trichlorofluoromethane	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N SW8260B	Vinyl chloride	ug/l	1	U	2.2		2.1		1	U	1	U	0.54	J
N SW8260B	Xylenes, Total	ug/l	3	U	3	U	3	U	3	U	3	U	3	U

Notes:

N = normal
 FS = field sample
 FD = field duplicate
 U = not detected, value is the reporting limit
 J = value is estimated
 H = exceeds holding time
 ug/l = microgram per liter

**TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK**

		Location	MW-018		MW-019		MW-020		MW-021		MW-022		MW-023		
		COC Sample	DCMW1812013XX		DCMW1912013XX		DCMW2012013XX		DCMW2112013XX		DCMW2212013XX		DCMW2312013XX		
		Date Sampled	05/09/13		05/09/13		05/09/13		05/09/13		05/09/13		05/09/13		
		Sample Type	FS		FS		FS		FS		FS		FS		
		Report Number	480-38151-1		480-38151-1		480-38151-1		480-38151-1		480-38151-1		480-38151-1		
Frac	Analysis Method	Parameter Name	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
N	SW8260B	1,1,1-Trichloroethane	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	1,1,2,2-Tetrachloroethane	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	1,1,2-Trichloroethane	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	1,1-Dichloroethane	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	1,1-Dichloroethene	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	1,2,4-Trichlorobenzene	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	1,2-Dibromo-3-chloropropane	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	1,2-Dibromoethane	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	1,2-Dichlorobenzene	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	1,2-Dichloroethane	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	1,2-Dichloropropane	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	1,3-Dichlorobenzene	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	1,4-Dichlorobenzene	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	2-Butanone	ug/l	5	U	5	U	5	U	18		5	U	5	U
N	SW8260B	2-Hexanone	ug/l	5	UJ	5	UJ	5	UJ	5	UJ	5	UJ	5	UJ
N	SW8260B	4-Methyl-2-pentanone	ug/l	5	UJ	5	UJ	5	UJ	5	UJ	5	UJ	5	UJ
N	SW8260B	Acetic acid, methyl ester	ug/l	2	U	2	U	2	U	2	U	2	U	2	U
N	SW8260B	Acetone	ug/l	5	UJ	36	J	5	UJ	440	J	5	UJ	5	UJ
N	SW8260B	Benzene	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	Bromodichloromethane	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	Bromoform	ug/l	1	U	1	U	1	U	4		1	U	1	U
N	SW8260B	Bromomethane	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	Carbon disulfide	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	Carbon tetrachloride	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	Chlorobenzene	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	Chlorodibromomethane	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	Chloroethane	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	Chloroform	ug/l	1	U	1	U	1	U	0.68	J	1	U	1	U
N	SW8260B	Chloromethane	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	Cis-1,2-Dichloroethene	ug/l	84		2		100		1	U	12		1	U
N	SW8260B	cis-1,3-Dichloropropene	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	Cyclohexane	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	Dichlorodifluoromethane	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	Ethyl benzene	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	Isopropylbenzene	ug/l	1	U	1	U	1	U	1	U	1.4		1	U

**TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK**

		Location	MW-018		MW-019		MW-020		MW-021		MW-022		MW-023		
		COC Sample	DCMW1812013XX		DCMW1912013XX		DCMW2012013XX		DCMW2112013XX		DCMW2212013XX		DCMW2312013XX		
		Date Sampled	05/09/13		05/09/13		05/09/13		05/09/13		05/09/13		05/09/13		
		Sample Type	FS		FS		FS		FS		FS		FS		
		Report Number	480-38151-1		480-38151-1		480-38151-1		480-38151-1		480-38151-1		480-38151-1		
Frac	Analysis Method	Parameter Name	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Qual	
N	SW8260B	Methyl cyclohexane	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	Methyl Tertbutyl Ether	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	Methylene chloride	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	Styrene	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	Tetrachloroethene	ug/l	110		1.2		2		1	U	65		1	
N	SW8260B	Toluene	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	trans-1,2-Dichloroethene	ug/l	0.38	J	1	U	1	U	1	U	1	U	1	U
N	SW8260B	trans-1,3-Dichloropropene	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	Trichloroethene	ug/l	9.6		1	U	1.1		1	U	3		1	U
N	SW8260B	Trichlorofluoromethane	ug/l	1	U	1	U	1	U	1	U	1	U	1	U
N	SW8260B	Vinyl chloride	ug/l	1.4		1	U	6.2		1	U	2		1	U
N	SW8260B	Xylenes, Total	ug/l	3	U	3	U	3	U	3	U	3	U	3	U

Notes:

