GROUNDWATER MONITORING SUMMARY REPORT 2011 ANNUAL SAMPLING EVENT

Stanton Cleaners Area Groundwater Contamination Site Great Neck, New York

Prepared for

United States Army Corps of Engineers Kansas City District

Long Term Operations/Long Term Monitoring Contract No. DACW41-03-D-0004

October 2011

Prepared by



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GROUNDWATER MONITORING SUMMARY REPORT 2011 ANNUAL SAMPLING EVENT

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October 2011

I hereby certify that the enclosed *Groundwater Monitoring Summary Report, 2011 Annual Sampling Event*, shown and marked in this submittal, is that proposed to be incorporated with the Contract Number DACW41-03-D-0004, Stanton Cleaners Area Groundwater Contamination Site, Great Neck, New York. This report is in compliance with the contract drawings and specifications, and is submitted for government approval.

Reviewed by:

Project Manager

Quality Control System Manager

Accepted By:

USACE Contracting Officer

Date

Date

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LIST OF ACRONYMS AND ABBREVIATIONS

1,1-DCE	1,1-dichloroethene
BTEX	benzene, toluene, ethylbenzene, and xylene (total)
cis-1,2-DCE	cis-1,2-dichloroethene
CLP	Contract Laboratory Program
DESA	Division of Environmental Science and Assessment
EB	equipment blank
EPA	United States Environmental Protection Agency
ft/mi	feet/mile
GWT	groundwater treatment
ID	identification
J	the reported value is estimated
K	the reported value may be biased high
LTRA	Long-Term Remedial Action
MCL	maximum contaminant level
MEE	methane, ethane, and ethene
MNA	monitored natural attenuation
MTBE	methyl <i>tert</i> butyl ether
µg/L	micrograms per liter
mg/L	milligrams per liter
NYSDEC	New York State Department of Environmental Conservation
O&M	operation and maintenance
PCE	tetrachloroethene
PW	public well
QC	quality control
SDG	sample delivery group
The Site	Stanton Cleaners Area Groundwater Contamination Site
SOP	Standard Operating Procedure
SVE	soil vapor extraction
SWL	static water level
RL	reporting limit
TB	trip blank
TCE	trichloroethene
TOC	total organic carbon
U	not detected at or above the RL
USACE	United States Army Corps of Engineers
VOC	volatile organic compound
WAGNN	Water Authority of Great Neck North

1.0 INTRODUCTION

ECC was contracted by the United States Army Corps of Engineers (USACE), Kansas City District in support of the United States Environmental Protection Agency (EPA), Region II to perform groundwater sampling, analyses, and reporting for the Stanton Cleaners Area Groundwater Contamination Site (the Site) at Great Neck, New York.

Figure 1 is the site location map and Figure 2 shows the site layout and groundwater well network developed to monitor the Site. The groundwater sampling, analyses, and reporting is being performed under the USACE Long-Term Remedial Action (LTRA) contract (Contract # DACW41-03-D-0004).

The operation and maintenance (O&M) work at the Site includes:

- monthly sample collection from the groundwater treatment (GWT) plant for analysis of volatile organic compounds (VOCs);
- annual monitoring, including sampling and analysis for the on-site groundwater monitoring well network for VOCs and monitored natural attenuation (MNA) parameters; and
- annual indoor air monitoring, including sampling and analysis for VOCs from six building locations at or adjacent to the Site.

This report is a summary of the 2011 annual groundwater monitoring well sampling event (May 2011). Results for GWT plant performance and regulatory compliance are reported separately in O&M Monthly Activity Reports. Results for annual indoor air sampling are reported in Annual Indoor Air Sampling Reports.

2.0 BACKGROUND

The Stanton Cleaners Property is approximately ¹/₄-acre in size and includes a two-story building in which a dry-cleaning business operates, an adjacent one-story boiler/storage building, and a two-story GWT plant building. The property is bordered by a vacant lot (previously an indoor tennis facility), a synagogue, and a school.

Improper handling and disposal of spent dry cleaning solvents behind the property, primarily tetrachloroethene (PCE), resulted in the release of hazardous substances at the property. PCE migrated from subsurface soils into the indoor air environments of the surrounding buildings and into groundwater beneath the Site, resulting in a significant threat to human health.

In 1983, approximately 20 cubic yards of VOC-contaminated (specifically PCE) soil were removed from behind the Stanton Cleaners Property. In 1989, a groundwater extraction and treatment system was installed by the original Stanton Cleaners operator to address groundwater contamination. This system is not currently operating and was replaced with the current GWT system (built in 2001).

In 1998, the New York State Department of Environmental Conservation (NYSDEC) funded the construction of a new air stripper treatment system for the Water Authority of Great Neck North (WAGNN) water supply wells which are impacted by contamination from the Site. This treatment system is currently in operation. In September 1998, as an immediate response action, the EPA installed a temporary soil vapor interceptor system adjacent to the tennis club, to mitigate impacts from PCE vapors to the indoor air of this facility.

In 2001, the EPA completed the construction and installation of a soil vapor extraction (SVE) system and a GWT system on the Stanton Cleaners Property. Both the SVE and GWT systems are housed in the treatment building that was constructed on the Stanton Cleaners Property. The SVE system was installed to remediate the VOC-contaminated soils, thus reducing the indoor air contamination in the adjacent affected buildings to safe levels. The GWT system was installed to remediate the VOC-contaminated groundwater and to remove the threat of vapors from the groundwater moving through the soils. The collected VOC-contaminated vapors and groundwater from both systems are treated through separate granular activated carbon systems.

The Site is presently under the jurisdiction of the Remedial Branch of the EPA, Region II; USACE provides oversight to EPA for the remedial action and the long-term remedial action programs. ECC is the LTRA prime contractor for the USACE, and performs O&M of the long-term remediation actions at the Site. ECC and its subcontractors perform the following tasks:

- O&M of the GWT plant and SVE system, including sampling, analysis, and reporting;
- Measuring static water levels (SWLs) at site wells prior to annual sampling;
- Sampling of groundwater monitoring wells associated with the site, laboratory analysis of the groundwater samples, and reporting of the results in order to track the migration of the contaminant plume; and
- Sampling and analysis of the indoor air quality of buildings adjacent to the site in order to identify and monitor the adjacent buildings being impacted by site-related contaminants, and to monitor the effectiveness of the remedial actions.

As required by the scope of work for this project, annual summary reports are prepared to document and summarize the LTRA groundwater monitoring. This report provides a description of work performed and the summary of results for the 2011 annual sampling event. The field documents and laboratory data are included as appendices.

3.0 SAMPLE COLLECTION ACTIVITIES

Groundwater samples from select monitoring wells on- and off-site are collected on an annual basis and shipped to a designated EPA Contract Laboratory Program (CLP) laboratory for analysis. Groundwater sampling activities are performed in accordance with EPA Groundwater Sampling Standard Operating Procedure (SOP) number 2007 and the EPA Low-Stress Purging and Sampling SOP provided in the Field Sampling Plan (Part I of Sampling and Analysis Plan). Each sampling event is coordinated with WAGNN in an effort to schedule the event when local water supply drawdown conditions do not impact the water levels. The location and number of monitoring wells, as well as analytical parameters, are determined by the EPA and ECC.

All 2011 monitoring and sampling activities were conducted by ECC between May 9 and May 10, 2011. Appendix A presents the field trip reports including Monitoring Well Collection Points, Chain-of-Custody Records, FedEx Airbills, and Groundwater Sampling Logs for the 2011 annual groundwater sampling event.

During this annual groundwater sampling event, seven monitoring wells were sampled for target compound list VOCs, alkalinity, nitrate, sulfide, total organic carbon (TOC), and chloride. These wells were also sampled for MNA parameters methane, ethane, and ethene (MEE). Samples from two wells, ST-MW19 and EPA-MW21R were collected using a bailer in addition to low flow groundwater sampling procedures. The identification numbers of these samples include the suffix "B". In addition, two duplicate samples, two trip blank (TB) samples and one equipment blank (EB) sample were collected and analyzed. One matrix spike/matrix spike duplicate pair was collected for this sampling event.

Table 1 is a sample collection summary and provides the following information:

- Quality Control (QC) split samples (field duplicate pairs);
- TB and EB samples;
- A cross-reference between laboratory sample identification (ID) numbers; and monitoring well IDs;
- Dates of sample collection; and
- Requested analyses.

SWLs were measured on May 9, 2011; May 2011 SWLs are listed in Table 2. Figures 3, 4, and 5 are potentiometric surface maps constructed for the shallow, intermediate, and deep unconfined aquifer located in the upper glacial formation, respectively, using the May 2011 SWLs.

Based on the May 2011 SWLs, the general direction of shallow groundwater flow was westsouthwest. A representative May 2011 hydraulic gradient in the area between wells ST-MW-06 and ST-MW-15 was approximately 0.016 (84.48 feet/mile [ft/mi]), which is higher compared to the hydraulic gradient measured in April 2010 between ST-MW-16 and ST-MW-12 (0.009 [47.52 ft/mi]). The limited SWL information for intermediate wells (three of eight intermediate groundwater wells were measured) indicates that the general flow direction was southwest towards public wells PW-09 and PW-2A. A representative May 2011 hydraulic gradient in the area between wells EPA-MW-27 and EPA-MW-11D was approximately 0.005 (26.28 ft/mi), which is similar to that measured in April 2010 (0.0048 [25.15 ft/mi]).

The general direction of the deep groundwater flow was also south-southwest towards public wells PW-09 and PW-2A during the May 2011 groundwater sampling event. A representative hydraulic gradient in the area between ST-MW-14 and ST-MW-20 was approximately 0.003 (15.84 ft/mi), which was much lower compared to the hydraulic gradient measured in April 2010 between ST-MW-14 and CL-1D (0.0075 [39.79 ft/mi]).

4.0 ANALYTICAL RESULTS

VOC and wet chemistry analyses were performed by EPA Region II Division of Environmental Science and Assessment (DESA) Laboratory. MEE analyses were performed by Chemtech, of Mountainside, New Jersey. The detected results are discussed according to monitoring well depth classification (shallow, intermediate, and deep). For wells where duplicates of any kind were collected, the highest result is discussed. All detections are tabulated.

Table 3 presents the VOC results for samples collected during the 2011 annual sampling event. Only samples with at least one reported detection are listed in the table. Table 3 is organized by monitoring well depths. Table 4 presents MNA parameter results. Figure 6 shows the detections for VOCs at the Site, and Figure 7 is an iso-concentration map for PCE (shallow wells only) at the Site during the 2011 annual sampling event. Appendix B presents the laboratory data packages by sample delivery group (SDG) for the sampling event.

4.1 Shallow Upper Glacial Wells

The following four shallow upper glacial wells were sampled for VOCs and MNA parameters during the 2011 annual sampling event (Table 1):

- ST-MW-15,
- ST-MW-19 (bailer and low-flow samples),
- EPA-MW-21R (bailer and low-flow samples), and
- EPA-MW-26.

Tetrachloroethene and Degradation Products

The primary chemical of concern, PCE, was detected in the following shallow monitoring wells:

- ST-MW-15 (88 micrograms per liter [µg/L]),
- ST-MW-19 (190 µg/L), and
- EPA-MW-26 (2.3 µg/L).

PCE increased in the following shallow monitoring wells compared to the 2010 annual sampling event:

- ST-MW-15 (from 29 to 88 µg/L)
- ST-MW-19 (from 120 biased high [K] μ g/L to 190 μ g/L),

PCE decreased in the following shallow monitoring wells compared to the 2010 annual sampling event:

- ST-MW-21R (from 57 K μ g/L to ND) and
- ST-MW-26 (from 5.3 µg/L to 2.3 µg/L)

PCE concentrations in shallow wells ST-MW-15 and ST-MW-19 exceeded both the Federal Maximum Contamination Level (MCL) and the NYSDEC regulation (6 NYCRR [Official Compilation of Codes, Rules and Regulations of the State of New York] Part 703, Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations) (both $5 \mu g/L$) for PCE.

Trichloroethene (TCE), a degradation product of PCE, was detected in shallow monitoring well ST-MW-19 (1.1 μ g/L) during the 2011 annual sampling event. TCE was also detected at this well (1.0 μ g/L) during the 2010 annual sampling event.

cis-1,2-Dichloroethene (*cis*-1,2-DCE), also a degradation product of PCE, was not detected in any of the shallow monitoring wells during the 2011 annual sampling event.

Benzene, Toluene, Ethylbenzene, and Total Xylenes

No benzene, toluene, ethylbenzene, or total xylenes (BTEX) were detected in any of the shallow monitoring wells during the 2011 annual sampling event.

Other VOCs

No other VOCs were detected in the shallow wells during the 2011 sampling event.

Natural Attenuation Parameters

This section presents the analytical results for the MNA parameters in the shallow upper glacial wells.

Alkalinity results in shallow wells are as follows:

- ST-MW-15 (110 milligrams per liter [mg/L]),
- ST-MW-19 (140 mg/L),
- EPA-MW-21R (88 mg/L), and
- EPA-MW-26 (91 mg/L).

Alkalinity results were similar to the levels from the annual 2010 sampling event. There are no Federal MCLs or NYSDEC regulations for alkalinity.

Nitrate was detected in all shallow wells as follows:

- ST-MW-15 (3.9 mg/L),
- ST-MW-19 (6.1 estimated [J] mg/L),
- EPA-MW-21R (8.4 mg/L), and
- EPA-MW-26 (2.7 mg/L).