N = normal

FS = field sample

FD = field duplicate

U = not detected, value is the reporting limit

J = value is estimated

H = exceeds holding time

ug/l = microgram per liter

Prepared by / Date: KJC 06/26/13

Checked by / Date: TLC 07/12/13

**TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK**

Fract	Analysis Method	Parameter Name	Location COC Sample Date Sampled Sample Type Report Number Units	QC TRIP BLANK 05/08/13 TB 480-38011-1		QC TRIP BLANK 05/09/13 TB 480-38151-1	
				Result	Qual	Result	Qual
N	SW8260B	1,1,1-Trichloroethane	ug/l	1	U	1	U
N	SW8260B	1,1,2,2-Tetrachloroethane	ug/l	1	U	1	U
N	SW8260B	1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l	1	U	1	U
N	SW8260B	1,1,2-Trichloroethane	ug/l	1	U	1	U
N	SW8260B	1,1-Dichloroethane	ug/l	1	U	1	U
N	SW8260B	1,1-Dichloroethene	ug/l	1	U	1	U
N	SW8260B	1,2,4-Trichlorobenzene	ug/l	1	U	1	U
N	SW8260B	1,2-Dibromo-3-chloropropane	ug/l	1	U	1	U
N	SW8260B	1,2-Dibromoethane	ug/l	1	U	1	U
N	SW8260B	1,2-Dichlorobenzene	ug/l	1	U	1	U
N	SW8260B	1,2-Dichloroethane	ug/l	1	U	1	U
N	SW8260B	1,2-Dichloropropane	ug/l	1	U	1	U
N	SW8260B	1,3-Dichlorobenzene	ug/l	1	U	1	U
N	SW8260B	1,4-Dichlorobenzene	ug/l	1	U	1	U
N	SW8260B	2-Butanone	ug/l	5	U	5	U
N	SW8260B	2-Hexanone	ug/l	5	U	5	U
N	SW8260B	4-Methyl-2-pentanone	ug/l	5	U	5	U
N	SW8260B	Acetic acid, methyl ester	ug/l	2	U	2	U
N	SW8260B	Acetone	ug/l	5	U	5	U
N	SW8260B	Benzene	ug/l	1	U	1	U
N	SW8260B	Bromodichloromethane	ug/l	1	U	1	U
N	SW8260B	Bromoform	ug/l	1	U	1	U
N	SW8260B	Bromomethane	ug/l	1	U	1	U
N	SW8260B	Carbon disulfide	ug/l	1	U	1	U
N	SW8260B	Carbon tetrachloride	ug/l	1	U	1	U
N	SW8260B	Chlorobenzene	ug/l	1	U	1	U
N	SW8260B	Chlorodibromomethane	ug/l	1	U	1	U
N	SW8260B	Chloroethane	ug/l	1	U	1	U
N	SW8260B	Chloroform	ug/l	1	U	1	U
N	SW8260B	Chloromethane	ug/l	1	U	1	U
N	SW8260B	Cis-1,2-Dichloroethene	ug/l	1	U	1	U
N	SW8260B	cis-1,3-Dichloropropene	ug/l	1	U	1	U
N	SW8260B	Cyclohexane	ug/l	1	U	1	U
N	SW8260B	Dichlorodifluoromethane	ug/l	1	U	1	U
N	SW8260B	Ethyl benzene	ug/l	1	U	1	U
N	SW8260B	Isopropylbenzene	ug/l	1	U	1	U
N	SW8260B	Methyl cyclohexane	ug/l	1	U	1	U
N	SW8260B	Methyl Tertbutyl Ether	ug/l	1	U	1	U
N	SW8260B	Methylene chloride	ug/l	0.67	J	1	U
N	SW8260B	Styrene	ug/l	1	U	1	U
N	SW8260B	Tetrachloroethene	ug/l	1	U	1	U
N	SW8260B	Toluene	ug/l	1	U	1	U

**TABLE 2
FINAL RESULTS SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK**

Fract	Analysis Method	Parameter Name	Location COC Sample Date Sampled Sample Type Report Number Units	QC TRIP BLANK 05/08/13 TB 480-38011-1		QC TRIP BLANK 05/09/13 TB 480-38151-1	
				Result	Qual	Result	Qual
N	SW8260B	trans-1,2-Dichloroethene	ug/l	1 U		1 U	
N	SW8260B	trans-1,3-Dichloropropene	ug/l	1 U		1 U	
N	SW8260B	Trichloroethene	ug/l	1 U		1 U	
N	SW8260B	Trichlorofluoromethane	ug/l	1 U		1 U	
N	SW8260B	Vinyl chloride	ug/l	1 U		1 U	
N	SW8260B	Xylenes, Total	ug/l	3 U		3 U	

Notes:

N = normal

TB = trip blank

U = not detected, value is the reporting limit

J = value is estimated

ug/l = microgram per liter

Prepared by / Date: KJC 06/26/13

Checked by / Date: TLC 07/12/13

**TABLE 3
VALIDATION QUALIFICATION ACTION SUMMARY
DATA USABILITY SUMMARY REPORT
MAY 2013 SOIL AND GROUNDWATER SAMPLING
DIAMOND CLEANERS SITE
ELMIRA, NEW YORK**