The nitrate concentrations were similar to the levels from the annual 2010 sampling event. None of the concentrations exceeded the Federal MCL or NYSDEC regulations (both 10 mg/L) for nitrate.

Sulfate was detected in all shallow wells at the following concentrations:

- ST-MW-15 (49 mg/L),
- ST-MW-19 (100 mg/L),
- EPA-MW-21R (110 mg/L), and
- EPA-MW-26 (48 mg/L).

The sulfate concentrations were similar to the levels from the annual 2010 sampling event. None of the concentrations exceeded the Federal secondary MCL or NYSDEC regulations (250 mg/L and 250 mg/L, respectively) for sulfate.

Chloride was detected in all the following shallow wells at the following concentrations:

- ST-MW-15 (52 mg/L),
- ST-MW-19 (73 mg/L),
- EPA-MW-21R (76 mg/L), and
- EPA-MW-26 (210 mg/L).

The chloride concentrations decreased in shallow wells EPA-MW-26 (from 360 mg/L to 210 mg/L) and ST-MW-21R (from 96 mg/L to 76 mg/L) and increased in ST-MW-19 (from 50 mg/L to 73 mg/L) compared to the 2010 annual sampling event.

None of the chloride concentrations exceeded the NYSDEC regulations (250 mg/L) for chloride. There is no Federal MCL for chloride.

TOC was detected in the following shallow wells during 2011 sampling event:

- ST-MW-19 (2.8 mg/L), and
- EPA-MW-21R (2.7 mg/L).

These TOC concentration increased in EPA-MW-21R (from 1.8 to 2.7 mg/L) compared to the 2010 annual sampling event. However, the sample collected by the low-flow sampling method in 2011 (1.9 mg/L) was comparable to the results from the 2010 sampling event. There is no Federal MCL or NYSDEC Regulation for TOC.

Sulfide was not detected in any of the sampled shallow wells during 2011. Sulfide was also not detected in these wells during the 2010 sampling event.

MEE were not detected in any of the shallow monitoring well samples during the 2011 annual sampling event, consistent with 2010 sampling event.

4.2 Intermediate Upper Glacial Wells

One intermediate upper glacial well (ST-MW-17) was sampled for VOCs and MNA parameters during the 2011 annual sampling event. A field duplicate sample was collected at this monitoring well. This section presents the analytical results for constituents detected in the intermediate monitoring wells.

Tetrachloroethene and Degradation Products

The primary chemical of concern, PCE, was detected in intermediate upper glacial well ST-MW-17 (0.92 μ g/L) during the 2011 annual sampling event. The PCE concentration decreased from the 2010 annual sampling event (10 μ g/L).

No PCE degradation products were detected in the intermediate well during the 2011 annual sampling event. TCE, a PCE degradation product, was detected in well ST-MW-17 ($1.9 \mu g/L$) in 2010.

Benzene, Toluene, Ethylbenzene, and Total Xylenes

BTEX compounds were not detected in the intermediate well during the 2010 annual sampling event.

Other VOCs

No other VOCs were detected in the intermediate upper glacial well. During the 2010 sampling event, 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) was detected in ST-MW-17 ($2.4 \mu g/L$).

Natural Attenuation Parameters

This section presents the analytical results for the MNA parameters in the intermediate upper glacial well. No wet chemistry parameters exceeded the Federal MCL or NYSDEC regulations.

The alkalinity result in well ST-MW-17 (51 mg/L) decreased from the 2010 concentration (80 mg/L).

Nitrate was detected in well ST-MW-17 (3.3 mg/L) which is relatively consistent with the 2010 result (2.6 mg/L).

Sulfate was detected in well ST-MW-17 (40 mg/L) which is relatively consistent with the 2010 result (50 mg/L).

Chloride was detected in well ST-MW-17 (100 mg/L) which is an increase from 2010 concentration (77 mg/L).

Sulfide was not detected in well EPA-MW-17 which is consistent with the 2010 sampling event.

TOC was not detected in well EPA-MW-17A which is consistent with the 2010 sampling event.

MEE were not detected in the intermediate well during the 2011 annual sampling event which is consistent with 2010 sampling event.

4.3 Deep Upper Glacial Wells

Two deep upper glacial wells (ST-MW-14 and ST-MW-20) were sampled for VOCs and MNA parameters during the 2011 annual groundwater sampling event. This section presents the analytical results for these constituents detected in the deep monitoring wells.

Tetrachloroethene and Degradation Products

The primary chemical of concern, PCE, was detected in the deep upper glacial monitoring wells ST-MW-14 (4.1 μ g/L) and ST-MW-20 (6.7 μ g/L). PCE concentrations were comparable to the 2010 sampling event (6.1 μ g/L and 5.7 μ g/L, respectively). PCE concentration exceeded the Federal MCL and NYSDEC regulations (both 5 μ g/L) in well ST-MW-20.

TCE, a PCE degradation product, was detected in deep wells ST-MW-14 (1.5 μ g/L), and ST-MW-20 (1.4 μ g/L). TCE concentrations were similar to the 2010 results.

cis-1,2-DCE was detected in deep wells ST-MW-14 (0.96 μ g/L) and ST-MW-20 (0.61 μ g/L) during the 2011 annual groundwater sampling event. These results were similar to the 2010 results.

1,1-Dichloroethene (1,1-DCE) was detected in deep wells ST-MW-14 (5.1 μ g/L) and ST-MW-20 (1.4 μ g/L) during the 2011 annual sampling event. The 1,1-DCE concentration in ST-MW-14 exceeded NYSDEC regulation (5 μ g/L) but was below the Federal MCL (7 μ g/L). The 1,1-DCE concentration in ST-MW-14 for the 2011 sampling event was a decrease compared to the 2010 concentration (8 μ g/L). The result for ST-MW-20 was consistent with the 2010 result.

1,2-Dichloroethane was detected in deep well ST-MW-14 (1.9 μ g/L) and ST-MW-20 (0.59 μ g/L). These results are comparable to the 2010 results.

1,1,1-Trichloroethane was detected in deep monitoring well ST-MW-14 (1.2 μ g/L) and not detected in ST-MW-20, which is consistent with the 2010 results.

Benzene, Toluene, Ethylbenzene, and Total Xylenes

BTEX compounds were not detected in any of the deep upper glacial wells during the 2011 annual sampling event.

Other VOCs

No other VOCs were detected in any of the deep upper glacial wells during the 2011 annual sampling event.

Natural Attenuation Parameters

This section presents the analytical results of the MNA parameters in the deep upper glacial wells. No wet chemistry parameters exceeded either Federal MCL or NYSDEC regulations.

Alkalinity results during 2011 sampling event in deep wells were as follows: ST-MW-14 (49 mg/L) and ST-MW-20 (57 mg/L). Alkalinity concentrations for the deep wells were consistent with the results from the 2010 sampling event.

Nitrate was detected in deep wells ST-MW-14 (2.6 J mg/L), and ST-MW-20 (3.0 mg/L) during the 2011 sampling event. Nitrate concentrations remain stable as compared to the 2010 sampling events in the deep wells.

Sulfate was detected in deep wells ST-MW-14 (42 mg/L), and ST-MW-20 (49 mg/L) during the 2011 sampling event. Sulfate concentrations were consistent with the results from the 2010 sampling event.

Chloride was detected in deep wells ST-MW-14 (56 mg/L), and ST-MW-20 (110 mg/L) during the 2011 sampling event. Chloride concentrations were consistent with the 2010 sampling event.

Sulfide was not detected in the deep wells during 2011 sampling event which is consistent with the 2010 sampling event.

TOC was not detected in any of the deep monitoring wells sampled during the 2011 annual sampling event which is consistent with the 2010 sampling event.

MEE were not detected in any of the deep upper glacial well samples during the 2011 annual sampling event which is consistent with the 2010 sampling event.

5.0 DATA QUALITY EVALUATION

Data results from the analyses performed by DESA laboratory and Chemtech have been validated by EPA Region II. ECC carried over assigned laboratory qualifiers and did not perform a separate review or validation of the data. No data were noted as rejected.

6.0 CONCLUSION

Data results are valid for use, as qualified. Overall, the concentration of PCE has continued to decrease since September 1999; however, increases in PCE concentrations were noted at two of the sampled Shallow Upper Glacial Wells during the annual 2011 sampling event. Conclusions for the aquifers are as follows:

Shallow Upper Glacial Wells

Four shallow upper glacial wells were sampled in 2011. PCE increased in the following shallow monitoring wells compared to the 2010 annual sampling event:

- ST-MW-15 (from 29 to 88 µg/L)
- ST-MW-19 (from 120 biased high [K] μ g/L to 190 μ g/L),

PCE decreased in the following shallow monitoring wells compared to the 2010 annual sampling event:

- ST-MW-21R (from 57 K μ g/L to ND) and
- ST-MW-26 (from 5.3 μ g/L to 2.3 μ g/L)

PCE concentrations in shallow wells ST-MW-15 and ST-MW-19 exceeded both the MCL and the NYSDEC regulation (both 5 μ g/L) for PCE. PCE degradation products were present at low levels in the aquifer.

The chloride concentrations decreased in shallow wells EPA-MW-26 (from 360 mg/L to 210 mg/L) and ST-MW-21R (from 96 mg/L to 76 mg/L) and increased in ST-MW-19 (from 50 mg/L to 73 mg/L) compared to the 2010 annual sampling event. Otherwise, MNA parameters were stable. Although the TOC concentration increased in EPA-MW-21R (from 1.8 to 2.7 mg/L) compared to the 2010 annual sampling event, the sample collected by the low-flow sampling method in 2011 (1.9 mg/L) was comparable to the results from the 2010 sampling event.

Intermediate Upper Glacial Wells

One intermediate upper glacial well was sampled in 2011. The PCE concentration decreased in intermediate upper glacial well ST-MW-17 (0.92 μ g/L) as compared to the 2010 annual sampling event (10 μ g/L). No PCE degradation products were detected in the intermediate well during the 2011 annual sampling event.

The alkalinity result in well ST-MW-17 (51 mg/L) decreased from the 2010 concentration (80 mg/L). Chloride was detected in well ST-MW-17 (100 mg/L) which is an increase from 2010 concentration (77 mg/L). All other MNA parameters were stable.

Deep Upper Glacial Wells

Two deep upper glacial wells (ST-MW-14 and ST-MW-20) were sampled in 2011. All results were reasonably consistent with 2010 results, with PCE degradation products continuing to be present at relatively low levels. MNA parameters were stable as compared to 2010 result.

7.0 **REFERENCES**

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Tables

Table 1

Sample Collection Summary 2011 Annual Groundwater Monitoring Sampling Event Stanton Cleaners Area Groundwater Contamination Site Great Neck, New York

								Anal	yses ^{1,2}			
Monitoring Well ID	CLP Sample ID	QC Sample	MS/MSD	Date Sampled	TOC	Sulfide	Alkalinity	VOCs	Nitrate	Sulfate	Chloride	MEE
Shallow Upper Glacia	Shallow Upper Glacial Wells											
ST-MW-15	AN01944			5/9/2011	•	•	٠	٠	٠	٠	٠	٠
ST-MW-19	AN01981			5/10/2011	•	•	٠	•	•	•	•	•
ST-MW-19-B	AN01982			5/10/2011	•	•	٠	•	•	•	•	•
EPA-MW-21R	AN01978			5/10/2011	•	•	٠	•	•	•	•	•
EPA-MW-21R-B	AN01943			5/9/2011	•	•	٠	•	•	•	•	•
EPA-MW-26	AN01979			5/10/2011	•	•	٠	•	•	•	•	•
Intermediate Upper G	lacial Wells											
ST-MW-17	AN01945			5/9/2011	•	•	•	•	•	•	•	•
51-10100-17	AN01946	ST-MW-17A		5/9/2011	•	•	٠	•	•	•	•	•
Deep Upper Glacial W	/ells											
ST-MW-14	AN01980			5/10/2011	•	•	٠	•	•	•	•	•
ST-MW-20	AN01947		Х	5/9/2011	•	•	٠	•	•	•	•	•
Trip Blanks												
TB-01	AN01951			5/9/2011				•				
TB-02	AN01984			5/10/2011				•				
Equipment Blanks												
EB-01	AN01983			5/10/2011				•				

Notes:

¹ = VOC, TOC, sulfide, alkalinity, nitrate/nitrite, sulfate, chloride, analyses were performed by a CLP laboratory.

 $^{2} = MEE$ analyses performed by Chemtech.

* = EPA wells

- = Planned sample was collected.
- CLP = Contract Laboratory Program

ID = Identification

MEE = Methane, Ethane, Ethane MS/MSD = Matrix Spike/Matrix Spike

Duplicate

NA = Not Applicable

QC = Quality Control

SDG = Sample Delivery Group

TOC = Total Organic Carbon

VOCs = Volatile Organic Compounds

 $\mathbf{x} =$ Sampled for MS/MSD

Table 2Static Water Level Measurements2011 Annual Groundwater Monitoring Sampling EventStanton Cleaners Area Groundwater Contamination Site
Great Neck, New York

Well ID	Top of Casing Elevation (ft AMSL)	Ground Elevation (ft AMSL)	Total Well Depth (ft BTOC)	Bottom of Screen Elevation (ft AMSL)	Static Water Level (May 2011) (ft BTOC)	Static Water Level (May 2011) (ft bgs)	Static Water Level (May 2011) (ft AMSL)	Comment(s)				
Shallow Upper Glacial												
ST-MW-06	69.83	N/A	N/A	N/A	44.17	N/A	25.66	LIHA PL 4"				
ST-MW-09	78.13	N/A	N/A	N/A	61.84	N/A	16.29	PL across from Triange Park				
ST-MW-11	75.25	N/A	N/A	N/A	57.66	N/A	17.59	NR Triange Lab- nr dumpster				
ST-MW-12	87.2	87.62	87.00	0.62	69.00	69.42	18.20	In front of apartment bldg				
ST-MW-15	90.13	87.62	87.00	0.62	71.55	69.04	18.58	Mirreless Rd				
ST-MW-16	75.78	76.15	70.00	6.15	52.44	52.81	23.34	Other side of treatment bldg near fence				
ST-MW-19	82.5	83.18	89.00	-5.82	64.72	65.40	17.78	Triange Park				
EPA-MW-21-R	84.13	N/A	N/A	N/A	64.38	N/A	19.75	Getty replacement well				
EPA-MW-22	82.2	82.58	96.00	-13.42	61.81	62.19	20.39	Under clothing bin				
EPA-MW-23	82.83	83.33	96.00	-12.67	62.35	62.85	20.48	In front of treatment bldg				
EPA-MW-26	78.37	78.90	96.00	-17.10	57.25	57.78	21.12	Ipswich Ave				
				Interm	ediate Upper Glacial							
EPA-MW-11D	74.63	75.04	135.00	-59.96	57.19	57.60	17.44	Near Triangle lab (4")				
ST-MW-17	86.53	87.00	145.00	-58	68.64	69.11	17.89	In front of apartment bldg				
EPA-MW-27	69.32	69.83	125.00	-55.17	49.62	50.13	19.70	LIHA PL				
	Deep Upper Glacial											
(EPA)-CL-1D*	27.63	27.87	145	-117.13	NM	N/A	N/A	Not measured				
(EPA)-CL-4D*	N/A	21.08	145	-123.92	NM	N/A	N/A	Not measured				
ST-MW-14	69.73	70.03	200.00	-129.97	54.28	54.58	15.45	LIHA PL				
ST-MW-20	84.53	84.95	215.00	-130.05	70.13	70.55	14.40	In front of apartment bldg				

N/A =Not Available

AMSL = Above Mean Sea Level

bgs = Below Ground Surface

BTOC = Below Top of Casing

ft = feet

ID = Identification

NM = Not Measured

Sources: = O&M Manual, Stanton Cleaners Groundwater Contamination Site, April 2004 and New England Industrial Engineering Groundwater sampling log

* = EPA wells

Water treatment system was pumping at approximately 55 GPM

Table 3Analytical Results - VOCs2011 Annual Groundwater Monitoring Sampling EventStanton Cleaners Area Groundwater Contamination SiteGreat Neck, New York

			Shallow Upper Glacial Wells							
Monitoring Well ID:			ST-MW-15	ST-MW-19	ST-MW-19-B	EPA-MW-21R	EPA-MW-21R-B	EPA-MW-26		
CLP Sample ID:	Federal	NYSDEC	AN01944	AN01981	AN01982	AN01978	AN01943	AN01979		
Date Sampled:	MCL	Regulations ²	5/9/2011	5/10/2011	5/10/2011	5/10/2011	5/9/2011	5/10/2011		
Sample Type:		-								
Volatile Organic Compounds ¹ (µg/L)										
1,1-Dichloroethene	7	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		
cis-1,2-Dichloroethene	70	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		
1,2-Dichloroethane	5	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		
Tetrachloroethene	5	5	88	180	190	0.5 U	0.5 U	2.3		
1,1,1-Trichloroethane	200	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U		
Trichloroethene	5	5	0.5 U	1.1	1.1	0.5 U	0.5 U	0.5 U		

Table 3Analytical Results - VOCs2011 Annual Groundwater Monitoring Sampling EventStanton Cleaners Area Groundwater Contamination SiteGreat Neck, New York

			Intermediate Upper Glacial Wells		Deep Upper Glacial Wells		Blanks		
Monitoring Well ID:			ST-MW-17	ST-MW-17A	ST-MW-14	ST-MW-20	TB-01	TB-02	EB-01
CLP Sample ID:	Federal	NYSDEC	AN01945	AN01946	AN01980	AN01947	AN01951	AN01984	AN01983
Date Sampled:	MCL	Regulations ²	5/9/2011	5/9/2011	5/10/2011	5/9/2011	5/9/2011	5/10/2011	5/10/2011
Sample Type:		- -		Field Duplicate			TB	TB	EB
Volatile Organic Compounds ¹ (µg/L)									
1,1-Dichloroethene	7	5	0.5 U	0.5 U	5.1	1.4	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	70	5	0.5 U	0.5 U	0.96	0.61	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	5	0.6	0.5 U	0.5 U	1.9	0.59	0.5 U	0.5 U	0.5 U
Tetrachloroethene	5	5	0.92	0.92	4.1	6.7	0.5 U	0.5 U	0.5 U
1,1,1-Trichloroethane	200	5	0.5 U	0.5 U	1.2	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	5	5	0.5 U	0.5 U	1.5	1.4	0.5 U	0.5 U	0.5 U

Notes:

- ¹ VOCs were analyzed by a CLP laboratory and data validation was performed by EPA Region II. ECC carried over assigned qualifers and did not perform a separate review or validation of the data.
- ² = New York City Rules and Regulations Part 703, Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations

* = EPA wells

Bold value indicates a detection.

value above Federal MCL

value above NYSDEC Regulations

value above both Federal MCL & NYSDEC Reg

CLP = Contract Laboratory Program

ID = Identification

EPA = Environmental Protection Agency

NYSDEC = New York State Department of Environment Conservation

MCL = Maximum Contaminant Level

µg/L = micrograms per Liter NA = Not available VOCs = Volatile Organic Compounds

TB = Trip Blank

EB = Equipment Blank

U = Undetected value

Table 4Analytical Results - Natural Attenuation Parameters2011 Annual Groundwater Monitoring Sampling EventStanton Cleaners Area Groundwater Contamination Site
Great Neck, New York

			Shallow Upper Glacial Wells								
Monitoring Well ID:			ST-MW-15	ST-MW-19	ST-MW-19-B	EPA-MW-21R	EPA-MW-21R-B	EPA-MW-26			
CLP Sample IDs:	Federal	NYSDEC	AN01944	AN01981	AN01982	AN01978	AN01943	AN01979			
Date Sampled:	MCL	Regulations ²	5/9/2011	5/10/2011	5/10/2011	5/10/2011	5/9/2011	5/10/2011			
Sample Type											
Wet Chemistry ¹ (mg/L)											
Total Alkalinity	NA	NA	110	120	140	88	77	91			
Sulfide	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U			
Total Organic Carbon	NA	NA	1.0 U	1.8	2.8	1.9	2.7	1.0 U			
Chloride	250^{3}	250	52	73	60	71	76	210			
Sulfate	250^{3}	250	49	100	98	110	98	48			
Nitrate (as N)	10	10	3.9	6.1 J	4.1 J	7.2 J	8.4	2.7 J			

Table 4 Analytical Results - Natural Attenuation Parameters 2011 Annual Groundwater Monitoring Sampling Event Stanton Cleaners Area Groundwater Contamination Site Great Neck, New York

			Intermediate Up	per Glacial Wells	Deep Upper Glacial Wells		
Monitoring Well ID:			ST-MW-17	EPA-MW-17A	ST-MW-14	ST-MW-20	
CLP Sample IDs:	Federal	NYSDEC	AN01945	AN01946	AN01980	AN01947	
Date Sampled:	MCL	Regulations ²	5/9/2011	5/9/2011	5/10/2011	5/9/2011	
Sample Type				Field Duplicate			
Wet Chemistry ¹ (mg/L)							
Total Alkalinity	NA	NA	51	51	49	57	
Sulfide	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U	
Total Organic Carbon	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	
Chloride	250^{3}	250	100	100	56	110	
Sulfate	250^{3}	250	40	40	42	49	
Nitrate (as N)	10	10	3.3	3.3	2.6 J	3.0	

Notes:

¹ Wet chemistry parameters listed in this table were analyzed by a CLP laboratory and data validation was performed by EPA Region II.

ECC carried over assigned qualifers and did not perform a separate review or validation of the data.

MEE is non-detected in all the wellls

₂ = New York City Rules and Regulations Part 703, Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations.

³ = EPA Secondary Drinking Water Regulation (not enforcable)

Bold value indicates a detection.

value above Federal MCL

value above NYSDEC Regulations

value above both Federal MCL and NYSDEC Regulations

CLP = Contract Laboratory Program

ID = Identification

MCL = Maximum Contaminant Level

mg/L = milligrams per Liter

NA = Not available

NYSDEC = NY State Department of Environment Conservation

U = Not detected

Figures



	DRAWN BY:	STANTO	ON CLE	ANERS, GREAT NECI	K, NEW YORK	
	NW					
	APPROVED BY:			FIGURE 1		
	DM	SITE LOCATION MAP				
	DATE:					
ECC 1293 BROAD STREET, SUITE 200 BLOOMFIELD, NJ 07003	SIZE: A	PROJECT CODE: 54	42 001	CONTRACT CODE:		
			FILENAM	E: FIGURE 1-1.DWG	SHEET: 1 OF 1	REV: -












Appendix A *Field Trip Reports*

Attachment A – Monitoring Well Collection Points Attachment B – Water level measurements Attachment C – Chain of Custody Attachment D – FedEx Airbills Attachment E – Groundwater Monitoring Logs This page intentionally left blank

SAMPLING TRIP REPORT

Site Name: Stanton Cleaners Area Groundwater Contamination Site CERCLIS ID Number: NYD047650196 Sampling Dates: May 9-10, 2011 CLP Case Number: N/A Site Location: 110 Cutter Mill Road, Great Neck, NY 11021 Sample Descriptions: Annual Monitoring Well Sampling Event

Laboratories Receiving Samples:

Case Number	Sample Type	Name and Address of Laboratory
N/A	CLP TCL-VOAs Nitrate, Total Organic Carbon (TOC), Alkalinity, Sulfate, Chloride, and Sulfide	USEPA Region II DESA Lab (DESA) Building 209, MS-230 2890 Woodbridge Avenue Edison, NJ 08837 Tel (732) 906-6886
N/A	Methane, Ethane, Ethene	Chemtech 284 Sheffield St. Mountainside, NJ 07092 Tel (908) 789-8900

Sample Dispatch Data: On May 9, 2011 samples from four monitoring wells (ST-MW17, ST-MW20, ST-MW15, EPA-MW21R-B) were shipped to DESA for analysis of TCL Volatiles (TCL-VOA), TOC, alkalinity, nitrate, sulfate, sulfide, and chloride. Samples from the same wells were shipped to Chemtech for analysis of methane, ethane and ethene.

Extra volume was collected from ST-MW20 for matrix spike/matrix spike duplicate (MS/MSD) analysis and one field duplicate sample (ST-MW-17A) was collected from monitoring well ST-MW-17. One trip blank (TB-01), submitted for VOA analysis only, was included in the May 9 shipment.

FedEx Air bill No.	Number of Coolers	Number and Type of Samples	Time and Date of Shipping
873583288332	2	Four monitoring well samples (one with additional volume for MS/MSD analysis) and one field duplicate for TCL VOA; Alkalinity; Sulfide; TOC; Chloride; Nitrate; and Sulfate analysis. One trip blank for TCL VOA only.	5/9/2011 @ 18:30 TO: DESA

873583288354	1	Four monitoring well samples for the following analyses: methane; ethane; and ethene. One sample with additional volume for MS/MSD. One field duplicate.	5/9/2011 @ 18:30 TO: Chemtech
--------------	---	--	----------------------------------

On May 10, 2011 samples from four monitoring wells (ST-MW19, EPA-MW-21R, EPA-MW-26, and ST-MW14) were shipped to DESA for analysis of TCL Volatiles and TOC, Alkalinity, Nitrate, Sulfate, Sulfide, and Chloride. Also on May 10, 2011, samples from the same monitoring wells were shipped to Chemtech for analysis of methane, ethane, and ethene.

One equipment rinsate (EB-01) and one trip blank (TB-02) were included in the May 10, 2011 shipment. The equipment rinsate and trip blank were submitted to DESA for VOA analysis only.

FedEx Airbill No.	Number of Coolers	Number and Type of Samples	Time and Date of Shipping
873583288387	2	Four monitoring well samples and one field duplicate for TCL VOA; Alkalinity; Sulfide; TOC; Chloride; Nitrate; and Sulfate analysis. One trip blank and equipment rinsate for TCL VOA only.	5/10/2011 @ 17:30 TO: DESA
873583288398	1	Four monitoring well samples for the following analyses: methane; ethane; and ethene. One field duplicate.	5/10/2011 @ 17:30 TO: Chemtech

Sampling Personnel:

Name	Organization	Site Duties
Dave Miller	ECC	Project Manager
Carol DiGuardia	ECC	Sampler/Sample Management
Frank Mahalski	Environmental Restoration (ER)	Sampler
Todd Jennings	ER	Sampler

Sample Numbers and Collection Points:

Attachment A includes a table with a list of all the groundwater monitoring well collection points.

Additional Comments:

During the groundwater sampling event that occurred May 9-10, 2011, a total of seven (7) groundwater monitoring wells were sampled. Sample from two wells, ST-MW19 and EPA-MW21R were collected using a bailer in addition to low flow groundwater sampling procedures. The identification number of these samples include the suffix "B". Prior to sampling on May 9, groundwater level measurements were taken at each well. The Water Authority of Great Neck North (WAGGN) was contacted and public water supply wells pumping were noted. One field duplicate sample was collected at ST-MW-17. Extra volume for MS/MSD analyses was collected and shipped to DESA and Chemtech for ST-MW20. A total of two trip blanks and one equipment rinsate blank were also collected and shipped to DESA for TCL VOA analysis.