SDG	Lab Sample ID	Analytical Method	Field Sample ID	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units
480-38011-1	480-38011-1	SW8260B	DCMW00412013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	5.0	U	5.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-1	SW8260B	DCMW00412013XX	1,2,4-Trichlorobenzene	5.0	U	5.0	UJ	MS-RPD	ug/l
480-38011-1	480-38011-1	SW8260B	DCMW00412013XX	2-Butanone	25	U	25	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-1	SW8260B	DCMW00412013XX	Acetone	25	U	25	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-1	SW8260B	DCMW00412013XX	Bromoform	5.0	U	5.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-1	SW8260B	DCMW00412013XX	Cis-1,2-Dichloroethene	10		10	J	CCV%D	ug/l
480-38011-1	480-38011-1	SW8260B	DCMW00412013XX	Cyclohexane	5.0	U*	5.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-1	SW8260B	DCMW00412013XX	Dichlorodifluoromethane	5.0	U	5.0	UJ	CCV%D, LCS-L, MS-L	ug/l
480-38011-1	480-38011-1	SW8260B	DCMW00412013XX	Methyl cyclohexane	5.0	U*	5.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-1	SW8260B	DCMW00412013XX	trans-1,2-Dichloroethene	5.0	U	5.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-1	SW8260B	DCMW00412013XX	Trichlorofluoromethane	5.0	U	5.0	UJ	MS-L	ug/l
480-38011-1	480-38011-10	SW8260B	ATMW00712013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-10	SW8260B	ATMW00712013XX	2-Butanone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-10	SW8260B	ATMW00712013XX	Acetone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-10	SW8260B	ATMW00712013XX	Bromoform	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-10	SW8260B	ATMW00712013XX	Cis-1,2-Dichloroethene	0.55	J	0.55	J	CCV%D	ug/l
480-38011-1	480-38011-10	SW8260B	ATMW00712013XX	Cyclohexane	0.63	J*	0.63	J	CCV%D, LCS-H	ug/l
480-38011-1	480-38011-10	SW8260B	ATMW00712013XX	Dichlorodifluoromethane	1.0	U	1.0	UJ	CCV%D, LCS-L	ug/l
480-38011-1	480-38011-10	SW8260B	ATMW00712013XX	Methyl cyclohexane	1.0	U*	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-10	SW8260B	ATMW00712013XX	trans-1,2-Dichloroethene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-11	SW8260B	ATMW00312013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-11	SW8260B	ATMW00312013XX	2-Butanone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-11	SW8260B	ATMW00312013XX	Acetone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-11	SW8260B	ATMW00312013XX	Bromoform	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-11	SW8260B	ATMW00312013XX	Cis-1,2-Dichloroethene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-11	SW8260B	ATMW00312013XX	Cyclohexane	1.0	U*	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-11	SW8260B	ATMW00312013XX	Dichlorodifluoromethane	1.0	U	1.0	UJ	CCV%D, LCS-L	ug/l
480-38011-1	480-38011-11	SW8260B	ATMW00312013XX	Methyl cyclohexane	1.0	U*	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-11	SW8260B	ATMW00312013XX	trans-1,2-Dichloroethene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-12	SW8260B	ATMW00212013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	5.0	U	5.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-12	SW8260B	ATMW00212013XX	2-Butanone	25	U	25	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-12	SW8260B	ATMW00212013XX	Acetone	25	U	25	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-12	SW8260B	ATMW00212013XX	Bromoform	5.0	U	5.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-12	SW8260B	ATMW00212013XX	Cis-1,2-Dichloroethene	5.0	U	5.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-12	SW8260B	ATMW00212013XX	Cyclohexane	85	*	85	J	CCV%D, LCS-H	ug/l
480-38011-1	480-38011-12	SW8260B	ATMW00212013XX	Dichlorodifluoromethane	5.0	U	5.0	UJ	CCV%D, LCS-L	ug/l
480-38011-1	480-38011-12	SW8260B	ATMW00212013XX	Methyl cyclohexane	60	*	60	J	CCV%D, LCS-H	ug/l
480-38011-1	480-38011-12	SW8260B	ATMW00212013XX	trans-1,2-Dichloroethene	5.0	U	5.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-13	SW8260B	ATMW00412013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-13	SW8260B	ATMW00412013XX	2-Butanone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-13	SW8260B	ATMW00412013XX	Acetone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-13	SW8260B	ATMW00412013XX	Bromoform	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-13	SW8260B	ATMW00412013XX	Cis-1,2-Dichloroethene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-13	SW8260B	ATMW00412013XX	Cyclohexane	170	H	170	JH	HT	ug/l

**TABLE 3
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SDG	Lab Sample ID	Analytical Method	Field Sample ID	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units
480-38011-1	480-38011-13	SW8260B	ATMW00412013XX	Dichlorodifluoromethane	1.0	U	1.0	UJ	CCV%D, LCS-L	ug/l
480-38011-1	480-38011-13	SW8260B	ATMW00412013XX	Methyl cyclohexane	100	*	100	J	CCV%D, LCS-H	ug/l
480-38011-1	480-38011-13	SW8260B	ATMW00412013XX	trans-1,2-Dichloroethene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-14	SW8260B	ATMW00812013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-14	SW8260B	ATMW00812013XX	2-Butanone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-14	SW8260B	ATMW00812013XX	Acetone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-14	SW8260B	ATMW00812013XX	Bromoform	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-14	SW8260B	ATMW00812013XX	Cis-1,2-Dichloroethene	12		12	J	CCV%D	ug/l
480-38011-1	480-38011-14	SW8260B	ATMW00812013XX	Cyclohexane	1.0	U*	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-14	SW8260B	ATMW00812013XX	Dichlorodifluoromethane	1.0	U	1.0	UJ	CCV%D, LCS-L	ug/l
480-38011-1	480-38011-14	SW8260B	ATMW00812013XX	Methyl cyclohexane	1.0	U*	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-14	SW8260B	ATMW00812013XX	trans-1,2-Dichloroethene	0.13	J	0.13	J	CCV%D	ug/l
480-38011-1	480-38011-15	SW8260B	DCMW00912013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-15	SW8260B	DCMW00912013XX	2-Butanone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-15	SW8260B	DCMW00912013XX	Acetone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-15	SW8260B	DCMW00912013XX	Bromoform	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-15	SW8260B	DCMW00912013XX	Cis-1,2-Dichloroethene	150		150	J	CCV%D	ug/l
480-38011-1	480-38011-15	SW8260B	DCMW00912013XX	Cyclohexane	1.0	U*	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-15	SW8260B	DCMW00912013XX	Dichlorodifluoromethane	1.0	U	1.0	UJ	CCV%D, LCS-L	ug/l
480-38011-1	480-38011-15	SW8260B	DCMW00912013XX	Methyl cyclohexane	1.0	U*	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-15	SW8260B	DCMW00912013XX	trans-1,2-Dichloroethene	0.81	J	0.81	J	CCV%D	ug/l
480-38011-1	480-38011-16	SW8260B	DCMW00612013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-16	SW8260B	DCMW00612013XX	2-Butanone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-16	SW8260B	DCMW00612013XX	Acetone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-16	SW8260B	DCMW00612013XX	Bromoform	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-16	SW8260B	DCMW00612013XX	Cis-1,2-Dichloroethene	13		13	J	CCV%D	ug/l
480-38011-1	480-38011-16	SW8260B	DCMW00612013XX	Cyclohexane	1.0	U*	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-16	SW8260B	DCMW00612013XX	Dichlorodifluoromethane	1.0	U	1.0	UJ	CCV%D, LCS-L	ug/l
480-38011-1	480-38011-16	SW8260B	DCMW00612013XX	Methyl cyclohexane	1.0	U*	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-16	SW8260B	DCMW00612013XX	trans-1,2-Dichloroethene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-17	SW8260B	DCMW00312013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-17	SW8260B	DCMW00312013XX	2-Butanone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-17	SW8260B	DCMW00312013XX	Acetone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-17	SW8260B	DCMW00312013XX	Cis-1,2-Dichloroethene	14		14	J	CCV%D	ug/l
480-38011-1	480-38011-17	SW8260B	DCMW00312013XX	Cyclohexane	1.0	U*	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-17	SW8260B	DCMW00312013XX	Dichlorodifluoromethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-17	SW8260B	DCMW00312013XX	trans-1,2-Dichloroethene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-18	SW8260B	DCMW00112013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-18	SW8260B	DCMW00112013XX	2-Butanone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-18	SW8260B	DCMW00112013XX	Acetone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-18	SW8260B	DCMW00112013XX	Cis-1,2-Dichloroethene	2.4		2.4	J	CCV%D	ug/l
480-38011-1	480-38011-18	SW8260B	DCMW00112013XX	Cyclohexane	1.0	U*	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-18	SW8260B	DCMW00112013XX	Dichlorodifluoromethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-18	SW8260B	DCMW00112013XX	trans-1,2-Dichloroethene	1.0	U	1.0	UJ	CCV%D	ug/l