This groundwater sampling event was conducted in accordance with the USEPA Region II Groundwater Sampling Low Flow (Minimal Drawdown) Groundwater Sampling Procedures (dated March 16, 1998); Contract Laboratory Program Guidance for Field Samplers (dated April 2003); Groundwater Sampling Guidelines for Superfund and RCRA Project Managers from the USEPA Office of Solid Waste and Emergency Response (dated May 2002); the USEPA Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater (dated September 1998); the Stanton Cleaners Area Groundwater Contamination Site Long Term Response Action (LTRA) Sampling and Analysis Plan-Part 1 Field Sampling Plan and Part 2 Quality Assurance Project Plan (dated November 2004); the UFP-QAPP for Stanton Cleaners Area Groundwater Contamination (7/13/2010); and the site Operations and Maintenance Manual (dated April 2004). Water level measurements collected on May 9 are included as Attachment B. Copies of the Chain of Custody Records are included in Attachment C. Copies of FedEx Airbills are included in Attachment D. Copies of the Groundwater Sampling Logs are included as Attachment E. Water quality parameters measured before sampling wells with a bailer (EPA-MW21R and ST-MW19) are included as Attachment F.

Attachment A

Monitoring Well Collection Points

Stanton Cleaners Area Groundwater Contamination Site

Sample Numbers and Collection Points for Annual Monitoring Well Sampling Event May 9-10, 2011

SAMPLE ID	DATE COLLECTED	COMMENTS
ST-MW15	5/9/2011	
ST-MW17	5/9/2011	
ST-MW17A	5/9/2011	Field duplicate of ST-MW17
ST-MW20	5/9/2011	Matrix spike/matrix spike duplicate (MS/MSD)
EPA-MW21R-B	5/9/2011	Bailer sample at EPA-MW21R
TB-01	5/9/2011	Trip blank
EPA-MW21R	5/10/2011	
EPA-MW26	5/10/2011	
ST-MW14	5/10/2011	
ST-MW19	5/10/2011	
ST-MW19-B	5/10/2011	Bailer sample at ST-MW19
EB-01	5/10/2011	Equipment rinsate blank
TB-02	5/10/2011	Trip blank

Attachment B

Water level measurements

PROJECT:	Stanton Cleaners				JOB N	UMBER:		
LOCATION:	Great Neck, NY				DATE:		5/9/2011	
CLIENT:	USACE / USEPA				MEASURED BY: Frank Mahalski			
SURVEY DATUM:	ft msl					Todd Jennings		
MEASURING DEVICE:	Solinst Water Level Indicator S/N	# 34407						
WELL	MEASURING P	OINT	DEPTH TO	ELEVA	TION OF		COMMENTS	
NUMBER	Description	Elevation (FT)	WATER (FT)	WATE	R (FT)		COMMENTS	
EPA-MW-11D	ft BTOC	74.63	57.19	17.	.44		Nr Triangle lab (4")	
EPA-MW-21-R	ft BTOC	84.13	64.38	19.	.75	Getty re	placement well	
EPA-MW-22	ft BTOC	82.20	61.81	20	.39		Under Clothing Bin	
EPA-MW-23	ft BTOC	82.83	62.35	20.	.48	In	front Treatment bldg.	
EPA-MW-27	ft BTOC	69.32	49.62	19	.70		LIHA PL	
ST-MW-02	ft BTOC	82.03	N/A	N	/A		Abandoned	
ST-MW-06	ft BTOC	69.83	44.17	25	.66		LIHA PL 4"	
ST-MW-09	ft BTOC	78.13	61.84	16	.29	PL a	cross from Triangle Park	
ST-MW-11	ft BTOC	75.25	57.66	17.	.59	NR T	riangle lab- nr dumpster	
ST-MW-12	ft BTOC	87.20	69.00	18	.20	In	front apartment bldg.	
ST-MW-14	ft BTOC	69.73	54.28	15	.45		LIHA PL	
ST-MW-16	ft BTOC	75.78	52.44	23	.34	other si	de treatment bldg nr fence	
ST-MW-17	ft BTOC	86.53	68.64	17.	.89	In front apartment bldg.		
ST-MW-19	ft BTOC	82.50	64.72	17.	.78		Triangle Park	
ST-MW-20	ft BTOC	84.53	70.13	14	.40	In	front apartment bldg.	
EPA-MW-26	ft BTOC	78.37	57.25	21.	.12		Ipswich Ave.	
ST-MW-15	ft BTOC	90.13	71.55	18.	.58		Mirreless Rd.	

WATER LEVEL DATA SUMMARY

Notes: WAGGN wells pumping:

#13- 1284 gpm #9 - 882 gpm #10A- 954 gpm

N/A- Data not available

Attachment C

Chain of Custody

BEPA	USEPA Cor Organic Tr	ntrac affic	t Laboratory Report & Ch	Program ain of Custody Re	ecord		Case DAS N SDG NG	No: o:
Date Shipped:	5/9/2011		Chain of Custor	ly Record	Sampler	Dotten	For L	ab Use Only
Carrier Name:	FedEx		Relinquished By	(Date / Time)	Received By	(Date / Tin	ne) Lab Co	ntract No:
Shinned to:	873583288332	- L	1 and Date	el + 14/2011	Ship to lab.	in Fed	Ex Unit Pri	Ce.
Shipped to.	2890 Woodbridge A	NC.	2	<u></u>			Unit in	- To:
	Bldg. 209, MS-230 Edison NJ 08837	—	3					
	(732) 906-6886		4		<u>├</u>		Lab Co	ntract No:
ORGANIC	MATRIX/	CONC/	ANALY SIS/	TAG No.J	STATION	SAI	Unit Pri	INORGANIC FOR LAB USE ONLY
SAMPLE No.	SAMPLER	TYPE		PRESERVATIVE/ Bottles			DATE/TIME	
EFFLUENT	Ground Water/ Carol DiGuardia	Ū/G	VOA (28)	(HCL) (3)	EFFLUENT	S: 5/9/2	8:30	
EFFLUENT-A	Ground Water/ Carol DiGuardia	L/G	VOA (28)	(HCL) (3)	EFFLUENT-A	S: 5/9/2	011 8:35	
EPA-MW21R-E	Ground Water/ Todd Jennings	L/G	VOA (28)	(HCL) (3)	EPA-MW21R-B	S: 5/9/2	11:15	
INFLUENT	Ground Water/ Carol DiGuardia	L/G	VOA (28)	(HCL) (3)	INFLUENT	S: 5/9/2	2011 8:45	
ST-MW15	Ground Water/ Todd Jennings	L/G	VOA (28)	(HCL) (3)	ST-MW15	S: 5/9/2	2011 16:45	
ST-MW17	Ground Water/ Carol DiGuardia	L/G	VOA (28)	(HCL) (3)	ST-MW17	S: 5/9/2	2011 14:55	
ST-MW17A	Ground Water/ Carol DiGuardia	L/G	VOA (28)	(HCL) (3)	ST-MW17A	S: 5/9/2	2011 15:00	
ST-MW20	Ground Water/ Todd Jennings	L/G	VOA (28)	(HCL) (9)	ST-MW20	S: 5/9/2	2011 14:15	
TB-01	Field QC/ Carol DiGuardia	L/G	VOA (28)	(HCL) (3)	TB-01	S: 5/9/2	2011 8:00	
	· .	·		A			λ.	9 .
pment for Case mplete?N	Sample(s) to I	be used f	or laboratory QC:	Additional Sample	er Signature(s):	Cool Upor	er Temperature n Receipt:	Chain of Custody Seal Number:
alvsis Kev	Concentratio				esignate: Composite = C.G	rab = G		Custody Seal Intact? Shipment Iced?
DA = CLP TCL V	/olatiles							

PR provides preliminary results. Requests for preliminary results will increase analytical costs. Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

F2V5.1.047 Page 1 of 1

Region: Project Code:										
•	N			Date Shipped:	5/9/2011	Ch	ain of Custody	Record	Sampler Signature: ec.	atlet
Account Code:	-			Airbill:	reaex 873583288332	Rei	inquished By	(Date / Time)	Received By	(Date / Time)
CERCLIS ID: Spill ID:	NYD047650	196		Shipped to:	USEPA Region 2 L	ab Ano	are Pack	~ 5/1/20 11	Ship to	Into in Rade
Site Name/State:	Stanton Cles	aners/NY	•		Eldg. 209, MS-230	Ave. 2			_	
Project Leader: Action:	Carol DiGua	rdia			Edison NJ U883/ (732) 906-6886	ۍ ۲			 	
Sampling Co:	ECC					4				
ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC! TYPE	ANAL Y SIS/ TURNAROUND	TAG	No <i>J</i> IVE/ Bottles	STATION LOCATION	SAMPLE	E COLLECT INC	DRGANIC MPLE No.	QC Type
EFFLUENT	Ground Water/ Carol DiGuardia	L/G	VOA (28)	(HCL) (3)		EFFLUENT	S: 5/9/2011	8:30		i ka
EFFLUENT-A	Ground Water/ Carol DiGuardia	רעפ	VOA (28)	(HCL) (3)		EFFLUENT-A	S: 5/9/2011	8:35		Field Duplicate
EPA-MW21R-	Ground Water/ Fodd Jennings	L/G	VOA (28)	(HCL) (3)	-	EPA-MW21R-B	S: 5/9/2011	11:15		
NFLUENT	Ground Water/ Carol DiGuardia	D/J	VOA (28)	(HCL) (3)		INFLUENT	S: 5/9/2011	8:45		ł
5T-MW15	Ground Water/ Fodd Jennings	L/G	VOA (28)	(HCL) (3)		ST-MW15	S: 5/9/2011	16:45		
ST-MW17	Ground Water/ Carol DiGuardia	۶ ۲/ ۲	VOA (28)	(HCL) (3)		ST-MW17	S: 5/9/2011	14:55		!
T-MW17A	Ground Water/ Carol DiGuardia	L/G	VOA (28)	(HCL) (3)		ST-MW17A	S: 5/9/2011	15:00		Field Duplicate
sT-MW20	Ground Water/ Fodd Jennings	D/I	VOA (28)	(HCL) (9)		ST-MW20	S: 5/9/2011	14:15	-	I
B-01	⁻ ield QC/ 2arol DiGuardia	L/G	VOA (28)	(HCL) (3)	<	// Тв-01	S: 5/9/2011	8:00		Trip Blank
			•							
	· .						,	. •	•	
hipment for Case omplete? N	Sample(s) ST-MW2) to be used 0	for laboratory QC:		Additional Sampler	Signature(s):			Chain of Custo	ly Seal Number:
nalysis Key: OA = CLP TCL ^v	Volatiles	ation:	≃ Low, M = Low/Medium	n, H = High	Type/pesignate:	Composite = C, Gr	ab = G		Shipment Iced	
X Number:	2-0430	1357	7-050911-00	200						

€EPA	USEPA Co Generic C	ntrac hain c	t Laboratory I of Custody	Program		,	Reference Case Client No: SDG No:	L
Date Shipped:	5/9/2011		Chain of Custod	y Record	Sampler Signature Curl Du	du-	For Lab Use Only	
Airbill	873583288332		Relinquished By	(Date / Time)	Received By	(Date / Time)	Lab Contract No:	
Shipped to:	Shipped to: USEPA Region 2 Lab 2890 Woodbridge Ave. Bidg. 209, MS-230		1 auch Date	ucal 5/9/11 18:30	Ship to lab vie	- FedEx	Unit Price:	
			2				Transfer To:	
	Edison NJ 08837		3		· · · · · · ·		Lab Contract No:	
	(732) 900-0000		4				Unit Price:	
SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALY SIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLI DATE/TIM	LECT E	FOR LAB USE ONLY Sample Condition On Receipt
EPA-MW21R-	B Ground Water/ Todd Jennings	Ľ/G	Alk, NOs, (28), S- (28), TOC (28)	(H2SO4), (Ice Only), (NaOH, Zn. Acetate) (3)	EPA-MW21R-B	S: 5/9/2011	11:15	
ST-MW15	Ground Water/ Todd Jennings	L/G	Alk, NOs, (28), S- (28), TOC (28)	(H2SO4), (Ice Only), (NaOH, Zn. Acetate) (3)	ST-MW15	S: 5/9/2011	16:45	
ST-MW17	Ground Water/ Carol DiGuardia	L/G	Alk, NOs, (28), S- (28), TOC (28)	(H2SO4), (Ice Only), (NaOH, Zn. Acetate) (3)	ST-MW17	S: 5/9/2011	14:55	
ST-MW17A	Ground Water/ Carol DiGuardia	L/G	Alk, NOs, (28), S- (28), TOC (28)	(H2SO4), (Ice Only), (NaOH, Zn Acetate) (3)	ST-MW17A	S: 5/9/2011	15:00	

		AA	• • • • •		. .
Shipment for Case	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature	Chain of Custody Seal Num	ber:
	ST-MW20	Jose Perver			
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Impe/Designate: Composite = C, Grab = C	; ;	Custody Seal Intact?	Shipment Iced?
Alk, NOs, = Alk., Nitratę	, Sulfate, Chloride, S- = Sulfide, TOC = Total Organ	ic Carbon		·	
TR Number:	2-043013577-050911-0001		I A P	OZATOR	YCODY
PR provides preliminary res Send Copy to: Sample Ma 703/818-4602	ults. Requests for preliminary results will increase analy anagement Office, Attn: Heather Bauer, CSC, 15000	rtical costs. Conference Center Dr., Chantiliy, VA 20151-3819;	Phone 703/818-4200; Fa	X X	² 2V5.1.047 Page 1 of 1

\$EP/	USEPA C Generic	Contra Chain	ct Laboratory of Custody	Program			Reference C Client No:	ase:	R
Region: Project Code: Account Code: CERCLIS ID: Spill ID: Site Name/Stat Project Leader Action: Sampling Co:	2 NYD047650 e: Stanton Cle Carol DiGua ECC	196 aners/NY ardia	· · · · · · · · · · · · · · · · · · ·	Date Shipped: 5/9/20 Carrier Name: FedE Airbill: 87350 Shipped to: USEF 2890 Bldg. Ediso (732)	011 x 83288332 PA Region 2 Lab Woodbridge Ave. 209, MS-230 n NJ 08837 906-6886	Chain of Custody R Relinquished By 1 Caral Obly 2 3 4	(Date / Time) 5/9/11 (8:30	Sampler Signature: Clerk Doc Received By (D Ship to Lab vi	ate / Time) a: Focl Ex
SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALY SIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottl	STATION es Location	SAMPLE C DATE/	OLLECT	QC Type	
EPA-MW21R- B	Ground Water/ Todd Jennings	L/G	Alk, NOs, (28), S- (28), TOC (28)	(H2SO4), (Ice Only), (NaOH, Zn. Acetate) (3	EPA-MW21R- 3)	-B S: 5/9/2011	11:15		
ST-MW15	Ground Water/ Todd Jennings	L/G	Alk, NOs, (28), S- (28), TOC (28)	(H2SO4), (Ice Only), (NaOH, Zn. Acetate) (3	ST-MW15	S: 5/9/2011	16:45		
ST-MW17	Ground Water/ Carol DiGuardia	L/G	Alk, NOs, (28), S- (28), TOC (28)	(H2SO4), (Ice Only), (NaOH, Zn. Acetate) (3	ST-MW17 3)	S: 5/9/2011	14:55	• 	
ST-MW17A	Ground Water/ Carol DiGuardia	L/G	Alk, NOs, (28), S- (28), TOC (28)	(H2SO4), (Ice Only), (NaOH, Zn Acetate) (3	ST-MW17A)	S: 5/9/2011	15:00	Field Duplic	ate
ST-MW20	Ground Water/ Todd Jennings	L/G	Alk, NOs, (28), S- (28), TOC (28)	(H2SO4), (Ice Only), (NaOH, Zn Acetate) (3	ST-MW20	S: 5/9/2011	14:15 ⊡		

· ·			ľ
Shipment for Case	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
	ST-MW20	- total (
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?
Alk, NOs, = Alk., Nitra	te, Sulfate, Chloride, S- = Sulfide, TOC = Total Organic C	arbon (+V	
TR Number: PR provides preliminary r	2-043013577-050911-0001	l conte	REGION COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

F2V5.1.047 Page 1 of 1



284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax (908) 789-8922 www.chemtech.net

CHEMTECH PROJECT NO.

QUOTE NO.

COC Number (182858

	CLIENT IN	FORMATION				C	LIENT PR	IENT PROJECT INFORMATION					CLIENT BILLING INFORMATION							
COMPANY:	REPORT T	O BE SENT TO:	· · ·	PROJEC	TNA	ME:	Star	ten	Clea	incr	s i		BILL	<u>):</u>	ËĊ	c –		*	PO#: <u>중</u> 년	47.001
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ATTENTION:	Druc m.	iller		e-mail:	dri	γ (1	e e (e s	<u>eccim</u>	et				ATTENTION: Drive miller PHONE: (732) 735-4642							
PHONE: 108.)=15-17-1-	7 FAX: (908)5	15-1776	PHONE: (732)735 - 41,42 FAX:								ANALYSIS								
	DATA TURNARO	UND INFORMATIO	Ν.,		1	ATA	DELIVER	ABLE INF	ORM/	TION			R. A.	Ŷ						
FAX: IC DAYS* HARD COPY: IC DAYS* EDD: IC DAYS* PREAPPROVED TAT: IYES IV STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS				□ RESU □ RESU □ New □ New ⋈ EDD	JLTS JLTS Jersey Jersey FORM	ONLY QC REDU CLP		USEPA CLI New York S New York S Other (o itate AS	SP *B* SP *A*	2	3		5	6		8	9		
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SAMPLE	SAN	PROJECT IPLE IDENTIFICAT	ION	SAMPLE MATRIX	COMP	GRAB	DATE	TIME	# OF BOT	A 1	2	3	4	5	6	7	8	9	A-HCI C-H-SO E-ICE	B-HNO ₃ D-NaOH F-Other
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5.	EPA-	MUDAR-B	3	AQ		Х	5/9/11	11:15	2	\times										-
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		SAMPLE CUSTOD	Y MUST BE DOC	UMENTE	D BE	LOW	EACH TI	ME SAMP	LES C	HANGE	POSS	SESSIC	N INCL	UDING	G COUP	RIER DI	ELIVER	Y		,
RELINQUISHED BY SAMPLER: DATE/TIME: RECEIVED BY: 1. Count Didlandy 5/9/11 18:30 1. The Link				Condit MeO	ions of bott H extractio	les or c n reau	oolers at ires an a	receipt additio	nal 4 oz	Comp	liant Dercent	solid.	Non Co	mpliant	Co	oler Temp				
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3.	A LETIME: HECEIVED FOR LAB BT: 3.					Page of SHIPPED VIA: CLIENT: D HAND DELIVERED ØOVERNIGHT Shipment Con CHEMTECH: DPICKED UP OVERNIGHT DYES Ø						ent Complete: S DXNO								

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Date Shipped:	5/10/2011		Chain of Custor	ly Record	Sampler Out of Os	Recent	For La	b Use Only	
Carrier Name:	FedEx		Relinguished By	(Date / Time)	Received By	(Date / Time)	Lah Con	tract No:	
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δηφρεά το:	2890 Woodbridge A	ad ve.	2	enter fille	1 Ship 20				
	Bldg, 209, MS-230 Edison NJ 08837		3				Transfer		
	(732) 906-6886		A		<u></u>		Lab Con	tract No:	
			l				Unit Pric	e:	
ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLL DATE/TIM	lect E	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
EB-01	Field QC/ Carol DiGuardia	L/G	VOA (28)	(HCL) (3)	EB-01	S: 5/10/2011	7:45		
EPA-MW21R	Ground Water/ Carol DiGuardia	L/G	VOA (28)	(HCL) (3)	EPA-MW21R	S: 5/10/2011	10:45		
EPA-MW26	Ground Water/ Todd Jennings	L/G	VOA (28)	(HCL) (3)	EPA-MW26	S: 5/10/2011	15:15		
ST-MW14	Ground Water/ Carol DiGuardia	L/G	VOA (28)	(HCL) (3)	ST-MW14	S: 5/10/2011	13:35		
ST-MW19	Ground Water/ Todd Jennings	L/G	VOA (28)	(HCL) (3)	ST-MW19	S: 5/10/2011	13:15		
ST-MW19-B	Ground Water/ Todd Jennings	L/G	VOA (28)	(HCL) (3)	ST-MW19-B	S: 5/10/2011	10:15		
TB-02	Field QC/ Carol DiGuardia	L/G	VOA (28)	(HCL) (3)	TB-02	S: 5/10/2011	7:40		
		Sce	analysis' Fr	y for complete	list of parameter	<u>د</u> ک			
	н. Н							·	. · · ·

Shipment for Case Complete ?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	type/Designate: Composite = C, Grab = C	3	Custody Seal Intact? Shipment Iced?
VOA = CLP TCL Volatile	5	k		

TR Number: 2-043013577-051011-0002 PR provides preliminary results. Requests for preliminary results will increase analytical costs. Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

F2V5.1.047 Page 1 of 1

LABORATORY

€EP/	USEPA Co Organic 1	ontraci Fraffic	: Laboratory Report & Ch	Program ain of Cus	tody Reco	rd		Case DAS N	No:		· F
Region: Project Code: Account Code: CERCLIS ID: Spill ID: Site Name/Stat Project Leader Action: Sampling Co:	2 NYD0476501 te: Stanton Clea Carol DiGua ECC	196 aners/NY rdia		Date Shipped: Carrier Name: Airbill: Shipped to:	5/10/2011 FedEx 87358328838 USEPA Regio 2890 Woodbri Bldg. 209, MS Edison NJ 086 (732) 906-688	7 n 2 Lab dge Ave. -230 337 6	Chain of Custody Relinquished By 2 3 4	Record (Date /	Time) 1.20 1.0 2 011	Sampler Signature	(Date / Time) (Date / Time) (2 ship to lab
ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALY SIS/ TURNAROUND	TAG PRESERVA	No./ FIVE/ Bottles	STATION	SAMPLE DAT	COLLECT E/TIME	INOR SAMP	GANIC LE No.	QC Type
EB-01	Field QC/ Carol DiGuardia	L/G	VOA (28)	(HCL) (3)		EB-01	S: 5/10/2011	7:45			Rinsate
EPA-MW21R	Ground Water/ Carol DiGuardia	L/G	VOA (28)	(HCL) (3)		EPA-MW21F	S: 5/10/2011	10:45			
EPA-MW26	Ground Water/ Todd Jennings	L/G	VOA (28)	(HCL) (3)		EPA-MW26	S: 5/10/2011	15:15			
ST-MW14	Ground Water/ Carol DiGuardia	L/G	VOA (28)	(HCL) (3)		ST-MW14	S: 5/10/2011	13:35			-
ST-MW19	Ground Water/ Todd Jennings	L/G	VOA (28)	(HCL) (3)		ST-MW19	S: 5/10/2011	13:15			
ST-MW19-B	Ground Water/ Todd Jennings	L/G	VOA (28)	(HCL) (3)		ST-MW19-B	S: 5/10/2011	10:15			
TB-02	Field QC/ Carol DiGuardia	L/G	VOA (28)	(HCL) (3)		TB-02	S: 5/10/2011	7:40			Trip Blank

See analysis key for complete list of parameters.

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Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate Composite = C, Grab = G	Shipment Iced?
VOA = CLP TCL Vola	tiles	l l l l l l l l l l l l l l l l l l l	

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TR Number: 2-043013577-051011-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

F2V5.1.047 Page 1 of 1

REG

€EPA	USEPA Co Generic C	ntrac hain c	t Laboratory I of Custody	Program			Reference Case Client No: SDG No:	
Date Shipped: Carrier Name: Airbill:	5/10/2011 FedEx 873583288387		Chain of Custod	(Date / Time)	Sampler Signature: Cluw(D) Received By	(Date / Time)	For Lab Use Only Lab Contract No:	
Shipped to:	USEPA Region 2 L 2890 Woodbridge / Bldg. 209, MS-230 Edison NJ 08837 (732) 006 6886	.ab Ave.	2 3	al 5/10/2011			Unit Price:	
	(732) 906-6886 	CONC/	4 ANALYSIS/	TAG No./	STATION	SAMPLE COLL		FOR LAB USE ONLY
SAMPLE NO.	SAMPLER	TYPE	TURNAROUND	PRESERVATIVE/ Bottles	LOCATION	DATE/TIME		Sample Condition On Receipt
EPA-MW21R	SAMPLER Ground Water/ Carol DiGuardia	L/G	TURNAROUND Alk, NOs, (28), S- (28), TOC (28)	PRESERVATIVE/ Bottles (H2SO4), (Ice Only), (NaOH, Zn. Acetate) (3)	LOCATION EPA-MW21R	DATE/TIME S: 5/10/2011	10:45	Sample Condition On Receipt
EPA-MW21R EPA-MW26	SAMPLER Ground Water/ Carol DiGuardia Ground Water/ Todd Jennings	TYPE L/G L/G	TURNAROUND Alk, NOs, (28), S- (28), TOC (28) Alk, NOs, (28), S- (28), TOC (28)	PRESERVATIVE/ Bottles (H2SO4), (Ice Only), (NaOH, Zn. Acetate) (3) (H2SO4), (Ice Only), (NaOH, Zn. Acetate) (3)	LOCATION EPA-MW21R	DATE/TIME S: 5/10/2011 S: 5/10/2011	10:45 15:15	Sample Condition On Receipt
EPA-MW21R EPA-MW26 ST-MW14	Ground Water/ Carol DiGuardia Ground Water/ Todd Jennings Ground Water/ Carol DiGuardia	L/G L/G L/G	TURNAROUND Alk, NOs, (28), S- (28), TOC (28) Alk, NOs, (28), S- (28), TOC (28) Alk, NOs, (28), S- (28), TOC (28)	PRESERVATIVE/ Bottles (H2SO4), (Ice Only), (NaOH, Zn. Acetate) (3) (H2SO4), (Ice Only), (NaOH, Zn. Acetate) (3) (H2SO4), (Ice Only), (NaOH, Zn. Acetate) (3)	LOCATION EPA-MW21R EPA-MW26 ST-MW14	DATE/TIME S: 5/10/2011 S: 5/10/2011 S: 5/10/2011	10:45 15:15 13:35	Sample Condition On Receipt
EPA-MW21R EPA-MW26 ST-MW14 ST-MW19	Ground Water/ Carol DiGuardia Ground Water/ Todd Jennings Ground Water/ Carol DiGuardia Ground Water/ Todd Jennings	TYPE L/G L/G L/G	TURNAROUND Alk, NOs, (28), S- (28), TOC (28) Alk, NOs, (28), S- (28), TOC (28) Alk, NOs, (28), S- (28), TOC (28) Alk, NOs, (28), S- (28), TOC (28)	PRESERVATIVE/ Bottles (H2SO4), (Ice Only), (NaOH, Zn. Acetate) (3) (H2SO4), (Ice Only), (NaOH, Zn. Acetate) (3) (H2SO4), (Ice Only), (NaOH, Zn. Acetate) (3) (H2SO4), (Ice Only), (NaOH, Zn. Acetate) (3)	LOCATION EPA-MW21R EPA-MW26 ST-MW14 ST-MW19	DATE/TIME S: 5/10/2011 S: 5/10/2011 S: 5/10/2011 S: 5/10/2011	10:45 15:15 13:35 13:15	Sample Condition On Receipt