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SDG	Lab Sample ID	Analytical Method	Field Sample ID	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units
480-38011-1	480-38011-19	SW8260B	DCMW01012013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-19	SW8260B	DCMW01012013XX	2-Butanone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-19	SW8260B	DCMW01012013XX	Acetone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-19	SW8260B	DCMW01012013XX	Cis-1,2-Dichloroethene	5.9		5.9	J	CCV%D	ug/l
480-38011-1	480-38011-19	SW8260B	DCMW01012013XX	Cyclohexane	1.0	U *	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-19	SW8260B	DCMW01012013XX	Dichlorodifluoromethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-19	SW8260B	DCMW01012013XX	trans-1,2-Dichloroethene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-2	SW8260B	DCMW00412013XD	1,1,2-Trichloro-1,2,2-Trifluoroethane	5.0	U	5.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-2	SW8260B	DCMW00412013XD	2-Butanone	25	U	25	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-2	SW8260B	DCMW00412013XD	Acetone	25	U	25	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-2	SW8260B	DCMW00412013XD	Bromoform	5.0	U	5.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-2	SW8260B	DCMW00412013XD	Cis-1,2-Dichloroethene	9.4		9.4	J	CCV%D	ug/l
480-38011-1	480-38011-2	SW8260B	DCMW00412013XD	Cyclohexane	5.0	U *	5.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-2	SW8260B	DCMW00412013XD	Dichlorodifluoromethane	5.0	U	5.0	UJ	CCV%D, LCS-L	ug/l
480-38011-1	480-38011-2	SW8260B	DCMW00412013XD	Methyl cyclohexane	5.0	U *	5.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-2	SW8260B	DCMW00412013XD	trans-1,2-Dichloroethene	5.0	U	5.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-20	SW8260B	DCGW01312013XX	1,2,4-Trichlorobenzene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-20	SW8260B	DCGW01312013XX	1,2-Dibromo-3-chloropropane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-20	SW8260B	DCGW01312013XX	1,2-Dichlorobenzene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-20	SW8260B	DCGW01312013XX	1,3-Dichlorobenzene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-20	SW8260B	DCGW01312013XX	1,4-Dichlorobenzene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-20	SW8260B	DCGW01312013XX	2-Butanone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-20	SW8260B	DCGW01312013XX	2-Hexanone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-20	SW8260B	DCGW01312013XX	4-Methyl-2-pentanone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-20	SW8260B	DCGW01312013XX	Acetone	13		13	J	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-20	SW8260B	DCGW01312013XX	Bromoform	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-20	SW8260B	DCGW01312013XX	Bromomethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-20	SW8260B	DCGW01312013XX	Chlorodibromomethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-20	SW8260B	DCGW01312013XX	Dichlorodifluoromethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-21	SW8260B	DCMW01112013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-21	SW8260B	DCMW01112013XX	2-Butanone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-21	SW8260B	DCMW01112013XX	Acetone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-21	SW8260B	DCMW01112013XX	Bromoform	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-21	SW8260B	DCMW01112013XX	Cis-1,2-Dichloroethene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-21	SW8260B	DCMW01112013XX	Cyclohexane	1.0	U *	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-21	SW8260B	DCMW01112013XX	Dichlorodifluoromethane	1.0	U	1.0	UJ	CCV%D, LCS-L	ug/l
480-38011-1	480-38011-21	SW8260B	DCMW01112013XX	Methyl cyclohexane	1.0	U *	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-21	SW8260B	DCMW01112013XX	trans-1,2-Dichloroethene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-22	SW8260B	ATMW00612013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-22	SW8260B	ATMW00612013XX	2-Butanone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-22	SW8260B	ATMW00612013XX	Acetone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-22	SW8260B	ATMW00612013XX	Bromoform	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-22	SW8260B	ATMW00612013XX	Cis-1,2-Dichloroethene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-22	SW8260B	ATMW00612013XX	Cyclohexane	1.0	U *	1.0	UJ	CCV%D	ug/l

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SDG	Lab Sample ID	Analytical Method	Field Sample ID	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units
480-38011-1	480-38011-22	SW8260B	ATMW00612013XX	Dichlorodifluoromethane	1.0	U	1.0	UJ	CCV%D, LCS-L	ug/l
480-38011-1	480-38011-22	SW8260B	ATMW00612013XX	Methyl cyclohexane	1.0	U *	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-22	SW8260B	ATMW00612013XX	trans-1,2-Dichloroethene	0.23	J	0.23	J	CCV%D	ug/l
480-38011-1	480-38011-23	SW8260B	ATMW00512013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-23	SW8260B	ATMW00512013XX	2-Butanone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-23	SW8260B	ATMW00512013XX	Acetone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-23	SW8260B	ATMW00512013XX	Bromoform	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-23	SW8260B	ATMW00512013XX	Cis-1,2-Dichloroethene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-23	SW8260B	ATMW00512013XX	Cyclohexane	1.0	U *	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-23	SW8260B	ATMW00512013XX	Dichlorodifluoromethane	1.0	U	1.0	UJ	CCV%D, LCS-L	ug/l
480-38011-1	480-38011-23	SW8260B	ATMW00512013XX	Methyl cyclohexane	1.0	U *	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-23	SW8260B	ATMW00512013XX	trans-1,2-Dichloroethene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-24	SW8260B	ATMW00112013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-24	SW8260B	ATMW00112013XX	1,2,4-Trichlorobenzene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-24	SW8260B	ATMW00112013XX	1,2-Dibromo-3-chloropropane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-24	SW8260B	ATMW00112013XX	2-Butanone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-24	SW8260B	ATMW00112013XX	Acetone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-24	SW8260B	ATMW00112013XX	Bromoform	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-24	SW8260B	ATMW00112013XX	Bromomethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-24	SW8260B	ATMW00112013XX	Cis-1,2-Dichloroethene	1.0	U *	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-24	SW8260B	ATMW00112013XX	Cyclohexane	52	*	52	J	CCV%D, LCS-H, MS-H	ug/l
480-38011-1	480-38011-24	SW8260B	ATMW00112013XX	Dichlorodifluoromethane	1.0	U	1.0	UJ	CCV%D, MS-L	ug/l
480-38011-1	480-38011-24	SW8260B	ATMW00112013XX	Methyl cyclohexane	18		18	J	CCV%D	ug/l
480-38011-1	480-38011-24	SW8260B	ATMW00112013XX	trans-1,2-Dichloroethene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-25	SW8260B	ATMW001R12013XX	1,2,4-Trichlorobenzene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-25	SW8260B	ATMW001R12013XX	1,2-Dibromo-3-chloropropane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-25	SW8260B	ATMW001R12013XX	1,2-Dichlorobenzene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-25	SW8260B	ATMW001R12013XX	1,3-Dichlorobenzene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-25	SW8260B	ATMW001R12013XX	1,4-Dichlorobenzene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-25	SW8260B	ATMW001R12013XX	2-Butanone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-25	SW8260B	ATMW001R12013XX	2-Hexanone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-25	SW8260B	ATMW001R12013XX	4-Methyl-2-pentanone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-25	SW8260B	ATMW001R12013XX	Acetone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-25	SW8260B	ATMW001R12013XX	Bromoform	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-25	SW8260B	ATMW001R12013XX	Bromomethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-25	SW8260B	ATMW001R12013XX	Chlorodibromomethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-25	SW8260B	ATMW001R12013XX	Cyclohexane	14	*	14	J	LCS-L	ug/l
480-38011-1	480-38011-25	SW8260B	ATMW001R12013XX	Dichlorodifluoromethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-26	SW8260B	ATMW00912013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-26	SW8260B	ATMW00912013XX	2-Butanone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-26	SW8260B	ATMW00912013XX	Acetone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-26	SW8260B	ATMW00912013XX	Cis-1,2-Dichloroethene	2.4		2.4	J	CCV%D	ug/l
480-38011-1	480-38011-26	SW8260B	ATMW00912013XX	Cyclohexane	12	*	12	J	CCV%D, LCS-H	ug/l
480-38011-1	480-38011-26	SW8260B	ATMW00912013XX	Dichlorodifluoromethane	1.0	U	1.0	UJ	CCV%D	ug/l

**TABLE 3
VALIDATION QUALIFICATION ACTION SUMMARY
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DIAMOND CLEANERS SITE
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SDG	Lab Sample ID	Analytical Method	Field Sample ID	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units
480-38011-1	480-38011-26	SW8260B	ATMW00912013XX	trans-1,2-Dichloroethene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-27	SW8260B	DCMW00812013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-27	SW8260B	DCMW00812013XX	2-Butanone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-27	SW8260B	DCMW00812013XX	Acetone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-27	SW8260B	DCMW00812013XX	Cis-1,2-Dichloroethene	42		42	J	CCV%D	ug/l
480-38011-1	480-38011-27	SW8260B	DCMW00812013XX	Cyclohexane	1.0	U*	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-27	SW8260B	DCMW00812013XX	Dichlorodifluoromethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-27	SW8260B	DCMW00812013XX	trans-1,2-Dichloroethene	0.33	J	0.33	J	CCV%D	ug/l
480-38011-1	480-38011-28	SW8260B	DCMW00712013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-28	SW8260B	DCMW00712013XX	2-Butanone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-28	SW8260B	DCMW00712013XX	Acetone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-28	SW8260B	DCMW00712013XX	Cis-1,2-Dichloroethene	130		130	J	CCV%D	ug/l
480-38011-1	480-38011-28	SW8260B	DCMW00712013XX	Cyclohexane	1.0	U*	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-28	SW8260B	DCMW00712013XX	Dichlorodifluoromethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-28	SW8260B	DCMW00712013XX	trans-1,2-Dichloroethene	0.74	J	0.74	J	CCV%D	ug/l
480-38011-1	480-38011-29	SW8260B	DCGW00212013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-29	SW8260B	DCGW00212013XX	2-Butanone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-29	SW8260B	DCGW00212013XX	Acetone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-29	SW8260B	DCGW00212013XX	Cis-1,2-Dichloroethene	1.7		1.7	J	CCV%D	ug/l
480-38011-1	480-38011-29	SW8260B	DCGW00212013XX	Cyclohexane	1.0	U*	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-29	SW8260B	DCGW00212013XX	Dichlorodifluoromethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-29	SW8260B	DCGW00212013XX	trans-1,2-Dichloroethene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-3	SW8260B	DCMW00212013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-3	SW8260B	DCMW00212013XX	2-Butanone	11		11	J	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-3	SW8260B	DCMW00212013XX	Acetone	2.8	J	2.8	J	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-3	SW8260B	DCMW00212013XX	Cis-1,2-Dichloroethene	220		220	J	CCV%D	ug/l
480-38011-1	480-38011-3	SW8260B	DCMW00212013XX	Cyclohexane	1.0	U*	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-3	SW8260B	DCMW00212013XX	Dichlorodifluoromethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-3	SW8260B	DCMW00212013XX	trans-1,2-Dichloroethene	0.99	J	0.99	J	CCV%D	ug/l
480-38011-1	480-38011-30	SW8260B	DCGW01413013XX	1,2,4-Trichlorobenzene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-30	SW8260B	DCGW01413013XX	1,2-Dibromo-3-chloropropane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-30	SW8260B	DCGW01413013XX	1,2-Dichlorobenzene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-30	SW8260B	DCGW01413013XX	1,3-Dichlorobenzene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-30	SW8260B	DCGW01413013XX	1,4-Dichlorobenzene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-30	SW8260B	DCGW01413013XX	2-Butanone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-30	SW8260B	DCGW01413013XX	2-Hexanone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-30	SW8260B	DCGW01413013XX	4-Methyl-2-pentanone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-30	SW8260B	DCGW01413013XX	Acetone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-30	SW8260B	DCGW01413013XX	Bromoform	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-30	SW8260B	DCGW01413013XX	Bromomethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-30	SW8260B	DCGW01413013XX	Chlorodibromomethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-30	SW8260B	DCGW01413013XX	Dichlorodifluoromethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-4	SW8260B	DCMW1212013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-4	SW8260B	DCMW1212013XX	2-Butanone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l