See Analysis Key for complete list of parameters

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Shipment for Case Complete ?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = C	 G	Custody Seal Intact? Shipment Iced?
Alk, NOs, = Alk., Nitrate	, Sulfate, Chloride, S- = Sulfide, TOC = Total Organ	c Carbon	· ·	

TR Number: 2-043013577-051011-0001

F2V5.1.047 Page 1 of 1

\$EP/	USEPA C Generic	Contra Chain	ct Laboratory of Custody		Reference (Client No:	Case:	R		
Region: Project Code: Account Code: CERCLIS ID: Spill ID: Site Name/Stat Project Leader Action: Sampling Co:	2 NYD047650 e: Stanton Cle Carol DiGu ECC	0196 eaners/NY ardia		Date Shipped: 5/10/2011 Carrier Name: FedEx Airbill: 87358328 Shipped to: USEPA R 2890 Woo Bidg. 209 Edison N. (732) 906	98387 legion 2 Lab odbridge Ave. , MS-230 J 08837 -6886	Chain of Custody R Relinquished By Carol Dx() 2 3 4	(Date / Time) (Date / Time) (7:3) (20(1)	Sampler A Signatule: and Received By Feed ex 5 h	(Date / Time) (Date / Time) p to labo
SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE C DATE/	OLLECT TIME		QС Туре
EPA-MW21R	Ground Water/ Carol DiGuardia	L/G	Alk, NOs, (28), S- (28), TOC (28)	(H2SO4), (Ice Only), (NaOH, Zn. Acetate) (3)	EPA-MW21	R S: 5/10/2011	10:45		-
EPA-MW26	Ground Water/ Todd Jennings	L/G	Alk, NOs, (28), S- (28), TOC (28)	(H2SO4), (Ice Only), (NaOH, Zn. Acetate) (3)	ÉPA-MW26	S: 5/10/2011	15:15		
ST-MW14	Ground Water/ Carol DiGuardia	L/G	Alk, NOs, (28), S- (28), TOC (28)	(H2SO4), (Ice Only), (NaOH, Zn. Acetate) (3)	ST-MW14	S: 5/10/2011	13:35		
ST-MW19	Ground Water/ Todd Jennings	L/G	Alk, NOs, (28), S- (28), TOC (28)	(H2SO4), (ice Only), (NaOH, Zn. Acetate) (3)	ST-MW19	S: 5/10/2011	13:15		<u></u>
ST-MW19-B	Ground Water/	L/G	Alk, NOs, (28), S-	(H2SO4), (Ice Only),	ST-MW19-E	S: 5/10/2011	10:15		

See analysis key for complete list of parameters

(28), TOC (28)

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: / Composite = C, Grab = G	Shipment lced?
Alk, NOs, = Alk., Nįtrato	e, Sulfate, Chloride, S- = Sulfide, TOC = Total Organic Cai	pon	
TR Number:	2-043013577-051011-0001		REGION COPY

TR Number: 2-043013577-051011-0001

Todd Jennings

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

(NaOH, Zn. Acetate) (3)

F2V5.1.047 Page 1 of 1



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CHEMTECH PROJECT NO. QUOTE NO.

COC Number 082859

,	CLIENT IN	NFORMATION				CL	LIENT PA		FORMA	TION			CLIENT BILLING INFORMATION						RMATION	
	REPORT	O BE SENT TO:							1			. [· .		-		
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ATTENTION:	Dave 1	niller		e-mail: dimitier & ede net							ATTENTION: Dave Miller PHONE: (752) 735-4642									
PHONE: (4)	(8)595+17	77 FAX: (908) 59	5-1776	PHONE:(732)735-11642 FAX:							ANALYSIS									
C	DATA TURNARO	UND INFORMATION	N		C	ΑΤΑΙ	DELIVER		FORMA	TION				Ŷ.					/ /	
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SAMPLE	SA	PROJECT MPLE IDENTIFICAT	ION	SAMPLE MATRIX	TY comp	PE BYB	COLLE		F OF BOTT	A 1	2	3	4	5	6	7	. 8	9	A−HCI C−H2SO F−ICE	B-HNO B-HNO D-NaOH F-Other
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RELINQUISHED BY	SAMPLER:	DATE/TIME: 17:30 5/10 2011 DATE/TIME:	RECEIVED BY: 1. Food Gar + RECEIVED BY: 2	ship to	la b	• •	Condit MeO Com	ions of both H extraction ments:	les or c on requ	oolers at ires an a	receip additio	t: C nal4oz] Comp jar for j	liant percent	solid.	Non Cor	mpliant	Co Ice	oler Temp in Cooler?:_	
RELINQUISHED BY		DATE/TIME:	RECEIVED FOR LAR	ILAB BY: SHIPPED				HIPPED	PED VIA: CLIENT: HAND DELIVERED OVERNIGHT Shipment Complete: CHEMTECH: PICKED UP OVERNIGHT. YES NO											

Attachment D

Fed Ex airbills

Express US Airbill	
From Please print and press hard. Date 5/9/2011 Sender's FedEx Account Number 2013 FR 4 EDEX 4 25 9448 CR 0.1944	4a Express Packa FedEx Priority Over Next business morning * Fr stigments will be delivered
Senders C. D. Guardia Phone (908) 399-3717	FedEx 2Day Second business day.* Thu shipments will be delivered unless SATURDAY Delivery
Company ECC	4b Express Freight
Address LLO Cutter Mill Road	Next business day Treight be delivered on Monday uni Delivery is selected.
city Great Neck State NY ZIP 11021	Second business day.**The on Monday unless SATURD
Your Internal Billing Reference Stanton Cleaners	FedEx Envelope*
To Recipient's John Birri Phone (732) 906-6886	6 Special Handlin SATURDAY Deliver
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Attachment E

Groundwater Monitoring logs

Figure 7-8 Field Groundwater Sampling Data Sheets

FIELD GROUND-WATER SAMPLING REPORT

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09-20	(a. ()	450	7.88	20.79	6-474	=11.()	96	15.03	164.45
09:35	16-55	450	7.87	20 70	0 442	477.0	95	14.76	64.45
69.40	7.0	450	7.88	20.67	0.456	3220	92	14.66	64.45
			Co	ontinued on ba	ack (circle one)	res)/ no			
<u>SAMPLIN</u>	NG	Equipme	nt Used: S	ame as above	e Other	-			
Sample	Tota		Temp	Conductivity	Turbidity	ORP	D.O.	Depth to	01-1
(24 hr)	Purge (gals	ed pH	(C)	(mmhos/cm)) (NTUs)	(mV)	(mg/L)	(ft TOC)	Obs.
<u></u>	(3							<u> </u>	
				(ma/L):	'i				
FINAL DI		VATER (ft TO	C):	(iiig/L).			:	· · · · · · · · · · · · · · · · · · ·	,
SAMPLE	10: <u>Ef</u>	A-mwa	<u>IR</u>	SAMPLE		Luto		500ml	500ml .
PARAME	ETERS REC	QUESTED FO	R ANÁLYS	SIS: <u>\{\A</u>	MEE, Chlo	ride, Sulta	te, Nitra	to, Supple	TOC,
VOC pH:	IC	W TOTAL: _	D	O METER MC	DEL No.:	A(kalinna ORP	METER MC	DEL No.:	* H2504
DO CHE	CK IN AIR:	Before:		After:					
CHECKE	D FLOW T	HROUGH CE	LL FOR LE	EAKS: 🗌 C	OMMENTS:				
		NAME		<u>S</u>	IGNATURE			DATE	
PREPAR	ED:								. <u> </u>
REVIEW	ED:					· · · · · · · · · · · · · · · · · · ·			

EPA-mwpir

Time (24 hr)	Amount Purged (gals)	Flow Rate (ml/min)	pH _	Temp (C)	Conductivity (mmhos/cm)	Turbidity (NTUs)	ORP (mV)	D.O. (mg/L)	Depth to Water (ft TOC)
109:45	7.5	450	7.88	2052	0.449	534-0	90	14.65	104.45
07:50	8.0		7.90	20.43	0.442	544.0	82	15.15	-
09:55	8.5	450	7.89	20.43	0.437	551.0	80-	15.16	64.36
10:00	9.0	450	7-93	20,40	0.433	602-0	78	14.75	63.83
10:05	9.5	375	7.92	20.19	0.428	372.0	79	14.48	133D
10:10	10.0	375	7.89	20.40	0.426	914.0	80	14. 4D	1.2.57
10:15	10-5	375	7.92	20,20	0.423	-5.0	85	13.65	62.05
10:20	11-0	400	7-91	20.05	0.434	-5.0	88	13.88	4.15
10:25	145	400	7-92	19.95	0.473	369.0	88	14.25	62.51
(0:30	12.0		7-97	19.87	0.469	264.0	86	14.47	-
10:37	13.0	450	7-98	19-79	0.470	286.0	83	14.53	
			ģ						. 1
				х.					
								· ·	

COMMENTS

Well stabilized for all parameters but turbidity was still over 50. Sample was taken at 10:45 because turbidity Kept fluctuating and generator was running out of gas.

Figure 7-8 Field Groundwater Sampling Data Sheets

FIELD GROUND-WATER SAMPLING REPORT

	5-10-		Strutz 1	Harners		at WELL HE			
	<u> </u>	<u> </u>	<u>Junor</u>		FIDINLADING				
PROJEC	I NUMBER	<:	vv			57.0F	· · · · · · · · · · · · · · · · · · ·		
WELL NU			1	DEPTHI	O WATER (π): ,		_		
EI	2A-M	W-26			·			-	
PURGIN	2		TOT	TAL DEPTH (ft): \	WELL DIAMI	ETER (inche	s):	
			N· f	it of water in ca	isina Xaa	allons/foot =	to	tal gallons/ca	asina volume
Equipme	nt Used: D	edicated Blad	der Pump	Nondedicate	d Bladder Pump	Bailer C	other		_
Time	Amount	Flow Rate		Temp	Conductivity	Turbidity	ORP	D.O.	Depth to
(24 hr)	Purged (gals)	(ml/min)	рН	(Ç)	(mmhos/cm)	(NTUs)	(mV)	(mg/L)	Water (ft TOC)
14.47	Initial	450mc/m	0.22	16.6	0.713	247	167	8.16	57.08
14:52	0.5	350 mym	7.19	16.7	0,867	320.0	149	6.96	57.05
14:57	1.0	350 ml/m	7.06	17.5	0.844	210,0	142	6,72	57.05
15:02	1.5	350 m/m	6.98	18.9	0.825	121.0	141	6,72	57.06
15:07	6.0	350 melm	7.04	100	0.824	101.0	139	6.12	51.00
15:12	2.5	2 Samuel	710	19.0	<u>0.850</u> A 979	1700	120	6,33	57.00
15:11	300 25	250ml	7 77	14 0	0.837	156.0	140	6.70	57.05
15:77	<u> </u>	350 ml	740	19.1	0.83	164.0	141	6.44	57.04
15:37	45	350 mL	7.44	19.1	0.833	148.0	147	6.48	57.04
5:37	5.0	350 mL	7.54	19.4	0.828	148.0	142	6.47	57.83
							· · · ·		
			<u> </u>						
			Cc	ntinued on ba	ck (circle one) y	l res / no			
		Equipmor	nt Usod: S	ame as above	Other				
<u>SAMPLIN</u>	<u>NG</u>								
Sample	Tota		Temp	Conductivity	Turbidity	ORP	D.O.	Depth to	Oba
∣ ∣ıme (24 hr)	(gals	ed pH	(C)	(mmhos/cm)	(NTUs)	(mV)	(mg/L)	(ft TOC)	Obs.
FINAL D	O READIN	G USING HAG	CH METER	(mg/L):		FERROUS II	RON (mg/L):		
FINAL D	ЕРТН ТО И	VATER (ft TO	C):		TIME FINAL DE	EPTH TAKEN	l:		
SAMPLE	ID:			SAMPLE		Llitz	x-	Socal	500ml
PARAME	TERS RE	QUESTED FC	R ANALYS	SIS: <u>VOA</u> , GUD	mét, chlor	ride, Sulf	ete Nitra	to, Suthde	TOC,
VOC pH:	ic	W TOTAL: _	D ⁱ	O METER MO	DEL No.:	ORF	METER MC	DEL No.:	e H_2SQ
DO CHE	CK IN AIR:	Before:		After:					
CHECKE	D FLOW T				OMMENTS:	. ·		,	
		<u>NAME</u>		S	IGNATURE		τ	DATE	
PREPAR	ED:								
REVIEW	ED.								
						to a	,		