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SDG	Lab Sample ID	Analytical Method	Field Sample ID	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units
480-38011-1	480-38011-4	SW8260B	DCMW1212013XX	Acetone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-4	SW8260B	DCMW1212013XX	Cis-1,2-Dichloroethene	81		81	J	CCV%D	ug/l
480-38011-1	480-38011-4	SW8260B	DCMW1212013XX	Cyclohexane	1.0	U *	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-4	SW8260B	DCMW1212013XX	Dichlorodifluoromethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-4	SW8260B	DCMW1212013XX	trans-1,2-Dichloroethene	0.55	J	0.55	J	CCV%D	ug/l
480-38011-1	480-38011-5	SW8260B	DCMW1312013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-5	SW8260B	DCMW1312013XX	2-Butanone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-5	SW8260B	DCMW1312013XX	Acetone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-5	SW8260B	DCMW1312013XX	Bromoform	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-5	SW8260B	DCMW1312013XX	Cis-1,2-Dichloroethene	270		270	J	CCV%D	ug/l
480-38011-1	480-38011-5	SW8260B	DCMW1312013XX	Cyclohexane	1.0	U *	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-5	SW8260B	DCMW1312013XX	Dichlorodifluoromethane	1.0	U	1.0	UJ	CCV%D, LCS-L	ug/l
480-38011-1	480-38011-5	SW8260B	DCMW1312013XX	Methyl cyclohexane	1.0	U *	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-5	SW8260B	DCMW1312013XX	trans-1,2-Dichloroethene	1.5		1.5	J	CCV%D	ug/l
480-38011-1	480-38011-7	SW8260B	ATGW02612013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	5.0	U	5.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-7	SW8260B	ATGW02612013XX	2-Butanone	25	U	25	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-7	SW8260B	ATGW02612013XX	Acetone	25	U	25	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-7	SW8260B	ATGW02612013XX	Bromoform	5.0	U	5.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-7	SW8260B	ATGW02612013XX	Cis-1,2-Dichloroethene	63		63	J	CCV%D	ug/l
480-38011-1	480-38011-7	SW8260B	ATGW02612013XX	Cyclohexane	5.0	U *	5.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-7	SW8260B	ATGW02612013XX	Dichlorodifluoromethane	5.0	U	5.0	UJ	CCV%D, LCS-L	ug/l
480-38011-1	480-38011-7	SW8260B	ATGW02612013XX	Methyl cyclohexane	5.0	U *	5.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-7	SW8260B	ATGW02612013XX	trans-1,2-Dichloroethene	5.0	U	5.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-8	SW8260B	ATGW04312013XX	1,2,4-Trichlorobenzene	10	U	10	UJ	CCV%D, MS-RPD	ug/l
480-38011-1	480-38011-8	SW8260B	ATGW04312013XX	1,2-Dibromo-3-chloropropane	10	U	10	UJ	CCV%D, MS-RPD	ug/l
480-38011-1	480-38011-8	SW8260B	ATGW04312013XX	1,2-Dichlorobenzene	10	U	10	UJ	CCV%D	ug/l
480-38011-1	480-38011-8	SW8260B	ATGW04312013XX	1,3-Dichlorobenzene	10	U	10	UJ	CCV%D	ug/l
480-38011-1	480-38011-8	SW8260B	ATGW04312013XX	1,4-Dichlorobenzene	10	U	10	UJ	CCV%D	ug/l
480-38011-1	480-38011-8	SW8260B	ATGW04312013XX	2-Butanone	50	U	50	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-8	SW8260B	ATGW04312013XX	2-Hexanone	50	U	50	UJ	CCV%D, MS-RPD	ug/l
480-38011-1	480-38011-8	SW8260B	ATGW04312013XX	4-Methyl-2-pentanone	50	U	50	UJ	CCV%D	ug/l
480-38011-1	480-38011-8	SW8260B	ATGW04312013XX	Acetone	50	U	50	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-8	SW8260B	ATGW04312013XX	Bromoform	10	U	10	UJ	CCV%D	ug/l
480-38011-1	480-38011-8	SW8260B	ATGW04312013XX	Bromomethane	10	U	10	UJ	CCV%D	ug/l
480-38011-1	480-38011-8	SW8260B	ATGW04312013XX	Chlorodibromomethane	10	U	10	UJ	CCV%D	ug/l
480-38011-1	480-38011-8	SW8260B	ATGW04312013XX	Cis-1,2-Dichloroethene	79		79	J	MS-H	ug/l
480-38011-1	480-38011-8	SW8260B	ATGW04312013XX	Dichlorodifluoromethane	10	U	10	UJ	CCV%D	ug/l
480-38011-1	480-38011-8	SW8260B	ATGW04312013XX	Trichloroethene	54		54	J	MS-H	ug/l
480-38011-1	480-38011-9	SW8260B	ATGW04612013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-9	SW8260B	ATGW04612013XX	2-Butanone	5.0	U	5.0	UJ	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-9	SW8260B	ATGW04612013XX	Acetone	6.0		6.0	J	ICVRRF, CCVRRF	ug/l
480-38011-1	480-38011-9	SW8260B	ATGW04612013XX	Bromoform	1.0	U	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-9	SW8260B	ATGW04612013XX	Cis-1,2-Dichloroethene	14		14	J	CCV%D	ug/l
480-38011-1	480-38011-9	SW8260B	ATGW04612013XX	Cyclohexane	1.0	U *	1.0	UJ	CCV%D	ug/l

**TABLE 3
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 DIAMOND CLEANERS SITE
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SDG	Lab Sample ID	Analytical Method	Field Sample ID	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units
480-38011-1	480-38011-9	SW8260B	ATGW04612013XX	Dichlorodifluoromethane	1.0	U	1.0	UJ	CCV%D, LCS-L	ug/l
480-38011-1	480-38011-9	SW8260B	ATGW04612013XX	Methyl cyclohexane	1.0	U *	1.0	UJ	CCV%D	ug/l
480-38011-1	480-38011-9	SW8260B	ATGW04612013XX	trans-1,2-Dichloroethene	1.0	U	1.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-1	SW8260B	DCMW1412013XX	2-Hexanone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-1	SW8260B	DCMW1412013XX	4-Methyl-2-pentanone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-1	SW8260B	DCMW1412013XX	Acetone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-10	SW8260B	ATGW00212013XX	1,2-Dichloroethane	2.0		2.0	J	FD	ug/l
480-38151-1	480-38151-10	SW8260B	ATGW00212013XX	2-Hexanone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-10	SW8260B	ATGW00212013XX	4-Methyl-2-pentanone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-10	SW8260B	ATGW00212013XX	Acetone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-10	SW8260B	ATGW00212013XX	Tetrachloroethene	12		12	J	MS-L, FD	ug/l
480-38151-1	480-38151-10	SW8260B	ATGW00212013XX	Trichloroethene	2.1		2.1	J	FD	ug/l
480-38151-1	480-38151-11	SW8260B	ATGW00212013XD	1,2-Dichloroethane	1.0	U	1.0	UJ	FD	ug/l
480-38151-1	480-38151-11	SW8260B	ATGW00212013XD	2-Hexanone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-11	SW8260B	ATGW00212013XD	4-Methyl-2-pentanone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-11	SW8260B	ATGW00212013XD	Acetone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-11	SW8260B	ATGW00212013XD	Tetrachloroethene	4.5		4.5	J	MS-L, FD	ug/l
480-38151-1	480-38151-11	SW8260B	ATGW00212013XD	Trichloroethene	0.97	J	0.97	J	FD	ug/l
480-38151-1	480-38151-12	SW8260B	ATGW04512013XX	2-Hexanone	25	U	25	UJ	CCV%D	ug/l
480-38151-1	480-38151-12	SW8260B	ATGW04512013XX	4-Methyl-2-pentanone	25	U	25	UJ	CCV%D	ug/l
480-38151-1	480-38151-12	SW8260B	ATGW04512013XX	Acetone	37		37	J	CCV%D	ug/l
480-38151-1	480-38151-13	SW8260B	DCMW2212013XX	2-Hexanone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-13	SW8260B	DCMW2212013XX	4-Methyl-2-pentanone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-13	SW8260B	DCMW2212013XX	Acetone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-14	SW8260B	DCMW1912013XX	2-Hexanone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-14	SW8260B	DCMW1912013XX	4-Methyl-2-pentanone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-14	SW8260B	DCMW1912013XX	Acetone	36		36	J	CCV%D	ug/l
480-38151-1	480-38151-2	SW8260B	DCMW1512013XX	2-Hexanone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-2	SW8260B	DCMW1512013XX	4-Methyl-2-pentanone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-2	SW8260B	DCMW1512013XX	Acetone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-3	SW8260B	DCMW1712013XX	2-Hexanone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-3	SW8260B	DCMW1712013XX	4-Methyl-2-pentanone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-3	SW8260B	DCMW1712013XX	Acetone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-4	SW8260B	DCMW1812013XX	2-Hexanone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-4	SW8260B	DCMW1812013XX	4-Methyl-2-pentanone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-4	SW8260B	DCMW1812013XX	Acetone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-5	SW8260B	DCMW2012013XX	2-Hexanone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-5	SW8260B	DCMW2012013XX	4-Methyl-2-pentanone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-5	SW8260B	DCMW2012013XX	Acetone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-6	SW8260B	DCMW2112013XX	2-Hexanone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-6	SW8260B	DCMW2112013XX	4-Methyl-2-pentanone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-6	SW8260B	DCMW2112013XX	Acetone	440		440	J	CCV%D	ug/l
480-38151-1	480-38151-8	SW8260B	DCMW2312013XX	2-Hexanone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-8	SW8260B	DCMW2312013XX	4-Methyl-2-pentanone	5.0	U	5.0	UJ	CCV%D	ug/l

**TABLE 3
 VALIDATION QUALIFICATION ACTION SUMMARY
 DATA USABILITY SUMMARY REPORT
 MAY 2013 SOIL AND GROUNDWATER SAMPLING
 DIAMOND CLEANERS SITE
 ELMIRA, NEW YORK**