			FIELD G	ROUND-W	ATER SAMPL	ING REPO	RT		Shift Res
ATE:5	-12 - (1	SITE:	Stur	ton acane		at WELL HE	AD (ppm):		
ROJECT			N	EATHER:					
ELL NU	IMBER	,		DEPTH		52.12	_		
		10]			·		•	
57	- MW-	17		TAL DEPTH (f	t): \		TER (inche	s) 2	
JRGING	<u>5</u>			.,				-/. <u></u>	
ASING V			DN:	ft of water in ca	asing X ga	allons/foot =	to	tal gallons/ca	sing volume
quipmen	at Used: D	edicated Blac	dder Pump	Nondedicate	d Bladder Pump	Bailer O	ther `	<u> </u>	~ .
Time	Amount	Flow Rate		Temp	Conductivity	Turbidity	ORP	D.O.	Depth to
24 hr)	Purged (gals)	(ml/min)	рн	(C)	(mmhos/cm)	(NTUs)	(mV)	(mg/L)	(ft TOC)
25	Fridal	375	6.96	14.99	0:276	264	165	8.80	52.12
-30			=.91	15.09	0,277	842	185	8.42	
1.08	al		6.07	15-07	0.267	400	184_	11.74	
2:14	19th /	400	Cer00	15.33	0.244	230	165	8.90	51,34
ia	5.0	-500	4-20	15.32	0.245	202	149	8.1.3	52.48
·.24	ler U	500	6.28	15.30	0.263	15.0	190	0,54	52.63
2.24	7-0	400	1.98	15.45	0.262	106.0	125	8-62	25.82
7:5.5	80		5.86	110 75	0,277	150	178	8.64	<u> </u>
-60	9.00	SDD	5.90	18.88	0.283	117.0	172	8.52	52.20
3:05			4-50		0.291	(33.0	145	9-36	·
3:20	4.5	450	5.92	15.82	0.219	(27.0	147 -	9.382	52.62
3-25	10.0		5-840	16-39	0.2824	55.0	167-	8.534	-52.38
3-23	1(450	5.84	16-30	0.28	34.3	167-	8.390	<u> </u>
MPLIN	<u>G</u>	Equipme	nt Used: S	Same as above	e Other	<u>35 / 10</u>			
ample	Total		Tomp	Conductivity	Turbidity			Depth to	
Time	Purge	d pH	(C)	(mmhos/cm)	(NTUs)	(mV)	(mg/L)	Water	Obs.
3:25	(gais	2	1		-				
	READING	USING HA		(mg/L):		FERROUS IF	RON (mg/L):		
VAL DE	ртн то м	ATER (ft TO	C):		TIME FINAL DE	PTH TAKEN:			
	D:			SAMPLE_	ID FOR QC:		<u> </u>	Socal	500ml
RAMET			R ANALYS	sis: MAA	MEE, Chlor	ide, Sulta	te, Nitral	E. Sithde	Toc.
C pH: _	ID'	W TOTAL: _	D(D METER MO	(14CE) DEL No.:	Ackalind ORP	METER MC	NECH L	e Hizsoy
CHEC	K IN AIR: <u>I</u>	Before:		After:		-	1		
IECKEE	FLOW TH	HROUGH CE	ELL FOR LE		OMMENTS:	<u> </u>			
				 		····			
EPARE	D;			<u></u>		<u> </u>			
	- <u>-</u>						· · ·		

DATE: S	-9-11	SITE:			PID READING	at WELL HE	AD (ppm):			-
PROJEC		<u> </u>		VEATHER:				· .		
	IMBER		· .	DEPTH	TO WATER (ft):	73.21				
	MI	10	7				-			
712	1.00-	17	 		¥\·		ETER (inche	2		
	3		10		·)·			s) <u> </u>	.	•
CASING			N:	ft of water in c	asing X g	allons/foot =	to	tal gallons/ca	asing volume	
		adianted Diad		Nondodicate	d Bladder Pump	Bailer C)thor		Ũ	
=quipmei						10%	<u>/v</u> _	10 %.		ิล
Time	Amount Puraed	Flow Rate	рН	Temp	Conductivity	Turbidity	ORP	D.O.	Depth to Water	
(24 hr)	(gals)	(ml/min)		(C)	(mmnos/cm)		(mv)	(mg/L)	(ft TOC)	
1.45	Initial	150 ac boy	6.65	15.6	0.474	21.7	176	7.11	193,21	
5-30 C/5#	0.5		6.61	15:1	0.4.21	1100	15-	575		, ·
5 10 10 (- 100	3. 0	200	10,68	17.6	NEY6	-5	130	5.56		
6:05	<u>(</u> ,)	S 44 Marx	670	17.5	N.649 W	<u> -</u> _	76	5.25	· ·	
6:10	60		6.74	18-5	0,63F	256.0	122	6.79	71,94	Ŷ
6:15	η.ο		6,75-	18.6	0.645	245	123	5.98		
19:20	9.0	400	6.75	16.1	0.610	290	152	6.13		
6 . 20	/0.0		19.120	15.5	0.681	FOR	198	5,52		
6.50	15 0		6.89	155	0.703	42.6	151	C27	· · ·	Ņ
6.40	12.5		6 92	10.4	0.698	45.5	155	5.09		
6:45	20.0		6.89	15.5	0.699	53,5	157	5.02		
										4.5
		e	C	ontinued on ba	ick (circle one) y	res / no	<u> </u>			ł
<u>SAMPLIN</u>	<u>1G</u>	Equipme	nt Used:	Same as abov o	e Other		· · · · · · · · · · · · · · · · · · ·	·		
Sample	Tota	I	Tomp	Conductivity				Depth to		1
Time	Purge	ed pH	(C)	(mmhos/cm)) (NTUs)	(mV)	(mg/L)	Water	Obs.	
(24 (11)	(gais	<u>, , , , , , , , , , , , , , , , , , , </u>		· ·						
<u>_</u>		<u></u>	<u></u>	<u> </u>			<u> </u>	<u></u>	<u> </u>	
INAL DO				(IIIg/L)			RON (ING/L).			
FINAL DE	ΕΡΤΗ ΤΟ Μ	VATER (ft TO	C):	· .	TIME FINAL DI	EPTH TAKEN	:			
SÄMPLE	ID:			SAMPLE		Litz	<u> </u>	Socal	500ml	
PARAME	TERS REC	QUESTED FO	RANALY	sis: <u>A</u> ,	MEE, Chlo	ride, Sulf	ete, Nitra	to Sulfide	- TOC,	
/OC pH:	ID	W TOTAL:	ם	O METER MC	DEL No.:	ALKALIAN ORP	METER MC	DEL NO.:	le Hirsoy	
רµ⊏י		- Refore		After						
	U FLOW I					<u> </u>				
		NAME		S	IGNATURE			DATE		

20

FIELD GROUND-WATER SAMPLING REPORT

	4 L -		A						
DATE:	5 9 2	ol SITE:	5.0	• •	PID READING	at WELL HE	AD (ppm):	a	1
PROJEC		R:	W	/EATHER:					
•WELL NU	JMBER			DEPTH 1	O WATER (ft):	68:57			·
			Ϊ		()				
21	- mw								
PURGIN	<u>G</u>		10		l). <u>- (((((())</u>			5)	-
CASING			N:	ft of water in ca	asina X a	allons/foot =	to	tal gallons/ca	sina volume
Equipmer	nt Used: D	edicated Blac	Ider Pump	Nondedicate	d Bladder Pump	Bailer O	other		-
Time	Amount	Flow Rate	<u> </u>	Temp	Conductivity	Turbidity	ORP	D.O.	Depth to
(24 hr)	Purged (gais)	(ml/min)	рН	(C)	(mmhos/cm)	(NTUs)	(mV)	(mg/L)	(ft TOC)
13:12	G	360	6-13	15.50	0.359	445	1710	6-99	1.8.6
13:17	0.5	500	5.78	15-80	(2,3)	(850	174	7-109	68.79
13:22	1	500	5.76	16-89	0.375	-5.0	144	7.41	69.19
13:27	2	500	5.80	17:93	0.384	505	152	8.02	69.09
13:32	3	560	5.93	17.76	0.381	559	152	8.10	69.09
13:37	<u> </u>	15D	Lell,	17.85	0.381	613	149	7.89	68.90
13.42	5	500	6.21	17.81	0.380	597	145	7.71	68.75
13:47	<u> </u>	400	6-30	17.56	0.379	543	136	7.80	68.70
13:52	<u> </u>	400	6-35	18-10	0.381	488	134	7-84	8.80
13:57	8	460	6-39	18.28	0.381	435	132	7.81	68.82
14.62	- % ,5	400	638	18-52	0.381	348	132	8.60	68.85
14:07		900	637	18,34	0314	313	133	8.00	68.89
14:10	(0	(00)	438	18.46	0.378	279	133	7.92	68,92
14;1-1		400	<u>6-35</u>	18-31	$O \cdot P IS$ ck (circle one) v	1219 es/no	135	8.10	67.92
	<u> </u>		0						
SAMPLIN	<u>IG</u>	Equipme	nt Used: S	Same as <u>above</u>	e Other				
Sample	Tota	i , ,	Temp	Conductivity	Turbidity	ORP		Depth to	
Time	Purge	ed pH	(C)	(mmhos/cm)	(NTUs)	(mV)	(mg/L)	Water	Obs.
(24 nr) パチ:らて	- (gais	5)							
$\frac{1}{15}$	50 F	-P	<u> </u>						
FINAL DO	D READING	G USING HA	CH METER	(mg/L):		FERROUS I	RON (mg/L):	.	
FINAL DE	ΕΡΤΗ ΤΟ Υ	VATER (ft TC	C):		TIME FINAL DE	EPTH TAKEN	:		
SAMPLE	ID:			SAMPLE			<u> </u>	500ml	500ml
PARAME	TERS REC	QUESTED FO	OR ANALYS		mEE, Chlor	ride, Sulf	ite, Nitra	te Sulfide	TOC,
VOC pH:	ID	W TOTAL: _	D	O METER MO	(14CR) DEL No.:	Ackalin. ORP	METER MC	DEL NO.:	e thisoy
DO CHEC		Before:		After:		_			
CHECKE	D FLOW T	HROUGH CE			OMMENTS:				S
	• • • •	NAME		S	IGNATURE				
PREPARI	ED:		×			·		<u></u>	
	-D-								
IVENIENAE	-D								,

rigure 7-8 die o Groundwater Sampling Jata Steets

WELL NUMBER

ST-MW-17

, Time (24 hr)	Amount Purged (gals)	Flow Rate (ml/min)	рH	Temp (C)	Conductivity (mmhos/cm)	Turbidity (NTUs)	ORP (mV)	D.O. (mg/L)	Depth to Water (ft TOC)
10-122	- 12	400	6-36	(8. 28	0.375	197.0	134	8.10	69.0
14527	125	. L6D	635	(8.22	0.373	174.0	136	8-17	69.0
1932	13	dor)	633	18.04	0.371	135.0	138	8.08	69.0
19:37	14	400	6.33	18.00	6.370	98.0	(38	8.10	69.0
14:42	15	400	6.34	17.96	0.367	82.5	138	8:05	69.0
14:47	_16		639	17.94	0-372	60.2	138	7-80	69.0
14252			6.31	17.79	0.369	\$9.8	135	8.10	
					1				
· .					• .				
			ũ					<u></u>	1
		*							
		÷					·		
			•						
							·		
				· ·					

COMMENTS

518-222-3742 518-361-4438 Day J.

Figure 7-8 Field Groundwater Sampling Data Sheets

FIELD GROUND-WATER SAMPLING REPORT

DATE: 5	-10-1(SITE:			PID READING	at WELL HE	AD (ppm):		
PROJEC		२:	W	EATHER:					
WELL N	JMBER			DEPTH	TO WATER (ft):	64.94			
Ce			7						
51-	- Mur	19		TAL DEPTH (f	t).		ETER (inche	- -	
<u>PURGÍN</u>	3		10						
CASING	VOLUME	CALCULATIC	N:	ft of water in ca	asing X g	allons/foot =	to	tal gallons/ca	ising volume
Equipme	nt Used: D	edicated Blad	lder Pump	Nondedicate	ed Bladder Pump	Bailer C	other	aprel O 1.	3.15
Time	Amount	Flow Rate	<u> </u>	Temp	Conductivity	 Turbidity	ORP	D.O.	Depth to
(24 hr)	Purged (gals)	(ml/min)	рн	(C)	(mmhos/cm)	(NTUs)	(mV)	(mg/L)	(ft TOC)
11:58	In Houl	600 mc/m	חנין	15.8	0.6-23	349	168	4.74	65.91
12:03	1.5	400 m/m	6.92	16.6	0.625	478.0	166	3.97	65.57
12:08	2.5	400m2/m	6.93	17.4	0.629	371.0	161	3.75	65.34
12:13	3	400 * c/m	6.86	17.8	859.0	301.0	146	3.60	65.33
12:18	3.5	400mc/m	6.89	18,3	0.652	257.0	121	3.48	65.25
12.23	4.5	400m/m	6.93	18.5	6.637	424.0	129	3,43	65.26
12:28	<u> </u>	100m/m	6.93	18.8	0.638	523.0	133	3,43	65.35
16:33		400	6.99	18.0	0.654	521.0	159	3.43	65.3Z
16:58	<u>6.5</u>	400 m-1m	6.14	18.1	0,640	947.0	191	2.71	65.59
12-19	76	100 mm	6.79	10-7	6.657	316.0		2.19	65.42
12.50	_/\ <u>></u>	400 m	1 97	10.1	0.63	2730	140	3.10	62,92
17.5	 	4mm	6.15	107	0.635	179 ()	145	2 404	1545
13:02	10	400	10,97	18.6	0, (073	140	146	3,62	(5.94
13:08		`	6192 Cc	ntinued on ba	ck (circle one) y	res / no		3.67	
I 3 : 43 SAMPLIN) (I <u>G</u>	Equipme	nt Used: S	IF. 5 Same as above	0:639 e Other	<i>~</i> 141	197		
Sample	Tota	1	Temp	Conductivity	Turbidity	ORP		Depth to	
Time	Purge	ed pH	(C)	(mmhos/cm)	(NTUs)	(mV)	(mg/L)	Water	Obs.
(24 111)	(yais	<u>, , , , , , , , , , , , , , , , , , , </u>				·	· · ·		
				(·		<u> </u>		
FINAL DE	EPTH TO V	VATER (ft TC	C):	(mg/L)	TIME FINAL DE	EPTH TAKEN	KON (mg/∟): :	· · · · · · · · · · · · · · · · · · ·	· · · · ·
SAMPLE	ID:		<u> </u>	SAMPLE		1 inte	~	Socal	500ml
PARAME	TERS REC	QUESTED FO	OR ANALYS	sis: <u>voA,</u>	MEE, Chlo	ride, Sulfa	te, Nitra	to, Suthde	TOC,
VOC pH:	ID	W TOTAL: _	D	(Gac) O METER MO	(((2)) DEL No.:	Ackedung ORP	METER MC	DEL No.:	e through
DO CHEC	CK IN AIR:	Before:		After:					
CHECKE	D FLOW T	HROUGH CE	ELL FOR LE		OMMENTS:	· · · · · · · · · · · · · · · · · · ·			
		NAME		<u>S</u>	IGNATURE			DATE	
PREPAR	ED:					· *	<u> </u>		
REVIEW	ED: _					· · · · · · · · · · · · · · · · · · ·			