SDG	Lab Sample ID	Analytical Method	Field Sample ID	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units
480-38151-1	480-38151-8	SW8260B	DCMW2312013XX	Acetone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-9	SW8260B	DCMW1612013XX	2-Hexanone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-9	SW8260B	DCMW1612013XX	4-Methyl-2-pentanone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38151-1	480-38151-9	SW8260B	DCMW1612013XX	Acetone	5.0	U	5.0	UJ	CCV%D	ug/l
480-38152-1	480-38152-1	SW8260B	ATGW026072013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	52	U	52	UJ	CCV%D	ug/kg
480-38152-1	480-38152-1	SW8260B	ATGW026072013XX	Cyclohexane	52	U	52	UJ	CCV%D	ug/kg
480-38152-1	480-38152-1	SW8260B	ATGW026072013XX	Methyl cyclohexane	52	U	52	UJ	CCV%D	ug/kg
480-38152-1	480-38152-10	SW8260B	ATGW045122013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	43	U	43	UJ	CCV%D	ug/kg
480-38152-1	480-38152-10	SW8260B	ATGW045122013XX	Cyclohexane	43	U	43	UJ	CCV%D	ug/kg
480-38152-1	480-38152-10	SW8260B	ATGW045122013XX	Methyl cyclohexane	43	U	43	UJ	CCV%D	ug/kg
480-38152-1	480-38152-11	SW8260B	ATGW045162013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	59	U	59	UJ	CCV%D	ug/kg
480-38152-1	480-38152-11	SW8260B	ATGW045162013XX	Cyclohexane	59	U	59	UJ	CCV%D	ug/kg
480-38152-1	480-38152-11	SW8260B	ATGW045162013XX	Methyl cyclohexane	59	U	59	UJ	CCV%D	ug/kg
480-38152-1	480-38152-2	SW8260B	ATGW026072013XD	1,1,2-Trichloro-1,2,2-Trifluoroethane	53	U	53	UJ	CCV%D	ug/kg
480-38152-1	480-38152-2	SW8260B	ATGW026072013XD	Cyclohexane	53	U	53	UJ	CCV%D	ug/kg
480-38152-1	480-38152-2	SW8260B	ATGW026072013XD	Methyl cyclohexane	53	U	53	UJ	CCV%D	ug/kg
480-38152-1	480-38152-3	SW8260B	ATGW026122013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	52	U	52	UJ	CCV%D	ug/kg
480-38152-1	480-38152-3	SW8260B	ATGW026122013XX	Cyclohexane	52	U	52	UJ	CCV%D	ug/kg
480-38152-1	480-38152-3	SW8260B	ATGW026122013XX	Methyl cyclohexane	52	U	52	UJ	CCV%D	ug/kg
480-38152-1	480-38152-4	SW8260B	ATGW043132013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	45	U	45	UJ	CCV%D	ug/kg
480-38152-1	480-38152-4	SW8260B	ATGW043132013XX	Cyclohexane	45	U	45	UJ	CCV%D	ug/kg
480-38152-1	480-38152-4	SW8260B	ATGW043132013XX	Methyl cyclohexane	45	U	45	UJ	CCV%D	ug/kg
480-38152-1	480-38152-5	SW8260B	ATGW043152013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	51	U	51	UJ	CCV%D	ug/kg
480-38152-1	480-38152-5	SW8260B	ATGW043152013XX	Cyclohexane	51	U	51	UJ	CCV%D	ug/kg
480-38152-1	480-38152-5	SW8260B	ATGW043152013XX	Methyl cyclohexane	51	U	51	UJ	CCV%D	ug/kg
480-38152-1	480-38152-6	SW8260B	ATGW046142013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	46	U	46	UJ	CCV%D	ug/kg
480-38152-1	480-38152-6	SW8260B	ATGW046142013XX	Cyclohexane	46	U	46	UJ	CCV%D	ug/kg
480-38152-1	480-38152-6	SW8260B	ATGW046142013XX	Methyl cyclohexane	46	U	46	UJ	CCV%D	ug/kg
480-38152-1	480-38152-7	SW8260B	ATGW046172013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	54	U	54	UJ	CCV%D	ug/kg
480-38152-1	480-38152-7	SW8260B	ATGW046172013XX	Cyclohexane	54	U	54	UJ	CCV%D	ug/kg
480-38152-1	480-38152-7	SW8260B	ATGW046172013XX	Methyl cyclohexane	54	U	54	UJ	CCV%D	ug/kg
480-38152-1	480-38152-8	SW8260B	ATGW002132013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	67	U	67	UJ	CCV%D	ug/kg
480-38152-1	480-38152-8	SW8260B	ATGW002132013XX	Cyclohexane	67	U	67	UJ	CCV%D	ug/kg
480-38152-1	480-38152-8	SW8260B	ATGW002132013XX	Methyl cyclohexane	67	U	67	UJ	CCV%D	ug/kg
480-38152-1	480-38152-9	SW8260B	ATGW002072013XX	1,1,2-Trichloro-1,2,2-Trifluoroethane	47	U	47	UJ	CCV%D	ug/kg
480-38152-1	480-38152-9	SW8260B	ATGW002072013XX	Acetone	230	U	230	UJ	MS-L	ug/kg
480-38152-1	480-38152-9	SW8260B	ATGW002072013XX	Bromoform	47	U	47	UJ	MS-L	ug/kg
480-38152-1	480-38152-9	SW8260B	ATGW002072013XX	Carbon disulfide	47	U	47	UJ	MS-L	ug/kg
480-38152-1	480-38152-9	SW8260B	ATGW002072013XX	Chloroethane	47	U	47	UJ	MS-L	ug/kg
480-38152-1	480-38152-9	SW8260B	ATGW002072013XX	Cyclohexane	47	U	47	UJ	CCV%D	ug/kg
480-38152-1	480-38152-9	SW8260B	ATGW002072013XX	Methyl cyclohexane	47	U	47	UJ	CCV%D	ug/kg

Units:

ug/kg = microgram per kilogram

Validation Reason Codes:

CCV%D =

Prepared by / Date: KJC 06/26/13

Checked by / Date: TLC 07/12/13

**TABLE 3
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 MAY 2013 SOIL AND GROUNDWATER SAMPLING
 DIAMOND CLEANERS SITE
 ELMIRA, NEW YORK**

SDG	Lab Sample ID	Analytical Method	Field Sample ID	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units
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ug/l = microgram per liter

Validation Qualifier:

- J = Value is estimated
- U = not detected, value is the reporting limit
- H = Holding time exceeded

- CCVRRF =
- FD =
- HT = Holding time for analysis exceeded
- ICVRRF =
- LCS-H = LCS recovery high
- LCS-L = LCS recovery low
- MS-H = MS and/or MSD recovery high
- MS-L = MS and/or MSD recovery low
- MS-RPD = MS-MSD RPD limit exceeded