Figure 7-8 Field Groundwater Sampling Data Sheets

FIELD GROUND-WATER SAMPLING REPORT

	-								
DATE: _	519/201	<u>I</u> SITE:	Stanton	Cleaners	PID READING	at WELL HE	AD (ppm):		
PROJEC	T NUMBER	२:	W	/EATHER:	sinny b	9			
ŴELL N	UMBER			DEPTH ⁻	TO WATER (ft):	70.22	<u> </u>		
ST	-mw	<i>a</i> o]					•	
			J TO	TAL DEPTH (f	t): 215 ft.	WELL DIAME	ETER (inche	es):	
PURGIN	<u>G</u>				•				
CASING	VOLUME	CALCULATIC	N:	ft of water in c	asing X g	allons/foot =	to	otal gallons/ca	sing volume
Equipme	nt Used: D	edicated Blac	lder Pump	Nondedicate	ed Bladder Pump	Bailer O	ther		_
Time	Amount	Flow Rate		Temp	Conductivity	Turbidity	ORP	D.O.	Depth to
(24 hr)	Purged (gals)	(ml/min)	pm	(C)	(mmhos/cm)	(NTUs)	(mV)	(mg/L)	(ft TOC)
Enqui		150 AL/2	6,00	14.	0, 530	>997	165	r.33	70.33
13:25	2.0	0-01	6.22	14.7	0.521	1°	13 5	7.85	72.38
<u>13:30</u>	4.0	375 mlm	6.30	14.9	0.519	865.0	137	7.61	70.33
13.30	5.>	3) min	6.34	171.8	0.514	84.0	130	7.58	10.52
1390	6.5	5/5 m	$\frac{6.51}{7}$	17.8	0.519	550.0	150	7.58	10.36
1250	0	375 m	1.76	140	0.50	347,0	121	1.52	102
1255	25	2750-1-	(25	14 9	000	172 6	130	7.78	74.27
14/00	9.0	775 1/2	10.35	15.0	A.CI9	1470	133	7.42	70.52
14105	9.5	325 -	6.35	14.9	0.520	120.0	133	7.41	70.22
1410	10.0	375 m./m	635	14.9	0.520	101.0	178	7.40	70.31
14:15	10.5	375m/m	6.36	14.9	0.521	83.5	132	7.40	70.31
			· · ·	· · ·					
			C(ntinued on ha	ok (circle one) y				
			0	annaeu on ba					
			nt Used: S	same as above	e Other	·	· · · · · · · · · · · · · · · · · · ·		
SAMPLIN	NG	Equipmei			,		_		
SAMPLIN Sample	<u>NG</u> Tota		Temp	Conductivity	Turbidity	ORP	D.O.	Depth to	
SAMPLIN Sample Time (24 hr)	NG Tota Purge (gals	ed pH	Temp (C)	Conductivity (mmhos/cm)	Turbidity (NTUs)	ORP (mV)	D.O. (mg/L)	Depth to Water (ft TOC)	Obs.
SAMPLIN Samplé Time (24 hr)	Tota Purge (gals	ed pH	Temp (C)	Conductivity (mmhos/cm)	Turbidity (NTUs)	ORP (mV)	D.O. (mg/L)	Depth to Water (ft TOC)	Obs.
SAMPLIN Sample Time (24 hr)	Tota Purge (gals	ed pH	Temp (C)	Conductivity (mmhos/cm)	Turbidity (NTUs)	ORP (mV)	D.O. (mg/L)	Depth to Water (ft TOC)	Obs.
SAMPLIN Sample Time (24 hr) FINAL DO		Equipment ed pH	Temp (C) H METER	Conductivity (mmhos/cm) (mg/L):	Turbidity (NTUs)	ORP (mV) FERROUS IF	D.O. (mg/L) RON (mg/L):	Depth to Water (ft TOC)	Obs.
SAMPLIN Sample Time (24 hr) FINAL DO	Tota Purge (gals O READINC EPTH TO W	Equipment ed pH) G USING HAC	Temp (C) H METER	Conductivity (mmhos/cm) (mg/L):	Turbidity (NTUs)	ORP (mV) FERROUS IF	D.O. (mg/L) RON (mg/L):	Depth to Water (ft TOC)	Obs.
SAMPLIN Sample Time (24 hr) FINAL DO FINAL DO SAMPLE	Tota Purge (gals O READINC EPTH TO W	Equipment d pH) G USING HAC VATER (ft TO	Temp (C) H METER C):	Conductivity (mmhos/cm) (mg/L): SAMPLE	Turbidity (NTUs) TIME FINAL DE	ORP (mV) FERROUS IF	D.O. (mg/L) RON (mg/L):	Depth to Water (ft TOC)	Obs.
SAMPLIN Samplé Time (24 hr) FINAL DO FINAL DO SAMPLE PARAME	Tota Purge (gals O READINC EPTH TO W ID:	Equipment d pH) G USING HAC VATER (ft TO	Temp (C) H METER C): R ANALYS	Conductivity (mmhos/cm) (mg/L): SAMPLE	Turbidity (NTUS) TIME FINAL DE ID FOR QC:	ORP (mV) FERROUS IF EPTH TAKEN	D.O. (mg/L) RON (mg/L): Extrac v te, N, tra	Depth to Water (ft TOC)	Obs. <u>s/msp</u> <u>500ml</u> <u>TOC</u>
SAMPLIN Samplé Time (24 hr) FINAL DO FINAL DO SAMPLE PARAME VOC pH:	Tota Purge (gals O READINC EPTH TO W ID: TERS REC ID	GUSING HAC	Temp (C) H METER C): R ANALYS D(Conductivity (mmhos/cm) (mg/L): SAMPLE SIS:A, U(2) D METER MO	Turbidity (NTUs) TIME FINAL DE	ORP (mV) FERROUS IF PTH TAKEN:	D.O. (mg/L) RON (mg/L): Extrac v te, Ni, tra y-tn pres. METER MC	Depth to Water (ft TOC)	Obs.
SAMPLIN Sample Time (24 hr) FINAL DO FINAL DO SAMPLE PARAME VOC pH: DO CHEO	NG Tota Purge (gals O READINO EPTH TO W ID: TERS REC ID CK IN AIR:	Equipment d pH d DSING HAC VATER (ft TO UESTED FC W TOTAL: Before:	Temp (C) H METER C): R ANALYS D(Conductivity (mmhos/cm) (mg/L): SAMPLE SIS:A, Guy D METER MO After:	Turbidity (NTUS) TIME FINAL DE ID FOR QC: MEE, Chlor (KC)	ORP (mV) FERROUS IF PTH TAKEN:	D.O. (mg/L) RON (mg/L): Extrac of te, N, tra y-in pres. METER MC	Depth to Water (ft TOC)	Obs. Som 500ml TOC, E Hizsoy
SAMPLIN Sample Time (24 hr) FINAL DO FINAL DO FINAL DO SAMPLE PARAME VOC pH: DO CHEC CHECKE	Tota Purge (gais O READINO EPTH TO W ID: TERS REC ID CK IN AIR: D FLOW TI	Equipment d pH d pH d DSING HAC VATER (ft TO DUESTED FC DUESTED FC W TOTAL: Before: HROUGH CE	Temp (C) H METER C): R ANALYS D(LL FOR LE	Conductivity (mmhos/cm) (mg/L): SIS:A SIS:A SIS:A METER MO After: :AKS:CO	Turbidity (NTUS) TIME FINAL DE ID FOR QC: MEE, Chlor (4C2) DEL No.:	ORP (mV) FERROUS IF PTH TAKEN:	D.O. (mg/L) RON (mg/L): Extrac v te, Ni, tra y-in pres. METER MC	Depth to Water (ft TOC)	Obs. Strop Stormi TOC, E Hizson
SAMPLIN Samplé Time (24 hr) FINAL DO FINAL DO SAMPLE PARAME VOC pH: DO CHEC CHECKE	Tota Purge (gals O READINC EPTH TO W ID: TERS REC ID CK IN AIR: D FLOW TI	Equipment d pH d pH d DSING HAC VATER (ft TO QUESTED FC W TOTAL: Before: HROUGH CE	Temp (C) H METER C): R ANALYS DO	Conductivity (mmhos/cm) (mg/L): SAMPLE SIS: <u>YrA</u> O METER MO <u>After:</u> AKS: [] Co	Turbidity (NTUS) TIME FINAL DE ID FOR QC: MEE, Chlor (4C2) DEL No.: OMMENTS: IGNATURE	ORP (mV) FERROUS IF EPTH TAKEN L Lite A L Lite A L Lite A L Lite A L Lite ORP	D.O. (mg/L) RON (mg/L): Extrac v te, N, tra y-in pres. METER MC	Depth to Water (ft TOC)	Obs. Storms D Soomi TOC, Hissoy
SAMPLIN Samplé Time (24 hr) FINAL DO FINAL DO FINAL DO SAMPLE PARAME VOC pH: DO CHECKE	Tota Purge (gals O READINC EPTH TO W ID: TERS REC ID CK IN AIR: D FLOW TI	Equipment d pH d pH d pH d pH d pH d pH d pH d pH	Temp (C) H METER C): R ANALYS D(LL FOR LE	Conductivity (mmhos/cm) (mg/L): SAMPLE SIS: <u>MCA</u> SIS: <u>MCA</u> O METER MO <u>After:</u> AKS: CO <u>SI</u>	Turbidity (NTUS) TIME FINAL DE ID FOR QC: TIME FINAL DE ID FOR QC: TIME FINAL DE ID FOR QC: TIME FINAL DE	ORP (mV) FERROUS IF PTH TAKEN: L Life Ide, SJ (Fr A (Fall of Control	D.O. (mg/L) RON (mg/L): Extrac v te, Nitra Y-th pres. METER MC	Depth to Water (ft TOC)	Obs. S/msp 500ml TOC, the the sou
SAMPLIN Sample Time (24 hr) FINAL DO FINAL DO FINAL DO SAMPLE PARAME VOC pH: DO CHEC CHECKE	Tota Purge (gals O READINO EPTH TO W ID: TERS REC ID CK IN AIR: D FLOW TI ED:	Equipment d pH d pH d of the temperature of USING HAC vater (ft to uested for UESTED FC W TOTAL: Before: HROUGH CE <u>NAME</u>	Temp (C) H METER C): R ANALYS DO LL FOR LE	Conductivity (mmhos/cm) (mg/L): SIS:A, SIS:A, SIS:A, SIS:A, O METER MO After: EAKS: CO SI	Turbidity (NTUS) TIME FINAL DE ID FOR QC: MEE, Chlor (4CC) DEL No.: OMMENTS: IGNATURE	ORP (mV) FERROUS IF PTH TAKEN:	D.O. (mg/L) RON (mg/L): Extrac v te, N, tra y-ta, pres. METER MC	Depth to Water (ft TOC)	Obs.

Attachment F

Water Quality Parameters-Bailer Sampled Wells

Stanton Cleaners Groundwater Contamination Site Annual Monitoring Well Sampling Event 5/9-5/11/2011 Bailer Sampled Wells

Monitoring Well/ Sample ID	Date	pH (s.u.)	Conductivity (mmhos/cm)	Turbidity (NTUs)	Dissolved Oxygen (DO) (mg/l)	Temperature (deg. C.)	Reduction Potential (ORP)(mV)	Depth to Water (ft. TOC)
EPA-MW21R-B	5/9/2011	6.54	0.723	N/A*	N/A*	15.46	160	64.38
ST-MW19-B	5/10/2011	6.3	0.733	169.8	10.33	15.6	171	64.93

Notes:

Three volumes of water bailed from well prior to sampling. Parameters measured before sampling.

N/A- Data not available

* Horiba would not calibrate for turbidity and DO 5/9/2011.

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Appendix B *Laboratory Data Packages* This page intentionally left blank